

September 2023

Monitoring Well Groundwater Data Attachments

Badger Army Ammunition Plant

Deterrent Burning Ground Plume

Nitrocellulose Production Area Plume

Propellant Burning Ground Plume

List of Attachments

Figure 1 September 2023 Sampled Wells

Figure 2 Total DNT September 2023 DBG Plume

Figure 3 Total DNT September 2023 NC Plume

Figure 4 Total DNT September 2023 PBG Plume

Table 1 DNT Summary Table DBG Plume

Table 2 DNT Summary Table PBG Plume

Graph of Total DNT vs Groundwater Elevation in PBN-8202A

September 2023 Sampled Wells List

Environmental Monitoring Data Certification Forms per License Area

Groundwater Monitoring Exceedance & Hits Reports per License Area

Badger Army Ammunition Plant

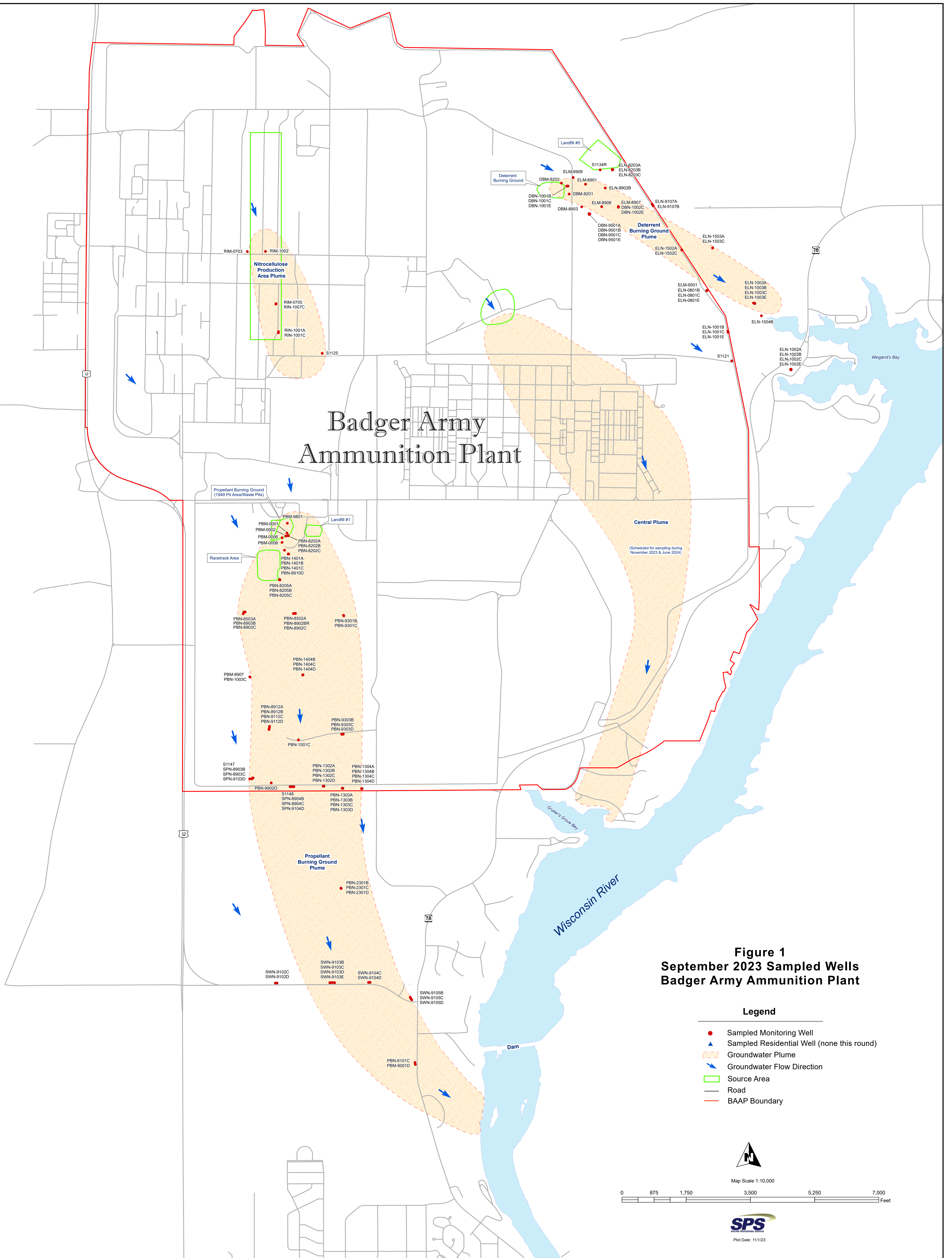
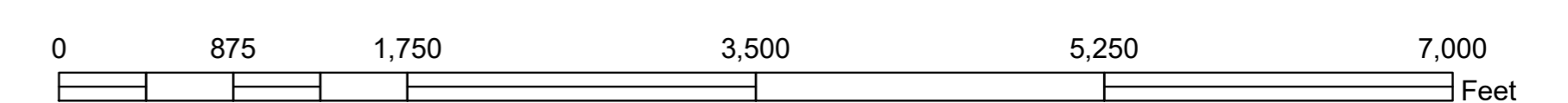
Figure 1
September 2023 Sampled Wells
Badger Army Ammunition Plant

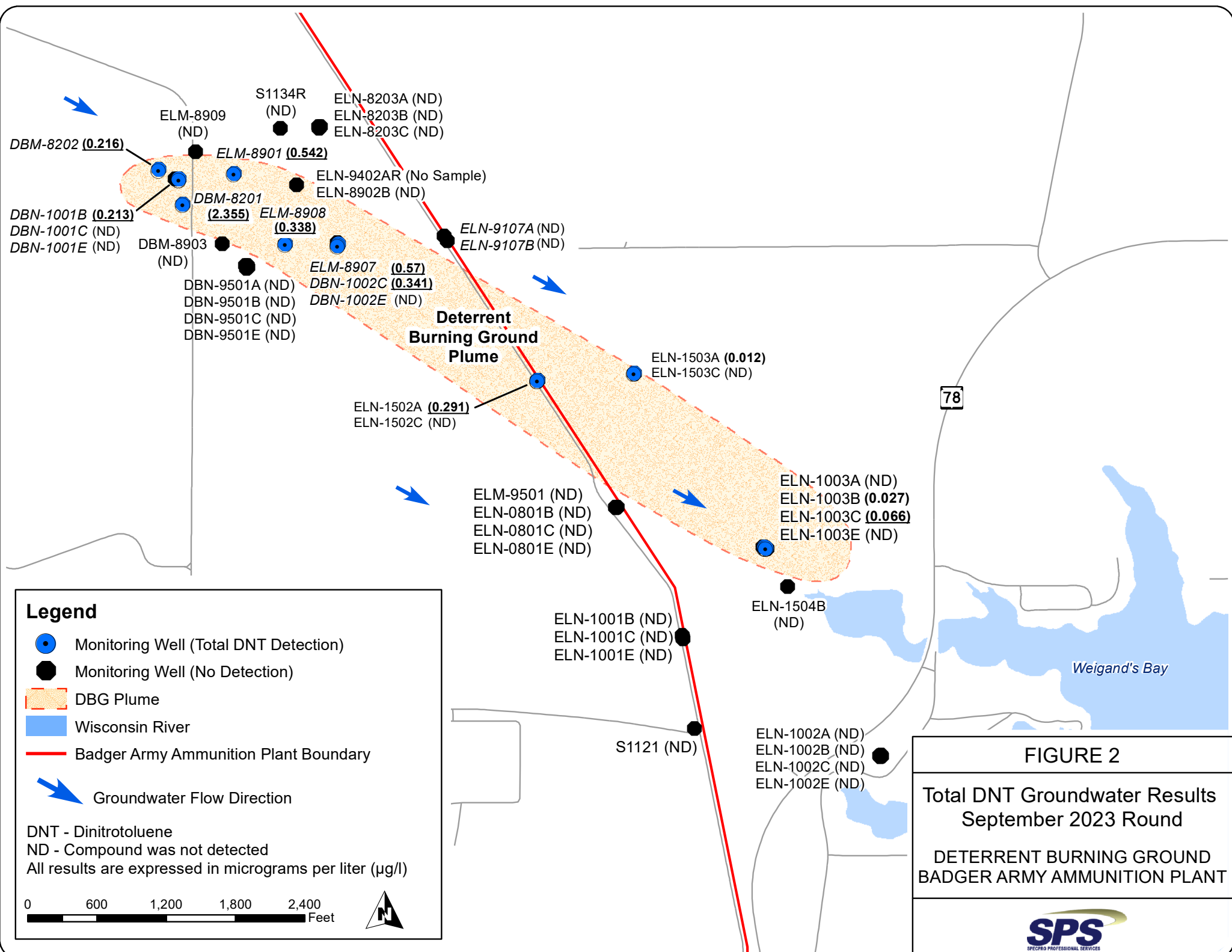
Legend

- Sampled Monitoring Well
- ▲ Sampled Residential Well (none this round)
- Groundwater Plume
- Groundwater Flow Direction
- Source Area
- Road
- BAAP Boundary



Map Scale 1:10,000





Legend

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

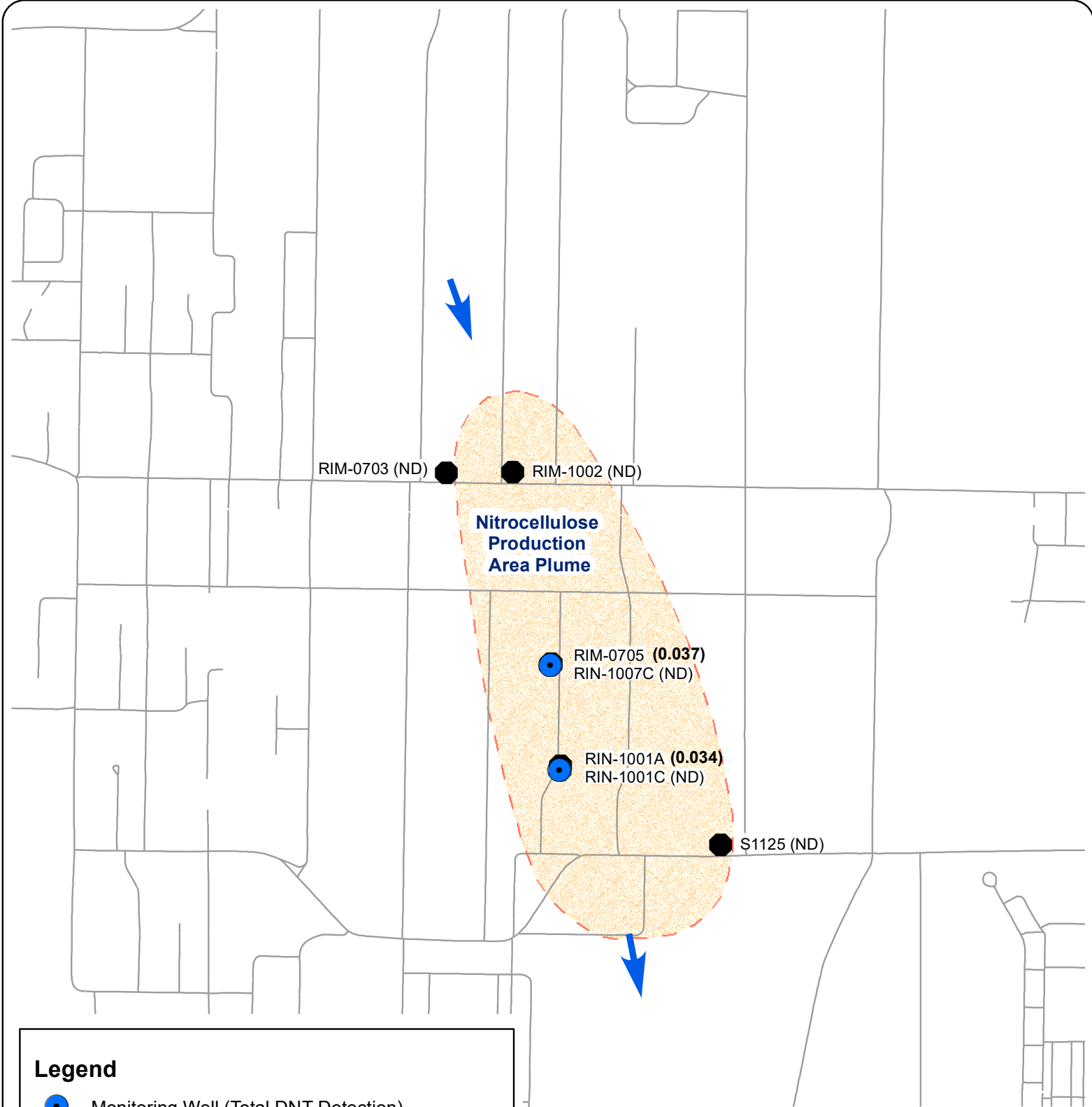
DNT - Dinitrotoluene
 ND - Compound was not detected
 All results are expressed in micrograms per liter (µg/l)

