

June 2024

Monitoring Well and Residential Well Groundwater Data

Badger Army Ammunition Plant

Central Plume

Deterrent Burning Ground Plume

List of Attachments

Figure 1 June 2024 Sampled Wells

Figure 2 Total DNT Groundwater Results June 2024 Central Plume

Figure 3 Total DNT Groundwater Results June 2024 DBG Plume

Table 1 DNT Summary Table DBG Plume

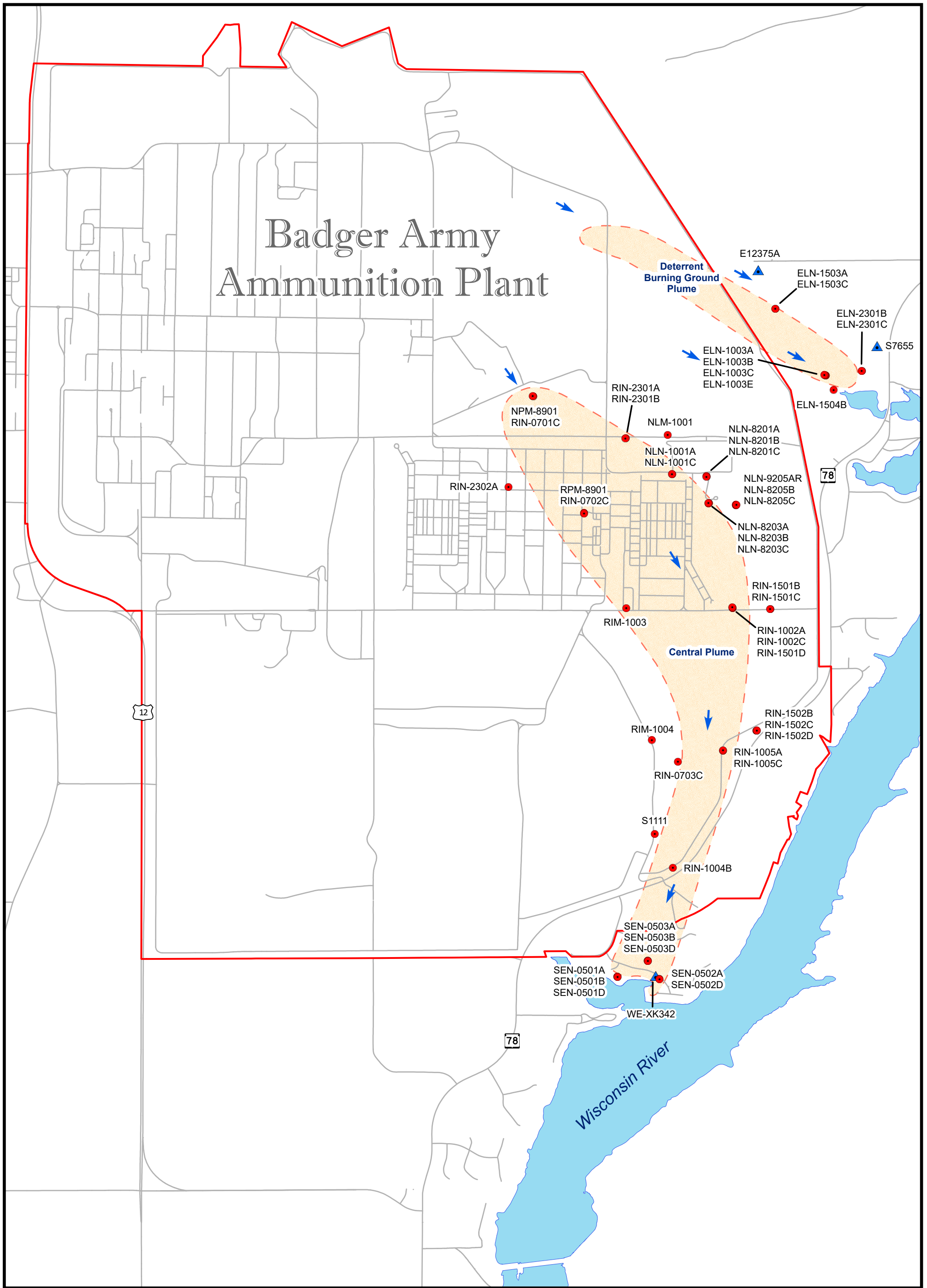
June 2024 Sampled Wells List

Residential Groundwater Results Summary - June 2024

Environmental Monitoring Data Certification Forms per License Area

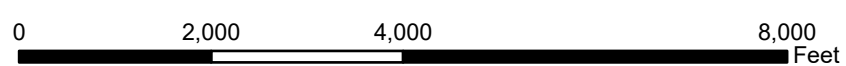
Groundwater Monitoring Exceedance & Hits Reports per License Area

Badger Army Ammunition Plant



- Sampled Monitoring Well
- ▲ Sampled Residential Well
- Groundwater Flow Direction
- Groundwater Plume
(Based on 2022, 2023 & 2024 data)

Figure 1
June 2024 Sampled Wells
Badger Army Ammunition Plant



Legend

- Sampled Well (Total DNT Detection)
- Sampled Well (No Detection)
- ➔ Groundwater Flow Direction
- Central Plume
- Wisconsin River
- Badger Army Ammunition Plant Boundary

DNT - Dinitrotoluene
 ND - Compound was not detected
 All results are expressed in micrograms per liter (µg/l)
 Dashed plume boundary is interpreted

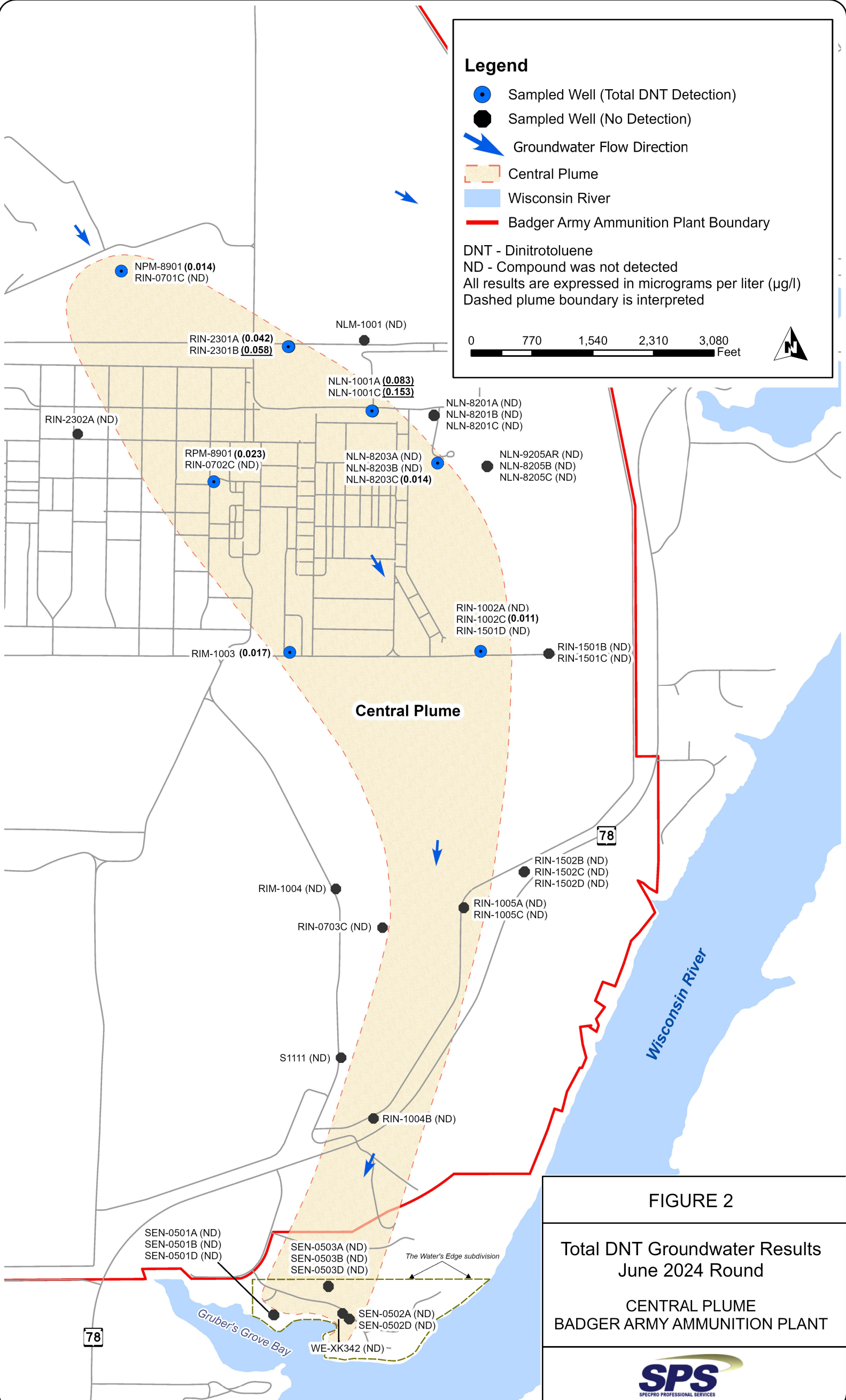
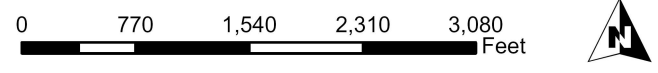
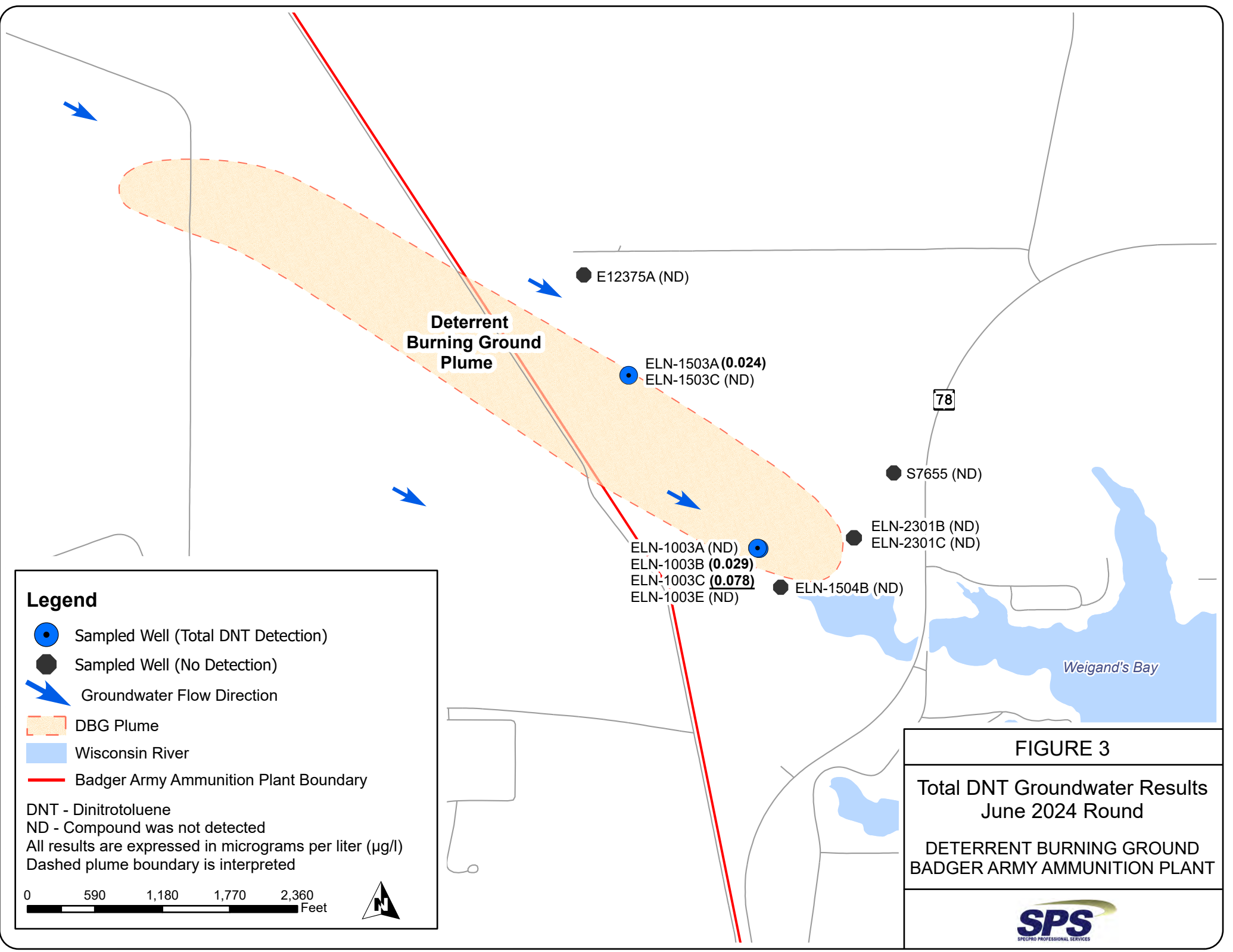