0 600 1,200 1,800 2,400 Feet

FIGURE 2

**Total DNT Groundwater Results
 September 2023 Round**

**DETERRENT BURNING GROUND
 BADGER ARMY AMMUNITION PLANT**



Legend

- Monitoring Well (Total DNT Detection)
- Monitoring Well (No Detection)
- NC Plume
- Groundwater Flow Direction

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

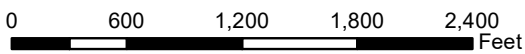


FIGURE 3

**Total DNT Groundwater Results
 September 2023 Round**

**NITROCELLULOSE PRODUCTION AREA
 BADGER ARMY AMMUNITION PLANT**



Legend

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

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

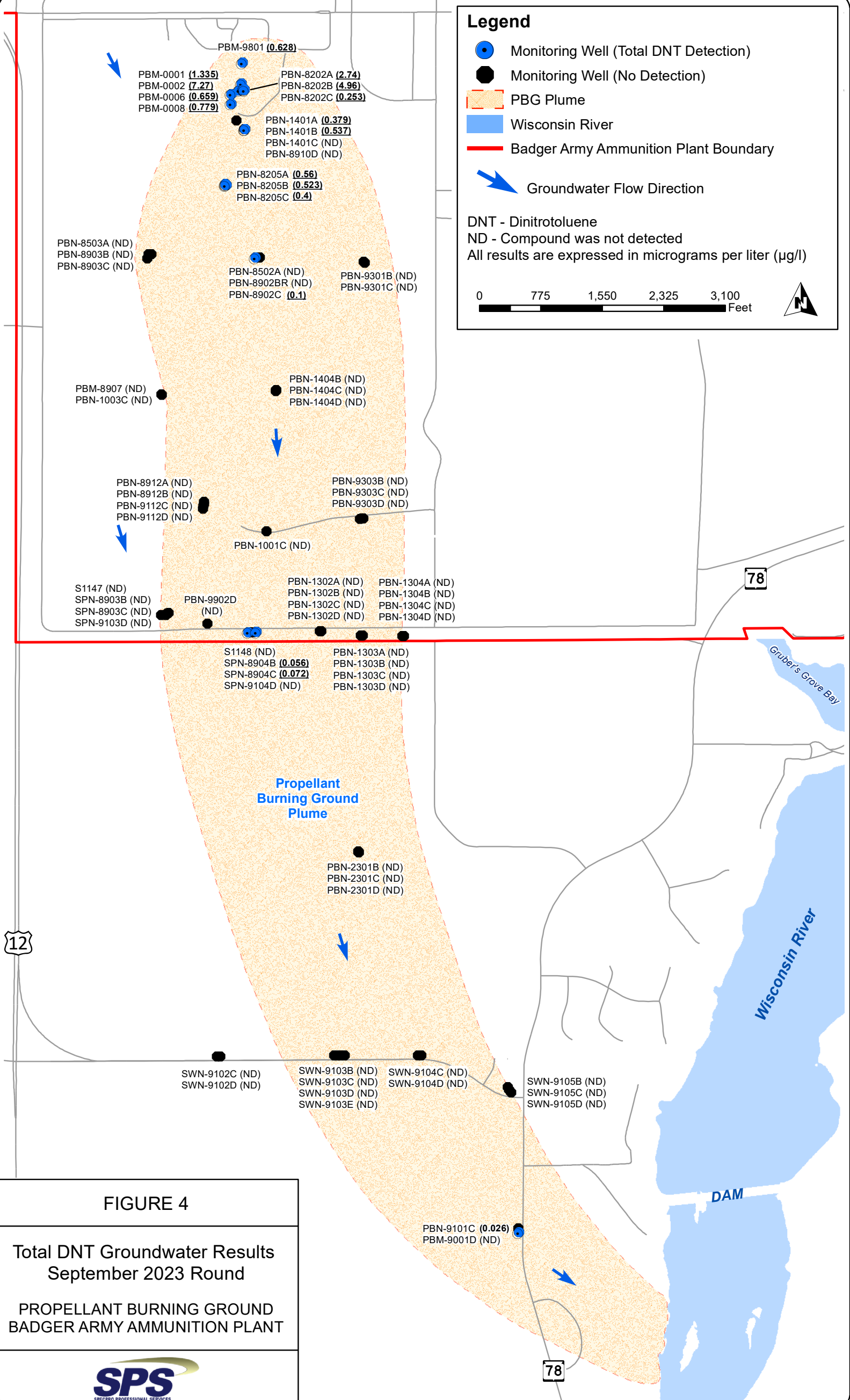
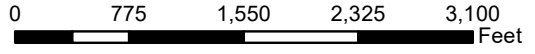


FIGURE 4

**Total DNT Groundwater Results
 September 2023 Round**

**PROPELLANT BURNING GROUND
 BADGER ARMY AMMUNITION PLANT**



78

Table 1
2016 - 2023 Summary
Dinitrotoluene Groundwater Results
Deterrent 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 | 0.072 | 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) | | | | | |

Table 1
2016 - 2023 Summary
Dinitrotoluene Groundwater Results
Deterrent 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 | | | | | |

Table 1
2016 - 2023 Summary
Dinitrotoluene Groundwater Results
Deterrent 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> | | | | | |

Table 1
2016 - 2023 Summary
Dinitrotoluene Groundwater Results
Deterrent Burning Ground
Badger Army Ammunition Plant

| Plume | Well Name | Well ID | License | Sample Level | Date | Dinitrotoluenes | | | | | | |
|--------------------|-----------|---------|---------|--------------|-------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------------|
| | | | | | | 2,3-Dinitrotoluene | 2,4-Dinitrotoluene | 2,5-Dinitrotoluene | 2,6-Dinitrotoluene | 3,4-Dinitrotoluene | 3,5-Dinitrotoluene | Dinitrotoluene, Total |
| 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> |
| 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 - Deterrent 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)

Table 2
2017 - 2023 Summary
Dinitrotoluene Groundwater Results
Propellant Burning Ground
Badger Army Ammunition Plant

| Plume | Well Name | Well ID | License | Sample Level | Date | Dinitrotoluenes | | | | | | |
|---------|-----------|-------------|---------|--------------|-------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-----------------------|
| | | | | | | 2,3-Dinitrotoluene | 2,4-Dinitrotoluene | 2,5-Dinitrotoluene | 2,6-Dinitrotoluene | 3,4-Dinitrotoluene | 3,5-Dinitrotoluene | Dinitrotoluene, Total |
| PBG | PBM-9801 | 360 | 2814 | A | 9/20/17 | 0.18 | <u>0.11</u> | <0.0031 | <u>0.2</u> | 0.058 | <0.0041 | <u>0.548</u> |
| | | | | | 9/17/18 | 0.48 | <u>2</u> | 0.028 | <u>0.81</u> | 0.19 | 0.074 | <u>3.582</u> |
| | | | | | 9/25/19 | 0.31 | <u>5.7</u> | 0.039 | <u>0.61</u> | 0.13 | 0.07 | <u>6.859</u> |
| | | | | | 9/1/20 | 0.37 | <u>110</u> | <0.0032 | <u>2.1</u> | 0.18 | <0.0042 | <u>112.65</u> |
| | | | | | 9/21/21 | 0.45 | <u>64</u> | 0.044 (J) | <u>2.2</u> | 0.2 | 0.081 | <u>66.975</u> |
| | | | | | 5/4/22 | 0.44 | <u>0.26</u> | 0.055 | <u>0.28</u> | 0.19 | 0.078 | <u>1.303</u> |
| | | | | | 9/21/22 | 0.41 | <u>0.16</u> | 0.031 (J) | <u>0.11</u> | 0.18 | 0.059 | <u>0.95</u> |
| | | | | | 4/26/23 | 0.34 | <u>0.12</u> | 0.057 | <u>0.1</u> | 0.17 | 0.07 | <u>0.857</u> |
| | | | | | 9/20/23 | 0.31 | <u>0.08</u> | <0.005 | <u>0.08</u> | 0.12 | 0.038 (J) | <u>0.628</u> |
| PBG | PBN-8202A | 613 | 2814 | A | 9/20/17 | 0.91 | <u>0.059</u> | 0.02 (J) | <u>0.07</u> | 0.27 | 0.14 | <u>1.469</u> |
| | | | | | 9/20/17 (D) | 0.83 | <u>0.056</u> | 0.019 (J) | <u>0.066</u> | 0.25 | 0.12 | <u>1.341</u> |
| | | | | | 4/23/18 | 45 | <u>2.1</u> | 0.14 | <u>27</u> | 17 | 2.1 | <u>93.34</u> |
| | | | | | 4/23/18 (D) | 48 | <u>2.2</u> | 0.15 | <u>24</u> | 18 | 2.3 | <u>94.65</u> |
| | | | | | 5/14/18 | 78 | <u>33</u> | 0.094 | <u>270</u> | 35 | 4.2 | <u>420.294</u> |
| | | | | | 9/17/18 | 70 | <u>6.3</u> | 0.12 | <u>2</u> | 32 | 6 | <u>116.42</u> |
| | | | | | 9/17/18 (D) | 62 | <u>5.1</u> | 0.12 | <u>4.4</u> | 27 | 4.7 | <u>103.32</u> |
| | | | | | 4/8/19 | 20 | <u>0.26</u> | 0.12 | <u>0.31</u> | 4.6 | 5.2 | <u>30.49</u> |
| | | | | | 9/25/19 | 75 | <u>9.1</u> | 0.14 | <u>110</u> | 15 | 6.5 | <u>215.74</u> |
| | | | | | 1/14/20 | 49 | <u>30</u> | <0.14 | <u>79</u> | 13 | 4.9 | <u>175.9</u> |
| | | | | | 1/14/20 (D) | 49 | <u>39</u> | <0.14 | <u>88</u> | 15 | 5 | <u>196</u> |
| | | | | | 4/30/20 | 72 | <u>670</u> | <0.15 | <u>500</u> | 35 | 9.9 | <u>1,286.9</u> |
| | | | | | 6/8/20 | 17 | <u>0.35</u> | 0.1 | <u>17</u> | 7.9 | 1.9 | <u>44.25</u> |
| | | | | | 6/8/20 (D) | 18 | <u>0.4</u> | 0.12 | <u>15</u> | 8.1 | 2.6 | <u>44.22</u> |
| | | | | | 9/1/20 | 9.1 | <u>0.3</u> | 0.078 | <u>0.14</u> | 3.3 | 1.2 | <u>14.118</u> |
| | | | | | 4/7/21 | 14 | <u>0.24</u> | 0.065 | <u>0.17</u> | 2.1 | 1 | <u>17.575</u> |
| | | | | | 9/21/21 | 21 | <u>0.38</u> | 0.082 | <u>0.22</u> | 1.8 | 1.4 | <u>24.882</u> |
| | | | | | 9/21/21 (D) | 19 | <u>0.37</u> | 0.081 | <u>0.22</u> | 1.7 | 1.4 | <u>22.771</u> |
| | | | | | 5/4/22 | 36 | <u>2.3</u> | 0.051 | <u>0.2</u> | 12 | 3.4 | <u>53.951</u> |
| | | | | | 9/21/22 | 13 | <u>0.27</u> | 0.032 (J) | <u>0.17</u> | 1.6 | 1.3 | <u>16.372</u> |
| 4/26/23 | 0.38 | <u>0.11</u> | 0.06 | <u>0.085</u> | 0.4 | 0.093 | <u>1.128</u> | | | | | |
| 9/20/23 | 1.9 | <u>0.11</u> | <0.0048 | <u>0.11</u> | 0.3 | 0.32 | <u>2.74</u> | | | | | |

Table 2
2017 - 2023 Summary
Dinitrotoluene Groundwater Results
Propellant 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 | |
| PBG | PBN-8202B | 614 | 2814 | B | 9/20/17 | 0.54 | <u>0.055</u> | <0.0031 | <u>0.049</u> | 0.15 | 0.087 | <u>0.881</u> |
| | | | | | 4/23/18 | 0.99 | <0.0081 | <0.003 | <u>0.12</u> | 0.36 | 0.13 | <u>1.6</u> |
| | | | | | 9/17/18 | 9.2 | <u>0.26</u> | 0.054 | <u>0.038</u> | 4.6 | 0.46 | <u>14.612</u> |
| | | | | | 4/8/19 | 39 | <u>0.63</u> | 0.13 | <u>0.54</u> | 36 | 8.8 | <u>85.1</u> |
| | | | | | 9/25/19 | 16 | <u>0.18</u> | 0.12 | <u>0.26</u> | 6.3 | 1.6 | <u>24.46</u> |
| | | | | | 1/14/20 | 9.9 | <u>0.44</u> | <0.029 | <u>0.25</u> | 2.8 | 1 | <u>14.39</u> |
| | | | | | 4/30/20 | 11 | <u>0.35</u> | 0.091 | <u>0.21</u> | 1.7 | 1.2 | <u>14.551</u> |
| | | | | | 6/8/20 | 8.7 | <u>0.2</u> | 0.075 | <u>0.055</u> | 1.2 | 1.1 | <u>11.33</u> |
| | | | | | 9/1/20 | 7.3 | <u>0.22</u> | 0.4 | <u>0.058</u> | 0.71 | 0.88 | <u>9.208</u> |
| | | | | | 4/7/21 | 4.2 | <u>0.11</u> | 0.032 (J) | <u>0.086</u> | 0.2 | 0.53 | <u>5.158</u> |
| | | | | | 9/21/21 | 2.4 | <u>0.19</u> | 0.049 (J) | <u>0.13</u> | 0.13 | 0.28 | <u>3.179</u> |
| | | | | | 5/4/22 | 15 | <u>0.18</u> | 0.076 | <u>0.16</u> | 0.35 | 0.82 | <u>16.586</u> |
| | | | | | 9/21/22 | 24 | <u>0.18</u> | 0.063 | <u>0.19</u> | 0.8 | 1.1 | <u>26.333</u> |
| | | | | | 4/26/23 | 2.5 | <u>0.23</u> | 0.055 | <u>0.15</u> | 0.38 | 0.46 | <u>3.775</u> |
| 9/20/23 | 4.2 | <0.04 | <0.025 | <0.025 | 0.32 | 0.44 | <u>4.96</u> | | | | | |
| PBG | PBN-8202C | 615 | 2814 | C | 9/20/17 | 0.15 | <u>0.061</u> | <0.0031 | <u>0.078</u> | 0.055 | 0.033 | <u>0.377</u> |
| | | | | | 4/23/18 | 0.16 | <u>0.19</u> | 0.04 | <u>0.19</u> | 0.091 | 0.065 | <u>0.736</u> |
| | | | | | 9/17/18 | 0.2 | <u>0.19</u> | 0.036 | <u>0.16</u> | 0.11 | 0.075 | <u>0.77</u> |
| | | | | | 4/8/19 | 0.13 | <u>0.088</u> | 0.054 | <u>0.064</u> | 0.081 | 0.065 | <u>0.482</u> |
| | | | | | 9/25/19 | 0.19 | <u>0.16</u> | 0.082 | <u>0.078</u> | 0.12 | 0.095 | <u>0.725</u> |
| | | | | | 1/14/20 | 0.13 | <u>0.12</u> | 0.059 | <u>0.062</u> | 0.078 | 0.07 | <u>0.519</u> |
| | | | | | 4/30/20 | <0.0062 | <u>0.39</u> | 0.08 | <u>0.44</u> | 0.14 | 0.13 | <u>1.18</u> |
| | | | | | 6/8/20 | <0.0058 | <u>0.47</u> | 0.06 | <u>0.46</u> | 0.11 | 0.11 | <u>1.21</u> |
| | | | | | 9/1/20 | 0.17 | <u>0.29</u> | <0.0031 | <u>0.26</u> | 0.072 | 0.076 | <u>0.868</u> |
| | | | | | 4/7/21 | 0.091 | <u>0.16</u> | 0.038 (J) | <u>0.093</u> | 0.043 (J) | 0.057 | <u>0.482</u> |
| | | | | | 9/21/21 | 0.099 | <u>0.26</u> | 0.044 (J) | <u>0.094</u> | 0.053 | 0.063 | <u>0.613</u> |
| | | | | | 5/4/22 | 0.45 | <u>0.15</u> | 0.047 (J) | <u>0.1</u> | 0.072 | 0.094 | <u>0.913</u> |
| | | | | | 9/21/22 | 0.49 | <u>0.094</u> | 0.032 (J) | <u>0.074</u> | 0.045 (J) | 0.076 | <u>0.811</u> |
| | | | | | 4/26/23 | 8.2 | <u>0.2</u> | 0.075 | <u>0.095</u> | 1.2 | 1 | <u>10.77</u> |
| 9/20/23 | 0.11 | <u>0.034 (J)</u> | <0.0049 | <u>0.053</u> | 0.022 (J) | 0.034 (J) | <u>0.253</u> | | | | | |

**Table 2
2017 - 2023 Summary
Dinitrotoluene Groundwater Results
Propellant 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 | |
| PBG | PBM-0001 | 367 | 2814 | A | 9/20/17 | 0.41 | <u>0.059</u> | 0.015 | <u>0.059</u> | 0.11 | 0.048 | <u>0.701</u> |
| | | | | | 4/23/18 | 0.74 | <0.008 | <0.003 | <u>0.13</u> | 0.23 | 0.099 | <u>1.199</u> |
| | | | | | 9/17/18 | 8.7 | <u>0.24</u> | 0.07 | <u>0.19</u> | 3.1 | 0.68 | <u>12.98</u> |
| | | | | | 4/23/19 | 14 | <u>0.19</u> | 0.12 | <u>0.068</u> | 6.2 | 1.6 | <u>22.178</u> |
| | | | | | 9/25/19 | 2.9 | <u>0.15</u> | 0.085 | <u>0.12</u> | 1.3 | 0.39 | <u>4.945</u> |
| | | | | | 1/14/20 | 1 | <u>0.38</u> | 0.069 | <u>0.43</u> | 0.2 | 0.17 | <u>2.249</u> |
| | | | | | 4/30/20 | 8 | <u>0.25</u> | 0.18 | <u>0.22</u> | 1.5 | 0.9 | <u>11.05</u> |
| | | | | | 9/1/20 | 5.6 | <u>0.25</u> | 0.093 | <u>0.15</u> | 0.62 | 0.58 | <u>7.293</u> |
| | | | | | 4/7/21 | 8.5 | <u>0.13</u> | 0.058 | <u>0.1</u> | 0.4 | 0.58 | <u>9.768</u> |
| | | | | | 9/21/21 | 4.9 | <u>0.26</u> | 0.083 | <u>0.15</u> | 0.45 | 0.46 | <u>6.303</u> |
| | | | | | 5/4/22 | 2.6 | <u>0.2</u> | 0.088 | <u>0.24</u> | 0.28 | 0.28 | <u>3.688</u> |
| | | | | | 9/21/22 | 29 | <u>110</u> | 0.059 | <u>130</u> | 9.4 | 1.8 | <u>280.259</u> |
| | | | | | 4/26/23 | 7.6 | <u>0.24</u> | 0.068 | <u>0.13</u> | 0.86 | 1.1 | <u>9.998</u> |
| 9/20/23 | 0.98 | <u>0.066</u> | <0.0049 | <u>0.081</u> | 0.058 | 0.15 | <u>1.335</u> | | | | | |
| PBG | PBM-0006 | 372 | 2814 | A | 9/20/17 | 0.42 | <u>0.063</u> | 0.016 (J) | <u>0.046</u> | 0.27 | 0.068 | <u>0.883</u> |
| | | | | | 4/23/18 | 0.79 | 0.27 | 0.04 | <u>0.11</u> | 0.62 | 0.14 | <u>1.97</u> |
| | | | | | 9/17/18 | 0.73 | <u>0.27</u> | 0.031 | <u>0.11</u> | 0.57 | 0.13 | <u>1.841</u> |
| | | | | | 4/8/19 | 0.34 | <u>0.12</u> | 0.042 | <u>0.057</u> | 0.31 | 0.086 | <u>0.955</u> |
| | | | | | 9/25/19 | 0.58 | <u>0.16</u> | 0.048 | <u>0.12</u> | 0.53 | 0.12 | <u>1.588</u> |
| | | | | | 4/30/20 | 0.84 | <u>0.16</u> | 0.068 | <u>0.13</u> | 0.73 | 0.14 | <u>2.068</u> |
| | | | | | 9/1/20 | 0.63 | <u>0.13</u> | <0.0031 | <u>0.067</u> | 0.52 | 0.098 | <u>1.445</u> |
| | | | | | 4/7/21 | 0.72 | <u>0.12</u> | 0.034 (J) | <u>0.069</u> | 0.5 | 0.11 | <u>1.553</u> |
| | | | | | 4/7/21 (D) | 0.7 | <u>0.13</u> | 0.033 (J) | <u>0.065</u> | 0.48 | 0.11 | <u>1.518</u> |
| | | | | | 9/21/21 | 0.77 | <u>0.2</u> | 0.043 (J) | <u>0.088</u> | 0.55 | 0.11 | <u>1.761</u> |
| | | | | | 5/4/22 | 0.64 | <u>0.17</u> | 0.06 | <u>0.12</u> | 0.54 | 0.12 | <u>1.65</u> |
| | | | | | 5/4/2022 (D) | 0.64 | <u>0.18</u> | 0.059 | <u>0.12</u> | 0.52 | 0.12 | <u>1.639</u> |
| | | | | | 9/21/22 | 0.39 | <u>0.09</u> | 0.03 (J) | <u>0.082</u> | 0.36 | 0.074 | <u>1.026</u> |
| 4/26/23 | 7.8 | <u>0.21</u> | 0.14 | <u>0.098</u> | 0.16 | 0.55 | <u>10.398</u> | | | | | |
| 9/20/23 | 0.27 | <u>0.061</u> | <0.0049 | <u>0.062</u> | 0.22 | 0.046 (J) | <u>0.659</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 |