FIGURE 2
Total DNT Groundwater Results
June 2024 Round
CENTRAL PLUME
BADGER ARMY AMMUNITION PLANT





Legend

- Sampled Well (Total DNT Detection)
- Sampled Well (No Detection)
- ➔ Groundwater Flow Direction
- DBG Plume
- Wisconsin River
- Badger Army Ammunition Plant Boundary

DNT - Dinitrotoluene
 ND - Compound was not detected
 All results are expressed in micrograms per liter (µg/l)
 Dashed plume boundary is interpreted

0 590 1,180 1,770 2,360
 Feet

FIGURE 3

**Total DNT Groundwater Results
 June 2024 Round**

**DETERRENT BURNING GROUND
 BADGER ARMY AMMUNITION PLANT**



Table 1
2016 - 2024 Summary
Dinitrotoluene Groundwater Results
Deterrant Burning Ground
Badger Army Ammunition Plant

Plume	Well Name	Well ID	License	Sample Level	Date	Dinitrotoluenes						Dinitrotoluene, Total
						2,3-Dinitrotoluene	2,4-Dinitrotoluene	2,5-Dinitrotoluene	2,6-Dinitrotoluene	3,4-Dinitrotoluene	3,5-Dinitrotoluene	
DBG	ELN-1003B	468	2813	B	9/19/16	<0.006	<0.008	<0.003	<0.004	<0.004	<0.004	<0.008
					9/19/16 (D)	<0.006	<0.008	<0.003	<0.004	<0.004	<0.004	<0.008
					4/25/17	<0.006	<0.008	<0.003	<0.004	0.051	<0.004	<u>0.051</u>
					9/12/17	0.014 (J)	<0.0082	<0.0031	<0.0041	0.054	<0.0041	<u>0.068</u>
					4/26/18	0.029 (J)	0.026 (J)	0.028 (J)	0.024 (J)	0.1	0.025 (J)	<u>0.232</u>
					4/26/18 (D)	0.029 (J)	0.024 (J)	0.027 (J)	0.023 (J)	0.097	0.025 (J)	<u>0.225</u>
					5/14/18	0.03	<0.008	<0.003	0.036	0.12	<0.004	<u>0.186</u>
					6/28/18	0.059	<0.0076	<0.0029	<0.0038	0.12	<0.0038	<u>0.179</u>
					10/3/18	0.032	<0.0078	<0.0029	0.01 (J)	0.15	<0.0039	<u>0.192</u>
					10/3/18 (D)	0.031	<0.0081	<0.003	0.01 (J)	0.13	<0.004	<u>0.171</u>
					11/15/18	0.078	<0.0081	<0.003	<u>0.072</u>	0.17	<0.004	<u>0.32</u>
					4/23/19	0.045	<0.0078	<0.0029	<0.0039	0.12	<0.0039	<u>0.165</u>
					6/13/19	0.033	<0.0078	<0.0029	0.02 (J)	0.13	<0.0039	<u>0.183</u>
					6/13/19 (D)	0.033	<0.0077	<0.0029	0.019 (J)	0.13	<0.0038	<u>0.182</u>
					9/17/19	0.048	<0.0082	<0.0031	0.023 (J)	0.16	<0.0041	<u>0.231</u>
					9/17/19 (D)	0.048	<0.0082	<0.0031	0.022 (J)	0.15	<0.0041	<u>0.22</u>
					11/20/19	0.053	<0.0078	<0.0029	<0.0039	0.17	<0.0039	<u>0.223</u>
					5/6/20	<0.0063	<0.0083	<0.0031	<0.0042	0.13	<0.0042	<u>0.13</u>
					6/11/20	0.051	<0.0081	<0.003	<0.004	0.13	<0.004	<u>0.181</u>
					9/22/20	0.041	<0.0076	<0.0029	<0.0038	0.13	<0.0038	<u>0.171</u>
					11/9/20	0.04	<0.0082	<0.0031	<0.0041	0.13	<0.0041	<u>0.17</u>
					4/22/21	0.051 (J)	<0.0084	<0.0053	0.022 (J)	0.12	<0.0053	<u>0.193</u>
					4/22/21 (D)	0.048 (J)	<0.0082	<0.0051	0.022 (J)	0.12	<0.0051	<u>0.19</u>
					6/8/21	0.051 (J)	<0.0082	<0.0052	0.027 (J)	0.1	<0.0052	<u>0.178</u>
					6/8/21 (D)	0.053	<0.0084	<0.0053	0.029 (J)	0.1	<0.0053	<u>0.182</u>
					9/30/21	0.037 (J)	<0.0082	<0.0051	<0.0051	0.083	<0.0051	<u>0.12</u>
					11/9/21	0.038 (J)	<0.0077	<0.0048	<0.0048	0.086	<0.0048	<u>0.124</u>
					5/5/22	0.038 (J)	<0.0078	<0.0049	<0.0049	0.083	<0.0049	<u>0.121</u>
					7/7/22	0.041 (J)	<0.0078	<0.0049	<0.0049	0.084	<0.0049	<u>0.125</u>
					9/26/22	0.022 (J)	<0.0077	<0.0048	<0.0048	0.047 (J)	<0.0048	<u>0.069</u>
					11/9/22	0.038 (J)	<0.0076	<0.0048	<0.0048	0.092	<0.0048	<u>0.13</u>
					4/25/23	0.034 (J)	<0.0076	<0.0048	<0.0048	0.062	<0.0048	<u>0.096</u>
					6/27/23	0.022 (J)	<0.0077	<0.0048	<0.0048	0.061	<0.0048	<u>0.083</u>
					9/13/23	<0.0059	<0.0078	<0.0049	<0.0049	0.027 (J)	<0.0049	0.027 (J)
					9/13/23 (D)	<0.0058	<0.0077	<0.0048	<0.0048	0.025 (J)	<0.0048	0.025 (J)
					11/14/23	<0.0058	<0.0077	<0.0048	<0.0048	0.054	<0.0048	<u>0.054</u>
					4/10/24	<0.0057	<0.0076	<0.0048	<0.0048	0.026 (J)	<0.0048	0.026 (J)
					6/12/24	<0.0057	<0.0076	<0.0048	<0.0048	0.029 (J)	<0.0048	0.029 (J)