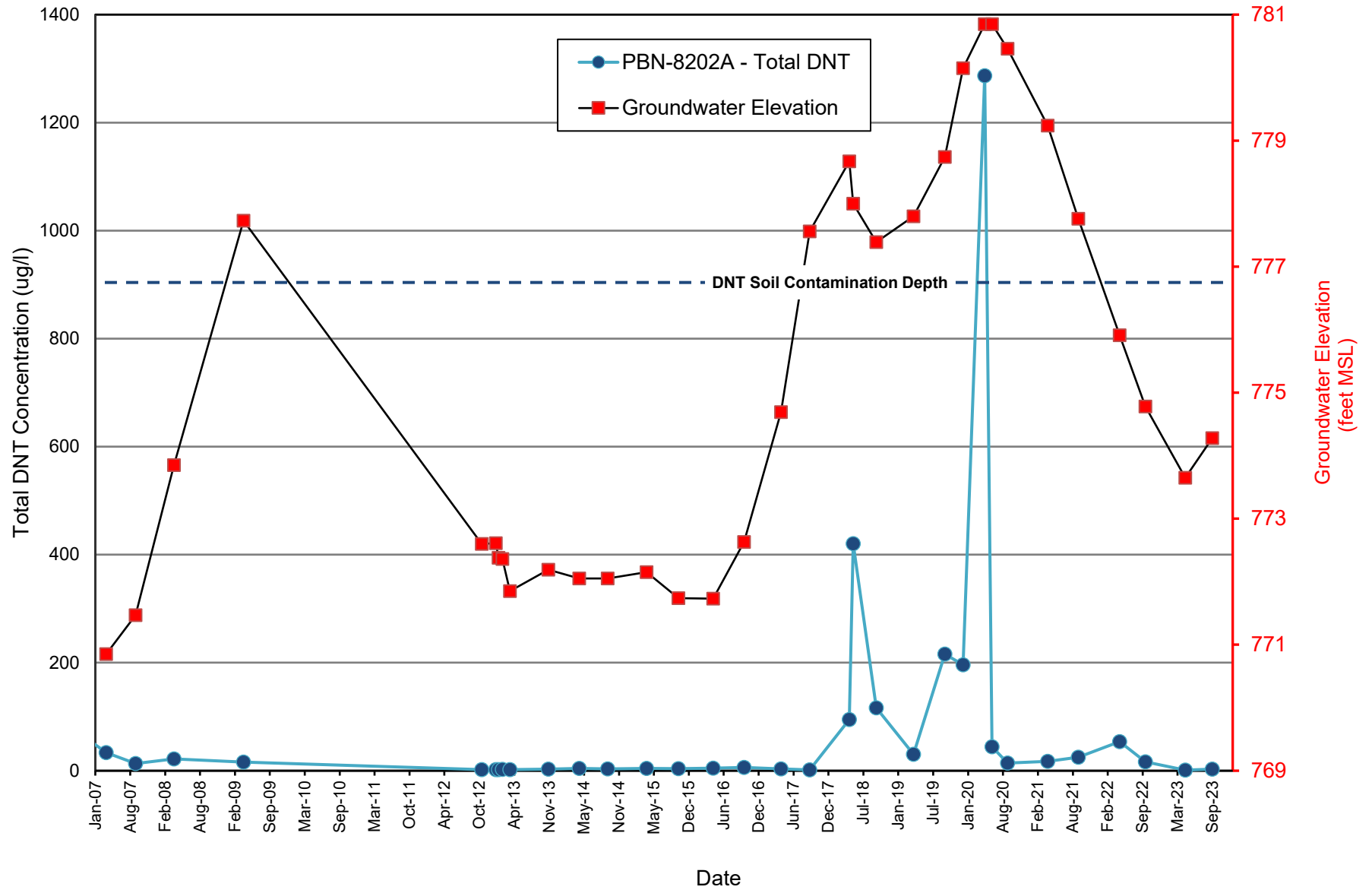
Notes:

- PBG - Propellant 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)

PBN-8202A

Total Dinitrotoluene vs Groundwater Elevation

2007 - 2023



September 2023
Badger Army Ammunition Plant
Sampled Wells List

| <u>License</u> | | | | <u>Sample</u> | |
|----------------|----------------|-----------------------|-------------|------------------|--------------------------------|
| <u>Area</u> | <u>Well ID</u> | <u>Reporting Name</u> | <u>Date</u> | <u>Frequency</u> | <u>Plume</u> |
| 2813 | 210 | ELN-8203A | 9/12/2023 | Semiannual | Deterrent Burning Ground |
| 2813 | 211 | ELN-8203B | 9/12/2023 | Semiannual | Deterrent Burning Ground |
| 2813 | 212 | ELN-8203C | 9/12/2023 | Semiannual | Deterrent Burning Ground |
| 2813 | 216 | ELM-8901 | 9/12/2023 | Semiannual | Deterrent Burning Ground |
| 2813 | 220 | ELM-8907 | 9/11/2023 | Semiannual | Deterrent Burning Ground |
| 2813 | 221 | ELM-8908 | 9/12/2023 | Semiannual | Deterrent Burning Ground |
| 2813 | 222 | ELM-8909 | 9/12/2023 | Semiannual | Deterrent Burning Ground |
| 2813 | 224 | ELN-8902B | 9/12/2023 | Semiannual | Deterrent Burning Ground |
| 2813 | 227 | ELN-9107A | 9/11/2023 | Semiannual | Deterrent Burning Ground |
| 2813 | 228 | ELN-9107B | 9/11/2023 | Semiannual | Deterrent Burning Ground |
| 2813 | 234 | ELM-9501 | 9/11/2023 | Semiannual | Deterrent Burning Ground |
| 2813 | 236 | S1134R | 9/12/2023 | Semiannual | Deterrent Burning Ground |
| 3037 | 301 | DBM-8201 | 9/12/2023 | Semiannual | Deterrent Burning Ground |
| 3037 | 302 | DBM-8202 | 9/12/2023 | Semiannual | Deterrent Burning Ground |
| 3037 | 306 | DBM-8903 | 9/12/2023 | Semiannual | Deterrent Burning Ground |
| 3037 | 314 | DBN-9501A | 9/11/2023 | Semiannual | Deterrent Burning Ground |
| 3037 | 315 | DBN-9501B | 9/11/2023 | Semiannual | Deterrent Burning Ground |
| 3037 | 316 | DBN-9501C | 9/11/2023 | Semiannual | Deterrent Burning Ground |
| 3037 | 317 | DBN-9501E | 9/11/2023 | Semiannual | Deterrent Burning Ground |
| 2813 | 455 | ELN-0801B | 9/11/2023 | Semiannual | Deterrent Burning Ground |
| 2813 | 456 | ELN-0801C | 9/11/2023 | Semiannual | Deterrent Burning Ground |
| 2813 | 457 | ELN-0801E | 9/11/2023 | Semiannual | Deterrent Burning Ground |
| 2813 | 460 | ELN-1001B | 9/11/2023 | Semiannual | Deterrent Burning Ground |
| 2813 | 461 | ELN-1001C | 9/11/2023 | Semiannual | Deterrent Burning Ground |
| 2813 | 462 | ELN-1001E | 9/11/2023 | Semiannual | Deterrent Burning Ground |
| 2813 | 463 | ELN-1002A | 9/13/2023 | Semiannual | Deterrent Burning Ground |
| 2813 | 464 | ELN-1002B | 9/13/2023 | Semiannual | Deterrent Burning Ground |
| 2813 | 465 | ELN-1002C | 9/13/2023 | Semiannual | Deterrent Burning Ground |
| 2813 | 466 | ELN-1002E | 9/13/2023 | Semiannual | Deterrent Burning Ground |
| 2813 | 467 | ELN-1003A | 9/13/2023 | Quarterly | Deterrent Burning Ground |
| 2813 | 468 | ELN-1003B | 9/13/2023 | Quarterly | Deterrent Burning Ground |
| 2813 | 469 | ELN-1003C | 9/13/2023 | Quarterly | Deterrent Burning Ground |
| 2813 | 470 | ELN-1003E | 9/13/2023 | Quarterly | Deterrent Burning Ground |
| 3037 | 472 | DBN-1001B | 9/12/2023 | Semiannual | Deterrent Burning Ground |
| 3037 | 473 | DBN-1001C | 9/12/2023 | Semiannual | Deterrent Burning Ground |
| 3037 | 474 | DBN-1001E | 9/12/2023 | Semiannual | Deterrent Burning Ground |
| 3037 | 476 | DBN-1002C | 9/11/2023 | Semiannual | Deterrent Burning Ground |
| 3037 | 477 | DBN-1002E | 9/11/2023 | Semiannual | Deterrent Burning Ground |
| 2813 | 533 | ELN-1502A | 9/11/2023 | Semiannual | Deterrent Burning Ground |
| 2813 | 534 | ELN-1502C | 9/11/2023 | Semiannual | Deterrent Burning Ground |
| 2813 | 535 | ELN-1503A | 9/13/2023 | Quarterly | Deterrent Burning Ground |
| 2813 | 536 | ELN-1503C | 9/13/2023 | Quarterly | Deterrent Burning Ground |
| 2813 | 537 | ELN-1504B | 9/13/2023 | Quarterly | Deterrent Burning Ground |
| 3038 | 755 | S1121 | 9/11/2023 | Semiannual | Deterrent Burning Ground |
| 3487 | 440 | RIM-0703 | 9/13/2023 | Annual | Nitrocellulose Production Area |
| 3487 | 442 | RIM-0705 | 9/13/2023 | Semiannual | Nitrocellulose Production Area |
| 3487 | 478 | RIM-1002 | 9/13/2023 | Semiannual | Nitrocellulose Production Area |

September 2023
Badger Army Ammunition Plant
Sampled Wells List

| <u>License</u> | | | | <u>Sample</u> | |
|----------------|----------------|-----------------------|-------------|------------------|--------------------------------|
| <u>Area</u> | <u>Well ID</u> | <u>Reporting Name</u> | <u>Date</u> | <u>Frequency</u> | <u>Plume</u> |
| 3487 | 479 | RIN-1007C | 9/13/2023 | Annual | Nitrocellulose Production Area |
| 3487 | 480 | RIN-1001A | 9/13/2023 | Semiannual | Nitrocellulose Production Area |
| 3487 | 481 | RIN-1001C | 9/13/2023 | Annual | Nitrocellulose Production Area |
| 3487 | 504 | S1125 | 9/12/2023 | Semiannual | Nitrocellulose Production Area |
| 2814 | 360 | PBM-9801 | 9/20/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 367 | PBM-0001 | 9/20/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 368 | PBM-0002 | 9/20/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 372 | PBM-0006 | 9/20/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 374 | PBM-0008 | 9/20/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 544 | PBN-2301B | 9/26/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 545 | PBN-2301C | 9/26/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 546 | PBN-2301D | 9/26/2023 | Semiannual | Propellant Burning Ground |
| 3493 | 561 | PBN-9101C | 9/26/2023 | Semiannual | Propellant Burning Ground |
| 3493 | 569 | SWN-9102C | 9/26/2023 | Annual | Propellant Burning Ground |
| 3493 | 570 | SWN-9102D | 9/26/2023 | Annual | Propellant Burning Ground |
| 3493 | 571 | SWN-9103B | 9/26/2023 | Semiannual | Propellant Burning Ground |
| 3493 | 572 | SWN-9103C | 9/26/2023 | Semiannual | Propellant Burning Ground |
| 3493 | 573 | SWN-9103D | 9/26/2023 | Semiannual | Propellant Burning Ground |
| 3493 | 574 | SWN-9103E | 9/26/2023 | Semiannual | Propellant Burning Ground |
| 3493 | 575 | SWN-9104C | 9/26/2023 | Semiannual | Propellant Burning Ground |
| 3493 | 576 | SWN-9104D | 9/26/2023 | Semiannual | Propellant Burning Ground |
| 3493 | 577 | SWN-9105B | 9/26/2023 | Annual | Propellant Burning Ground |
| 3493 | 578 | SWN-9105C | 9/26/2023 | Annual | Propellant Burning Ground |
| 3493 | 579 | SWN-9105D | 9/26/2023 | Annual | Propellant Burning Ground |
| 2814 | 592 | PBN-1003C | 9/21/2023 | Annual | Propellant Burning Ground |
| 2814 | 595 | PBN-1001C | 9/19/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 613 | PBN-8202A | 9/20/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 614 | PBN-8202B | 9/20/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 615 | PBN-8202C | 9/20/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 622 | PBN-8205A | 9/20/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 623 | PBN-8205B | 9/20/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 624 | PBN-8205C | 9/20/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 632 | PBN-8502A | 9/21/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 633 | PBN-8503A | 9/20/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 637 | PBM-8907 | 9/21/2023 | Annual | Propellant Burning Ground |
| 2814 | 645 | PBN-8902C | 9/21/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 646 | PBN-8903B | 9/20/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 647 | PBN-8903C | 9/20/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 653 | PBN-8910D | 9/20/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 654 | PBN-8912A | 9/19/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 655 | PBN-8912B | 9/19/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 665 | PBN-9112C | 9/19/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 666 | PBN-9112D | 9/19/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 668 | PBN-9301B | 9/21/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 669 | PBN-9301C | 9/21/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 673 | PBN-9303B | 9/19/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 674 | PBN-9303C | 9/19/2023 | Semiannual | Propellant Burning Ground |