Table 1
2016 - 2024 Summary
Dinitrotoluene Groundwater Results
Deterrant Burning Ground
Badger Army Ammunition Plant

Plume	Well Name	Well ID	License	Sample Level	Date	Dinitrotoluenes						Dinitrotoluene, Total
						2,3-Dinitrotoluene	2,4-Dinitrotoluene	2,5-Dinitrotoluene	2,6-Dinitrotoluene	3,4-Dinitrotoluene	3,5-Dinitrotoluene	
DBG	ELN-1003C	469	2813	C	9/19/16	<0.0061	<0.0081	<0.003	<0.004	<0.004	<0.004	<0.0081
					4/25/17	<0.006	<0.008	<0.003	0.0085 (J)	<0.004	<0.004	0.0085 (J)
					9/12/17	<0.0064	<0.0085	<0.0032	<0.0043	<0.0043	<0.0043	<0.0085
					4/26/18	0.025 (J)	0.026 (J)	<0.003	0.023 (J)	<0.004	<0.004	0.074
					5/14/18	<0.0061	<0.0081	<0.003	0.029 (J)	0.079	<0.004	0.108
					6/28/18	<0.0057	<0.0076	<0.0029	<0.0038	<0.0038	<0.0038	<0.0076
					6/28/18 (D)	<0.0058	<0.0077	<0.0029	<0.0038	<0.0038	<0.0038	<0.0077
					10/3/18	0.024 (J)	<0.0078	<0.0029	0.0087 (J)	0.1	<0.0039	0.1327
					11/15/18	0.07	<0.0078	<0.0029	0.068	0.14	<0.0039	0.278
					4/23/19	<0.0058	<0.0078	<0.0029	<0.0039	0.09	<0.0039	0.09
					4/23/19 (D)	<0.0058	<0.0078	<0.0029	<0.0039	0.093	<0.0039	0.093
					6/13/19	0.028 (J)	<0.0082	<0.0031	0.022 (J)	0.11	<0.0041	0.16
					9/17/19	0.039	<0.0082	<0.0031	0.022 (J)	0.11	<0.0041	0.171
					11/20/19	<0.0059	<0.0079	<0.003	<0.004	0.13	<0.004	0.13
					11/20/19 (D)	<0.0059	<0.0079	<0.003	<0.004	0.13	<0.004	0.13
					5/6/20	<0.0064	<0.0085	<0.0032	<0.0043	0.13	<0.0043	0.13
					5/6/20 (D)	<0.0064	<0.0085	<0.0032	<0.0043	0.11	<0.0043	0.11
					6/11/20	0.05	<0.0084	<0.0032	0.035	0.13	<0.0042	0.215
					9/22/20	0.039	<0.0078	<0.0029	<0.0039	0.13	<0.0039	0.169
					11/9/20	0.038	<0.0082	<0.0031	<0.0041	0.14	<0.0041	0.178
					4/22/21	0.048 (J)	<0.0083	<0.0052	0.026 (J)	0.13	<0.0052	0.204
					6/8/21	0.054	<0.0084	<0.0053	0.031 (J)	0.12	<0.0053	0.205
					9/30/21	0.037 (J)	<0.008	<0.005	0.024 (J)	0.11	<0.005	0.171
					11/9/21	0.045 (J)	<0.0081	<0.0051	<0.0051	0.11	<0.0051	0.155
					5/5/22	0.046 (J)	<0.0083	<0.0052	0.033 (J)	0.11	<0.0052	0.189
					5/5/22 (D)	0.045 (J)	<0.0081	<0.0051	<0.0051	0.11	<0.0051	0.155
					7/7/22	0.044 (J)	<0.0079	<0.005	0.035 (J)	0.11	<0.005	0.189
					9/26/22	0.028 (J)	<0.0078	<0.0049	<0.0049	0.077	<0.0049	0.105
					11/9/22	0.047 (J)	<0.0076	<0.0048	0.031 (J)	0.13	<0.0048	0.208
					11/9/22 (D)	0.051	<0.008	<0.005	0.037 (J)	0.13	<0.005	0.218
4/25/23	0.042 (J)	<0.008	<0.005	0.023 (J)	0.099	<0.005	0.164					
4/25/23 (D)	0.039 (J)	<0.0077	<0.0048	0.02 (J)	0.091	<0.0048	0.15					
6/27/23	0.032 (J)	<0.0079	<0.005	0.018 (J)	0.097	<0.005	0.147					
9/13/23	0.012 (J)	<0.0077	<0.0048	<0.0048	0.054	<0.0048	0.066					
11/14/23	0.036 (J)	<0.0078	<0.0049	<0.0049	0.08	<0.0048	0.116					
4/10/24	0.011 (J)	<0.0078	<0.0049	<0.0049	0.055	<0.0049	0.066					
6/12/24	0.018 (J)	<0.0078	<0.0049	<0.0049	0.06	<0.0049	0.078					

Table 1
2016 - 2024 Summary
Dinitrotoluene Groundwater Results
Deterrant Burning Ground
Badger Army Ammunition Plant

Plume	Well Name	Well ID	License	Sample Level	Date	Dinitrotoluenes						Dinitrotoluene, Total
						2,3-Dinitrotoluene	2,4-Dinitrotoluene	2,5-Dinitrotoluene	2,6-Dinitrotoluene	3,4-Dinitrotoluene	3,5-Dinitrotoluene	
DBG	ELN-1502A	533	2813	A	9/15/16	0.065	<0.008	<0.003	<0.004	0.13	<0.004	<u>0.195</u>
					4/18/17	0.11	<0.0082	<0.0031	0.011 (J)	0.28	<0.0041	<u>0.401</u>
					4/18/17 (D)	0.12	<0.0084	<0.0032	0.012 (J)	0.31	<0.0042	<u>0.442</u>
					9/5/17	0.13	<0.0082	<0.0031	<0.0041	0.28	0.023 (J)	<u>0.433</u>
					9/5/17 (D)	0.13	<0.008	<0.003	<0.004	0.34	0.022 (J)	<u>0.492</u>
					4/24/18	0.14	<0.0083	<0.0031	0.03 (J)	0.39	0.034	<u>0.594</u>
					4/24/18 (D)	0.13	<0.008	<0.003	0.027 (J)	0.38	<0.004	<u>0.537</u>
					5/14/18	0.17	<0.008	<0.003	0.08	0.44	<0.004	<u>0.69</u>
					9/4/18	0.16	<0.0082	<0.0031	0.011 (J)	0.42	0.036	<u>0.627</u>
					9/4/18 (D)	0.21	<0.008	<0.003	0.02 (J)	0.53	0.041	<u>0.801</u>
					4/1/19	0.17	<0.0082	<0.0031	0.024 (J)	0.37	0.054	<u>0.618</u>
					4/1/19 (D)	0.16	<0.0082	<0.0031	0.023 (J)	0.35	0.053	<u>0.586</u>
					9/10/19	0.13	<0.0083	<0.0031	0.026 (J)	0.3	0.051	<u>0.507</u>
					9/10/19 (D)	0.14	<0.0081	<0.003	0.027 (J)	0.32	0.05	<u>0.537</u>
					4/6/20	0.085	<0.0087	<0.0033	<0.0043	0.19	<0.0043	<u>0.275</u>
					4/6/20 (D)	0.076	<0.0082	<0.0031	<0.0041	0.17	<0.0041	<u>0.246</u>
					9/21/20	0.078	<0.008	<0.003	<0.004	0.16	0.03	<u>0.268</u>
					4/5/21	0.059	0.022 (J)	<0.0051	0.011 (J)	0.12	0.028 (J)	<u>0.24</u>
					4/5/21 (D)	0.058	0.027 (J)	<0.0052	0.012 (J)	0.12	0.028 (J)	<u>0.245</u>
					9/9/21	0.06	<0.0079	<0.005	<0.005	0.13	0.027 (J)	<u>0.217</u>
					9/9/21 (D)	0.061	<0.0078	<0.0049	0.018 (J)	0.13	0.026 (J)	<u>0.235</u>
					4/25/22	0.067	<0.0082	<0.0051	<0.0051	0.11	<0.0051	<u>0.177</u>
					4/25/22 (D)	0.069	<0.008	<0.005	<0.005	0.12	<0.005	<u>0.189</u>
					9/15/22	0.067	<0.0078	<0.0049	<0.0049	0.13	0.025 (J)	<u>0.222</u>
					4/10/23	0.091	<0.008	<0.005	<0.005	0.17	<0.005	<u>0.261</u>
					4/10/23 (D)	0.094	<0.005	<0.005	<0.005	0.17	<0.005	<u>0.264</u>
9/11/23	0.084	<0.0082	<0.005	<0.005	0.17	<0.005	<u>0.254</u>					
9/11/23 (D)	0.091	<0.0079	<0.005	<0.005	0.2	<0.005	<u>0.291</u>					
4/8/24	0.072	<0.0078	<0.0049	<0.0049	0.16	0.013 (J)	<u>0.245</u>					
4/8/24 (D)	0.067	<0.0077	<0.0048	<0.0048	0.15	0.012 (J)	<u>0.229</u>					

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Dinitrotoluene Groundwater Results
Deterrant Burning Ground
Badger Army Ammunition Plant