September 2023
Badger Army Ammunition Plant
Sampled Wells List

| <u>License</u> | | | | <u>Sample</u> | |
|----------------|----------------|-----------------------|-------------|------------------|---------------------------|
| <u>Area</u> | <u>Well ID</u> | <u>Reporting Name</u> | <u>Date</u> | <u>Frequency</u> | <u>Plume</u> |
| 2814 | 675 | PBN-9303D | 9/19/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 691 | PBN-9902D | 9/19/2023 | Semiannual | Propellant Burning Ground |
| 3499 | 709 | S1147 | 9/19/2023 | Semiannual | Propellant Burning Ground |
| 3499 | 710 | S1148 | 9/18/2023 | Semiannual | Propellant Burning Ground |
| 3499 | 718 | SPN-8903B | 9/19/2023 | Semiannual | Propellant Burning Ground |
| 3499 | 719 | SPN-8903C | 9/19/2023 | Semiannual | Propellant Burning Ground |
| 3499 | 720 | SPN-8904B | 9/18/2023 | Semiannual | Propellant Burning Ground |
| 3499 | 721 | SPN-8904C | 9/18/2023 | Semiannual | Propellant Burning Ground |
| 3499 | 725 | SPN-9103D | 9/19/2023 | Semiannual | Propellant Burning Ground |
| 3499 | 726 | SPN-9104D | 9/18/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 770 | PBN-1302A | 9/18/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 771 | PBN-1302B | 9/18/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 772 | PBN-1302C | 9/18/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 773 | PBN-1302D | 9/18/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 774 | PBN-1303A | 9/18/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 775 | PBN-1303B | 9/18/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 776 | PBN-1303C | 9/21/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 777 | PBN-1303D | 9/18/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 778 | PBN-1304A | 9/18/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 779 | PBN-1304B | 9/18/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 780 | PBN-1304C | 9/18/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 781 | PBN-1304D | 9/18/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 782 | PBN-1401A | 9/20/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 783 | PBN-1401B | 9/20/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 784 | PBN-1401C | 9/20/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 791 | PBN-1404B | 9/19/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 792 | PBN-1404C | 9/19/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 793 | PBN-1404D | 9/19/2023 | Semiannual | Propellant Burning Ground |
| 2814 | 795 | PBN-8902BR | 9/21/2023 | Semiannual | Propellant Burning Ground |
| 3485 | 981 | PBM-9001D | 9/26/2023 | Semiannual | Propellant Burning Ground |

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 - Landfill #5 | 02813 | 157005530 | 9/11 - 9/13/23 |

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

September 2023

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 11/3/23

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 2813
Landfill #5
September 2023
Badger Army Ammunition Plant

Groundwater is currently being monitored by the facility because of past production activities. Thirty-one (31) 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 ELM-8901 (216), ELM-8907 (220), ELM-8908 (221), ELN-1003C (469), and ELN-1502A (533).

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

September 2023

Report Date: 11/3/2023

| Parameter Name | Lic No. | Well No. | Well Name | Date | Dup | Result | Units | PAL | ES |
|-----------------------|----------------|-----------------|------------------|-------------|------------|---------------|--------------|------------|-----------|
| Total Dinitrotoluenes | 2813 | 216 | ELM-8901 | 9/12/2023 | 1 | 0.542 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 2813 | 220 | ELM-8907 | 9/11/2023 | 1 | 0.57 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 2813 | 221 | ELM-8908 | 9/12/2023 | 1 | 0.338 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 2813 | 468 | ELN-1003B | 9/13/2023 | 1 | 0.027 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 2813 | 468 | ELN-1003B | 9/13/2023 | 2 | 0.025 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 2813 | 469 | ELN-1003C | 9/13/2023 | 1 | 0.066 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 2813 | 533 | ELN-1502A | 9/11/2023 | 1 | 0.254 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 2813 | 533 | ELN-1502A | 9/11/2023 | 2 | 0.291 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 2813 | 535 | ELN-1503A | 9/13/2023 | 1 | 0.012 | ug/l | 0.005 | 0.05 |

Badger Army Ammunition Plant

SpecPro Professional Services, LLC

September 2023

GROUNDWATER MONITORING ALL HITS REPORT

License No: 2813

Report Date: 11/3/2023

| Parameter Name | Well | Well Name | Date | Dup | Result | LOD | LOQ | Units | PAL | ES |
|-----------------------|------|-----------|-----------|-----|--------|--------|-------|-------|-------|------|
| 2,3-Dinitrotoluene | 216 | ELM-8901 | 9/12/2023 | 1 | 0.27 | 0.006 | 0.05 | ug/l | | |
| 3,4-Dinitrotoluene | 216 | ELM-8901 | 9/12/2023 | 1 | 0.18 | 0.005 | 0.05 | ug/l | | |
| 3,5-Dinitrotoluene | 216 | ELM-8901 | 9/12/2023 | 1 | 0.092 | 0.005 | 0.05 | ug/l | | |
| Total Dinitrotoluenes | 216 | ELM-8901 | 9/12/2023 | 1 | 0.542 | 0.008 | 0.05 | ug/l | 0.005 | 0.05 |
| 2,3-Dinitrotoluene | 220 | ELM-8907 | 9/11/2023 | 1 | 0.41 | 0.0058 | 0.049 | ug/l | | |
| 3,4-Dinitrotoluene | 220 | ELM-8907 | 9/11/2023 | 1 | 0.092 | 0.0049 | 0.049 | ug/l | | |
| 3,5-Dinitrotoluene | 220 | ELM-8907 | 9/11/2023 | 1 | 0.068 | 0.0049 | 0.049 | ug/l | | |
| Total Dinitrotoluenes | 220 | ELM-8907 | 9/11/2023 | 1 | 0.57 | 0.0078 | 0.049 | ug/l | 0.005 | 0.05 |
| 2,3-Dinitrotoluene | 221 | ELM-8908 | 9/12/2023 | 1 | 0.27 | 0.0061 | 0.051 | ug/l | | |
| 3,4-Dinitrotoluene | 221 | ELM-8908 | 9/12/2023 | 1 | 0.039 | 0.0051 | 0.051 | ug/l | | |
| 3,5-Dinitrotoluene | 221 | ELM-8908 | 9/12/2023 | 1 | 0.029 | 0.0051 | 0.051 | ug/l | | |
| Total Dinitrotoluenes | 221 | ELM-8908 | 9/12/2023 | 1 | 0.338 | 0.0081 | 0.051 | ug/l | 0.005 | 0.05 |
| 3,4-Dinitrotoluene | 468 | ELN-1003B | 9/13/2023 | 1 | 0.027 | 0.0049 | 0.049 | ug/l | | |
| 3,4-Dinitrotoluene | 468 | ELN-1003B | 9/13/2023 | 2 | 0.025 | 0.0048 | 0.048 | ug/l | | |
| Total Dinitrotoluenes | 468 | ELN-1003B | 9/13/2023 | 1 | 0.027 | 0.0078 | 0.049 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 468 | ELN-1003B | 9/13/2023 | 2 | 0.025 | 0.0077 | 0.048 | ug/l | 0.005 | 0.05 |
| 2,3-Dinitrotoluene | 469 | ELN-1003C | 9/13/2023 | 1 | 0.012 | 0.0058 | 0.048 | ug/l | | |
| 3,4-Dinitrotoluene | 469 | ELN-1003C | 9/13/2023 | 1 | 0.054 | 0.0048 | 0.048 | ug/l | | |
| Total Dinitrotoluenes | 469 | ELN-1003C | 9/13/2023 | 1 | 0.066 | 0.0077 | 0.048 | ug/l | 0.005 | 0.05 |
| 2,3-Dinitrotoluene | 533 | ELN-1502A | 9/11/2023 | 2 | 0.091 | 0.0059 | 0.05 | ug/l | | |
| 2,3-Dinitrotoluene | 533 | ELN-1502A | 9/11/2023 | 1 | 0.084 | 0.0061 | 0.051 | ug/l | | |
| 3,4-Dinitrotoluene | 533 | ELN-1502A | 9/11/2023 | 2 | 0.2 | 0.005 | 0.05 | ug/l | | |
| 3,4-Dinitrotoluene | 533 | ELN-1502A | 9/11/2023 | 1 | 0.17 | 0.0051 | 0.051 | ug/l | | |
| Total Dinitrotoluenes | 533 | ELN-1502A | 9/11/2023 | 2 | 0.291 | 0.0079 | 0.05 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 533 | ELN-1502A | 9/11/2023 | 1 | 0.254 | 0.0082 | 0.051 | ug/l | 0.005 | 0.05 |
| 3,4-Dinitrotoluene | 535 | ELN-1503A | 9/13/2023 | 1 | 0.012 | 0.0048 | 0.048 | ug/l | | |
| Total Dinitrotoluenes | 535 | ELN-1503A | 9/13/2023 | 1 | 0.012 | 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 - Propellant Burning Grounds | 02814 | 157005420 | 9/18 - 9/26/23 |

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

September 2023

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 2814
Propellant Burning Grounds
September 2023
Badger Army Ammunition Plant

Groundwater is currently being monitored by the facility because of past production activities. Contamination from the Propellant Burning Ground (PBG) impacts groundwater quality in wells associated with this license. Fifty-two (52) wells were sampled to assist with determining the degree and lateral extent of dinitrotoluene (DNT) and volatile organic compounds (VOCs) in the PBG Plume.

2,4-DNT, 2,6-DNT, and total DNT exceeded the Enforcement Standards (ES) in PBM-9801 (360), PBM-0001 (367), PBM-0002 (368), PBM-0006 (372), PBM-0008 (374), and PBN-8202A (613). 2,6-DNT and total DNT exceeded the ES in PBN-8202C (615), PBN-8205A (622), PBN-8205B (623), PBN-8205C (624), PBN-1401A (782), and PBN-1401B (783). Total DNT exceeded the ES in PBN-8202B (614) and PBN-8902C (645).