Plume	Well Name	Well ID	License	Sample Level	Date	Dinitrotoluenes						Dinitrotoluene, Total
						2,3-Dinitrotoluene	2,4-Dinitrotoluene	2,5-Dinitrotoluene	2,6-Dinitrotoluene	3,4-Dinitrotoluene	3,5-Dinitrotoluene	
DBG	ELN-1503A	535	2813	A	4/26/21	<0.0065	<0.0087	<0.0054	<0.0054	<0.0054	<0.0054	<0.0087
					9/28/21	<0.0058	<0.0077	<0.0048	<0.0048	<0.0048	<0.0048	<0.0077
					11/9/21	0.035 (J)	<0.0081	<0.0051	<0.0051	0.05 (J)	<0.0051	<u>0.085 (J)</u>
					4/28/22	0.043 (J)	<0.008	<0.005	<0.005	0.07	<0.005	<u>0.113</u>
					4/28/22 (D)	0.04 (J)	<0.008	<0.005	<0.005	0.067	<0.005	<u>0.107</u>
					7/7/22	<0.006	<0.008	<0.005	<0.005	<0.005	<0.005	<0.008
					7/7/22 (D)	0.037 (J)	<0.008	<0.005	<0.005	<0.005	<0.005	<u>0.037 (J)</u>
					9/22/22	0.018 (J)	<0.008	<0.005	<0.005	0.02 (J)	<0.005	<u>0.038 (J)</u>
					11/8/22	<0.0058	<0.0078	<0.005	<0.005	<0.005	<0.005	<0.0078
					4/27/23	0.041 (J)	<0.008	<0.005	<0.005	0.064	<0.005	<u>0.105</u>
					4/27/23 (D)	0.04 (J)	<0.008	<0.005	<0.005	0.06	<0.005	<u>0.1</u>
					6/27/23	<0.006	<0.008	<0.005	<0.005	0.034 (J)	<0.005	<u>0.034 (J)</u>
					9/13/23	<0.0058	<0.0077	<0.0048	<0.0048	0.012 (J)	<0.0048	<u>0.012 (J)</u>
					11/14/23	<0.0061	<0.0081	<0.0051	<0.0051	<0.0051	<0.0051	<0.0081
					4/10/24	0.0062 (J)	<0.0079	<0.005	<0.005	0.017 (J)	<0.005	<u>0.0232 (J)</u>
					6/12/24	<0.0058	<0.0079	<0.005	<0.005	0.024 (J)	<0.005	<u>0.024 (J)</u>
6/12/24 (D)	<0.0058	<0.0079	<0.005	<0.005	0.023 (J)	<0.005	<u>0.023 (J)</u>					
Chapter NR 140 PAL						NE	0.005	NE	0.005	NE	NE	0.005
Chapter NR 140 ES						NE	0.05	NE	0.05	NE	NE	0.05

Notes:

- DBG - Deterrant Burning Ground
- The Sample Level references the typical well depth configuration
- All results are expressed in micrograms per liter (µg/l)
- DNT analysis was performed by CT Laboratories
- D = Duplicate sample
- J = Analytical result is between the Limit of Detection (LOD) and Limit of Quantitation (LOQ)
- NE = Not Established
- Chapter NR 140 PAL - Chapter NR 140, Wisconsin Administrative Code, Preventive Action Limit (bold values)
- Chapter NR 140 ES - Chapter NR 140, Wisconsin Administrative Code, Enforcement Standard (bold & underline values)

June 2024
Badger Army Ammunition Plant
Sampled Wells List

<u>License Area</u>	<u>Well ID</u>	<u>Reporting Name</u>	<u>Date</u>	<u>Sample Frequency</u>	<u>Plume</u>
3118	252	NLN-8201A	6/10/2024	Annual	Central Plume
3118	253	NLN-8201B	6/10/2024	Annual	Central Plume
3118	254	NLN-8201C	6/10/2024	Annual	Central Plume
3118	258	NLN-8203A	6/10/2024	Annual	Central Plume
3118	259	NLN-8203B	6/10/2024	Annual	Central Plume
3118	260	NLN-8203C	6/10/2024	Annual	Central Plume
3118	265	NLN-8205B	6/10/2024	Annual	Central Plume
3118	266	NLN-8205C	6/10/2024	Annual	Central Plume
3118	269	NLN-9205AR	6/10/2024	Annual	Central Plume
3646	330	NLM-1001	6/10/2024	Annual	Central Plume
3646	331	NLN-1001A	6/10/2024	Annual	Central Plume
3646	332	NLN-1001C	6/10/2024	Annual	Central Plume
3497	435	WE-XK342	6/13/2024	Quarterly	Central Plume
3487	443	RIN-0701C	6/12/2024	Annual	Central Plume
3487	444	RIN-0702C	6/13/2024	Annual	Central Plume
3487	445	RIN-0703C	6/12/2024	Annual	Central Plume
3487	491	RIM-1003	6/10/2024	Annual	Central Plume
3487	492	RIN-1002A	6/11/2024	Annual	Central Plume
3487	493	RIN-1002C	6/11/2024	Annual	Central Plume
3487	494	RIM-1004	6/12/2024	Annual	Central Plume
3487	496	RIN-1005A	6/11/2024	Annual	Central Plume
3487	497	RIN-1005C	6/11/2024	Annual	Central Plume
3487	498	RIN-1004B	6/11/2024	Semiannual	Central Plume
3487	506	NPM-8901	6/10/2024	Annual	Central Plume
3487	507	RPM-8901	6/10/2024	Annual	Central Plume
3487	538	RIN-1501B	6/11/2024	Annual	Central Plume
3487	539	RIN-1501C	6/11/2024	Annual	Central Plume
3487	540	RIN-1501D	6/11/2024	Annual	Central Plume
3487	541	RIN-1502B	6/11/2024	Annual	Central Plume
3487	542	RIN-1502C	6/11/2024	Annual	Central Plume
3487	543	RIN-1502D	6/11/2024	Annual	Central Plume
3487	549	RIN-2301A	6/10/2024	Annual	Central Plume
3487	550	RIN-2301B	6/10/2024	Annual	Central Plume
3487	551	RIN-2302A	6/10/2024	Annual	Central Plume
4330	580	SEN-0501A	6/13/2024	Semiannual	Central Plume
4330	581	SEN-0501B	6/13/2024	Semiannual	Central Plume
4330	582	SEN-0501D	6/13/2024	Semiannual	Central Plume
4330	583	SEN-0502A	6/13/2024	Semiannual	Central Plume
4330	584	SEN-0502D	6/13/2024	Semiannual	Central Plume
4330	585	SEN-0503A	6/13/2024	Semiannual	Central Plume
4330	586	SEN-0503B	6/13/2024	Semiannual	Central Plume
4330	587	SEN-0503D	6/13/2024	Semiannual	Central Plume
3038	751	S1111	6/11/2024	Annual	Central Plume
2813	467	ELN-1003A	6/12/2024	Quarterly	Deterrent Burning Ground
2813	468	ELN-1003B	6/12/2024	Quarterly	Deterrent Burning Ground
2813	469	ELN-1003C	6/12/2024	Quarterly	Deterrent Burning Ground

June 2024
Badger Army Ammunition Plant
Sampled Wells List

<u>License Area</u>	<u>Well ID</u>	<u>Reporting Name</u>	<u>Date</u>	<u>Sample Frequency</u>	<u>Plume</u>
2813	470	ELN-1003E	6/12/2024	Quarterly	Deterrent Burning Ground
2813	535	ELN-1503A	6/12/2024	Quarterly	Deterrent Burning Ground
2813	536	ELN-1503C	6/12/2024	Quarterly	Deterrent Burning Ground
2813	537	ELN-1504B	6/12/2024	Quarterly	Deterrent Burning Ground
2813	547	ELN-2301B	6/12/2024	Quarterly	Deterrent Burning Ground
2813	548	ELN-2301C	6/12/2024	Quarterly	Deterrent Burning Ground
3497	803	E12375A	6/12/2024	Quarterly	Deterrent Burning Ground
3497	916	S7655	6/12/2024	Quarterly	Deterrent Burning Ground

Residential Groundwater Results Summary - June 2024 Sampling Event

					All results are expressed as µg/l (micrograms per liter)							
<u>Well No.</u>	<u>Well Name or Address</u>	<u>Shared With</u>	<u>Analyzed By</u>	<u>Sample Date</u>	<u>Chloroform</u>	<u>2,4-Dinitrotoluene</u>	<u>2,6-Dinitrotoluene</u>	<u>2,3-Dinitrotoluene</u>	<u>3,4-Dinitrotoluene</u>	<u>2,5-Dinitrotoluene</u>	<u>3,5-Dinitrotoluene</u>	<u>Dinitrotoluene, Total</u>
435	WE-XK342	S8741, S8737	CT Lab	6/13/2024	0.12	ND	ND	ND	ND	ND	ND	ND
803	E12375A		CT Lab	6/12/2024		ND	ND	ND	ND	ND	ND	ND
916	S7655		CT Lab	6/12/2024		ND	ND	ND	ND	ND	ND	ND

June '24 Round	Level of Detection	Level of Quantitation
2,3-DNT	0.0058	0.049
2,4-DNT	0.0078	0.049
2,5-DNT	0.0049	0.049
2,6-DNT	0.0049	0.049
3,4-DNT	0.0049	0.049
3,5-DNT	0.0049	0.049

*Level of detection and level of quantitation may change each round.

- = Under PAL and ES
- = Over Preventive Action Limit (PAL)
- = Over Enforcement Standard (ES)
- = No PAL or ES established
- = Not Tested
- ND = Compound was not detected

CT Lab = CT Laboratories, LLC
 2,4-DNT, 2,6-DNT & Total DNT - NR 140 PAL = 0.005 µg/l
 2,4-DNT, 2,6-DNT & Total DNT - NR 140 ES = 0.05 µg/l

Notice: Personally identifiable information collected will be used for program administration and enforcement purposes. The Department may also provide this information to requesters as required under Wisconsin's Open Records law, ss. 19.31 to 19.39, Wis. Stats. When submitting monitoring data, the owner or operator of the facility, practice or activity is required to notify the Department in writing that a groundwater standard or an explosive gas level has been attained or exceeded, as specified in ss. NR 140.24(1)(a); NR 140.26(1)(a); NR 507.30NR 635.14(9)(a); NR 635.18(20) and NR 507.30, Wis. Adm. Code. Failure to report may result in fines, forfeitures or other penalties resulting from enforcement under ss. 289.97, 291.97 or 299.95, Wis. Stats.