2,4-DNT exceeded the Preventive Action Limit (PAL) in PBN-8202C (615), PBN-8205A (622), PBN-8205B (623), PBN-1401A (782), and PBN-1401B (783). 2,6-DNT exceeded the PAL in PBN-8902C (645).

Bromodichloromethane exceeded the PAL in PBN-1001C (595), PBN-9301C (669), and PBN-1404C (792).

Carbon tetrachloride exceeded the ES in PBN-8502A (632) and the PAL in 22 wells.

Chloroform exceeded the PAL in five wells.

Nitrate plus nitrite exceeded the PAL in four wells.

Trichloroethene exceeded the PAL in five wells.

VOC 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.

Nitrate plus nitrite analyses were performed by CT Lab using method SW 9056A.

Badger Army Ammunition Plant

SpecPro Professional Services, LLC

GROUNDWATER MONITORING EXCEEDANCE REPORT

September 2023

Report Date: 11/3/2023

| Parameter Name | Lic No. | Well No. | Well Name | Date | Dup | Result | Units | PAL | ES |
|-----------------------|---------|----------|-----------|-----------|-----|--------|-------|-------|------|
| 2,4-Dinitrotoluene | 2814 | 360 | PBM-9801 | 9/20/2023 | 1 | 0.08 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 2814 | 360 | PBM-9801 | 9/20/2023 | 1 | 0.08 | ug/l | 0.005 | 0.05 |
| Nitrate + Nitrite-N | 2814 | 360 | PBM-9801 | 9/20/2023 | 1 | 4.4 | mg/l | 2 | 10 |
| Total Dinitrotoluenes | 2814 | 360 | PBM-9801 | 9/20/2023 | 1 | 0.628 | ug/l | 0.005 | 0.05 |
| 2,4-Dinitrotoluene | 2814 | 367 | PBM-0001 | 9/20/2023 | 1 | 0.066 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 2814 | 367 | PBM-0001 | 9/20/2023 | 1 | 0.081 | ug/l | 0.005 | 0.05 |
| Nitrate + Nitrite-N | 2814 | 367 | PBM-0001 | 9/20/2023 | 1 | 3.3 | mg/l | 2 | 10 |
| Total Dinitrotoluenes | 2814 | 367 | PBM-0001 | 9/20/2023 | 1 | 1.335 | ug/l | 0.005 | 0.05 |
| 2,4-Dinitrotoluene | 2814 | 368 | PBM-0002 | 9/20/2023 | 1 | 0.087 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 2814 | 368 | PBM-0002 | 9/20/2023 | 1 | 0.054 | ug/l | 0.005 | 0.05 |
| Nitrate + Nitrite-N | 2814 | 368 | PBM-0002 | 9/20/2023 | 1 | 3.5 | mg/l | 2 | 10 |
| Total Dinitrotoluenes | 2814 | 368 | PBM-0002 | 9/20/2023 | 1 | 7.27 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 2814 | 368 | PBM-0002 | 9/20/2023 | 1 | 0.53 | ug/l | 0.5 | 5 |
| 2,4-Dinitrotoluene | 2814 | 372 | PBM-0006 | 9/20/2023 | 1 | 0.061 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 2814 | 372 | PBM-0006 | 9/20/2023 | 1 | 0.062 | ug/l | 0.005 | 0.05 |
| Nitrate + Nitrite-N | 2814 | 372 | PBM-0006 | 9/20/2023 | 1 | 2.8 | mg/l | 2 | 10 |
| Total Dinitrotoluenes | 2814 | 372 | PBM-0006 | 9/20/2023 | 1 | 0.659 | ug/l | 0.005 | 0.05 |
| 2,4-Dinitrotoluene | 2814 | 374 | PBM-0008 | 9/20/2023 | 1 | 0.06 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 2814 | 374 | PBM-0008 | 9/20/2023 | 1 | 0.066 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 2814 | 374 | PBM-0008 | 9/20/2023 | 1 | 0.779 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 2814 | 374 | PBM-0008 | 9/20/2023 | 1 | 0.56 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 2814 | 544 | PBN-2301B | 9/26/2023 | 1 | 2.3 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 2814 | 545 | PBN-2301C | 9/26/2023 | 1 | 2 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 2814 | 545 | PBN-2301C | 9/26/2023 | 2 | 2.7 | ug/l | 0.5 | 5 |
| Bromodichloromethane | 2814 | 595 | PBN-1001C | 9/19/2023 | 1 | 0.19 | ug/l | 0.06 | 0.6 |
| Carbon tetrachloride | 2814 | 595 | PBN-1001C | 9/19/2023 | 1 | 0.74 | ug/l | 0.5 | 5 |
| Chloroform | 2814 | 595 | PBN-1001C | 9/19/2023 | 1 | 1.2 | ug/l | 0.6 | 6 |
| 2,4-Dinitrotoluene | 2814 | 613 | PBN-8202A | 9/20/2023 | 1 | 0.11 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 2814 | 613 | PBN-8202A | 9/20/2023 | 1 | 0.11 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 2814 | 613 | PBN-8202A | 9/20/2023 | 1 | 2.74 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 2814 | 614 | PBN-8202B | 9/20/2023 | 1 | 4.96 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 2814 | 614 | PBN-8202B | 9/20/2023 | 1 | 0.7 | ug/l | 0.5 | 5 |
| 2,4-Dinitrotoluene | 2814 | 615 | PBN-8202C | 9/20/2023 | 1 | 0.034 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 2814 | 615 | PBN-8202C | 9/20/2023 | 1 | 0.053 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 2814 | 615 | PBN-8202C | 9/20/2023 | 1 | 0.253 | ug/l | 0.005 | 0.05 |
| 2,4-Dinitrotoluene | 2814 | 622 | PBN-8205A | 9/20/2023 | 1 | 0.025 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 2814 | 622 | PBN-8205A | 9/20/2023 | 1 | 0.071 | ug/l | 0.005 | 0.05 |
| Carbon tetrachloride | 2814 | 622 | PBN-8205A | 9/20/2023 | 1 | 1.7 | ug/l | 0.5 | 5 |
| Total Dinitrotoluenes | 2814 | 622 | PBN-8205A | 9/20/2023 | 1 | 0.56 | ug/l | 0.005 | 0.05 |
| 2,4-Dinitrotoluene | 2814 | 623 | PBN-8205B | 9/20/2023 | 1 | 0.023 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 2814 | 623 | PBN-8205B | 9/20/2023 | 1 | 0.068 | ug/l | 0.005 | 0.05 |
| Carbon tetrachloride | 2814 | 623 | PBN-8205B | 9/20/2023 | 1 | 2 | ug/l | 0.5 | 5 |
| Total Dinitrotoluenes | 2814 | 623 | PBN-8205B | 9/20/2023 | 1 | 0.523 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 2814 | 624 | PBN-8205C | 9/20/2023 | 1 | 0.06 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 2814 | 624 | PBN-8205C | 9/20/2023 | 1 | 0.4 | ug/l | 0.005 | 0.05 |
| Carbon tetrachloride | 2814 | 632 | PBN-8502A | 9/21/2023 | 1 | 6.2 | ug/l | 0.5 | 5 |
| Trichloroethene | 2814 | 632 | PBN-8502A | 9/21/2023 | 1 | 0.85 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 2814 | 633 | PBN-8503A | 9/20/2023 | 1 | 0.98 | ug/l | 0.5 | 5 |

| Parameter Name | Lic No. | Well No. | Well Name | Date | Dup | Result | Units | PAL | ES |
|-----------------------|---------|----------|------------|-----------|-----|--------|-------|-------|------|
| 2,6-Dinitrotoluene | 2814 | 645 | PBN-8902C | 9/21/2023 | 1 | 0.024 | ug/l | 0.005 | 0.05 |
| Carbon tetrachloride | 2814 | 645 | PBN-8902C | 9/21/2023 | 1 | 1.2 | ug/l | 0.5 | 5 |
| Total Dinitrotoluenes | 2814 | 645 | PBN-8902C | 9/21/2023 | 1 | 0.1 | ug/l | 0.005 | 0.05 |
| Carbon tetrachloride | 2814 | 646 | PBN-8903B | 9/20/2023 | 1 | 0.69 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 2814 | 668 | PBN-9301B | 9/21/2023 | 1 | 1.7 | ug/l | 0.5 | 5 |
| Bromodichloromethane | 2814 | 669 | PBN-9301C | 9/21/2023 | 1 | 0.18 | ug/l | 0.06 | 0.6 |
| Carbon tetrachloride | 2814 | 669 | PBN-9301C | 9/21/2023 | 1 | 0.67 | ug/l | 0.5 | 5 |
| Chloroform | 2814 | 669 | PBN-9301C | 9/21/2023 | 1 | 1.5 | ug/l | 0.6 | 6 |
| Carbon tetrachloride | 2814 | 673 | PBN-9303B | 9/19/2023 | 1 | 3.7 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 2814 | 674 | PBN-9303C | 9/19/2023 | 1 | 2 | ug/l | 0.5 | 5 |
| Chloroform | 2814 | 674 | PBN-9303C | 9/19/2023 | 1 | 0.99 | ug/l | 0.6 | 6 |
| Carbon tetrachloride | 2814 | 770 | PBN-1302A | 9/18/2023 | 1 | 3.5 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 2814 | 771 | PBN-1302B | 9/18/2023 | 1 | 4 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 2814 | 772 | PBN-1302C | 9/18/2023 | 1 | 2.4 | ug/l | 0.5 | 5 |
| Chloroform | 2814 | 772 | PBN-1302C | 9/18/2023 | 1 | 0.81 | ug/l | 0.6 | 6 |
| Carbon tetrachloride | 2814 | 774 | PBN-1303A | 9/18/2023 | 1 | 1.7 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 2814 | 775 | PBN-1303B | 9/18/2023 | 1 | 2 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 2814 | 775 | PBN-1303B | 9/18/2023 | 2 | 1.9 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 2814 | 776 | PBN-1303C | 9/21/2023 | 1 | 1.7 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 2814 | 779 | PBN-1304B | 9/18/2023 | 1 | 0.71 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 2814 | 780 | PBN-1304C | 9/18/2023 | 1 | 0.76 | ug/l | 0.5 | 5 |
| 2,4-Dinitrotoluene | 2814 | 782 | PBN-1401A | 9/20/2023 | 1 | 0.02 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 2814 | 782 | PBN-1401A | 9/20/2023 | 1 | 0.054 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 2814 | 782 | PBN-1401A | 9/20/2023 | 1 | 0.379 | ug/l | 0.005 | 0.05 |
| 2,4-Dinitrotoluene | 2814 | 783 | PBN-1401B | 9/20/2023 | 1 | 0.024 | ug/l | 0.005 | 0.05 |
| 2,4-Dinitrotoluene | 2814 | 783 | PBN-1401B | 9/20/2023 | 2 | 0.023 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 2814 | 783 | PBN-1401B | 9/20/2023 | 1 | 0.059 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 2814 | 783 | PBN-1401B | 9/20/2023 | 2 | 0.06 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 2814 | 783 | PBN-1401B | 9/20/2023 | 1 | 0.537 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 2814 | 783 | PBN-1401B | 9/20/2023 | 2 | 0.493 | ug/l | 0.005 | 0.05 |
| Carbon tetrachloride | 2814 | 791 | PBN-1404B | 9/19/2023 | 1 | 2.8 | ug/l | 0.5 | 5 |
| Trichloroethene | 2814 | 791 | PBN-1404B | 9/19/2023 | 1 | 0.54 | ug/l | 0.5 | 5 |
| Bromodichloromethane | 2814 | 792 | PBN-1404C | 9/19/2023 | 1 | 0.13 | ug/l | 0.06 | 0.6 |
| Bromodichloromethane | 2814 | 792 | PBN-1404C | 9/19/2023 | 2 | 0.13 | ug/l | 0.06 | 0.6 |
| Chloroform | 2814 | 792 | PBN-1404C | 9/19/2023 | 1 | 0.97 | ug/l | 0.6 | 6 |
| Chloroform | 2814 | 792 | PBN-1404C | 9/19/2023 | 2 | 0.96 | ug/l | 0.6 | 6 |
| Carbon tetrachloride | 2814 | 795 | PBN-8902BR | 9/21/2023 | 1 | 0.94 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 2814 | 795 | PBN-8902BR | 9/21/2023 | 2 | 2 | ug/l | 0.5 | 5 |
| Trichloroethene | 2814 | 795 | PBN-8902BR | 9/21/2023 | 2 | 0.57 | ug/l | 0.5 | 5 |

Badger Army Ammunition Plant

SpecPro Professional Services, LLC

September 2023

GROUNDWATER MONITORING ALL HITS REPORT

License No: 2814

Report Date: 11/3/2023

| Parameter Name | Well | Well Name | Date | Dup | Result | LOD | LOQ | Units | PAL | ES |
|-----------------------|------|-----------|-----------|-----|--------|--------|-------|-------|-------|------|
| 2,3-Dinitrotoluene | 360 | PBM-9801 | 9/20/2023 | 1 | 0.31 | 0.006 | 0.05 | ug/l | | |
| 2,4-Dinitrotoluene | 360 | PBM-9801 | 9/20/2023 | 1 | 0.08 | 0.008 | 0.05 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 360 | PBM-9801 | 9/20/2023 | 1 | 0.08 | 0.005 | 0.05 | ug/l | 0.005 | 0.05 |
| 3,4-Dinitrotoluene | 360 | PBM-9801 | 9/20/2023 | 1 | 0.12 | 0.005 | 0.05 | ug/l | | |
| 3,5-Dinitrotoluene | 360 | PBM-9801 | 9/20/2023 | 1 | 0.038 | 0.005 | 0.05 | ug/l | | |
| Carbon tetrachloride | 360 | PBM-9801 | 9/20/2023 | 1 | 0.15 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Nitrate + Nitrite-N | 360 | PBM-9801 | 9/20/2023 | 1 | 4.4 | 0.12 | 0.4 | mg/l | 2 | 10 |
| Total Dinitrotoluenes | 360 | PBM-9801 | 9/20/2023 | 1 | 0.628 | 0.008 | 0.05 | ug/l | 0.005 | 0.05 |
| 2,3-Dinitrotoluene | 367 | PBM-0001 | 9/20/2023 | 1 | 0.98 | 0.0059 | 0.049 | ug/l | | |
| 2,4-Dinitrotoluene | 367 | PBM-0001 | 9/20/2023 | 1 | 0.066 | 0.0078 | 0.049 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 367 | PBM-0001 | 9/20/2023 | 1 | 0.081 | 0.0049 | 0.049 | ug/l | 0.005 | 0.05 |
| 3,4-Dinitrotoluene | 367 | PBM-0001 | 9/20/2023 | 1 | 0.058 | 0.0049 | 0.049 | ug/l | | |
| 3,5-Dinitrotoluene | 367 | PBM-0001 | 9/20/2023 | 1 | 0.15 | 0.0049 | 0.049 | ug/l | | |
| Carbon tetrachloride | 367 | PBM-0001 | 9/20/2023 | 1 | 0.34 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Nitrate + Nitrite-N | 367 | PBM-0001 | 9/20/2023 | 1 | 3.3 | 0.12 | 0.4 | mg/l | 2 | 10 |
| Total Dinitrotoluenes | 367 | PBM-0001 | 9/20/2023 | 1 | 1.335 | 0.0078 | 0.049 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 367 | PBM-0001 | 9/20/2023 | 1 | 0.36 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 2,3-Dinitrotoluene | 368 | PBM-0002 | 9/20/2023 | 1 | 5.7 | 0.029 | 0.24 | ug/l | | |
| 2,4-Dinitrotoluene | 368 | PBM-0002 | 9/20/2023 | 1 | 0.087 | 0.0077 | 0.048 | ug/l | 0.005 | 0.05 |
| 2,5-Dinitrotoluene | 368 | PBM-0002 | 9/20/2023 | 1 | 0.069 | 0.0048 | 0.048 | ug/l | | |
| 2,6-Dinitrotoluene | 368 | PBM-0002 | 9/20/2023 | 1 | 0.054 | 0.0048 | 0.048 | ug/l | 0.005 | 0.05 |
| 3,4-Dinitrotoluene | 368 | PBM-0002 | 9/20/2023 | 1 | 1 | 0.0048 | 0.048 | ug/l | | |
| 3,5-Dinitrotoluene | 368 | PBM-0002 | 9/20/2023 | 1 | 0.36 | 0.0048 | 0.048 | ug/l | | |
| Carbon tetrachloride | 368 | PBM-0002 | 9/20/2023 | 1 | 0.3 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Nitrate + Nitrite-N | 368 | PBM-0002 | 9/20/2023 | 1 | 3.5 | 0.12 | 0.4 | mg/l | 2 | 10 |
| Total Dinitrotoluenes | 368 | PBM-0002 | 9/20/2023 | 1 | 7.27 | 0.0077 | 0.048 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 368 | PBM-0002 | 9/20/2023 | 1 | 0.53 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 2,3-Dinitrotoluene | 372 | PBM-0006 | 9/20/2023 | 1 | 0.27 | 0.0058 | 0.049 | ug/l | | |
| 2,4-Dinitrotoluene | 372 | PBM-0006 | 9/20/2023 | 1 | 0.061 | 0.0078 | 0.049 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 372 | PBM-0006 | 9/20/2023 | 1 | 0.062 | 0.0049 | 0.049 | ug/l | 0.005 | 0.05 |
| 3,4-Dinitrotoluene | 372 | PBM-0006 | 9/20/2023 | 1 | 0.22 | 0.0049 | 0.049 | ug/l | | |
| 3,5-Dinitrotoluene | 372 | PBM-0006 | 9/20/2023 | 1 | 0.046 | 0.0049 | 0.049 | ug/l | | |
| Carbon tetrachloride | 372 | PBM-0006 | 9/20/2023 | 1 | 0.31 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Nitrate + Nitrite-N | 372 | PBM-0006 | 9/20/2023 | 1 | 2.8 | 0.12 | 0.4 | mg/l | 2 | 10 |
| Total Dinitrotoluenes | 372 | PBM-0006 | 9/20/2023 | 1 | 0.659 | 0.0078 | 0.049 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 372 | PBM-0006 | 9/20/2023 | 1 | 0.35 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 2,3-Dinitrotoluene | 374 | PBM-0008 | 9/20/2023 | 1 | 0.38 | 0.006 | 0.05 | ug/l | | |
| 2,4-Dinitrotoluene | 374 | PBM-0008 | 9/20/2023 | 1 | 0.06 | 0.008 | 0.05 | ug/l | 0.005 | 0.05 |
| 2,5-Dinitrotoluene | 374 | PBM-0008 | 9/20/2023 | 1 | 0.021 | 0.005 | 0.05 | ug/l | | |
| 2,6-Dinitrotoluene | 374 | PBM-0008 | 9/20/2023 | 1 | 0.066 | 0.005 | 0.05 | ug/l | 0.005 | 0.05 |
| 3,4-Dinitrotoluene | 374 | PBM-0008 | 9/20/2023 | 1 | 0.18 | 0.005 | 0.05 | ug/l | | |
| 3,5-Dinitrotoluene | 374 | PBM-0008 | 9/20/2023 | 1 | 0.072 | 0.005 | 0.05 | ug/l | | |
| Carbon tetrachloride | 374 | PBM-0008 | 9/20/2023 | 1 | 0.39 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Total Dinitrotoluenes | 374 | PBM-0008 | 9/20/2023 | 1 | 0.779 | 0.008 | 0.05 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 374 | PBM-0008 | 9/20/2023 | 1 | 0.56 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 1,1,1-Trichloroethane | 544 | PBN-2301B | 9/26/2023 | 1 | 0.21 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Carbon tetrachloride | 544 | PBN-2301B | 9/26/2023 | 1 | 2.3 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 544 | PBN-2301B | 9/26/2023 | 1 | 0.25 | 0.1 | 0.2 | ug/l | 0.6 | 6 |