Instructions:

- **Prepare one form for each license or monitoring ID.**
- **Please type or print legibly.**
- Attach a notification of any values that attain or exceed groundwater standards (that is, preventive action limits, enforcement standards or alternative concentration limits). The notification must include a preliminary analysis of the cause and significance of each value.
- Attach a notification of any gas values that attain or exceed explosive gas levels.
- Send the original signed form, any notification, and Electronic Data Deliverable [EDD] to:

GEMS Data Submittal Contact - WA/5
Bureau of Waste Management
Wisconsin Department of Natural Resources
101 South Webster Street
Madison WI 53707-7921

Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

SpecPro Professional Services - Badger Army Ammunition Plant

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Joel Janssen Phone: (608) 438-1110

E-mail: Joel.Janssen@SpecProSvcS.com

Facility name:	License # / Monitoring ID	Facility ID [FID]	Actual sampling dates (e.g., July 2-6, 2003)
BAAP - Landfill #5	02813	157005530	6/12/24

The enclosed results are for sampling required in the month(s) of: (e.g., June 2003)

June 2024

Type of Data Submitted (Check all that apply)

- | | |
|---|--|
| <input checked="" type="checkbox"/> Groundwater monitoring data from monitoring wells | <input type="checkbox"/> Gas monitoring data |
| <input type="checkbox"/> Groundwater monitoring data from private water supply wells | <input type="checkbox"/> Air monitoring data |
| <input type="checkbox"/> Leachate monitoring data | <input type="checkbox"/> Other (specify) _____ |

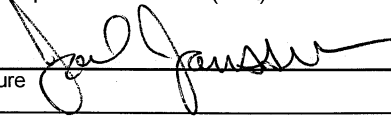
Notification attached?

- No. No groundwater standards or explosive gas limits were exceeded.
- Yes, a notification of values exceeding a groundwater standard is attached. It includes a list of monitoring points, dates, sample values, groundwater standard and preliminary analysis of the cause and significance of any concentration.
- Yes, a notification of values exceeding an explosive gas limit is attached. It includes the monitoring points, dates, sample values and explosive gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards.

Joel Janssen Project Manager (608) 438-1110
Facility Representative Name (Print) Title (Area Code) Telephone No.

Signature  Date 8/15/24

FOR DNR USE ONLY. Check action taken, and record date and your initials. Describe on back side if necessary.

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EDD format(s): Diskette CD (initial submittal and follow-up) E-mail (follow-up only) Other _____

Case Narrative
Groundwater Monitoring
License Number 2813
Landfill #5
June 2024
Badger Army Ammunition Plant

Groundwater is currently being monitored by the facility because of past production activities. Nine monitoring wells were sampled to assist with determining the degree and lateral extent of dinitrotoluene (DNT) in the Deterrent Burning Ground Plume.

Total DNT exceeded the Enforcement Standard (ES) in ELN-1003C (469).

Total DNT exceeded the Preventive Action Limit (PAL) in ELN-1003B (468) and ELN-1503A (535).

DNT analysis was performed by CT Laboratories using method SW 8270D SIM. The following DNT isomers were reported: 2,3-DNT, 2,4-DNT, 2,5-DNT, 2,6-DNT, 3,4-DNT, and 3,5-DNT.

Badger Army Ammunition Plant

SpecPro Professional Services, LLC

GROUNDWATER MONITORING EXCEEDANCE REPORT

June 2024

Report Date: 8/15/2024

Parameter Name	Lic No.	Well No.	Well Name	Date	Dup	Result	Units	PAL	ES
Total Dinitrotoluenes	2813	468	ELN-1003B	6/12/2024	1	0.029	ug/l	0.005	0.05
Total Dinitrotoluenes	2813	469	ELN-1003C	6/12/2024	1	0.078	ug/l	0.005	0.05
Total Dinitrotoluenes	2813	535	ELN-1503A	6/12/2024	1	0.024	ug/l	0.005	0.05
Total Dinitrotoluenes	2813	535	ELN-1503A	6/12/2024	2	0.023	ug/l	0.005	0.05

Badger Army Ammunition Plant

SpecPro Professional Services, LLC

June 2024

GROUNDWATER MONITORING ALL HITS REPORT

License No: 2813

Report Date: 8/15/2024

Parameter Name	Well	Well Name	Date	Dup	Result	LOD	LOQ	Units	PAL	ES
3,4-Dinitrotoluene	468	ELN-1003B	6/12/2024	1	0.029	0.0048	0.048	ug/l		
Total Dinitrotoluenes	468	ELN-1003B	6/12/2024	1	0.029	0.0076	0.048	ug/l	0.005	0.05
2,3-Dinitrotoluene	469	ELN-1003C	6/12/2024	1	0.018	0.0058	0.048	ug/l		
3,4-Dinitrotoluene	469	ELN-1003C	6/12/2024	1	0.06	0.0048	0.048	ug/l		
Total Dinitrotoluenes	469	ELN-1003C	6/12/2024	1	0.078	0.0077	0.048	ug/l	0.005	0.05
3,4-Dinitrotoluene	535	ELN-1503A	6/12/2024	2	0.023	0.0049	0.049	ug/l		
3,4-Dinitrotoluene	535	ELN-1503A	6/12/2024	1	0.024	0.0049	0.049	ug/l		
Total Dinitrotoluenes	535	ELN-1503A	6/12/2024	2	0.023	0.0078	0.049	ug/l	0.005	0.05
Total Dinitrotoluenes	535	ELN-1503A	6/12/2024	1	0.024	0.0078	0.049	ug/l	0.005	0.05

Notice: Personally identifiable information collected will be used for program administration and enforcement purposes. The Department may also provide this information to requesters as required under Wisconsin's Open Records law, ss. 19.31 to 19.39, Wis. Stats. When submitting monitoring data, the owner or operator of the facility, practice or activity is required to notify the Department in writing that a groundwater standard or an explosive gas level has been attained or exceeded, as specified in ss. NR 140.24(1)(a); NR 140.26(1)(a); NR 507.30NR 635.14(9)(a); NR 635.18(20) and NR 507.30, Wis. Adm. Code. Failure to report may result in fines, forfeitures or other penalties resulting from enforcement under ss. 289.97, 291.97 or 299.95, Wis. Stats.

Instructions:

- Prepare one form for each license or monitoring ID.
- Please type or print legibly.
- Attach a notification of any values that attain or exceed groundwater standards (that is, preventive action limits, enforcement standards or alternative concentration limits). The notification must include a preliminary analysis of the cause and significance of each value.
- Attach a notification of any gas values that attain or exceed explosive gas levels.
- Send the original signed form, any notification, and Electronic Data Deliverable [EDD] to: GEMS Data Submittal Contact - WA/5
Bureau of Waste Management
Wisconsin Department of Natural Resources
101 South Webster Street
Madison WI 53707-7921

Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

SpecPro Professional Services - Badger Army Ammunition Plant

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Joel Janssen Phone: (608) 438-1110

E-mail: Joel.Janssen@SpecProSvcS.com

Facility name:	License # / Monitoring ID	Facility ID [FID]	Actual sampling dates (e.g., July 2-6, 2003)
BAAP - Southeast Boundary	03038	157005530	6/11/24

The enclosed results are for sampling required in the month(s) of: (e.g., June 2003)

June 2024

Type of Data Submitted (Check all that apply)

- | | |
|---|--|
| <input checked="" type="checkbox"/> Groundwater monitoring data from monitoring wells | <input type="checkbox"/> Gas monitoring data |
| <input type="checkbox"/> Groundwater monitoring data from private water supply wells | <input type="checkbox"/> Air monitoring data |
| <input type="checkbox"/> Leachate monitoring data | <input type="checkbox"/> Other (specify) _____ |

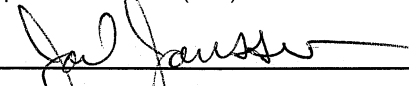
Notification attached?

- No. No groundwater standards or explosive gas limits were exceeded.
- Yes, a notification of values exceeding a groundwater standard is attached. It includes a list of monitoring points, dates, sample values, groundwater standard and preliminary analysis of the cause and significance of any concentration.
- Yes, a notification of values exceeding an explosive gas limit is attached. It includes the monitoring points, dates, sample values and explosive gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards.

Joel Janssen Project Manager (608) 438-1110
Facility Representative Name (Print) Title (Area Code) Telephone No.

Signature  Date 8/15/24

FOR DNR USE ONLY. Check action taken, and record date and your initials. Describe on back side if necessary.

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Notified contact of problems on _____ Uploaded data successfully on _____

EDD format(s): Diskette CD (initial submittal and follow-up) E-mail (follow-up only) Other _____

Case Narrative
Groundwater Monitoring
License Number 3038
Southeast Boundary
June 2024
Badger Army Ammunition Plant

Groundwater is currently being monitored by the facility because of past production activities. One monitoring well was sampled to assist with determining the degree and lateral extent of dinitrotoluene (DNT) in the Central Plume.

No compounds were detected in S1111 (751).

DNT analysis was performed by CT Laboratories using method SW 8270D SIM. The following DNT isomers were reported: 2,3-DNT, 2,4-DNT, 2,5-DNT, 2,6-DNT, 3,4-DNT, and 3,5-DNT.

Notice: Personally identifiable information collected will be used for program administration and enforcement purposes. The Department may also provide this information to requesters as required under Wisconsin's Open Records law, ss. 19.31 to 19.39, Wis. Stats. When submitting monitoring data, the owner or operator of the facility, practice or activity is required to notify the Department in writing that a groundwater standard or an explosive gas level has been attained or exceeded, as specified in ss. NR 140.24(1)(a); NR 140.26(1)(a); NR 507.30NR 635.14(9)(a); NR 635.18(20) and NR 507.30, Wis. Adm. Code. Failure to report may result in fines, forfeitures or other penalties resulting from enforcement under ss. 289.97, 291.97 or 299.95, Wis. Stats.

Instructions:

- Prepare one form for each license or monitoring ID.
- Please type or print legibly.
- Attach a notification of any values that attain or exceed groundwater standards (that is, preventive action limits, enforcement standards or alternative concentration limits). The notification must include a preliminary analysis of the cause and significance of each value.
- Attach a notification of any gas values that attain or exceed explosive gas levels.
- Send the original signed form, any notification, and Electronic Data Deliverable [EDD] to:

GEMS Data Submittal Contact - WA/5
Bureau of Waste Management
Wisconsin Department of Natural Resources
101 South Webster Street
Madison WI 53707-7921

Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

SpecPro Professional Services - Badger Army Ammunition Plant

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Joel Janssen Phone: (608) 438-1110

E-mail: Joel.Janssen@SpecProSvc.com

Facility name:	License # / Monitoring ID	Facility ID [FID]	Actual sampling dates (e.g., July 2-6, 2003)
BAAP - Demolition Landfill	03118	157071420	6/10/24

The enclosed results are for sampling required in the month(s) of: (e.g., June 2003)

June 2024

Type of Data Submitted (Check all that apply)

- | | |
|---|--|
| <input checked="" type="checkbox"/> Groundwater monitoring data from monitoring wells | <input type="checkbox"/> Gas monitoring data |
| <input type="checkbox"/> Groundwater monitoring data from private water supply wells | <input type="checkbox"/> Air monitoring data |
| <input type="checkbox"/> Leachate monitoring data | <input type="checkbox"/> Other (specify) |

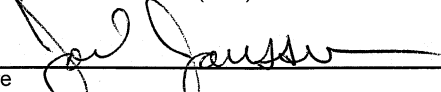
Notification attached?

- No. No groundwater standards or explosive gas limits were exceeded.
- Yes, a notification of values exceeding a groundwater standard is attached. It includes a list of monitoring points, dates, sample values, groundwater standard and preliminary analysis of the cause and significance of any concentration.
- Yes, a notification of values exceeding an explosive gas limit is attached. It includes the monitoring points, dates, sample values and explosive gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards.

Joel Janssen Project Manager (608) 438-1110
Facility Representative Name (Print) Title (Area Code) Telephone No.

Signature  Date 8/15/24

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EDD format(s): Diskette CD (initial submittal and follow-up) E-mail (follow-up only) Other

Case Narrative
Groundwater Monitoring
License Number 3118
Demolition Landfill
June 2024
Badger Army Ammunition Plant

Groundwater is currently being monitored by the facility because of past production activities. Nine monitoring wells were sampled to assist with determining the degree and lateral extent of dinitrotoluene (DNT) in the Central Plume.

2,4-DNT and total DNT exceeded the Preventive Action Limit (PAL) in NLN-8203C (260).

DNT analysis was performed by CT Laboratories using method SW 8270D SIM. The following DNT isomers were reported: 2,3-DNT, 2,4-DNT, 2,5-DNT, 2,6-DNT, 3,4-DNT, and 3,5-DNT.

Badger Army Ammunition Plant

SpecPro Professional Services, LLC

GROUNDWATER MONITORING EXCEEDANCE REPORT

June 2024

Report Date: 8/15/2024

Parameter Name	Lic No.	Well No.	Well Name	Date	Dup	Result	Units	PAL	ES
2,4-Dinitrotoluene	3118	260	NLN-8203C	6/10/2024	1	0.014	ug/l	0.005	0.05
Total Dinitrotoluenes	3118	260	NLN-8203C	6/10/2024	1	0.014	ug/l	0.005	0.05

Badger Army Ammunition Plant

SpecPro Professional Services, LLC

June 2024

GROUNDWATER MONITORING ALL HITS REPORT

License No: 3118

Report Date: 8/15/2024

Parameter Name	Well	Well Name	Date	Dup	Result	LOD	LOQ	Units	PAL	ES
2,4-Dinitrotoluene	260	NLN-8203C	6/10/2024	1	0.014	0.0078	0.049	ug/l	0.005	0.05
Total Dinitrotoluenes	260	NLN-8203C	6/10/2024	1	0.014	0.0078	0.049	ug/l	0.005	0.05

Notice: Personally identifiable information collected will be used for program administration and enforcement purposes. The Department may also provide this information to requesters as required under Wisconsin's Open Records law, ss. 19.31 to 19.39, Wis. Stats. When submitting monitoring data, the owner or operator of the facility, practice or activity is required to notify the Department in writing that a groundwater standard or an explosive gas level has been attained or exceeded, as specified in ss. NR 140.24(1)(a); NR 140.26(1)(a); NR 507.30NR 635.14(9)(a); NR 635.18(20) and NR 507.30, Wis. Adm. Code. Failure to report may result in fines, forfeitures or other penalties resulting from enforcement under ss. 289.97, 291.97 or 299.95, Wis. Stats.

Instructions:

- **Prepare one form for each license or monitoring ID.**
- **Please type or print legibly.**
- Attach a notification of any values that attain or exceed groundwater standards (that is, preventive action limits, enforcement standards or alternative concentration limits). The notification must include a preliminary analysis of the cause and significance of each value.
- Attach a notification of any gas values that attain or exceed explosive gas levels.
- Send the original signed form, any notification, and Electronic Data Deliverable [EDD] to:

GEMS Data Submittal Contact - WA/5
Bureau of Waste Management
Wisconsin Department of Natural Resources
101 South Webster Street
Madison WI 53707-7921

Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

SpecPro Professional Services - Badger Army Ammunition Plant

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Joel Janssen

Phone: (608) 438-1110

E-mail: Joel.Janssen@SpecProSvcS.com

Facility name:	License # / Monitoring ID	Facility ID [FID]	Actual sampling dates (e.g., July 2-6, 2003)
BAAP - Nitroglycerine Pond/Rocket Paste Area	03487	157005530	6/10 - 6/13/24

The enclosed results are for sampling required in the month(s) of: (e.g., June 2003)

June 2024

Type of Data Submitted (Check all that apply)

- | | |
|---|--|
| <input checked="" type="checkbox"/> Groundwater monitoring data from monitoring wells | <input type="checkbox"/> Gas monitoring data |
| <input type="checkbox"/> Groundwater monitoring data from private water supply wells | <input type="checkbox"/> Air monitoring data |
| <input type="checkbox"/> Leachate monitoring data | <input type="checkbox"/> Other (specify) _____ |

Notification attached?

- No. No groundwater standards or explosive gas limits were exceeded.
- Yes, a notification of values exceeding a groundwater standard is attached. It includes a list of monitoring points, dates, sample values, groundwater standard and preliminary analysis of the cause and significance of any concentration.
- Yes, a notification of values exceeding an explosive gas limit is attached. It includes the monitoring points, dates, sample values and explosive gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards.

Joel Janssen

Project Manager

(608) 438-1110

Facility Representative Name (Print)

Title

(Area Code) Telephone No.

Signature

Date

FOR DNR USE ONLY. Check action taken, and record date and your initials. Describe on back side if necessary.

Found uploading problems on _____ Initials _____

Notified contact of problems on _____ Uploaded data successfully on _____

EDD format(s): Diskette CD (initial submittal and follow-up) E-mail (follow-up only) Other

Case Narrative
Groundwater Monitoring
License Number 3487
Nitroglycerine Pond/Rocket Paste Area
June 2024
Badger Army Ammunition Plant

Groundwater is currently being monitored by the facility because of past production activities. Twenty-one monitoring wells were sampled to assist with determining the degree and lateral extent of dinitrotoluene (DNT) in the Central Plume.

Total DNT exceeded the Enforcement Standard (ES) in RIN-2301B (550).

2,4-DNT and total DNT exceeded the Preventive Action Limit (PAL) in RIM-1003 (491), RIN-1002C (493), NPM-8901 (506), RPM-8901 (507), and RIN-2301A (549).

DNT analysis was performed by CT Laboratories using method SW 8270D SIM. The following DNT isomers were reported: 2,3-DNT, 2,4-DNT, 2,5-DNT, 2,6-DNT, 3,4-DNT, and 3,5-DNT.

Badger Army Ammunition Plant

SpecPro Professional Services, LLC

GROUNDWATER MONITORING EXCEEDANCE REPORT

June 2024

Report Date: 8/15/2024

Parameter Name	Lic No.	Well No.	Well Name	Date	Dup	Result	Units	PAL	ES
2,4-Dinitrotoluene	3487	491	RIM-1003	6/10/2024	1	0.017	ug/l	0.005	0.05
Total Dinitrotoluenes	3487	491	RIM-1003	6/10/2024	1	0.017	ug/l	0.005	0.05
2,4-Dinitrotoluene	3487	493	RIN-1002C	6/11/2024	1	0.011	ug/l	0.005	0.05
Total Dinitrotoluenes	3487	493	RIN-1002C	6/11/2024	1	0.011	ug/l	0.005	0.05
2,4-Dinitrotoluene	3487	506	NPM-8901	6/10/2024	1	0.014	ug/l	0.005	0.05
Total Dinitrotoluenes	3487	506	NPM-8901	6/10/2024	1	0.014	ug/l	0.005	0.05
2,4-Dinitrotoluene	3487	507	RPM-8901	6/10/2024	1	0.023	ug/l	0.005	0.05
Total Dinitrotoluenes	3487	507	RPM-8901	6/10/2024	1	0.023	ug/l	0.005	0.05
2,4-Dinitrotoluene	3487	549	RIN-2301A	6/10/2024	1	0.017	ug/l	0.005	0.05
Total Dinitrotoluenes	3487	549	RIN-2301A	6/10/2024	1	0.042	ug/l	0.005	0.05
Total Dinitrotoluenes	3487	550	RIN-2301B	6/10/2024	1	0.058	ug/l	0.005	0.05

Badger Army Ammunition Plant

SpecPro Professional Services, LLC

June 2024

GROUNDWATER MONITORING ALL HITS REPORT

License No: 3487

Report Date: 8/15/2024

Parameter Name	Well	Well Name	Date	Dup	Result	LOD	LOQ	Units	PAL	ES
2,4-Dinitrotoluene	491	RIM-1003	6/10/2024	1	0.017	0.0077	0.048	ug/l	0.005	0.05
Total Dinitrotoluenes	491	RIM-1003	6/10/2024	1	0.017	0.0077	0.048	ug/l	0.005	0.05
2,4-Dinitrotoluene	493	RIN-1002C	6/11/2024	1	0.011	0.0078	0.049	ug/l	0.005	0.05
Total Dinitrotoluenes	493	RIN-1002C	6/11/2024	1	0.011	0.0078	0.049	ug/l	0.005	0.05
2,4-Dinitrotoluene	506	NPM-8901	6/10/2024	1	0.014	0.0077	0.048	ug/l	0.005	0.05
Total Dinitrotoluenes	506	NPM-8901	6/10/2024	1	0.014	0.0077	0.048	ug/l	0.005	0.05
2,4-Dinitrotoluene	507	RPM-8901	6/10/2024	1	0.023	0.0078	0.049	ug/l	0.005	0.05
Total Dinitrotoluenes	507	RPM-8901	6/10/2024	1	0.023	0.0078	0.049	ug/l	0.005	0.05
2,4-Dinitrotoluene	549	RIN-2301A	6/10/2024	1	0.017	0.0078	0.049	ug/l	0.005	0.05
3,4-Dinitrotoluene	549	RIN-2301A	6/10/2024	1	0.025	0.0049	0.049	ug/l		
Total Dinitrotoluenes	549	RIN-2301A	6/10/2024	1	0.042	0.0078	0.049	ug/l	0.005	0.05
2,3-Dinitrotoluene	550	RIN-2301B	6/10/2024	1	0.023	0.0058	0.048	ug/l		
3,4-Dinitrotoluene	550	RIN-2301B	6/10/2024	1	0.035	0.0048	0.048	ug/l		
Total Dinitrotoluenes	550	RIN-2301B	6/10/2024	1	0.058	0.0077	0.048	ug/l	0.005	0.05

Notice: Personally identifiable information collected will be used for program administration and enforcement purposes. The Department may also provide this information to requesters as required under Wisconsin's Open Records law, ss. 19.31 to 19.39, Wis. Stats. When submitting monitoring data, the owner or operator of the facility, practice or activity is required to notify the Department in writing that a groundwater standard or an explosive gas level has been attained or exceeded, as specified in ss. NR 140.24(1)(a); NR 140.26(1)(a); NR 507.30NR 635.14(9)(a); NR 635.18(20) and NR 507.30, Wis. Adm. Code. Failure to report may result in fines, forfeitures or other penalties resulting from enforcement under ss. 289.97, 291.97 or 299.95, Wis. Stats.

Instructions:

- **Prepare one form for each license or monitoring ID.**
- **Please type or print legibly.**
- Attach a notification of any values that attain or exceed groundwater standards (that is, preventive action limits, enforcement standards or alternative concentration limits). The notification must include a preliminary analysis of the cause and significance of each value.
- Attach a notification of any gas values that attain or exceed explosive gas levels.
- Send the original signed form, any notification, and Electronic Data Deliverable [EDD] to: GEMS Data Submittal Contact - WA/5
Bureau of Waste Management
Wisconsin Department of Natural Resources
101 South Webster Street
Madison WI 53707-7921

Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

SpecPro Professional Services - Badger Army Ammunition Plant

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Joel Janssen

Phone: (608) 438-1110

E-mail: Joel.Janssen@SpecProSvc.com

Facility name:	License # / Monitoring ID	Facility ID [FID]	Actual sampling dates (e.g., July 2-6, 2003)
BAAP - Off-Site Residential Wells	03497	157005530	6/12 - 6/13/24

The enclosed results are for sampling required in the month(s) of: (e.g., June 2003)

June 2024

Type of Data Submitted (Check all that apply)

- | | |
|---|--|
| <input type="checkbox"/> Groundwater monitoring data from monitoring wells | <input type="checkbox"/> Gas monitoring data |
| <input checked="" type="checkbox"/> Groundwater monitoring data from private water supply wells | <input type="checkbox"/> Air monitoring data |
| <input type="checkbox"/> Leachate monitoring data | <input type="checkbox"/> Other (specify) _____ |

Notification attached?

- No. No groundwater standards or explosive gas limits were exceeded.
- Yes, a notification of values exceeding a groundwater standard is attached. It includes a list of monitoring points, dates, sample values, groundwater standard and preliminary analysis of the cause and significance of any concentration.
- Yes, a notification of values exceeding an explosive gas limit is attached. It includes the monitoring points, dates, sample values and explosive gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards.

Joel Janssen

Project Manager

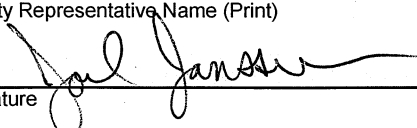
(608) 438-1110

Facility Representative Name (Print)

Title

(Area Code) Telephone No.

Signature



Date

8/15/24

FOR DNR USE ONLY. Check action taken, and record date and your initials. Describe on back side if necessary.

- Found uploading problems on _____ Initials _____
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EDD format(s): Diskette CD (initial submittal and follow-up) E-mail (follow-up only) Other

Case Narrative
Groundwater Monitoring
License Number 3497
Off-Site Residential Wells
June 2024
Badger Army Ammunition Plant

Groundwater is currently being monitored by the facility because of past production activities. One residential well located in the Central Plume and two residential wells located east of the Deterrent Burning Ground Plume were sampled during this round.

No compounds were detected above the Preventive Action Limit (PAL) in either WE-XK342 (435), E12375A (803) or S7655 (916).

Volatile organic compounds (VOCs) analysis was performed by CT Laboratories (CT Lab) using method EPA 8260C.

DNT analysis was also performed by CT Lab using method SW 8270D SIM. The following DNT isomers were reported: 2,3-DNT, 2,4-DNT, 2,5-DNT, 2,6-DNT, 3,4-DNT, and 3,5-DNT.

Badger Army Ammunition Plant

SpecPro Professional Services, LLC

June 2024

GROUNDWATER MONITORING ALL HITS REPORT

License No: 3497

Report Date: 8/15/2024

Parameter Name	Well	Well Name	Date	Dup	Result	LOD	LOQ	Units	PAL	ES
Chloroform	435	WE-XK342	6/13/2024	2	0.12	0.1	0.2	ug/l	0.6	6
Chloroform	435	WE-XK342	6/13/2024	1	0.12	0.1	0.2	ug/l	0.6	6

Notice: Personally identifiable information collected will be used for program administration and enforcement purposes. The Department may also provide this information to requesters as required under Wisconsin's Open Records law, ss. 19.31 to 19.39, Wis. Stats. When submitting monitoring data, the owner or operator of the facility, practice or activity is required to notify the Department in writing that a groundwater standard or an explosive gas level has been attained or exceeded, as specified in ss. NR 140.24(1)(a); NR 140.26(1)(a); NR 507.30NR 635.14(9)(a); NR 635.18(20) and NR 507.30, Wis. Adm. Code. Failure to report may result in fines, forfeitures or other penalties resulting from enforcement under ss. 289.97, 291.97 or 299.95, Wis. Stats.

Instructions:

- **Prepare one form for each license or monitoring ID.**
- **Please type or print legibly.**
- Attach a notification of any values that attain or exceed groundwater standards (that is, preventive action limits, enforcement standards or alternative concentration limits). The notification must include a preliminary analysis of the cause and significance of each value.
- Attach a notification of any gas values that attain or exceed explosive gas levels.
- Send the original signed form, any notification, and Electronic Data Deliverable [EDD] to: GEMS Data Submittal Contact - WA/5
Bureau of Waste Management
Wisconsin Department of Natural Resources
101 South Webster Street
Madison WI 53707-7921

Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

SpecPro Professional Services - Badger Army Ammunition Plant

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Joel Janssen Phone: (608) 438-1110

E-mail: Joel.Janssen@SpecProSvc.com

Facility name:	License # / Monitoring ID	Facility ID [FID]	Actual sampling dates (e.g., July 2-6, 2003)
BAAP - Demolition Landfill Expansion	03646	157053930	6/10/24

The enclosed results are for sampling required in the month(s) of: (e.g., June 2003)

June 2024

Type of Data Submitted (Check all that apply)

- | | |
|---|--|
| <input checked="" type="checkbox"/> Groundwater monitoring data from monitoring wells | <input type="checkbox"/> Gas monitoring data |
| <input type="checkbox"/> Groundwater monitoring data from private water supply wells | <input type="checkbox"/> Air monitoring data |
| <input type="checkbox"/> Leachate monitoring data | <input type="checkbox"/> Other (specify) _____ |

Notification attached?

- No. No groundwater standards or explosive gas limits were exceeded.
- Yes, a notification of values exceeding a groundwater standard is attached. It includes a list of monitoring points, dates, sample values, groundwater standard and preliminary analysis of the cause and significance of any concentration.
- Yes, a notification of values exceeding an explosive gas limit is attached. It includes the monitoring points, dates, sample values and explosive gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards.

Joel Janssen Project Manager (608) 438-1110
Facility Representative Name (Print) Title (Area Code) Telephone No.

Signature Joel Janssen Date 8/15/24

FOR DNR USE ONLY. Check action taken, and record date and your initials. Describe on back side if necessary.

Found uploading problems on _____ Initials _____

Notified contact of problems on _____ Uploaded data successfully on _____

EDD format(s): Diskette CD (initial submittal and follow-up) E-mail (follow-up only) Other _____

Case Narrative
Groundwater Monitoring
License Number 3646
Demolition Landfill Expansion
June 2024
Badger Army Ammunition Plant

Groundwater is currently being monitored by the facility because of past production activities. Three monitoring wells were sampled to assist with determining the degree and lateral extent of dinitrotoluene (DNT) in the Central Plume.

Total DNT exceeded the Enforcement Standard (ES) in NLN-1001A (331) and NLN-1001C (332).

2,4-DNT exceeded the Preventive Action Limit (PAL) in NLN-1001A (331) and NLN-1001C (332).

DNT analysis was performed by CT Laboratories using method SW 8270D SIM. The following DNT isomers were reported: 2,3-DNT, 2,4-DNT, 2,5-DNT, 2,6-DNT, 3,4-DNT, and 3,5-DNT.

Badger Army Ammunition Plant

SpecPro Professional Services, LLC

GROUNDWATER MONITORING EXCEEDANCE REPORT

June 2024

Report Date: 8/15/2024

Parameter Name	Lic No.	Well No.	Well Name	Date	Dup	Result	Units	PAL	ES
2,4-Dinitrotoluene	3646	331	NLN-1001A	6/10/2024	1	0.028	ug/l	0.005	0.05
2,4-Dinitrotoluene	3646	331	NLN-1001A	6/10/2024	2	0.023	ug/l	0.005	0.05
Total Dinitrotoluenes	3646	331	NLN-1001A	6/10/2024	1	0.083	ug/l	0.005	0.05
Total Dinitrotoluenes	3646	331	NLN-1001A	6/10/2024	2	0.074	ug/l	0.005	0.05
2,4-Dinitrotoluene	3646	332	NLN-1001C	6/10/2024	1	0.032	ug/l	0.005	0.05
Total Dinitrotoluenes	3646	332	NLN-1001C	6/10/2024	1	0.153	ug/l	0.005	0.05

Badger Army Ammunition Plant

SpecPro Professional Services, LLC

June 2024

GROUNDWATER MONITORING ALL HITS REPORT

License No: 3646

Report Date: 8/15/2024

Parameter Name	Well	Well Name	Date	Dup	Result	LOD	LOQ	Units	PAL	ES
2,3-Dinitrotoluene	331	NLN-1001A	6/10/2024	2	0.017	0.0057	0.048	ug/l		
2,3-Dinitrotoluene	331	NLN-1001A	6/10/2024	1	0.018	0.0057	0.048	ug/l		
2,4-Dinitrotoluene	331	NLN-1001A	6/10/2024	2	0.023	0.0076	0.048	ug/l	0.005	0.05
2,4-Dinitrotoluene	331	NLN-1001A	6/10/2024	1	0.028	0.0076	0.048	ug/l	0.005	0.05
3,4-Dinitrotoluene	331	NLN-1001A	6/10/2024	1	0.037	0.0048	0.048	ug/l		
3,4-Dinitrotoluene	331	NLN-1001A	6/10/2024	2	0.034	0.0048	0.048	ug/l		
Total Dinitrotoluenes	331	NLN-1001A	6/10/2024	2	0.074	0.0076	0.048	ug/l	0.005	0.05
Total Dinitrotoluenes	331	NLN-1001A	6/10/2024	1	0.083	0.0076	0.048	ug/l	0.005	0.05
2,3-Dinitrotoluene	332	NLN-1001C	6/10/2024	1	0.044	0.0058	0.049	ug/l		
2,4-Dinitrotoluene	332	NLN-1001C	6/10/2024	1	0.032	0.0078	0.049	ug/l	0.005	0.05
3,4-Dinitrotoluene	332	NLN-1001C	6/10/2024	1	0.077	0.0049	0.049	ug/l		
Total Dinitrotoluenes	332	NLN-1001C	6/10/2024	1	0.153	0.0078	0.049	ug/l	0.005	0.05

Notice: Personally identifiable information collected will be used for program administration and enforcement purposes. The Department may also provide this information to requesters as required under Wisconsin's Open Records law, ss. 19.31 to 19.39, Wis. Stats. When submitting monitoring data, the owner or operator of the facility, practice or activity is required to notify the Department in writing that a groundwater standard or an explosive gas level has been attained or exceeded, as specified in ss. NR 140.24(1)(a); NR 140.26(1)(a); NR 507.30NR 635.14(9)(a); NR 635.18(20) and NR 507.30, Wis. Adm. Code. Failure to report may result in fines, forfeitures or other penalties resulting from enforcement under ss. 289.97, 291.97 or 299.95, Wis. Stats.

Instructions:

- Prepare one form for each license or monitoring ID.
- Please type or print legibly.
- Attach a notification of any values that attain or exceed groundwater standards (that is, preventive action limits, enforcement standards or alternative concentration limits). The notification must include a preliminary analysis of the cause and significance of each value.
- Attach a notification of any gas values that attain or exceed explosive gas levels.
- Send the original signed form, any notification, and Electronic Data Deliverable [EDD] to:

GEMS Data Submittal Contact - WA/5
Bureau of Waste Management
Wisconsin Department of Natural Resources
101 South Webster Street
Madison WI 53707-7921

Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

SpecPro Professional Services - Badger Army Ammunition Plant

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Joel Janssen

Phone: (608) 438-1110

E-mail: Joel.Janssen@SpecProSvcS.com

Facility name:	License # / Monitoring ID	Facility ID [FID]	Actual sampling dates (e.g., July 2-6, 2003)
BAAP - Southeast Area	04330	157005530	6/13/24

The enclosed results are for sampling required in the month(s) of: (e.g., June 2003)

June 2024

Type of Data Submitted (Check all that apply)

- | | |
|---|--|
| <input checked="" type="checkbox"/> Groundwater monitoring data from monitoring wells | <input type="checkbox"/> Gas monitoring data |
| <input type="checkbox"/> Groundwater monitoring data from private water supply wells | <input type="checkbox"/> Air monitoring data |
| <input type="checkbox"/> Leachate monitoring data | <input type="checkbox"/> Other (specify) _____ |

Notification attached?

- No. No groundwater standards or explosive gas limits were exceeded.
- Yes, a notification of values exceeding a groundwater standard is attached. It includes a list of monitoring points, dates, sample values, groundwater standard and preliminary analysis of the cause and significance of any concentration.
- Yes, a notification of values exceeding an explosive gas limit is attached. It includes the monitoring points, dates, sample values and explosive gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards.

Joel Janssen

Project Manager

(608) 438-1110

Facility Representative Name (Print)

Title

(Area Code) Telephone No.

Signature

Date

8/15/24

FOR DNR USE ONLY. Check action taken, and record date and your initials. Describe on back side if necessary.

Found uploading problems on _____ Initials _____

Notified contact of problems on _____ Uploaded data successfully on _____

EDD format(s): Diskette CD (initial submittal and follow-up) E-mail (follow-up only) Other _____

Case Narrative
Groundwater Monitoring
License Number 4330
Southeast Area
June 2024
Badger Army Ammunition Plant

Groundwater is currently being monitored by the facility because of past production activities. Eight monitoring wells were sampled to assist with determining the degree and lateral extent of dinitrotoluene (DNT) in the Central Plume.

DNT was not detected in all eight monitoring wells.

Chloroform exceeded the Preventive Action Limit in SEN-0502D (584) and SEN-0503D (587).

Volatile organic compounds (VOCs) analysis was performed by CT Laboratories (CT Lab) using method SW 846 8260C.

DNT analysis was performed by CT Lab using method SW 8270D SIM. The following DNT isomers were reported: 2,3-DNT, 2,4-DNT, 2,5-DNT, 2,6-DNT, 3,4-DNT, and 3,5-DNT.

Badger Army Ammunition Plant

SpecPro Professional Services, LLC

GROUNDWATER MONITORING EXCEEDANCE REPORT

June 2024

Report Date: 8/15/2024

Parameter Name	Lic No.	Well No.	Well Name	Date	Dup	Result	Units	PAL	ES
Chloroform	4330	584	SEN-0502D	6/13/2024	1	1.2	ug/l	0.6	6
Chloroform	4330	587	SEN-0503D	6/13/2024	1	1.3	ug/l	0.6	6

Badger Army Ammunition Plant

SpecPro Professional Services, LLC

June 2024

GROUNDWATER MONITORING ALL HITS REPORT

License No: 4330

Report Date: 8/15/2024

Parameter Name	Well	Well Name	Date	Dup	Result	LOD	LOQ	Units	PAL	ES
Chloroform	582	SEN-0501D	6/13/2024	1	0.57	0.1	0.2	ug/l	0.6	6
Chloroform	584	SEN-0502D	6/13/2024	1	1.2	0.1	0.2	ug/l	0.6	6
Chloroform	586	SEN-0503B	6/13/2024	1	0.17	0.1	0.2	ug/l	0.6	6
Carbon tetrachloride	587	SEN-0503D	6/13/2024	1	0.1	0.1	0.2	ug/l	0.5	5
Chloroform	587	SEN-0503D	6/13/2024	1	1.3	0.1	0.2	ug/l	0.6	6