| Parameter Name | Well | Well Name | Date | Dup | Result | LOD | LOQ | Units | PAL | ES |
|-----------------------|------|-----------|-----------|-----|--------|--------|-------|-------|-------|------|
| 1,1,1-Trichloroethane | 545 | PBN-2301C | 9/26/2023 | 2 | 0.42 | 0.1 | 0.2 | ug/l | 40 | 200 |
| 1,1,1-Trichloroethane | 545 | PBN-2301C | 9/26/2023 | 1 | 0.3 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Carbon tetrachloride | 545 | PBN-2301C | 9/26/2023 | 2 | 2.7 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 545 | PBN-2301C | 9/26/2023 | 1 | 2 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 545 | PBN-2301C | 9/26/2023 | 2 | 0.36 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Chloroform | 545 | PBN-2301C | 9/26/2023 | 1 | 0.25 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| 1,1-Dichloroethane | 546 | PBN-2301D | 9/26/2023 | 1 | 0.2 | 0.1 | 0.2 | ug/l | 85 | 850 |
| Ethyl ether | 546 | PBN-2301D | 9/26/2023 | 1 | 0.8 | 0.1 | 0.2 | ug/l | 100 | 1000 |
| Carbon tetrachloride | 592 | PBN-1003C | 9/21/2023 | 1 | 0.15 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 1,1,1-Trichloroethane | 595 | PBN-1001C | 9/19/2023 | 1 | 0.11 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Bromodichloromethane | 595 | PBN-1001C | 9/19/2023 | 1 | 0.19 | 0.1 | 0.2 | ug/l | 0.06 | 0.6 |
| Carbon tetrachloride | 595 | PBN-1001C | 9/19/2023 | 1 | 0.74 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 595 | PBN-1001C | 9/19/2023 | 1 | 1.2 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Trichloroethene | 595 | PBN-1001C | 9/19/2023 | 1 | 0.22 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 2,3-Dinitrotoluene | 613 | PBN-8202A | 9/20/2023 | 1 | 1.9 | 0.0058 | 0.048 | ug/l | | |
| 2,4-Dinitrotoluene | 613 | PBN-8202A | 9/20/2023 | 1 | 0.11 | 0.0077 | 0.048 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 613 | PBN-8202A | 9/20/2023 | 1 | 0.11 | 0.0048 | 0.048 | ug/l | 0.005 | 0.05 |
| 3,4-Dinitrotoluene | 613 | PBN-8202A | 9/20/2023 | 1 | 0.3 | 0.0048 | 0.048 | ug/l | | |
| 3,5-Dinitrotoluene | 613 | PBN-8202A | 9/20/2023 | 1 | 0.32 | 0.0048 | 0.048 | ug/l | | |
| Carbon tetrachloride | 613 | PBN-8202A | 9/20/2023 | 1 | 0.36 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Total Dinitrotoluenes | 613 | PBN-8202A | 9/20/2023 | 1 | 2.74 | 0.0077 | 0.048 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 613 | PBN-8202A | 9/20/2023 | 1 | 0.45 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 2,3-Dinitrotoluene | 614 | PBN-8202B | 9/20/2023 | 1 | 4.2 | 0.03 | 0.25 | ug/l | | |
| 3,4-Dinitrotoluene | 614 | PBN-8202B | 9/20/2023 | 1 | 0.32 | 0.025 | 0.25 | ug/l | | |
| 3,5-Dinitrotoluene | 614 | PBN-8202B | 9/20/2023 | 1 | 0.44 | 0.025 | 0.25 | ug/l | | |
| Carbon tetrachloride | 614 | PBN-8202B | 9/20/2023 | 1 | 0.46 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Total Dinitrotoluenes | 614 | PBN-8202B | 9/20/2023 | 1 | 4.96 | 0.008 | 0.05 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 614 | PBN-8202B | 9/20/2023 | 1 | 0.7 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 2,3-Dinitrotoluene | 615 | PBN-8202C | 9/20/2023 | 1 | 0.11 | 0.0058 | 0.049 | ug/l | | |
| 2,4-Dinitrotoluene | 615 | PBN-8202C | 9/20/2023 | 1 | 0.034 | 0.0078 | 0.049 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 615 | PBN-8202C | 9/20/2023 | 1 | 0.053 | 0.0049 | 0.049 | ug/l | 0.005 | 0.05 |
| 3,4-Dinitrotoluene | 615 | PBN-8202C | 9/20/2023 | 1 | 0.022 | 0.0049 | 0.049 | ug/l | | |
| 3,5-Dinitrotoluene | 615 | PBN-8202C | 9/20/2023 | 1 | 0.034 | 0.0049 | 0.049 | ug/l | | |
| Total Dinitrotoluenes | 615 | PBN-8202C | 9/20/2023 | 1 | 0.253 | 0.0078 | 0.049 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 615 | PBN-8202C | 9/20/2023 | 1 | 0.19 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 1,1,1-Trichloroethane | 622 | PBN-8205A | 9/20/2023 | 1 | 0.15 | 0.1 | 0.2 | ug/l | 40 | 200 |
| 2,3-Dinitrotoluene | 622 | PBN-8205A | 9/20/2023 | 1 | 0.29 | 0.0057 | 0.048 | ug/l | | |
| 2,4-Dinitrotoluene | 622 | PBN-8205A | 9/20/2023 | 1 | 0.025 | 0.0076 | 0.048 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 622 | PBN-8205A | 9/20/2023 | 1 | 0.071 | 0.0048 | 0.048 | ug/l | 0.005 | 0.05 |
| 3,4-Dinitrotoluene | 622 | PBN-8205A | 9/20/2023 | 1 | 0.12 | 0.0048 | 0.048 | ug/l | | |
| 3,5-Dinitrotoluene | 622 | PBN-8205A | 9/20/2023 | 1 | 0.054 | 0.0048 | 0.048 | ug/l | | |
| Carbon tetrachloride | 622 | PBN-8205A | 9/20/2023 | 1 | 1.7 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Total Dinitrotoluenes | 622 | PBN-8205A | 9/20/2023 | 1 | 0.56 | 0.0076 | 0.048 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 622 | PBN-8205A | 9/20/2023 | 1 | 0.33 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 1,1,1-Trichloroethane | 623 | PBN-8205B | 9/20/2023 | 1 | 0.18 | 0.1 | 0.2 | ug/l | 40 | 200 |
| 2,3-Dinitrotoluene | 623 | PBN-8205B | 9/20/2023 | 1 | 0.27 | 0.0059 | 0.049 | ug/l | | |
| 2,4-Dinitrotoluene | 623 | PBN-8205B | 9/20/2023 | 1 | 0.023 | 0.0078 | 0.049 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 623 | PBN-8205B | 9/20/2023 | 1 | 0.068 | 0.0049 | 0.049 | ug/l | 0.005 | 0.05 |
| 3,4-Dinitrotoluene | 623 | PBN-8205B | 9/20/2023 | 1 | 0.11 | 0.0049 | 0.049 | ug/l | | |
| 3,5-Dinitrotoluene | 623 | PBN-8205B | 9/20/2023 | 1 | 0.052 | 0.0049 | 0.049 | ug/l | | |
| Carbon tetrachloride | 623 | PBN-8205B | 9/20/2023 | 1 | 2 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Total Dinitrotoluenes | 623 | PBN-8205B | 9/20/2023 | 1 | 0.523 | 0.0078 | 0.049 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 623 | PBN-8205B | 9/20/2023 | 1 | 0.46 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 2,3-Dinitrotoluene | 624 | PBN-8205C | 9/20/2023 | 1 | 0.2 | 0.006 | 0.05 | ug/l | | |
| 2,6-Dinitrotoluene | 624 | PBN-8205C | 9/20/2023 | 1 | 0.06 | 0.005 | 0.05 | ug/l | 0.005 | 0.05 |
| 3,4-Dinitrotoluene | 624 | PBN-8205C | 9/20/2023 | 1 | 0.097 | 0.005 | 0.05 | ug/l | | |
| 3,5-Dinitrotoluene | 624 | PBN-8205C | 9/20/2023 | 1 | 0.043 | 0.005 | 0.05 | ug/l | | |

| Parameter Name | Well | Well Name | Date | Dup | Result | LOD | LOQ | Units | PAL | ES |
|-----------------------|------|-----------|-----------|-----|--------|--------|-------|-------|-------|------|
| Carbon tetrachloride | 624 | PBN-8205C | 9/20/2023 | 1 | 0.33 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Total Dinitrotoluenes | 624 | PBN-8205C | 9/20/2023 | 1 | 0.4 | 0.008 | 0.05 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 624 | PBN-8205C | 9/20/2023 | 1 | 0.27 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 1,1,1-Trichloroethane | 632 | PBN-8502A | 9/21/2023 | 1 | 0.34 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Carbon tetrachloride | 632 | PBN-8502A | 9/21/2023 | 1 | 6.2 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 632 | PBN-8502A | 9/21/2023 | 1 | 0.1 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Trichloroethene | 632 | PBN-8502A | 9/21/2023 | 1 | 0.85 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 633 | PBN-8503A | 9/20/2023 | 1 | 0.98 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 637 | PBM-8907 | 9/21/2023 | 1 | 0.11 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 1,1,1-Trichloroethane | 645 | PBN-8902C | 9/21/2023 | 1 | 0.1 | 0.1 | 0.2 | ug/l | 40 | 200 |
| 2,3-Dinitrotoluene | 645 | PBN-8902C | 9/21/2023 | 1 | 0.06 | 0.0058 | 0.048 | ug/l | | |
| 2,6-Dinitrotoluene | 645 | PBN-8902C | 9/21/2023 | 1 | 0.024 | 0.0048 | 0.048 | ug/l | 0.005 | 0.05 |
| 3,4-Dinitrotoluene | 645 | PBN-8902C | 9/21/2023 | 1 | 0.016 | 0.0048 | 0.048 | ug/l | | |
| Carbon tetrachloride | 645 | PBN-8902C | 9/21/2023 | 1 | 1.2 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Total Dinitrotoluenes | 645 | PBN-8902C | 9/21/2023 | 1 | 0.1 | 0.0077 | 0.048 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 645 | PBN-8902C | 9/21/2023 | 1 | 0.48 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 646 | PBN-8903B | 9/20/2023 | 1 | 0.69 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 1,1-Dichloroethane | 653 | PBN-8910D | 9/20/2023 | 1 | 0.15 | 0.1 | 0.2 | ug/l | 85 | 850 |
| Benzene | 655 | PBN-8912B | 9/19/2023 | 1 | 0.13 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 655 | PBN-8912B | 9/19/2023 | 1 | 0.37 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| m & p-Xylene | 655 | PBN-8912B | 9/19/2023 | 1 | 0.34 | 0.2 | 0.4 | ug/l | 400 | 2000 |
| o-Xylene | 655 | PBN-8912B | 9/19/2023 | 1 | 0.24 | 0.1 | 0.2 | ug/l | 400 | 2000 |
| Tetrachloroethene | 655 | PBN-8912B | 9/19/2023 | 1 | 0.12 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Toluene | 655 | PBN-8912B | 9/19/2023 | 1 | 2.6 | 0.1 | 0.2 | ug/l | 160 | 800 |
| Trichloroethene | 655 | PBN-8912B | 9/19/2023 | 1 | 0.44 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 665 | PBN-9112C | 9/19/2023 | 1 | 0.15 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 665 | PBN-9112C | 9/19/2023 | 1 | 0.12 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Trichloroethene | 665 | PBN-9112C | 9/19/2023 | 1 | 0.12 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 1,1,1-Trichloroethane | 668 | PBN-9301B | 9/21/2023 | 1 | 0.11 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Carbon tetrachloride | 668 | PBN-9301B | 9/21/2023 | 1 | 1.7 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 668 | PBN-9301B | 9/21/2023 | 1 | 0.27 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Trichloroethene | 668 | PBN-9301B | 9/21/2023 | 1 | 0.14 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 1,1,1-Trichloroethane | 669 | PBN-9301C | 9/21/2023 | 1 | 0.36 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Bromodichloromethane | 669 | PBN-9301C | 9/21/2023 | 1 | 0.18 | 0.1 | 0.2 | ug/l | 0.06 | 0.6 |
| Carbon tetrachloride | 669 | PBN-9301C | 9/21/2023 | 1 | 0.67 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 669 | PBN-9301C | 9/21/2023 | 1 | 1.5 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Trichloroethene | 669 | PBN-9301C | 9/21/2023 | 1 | 0.16 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 1,1,1-Trichloroethane | 673 | PBN-9303B | 9/19/2023 | 1 | 0.3 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Carbon tetrachloride | 673 | PBN-9303B | 9/19/2023 | 1 | 3.7 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 673 | PBN-9303B | 9/19/2023 | 1 | 0.53 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Trichloroethene | 673 | PBN-9303B | 9/19/2023 | 1 | 0.16 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 1,1,1-Trichloroethane | 674 | PBN-9303C | 9/19/2023 | 1 | 1.2 | 0.1 | 0.2 | ug/l | 40 | 200 |
| 1,1-Dichloroethene | 674 | PBN-9303C | 9/19/2023 | 1 | 0.12 | 0.1 | 0.2 | ug/l | 0.7 | 7 |
| Carbon tetrachloride | 674 | PBN-9303C | 9/19/2023 | 1 | 2 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 674 | PBN-9303C | 9/19/2023 | 1 | 0.99 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Trichloroethene | 674 | PBN-9303C | 9/19/2023 | 1 | 0.21 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 1,1-Dichloroethane | 675 | PBN-9303D | 9/19/2023 | 1 | 0.93 | 0.1 | 0.2 | ug/l | 85 | 850 |
| 1,1-Dichloroethene | 675 | PBN-9303D | 9/19/2023 | 1 | 0.12 | 0.1 | 0.2 | ug/l | 0.7 | 7 |
| Carbon disulfide | 675 | PBN-9303D | 9/19/2023 | 1 | 0.66 | 0.2 | 0.4 | ug/l | 200 | 1000 |
| Ethyl ether | 675 | PBN-9303D | 9/19/2023 | 1 | 32 | 0.5 | 1 | ug/l | 100 | 1000 |
| 1,1,1-Trichloroethane | 770 | PBN-1302A | 9/18/2023 | 1 | 0.2 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Carbon tetrachloride | 770 | PBN-1302A | 9/18/2023 | 1 | 3.5 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 770 | PBN-1302A | 9/18/2023 | 1 | 0.35 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Trichloroethene | 770 | PBN-1302A | 9/18/2023 | 1 | 0.16 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 1,1,1-Trichloroethane | 771 | PBN-1302B | 9/18/2023 | 1 | 0.21 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Carbon tetrachloride | 771 | PBN-1302B | 9/18/2023 | 1 | 4 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 771 | PBN-1302B | 9/18/2023 | 1 | 0.44 | 0.1 | 0.2 | ug/l | 0.6 | 6 |

| Parameter Name | Well | Well Name | Date | Dup | Result | LOD | LOQ | Units | PAL | ES |
|-----------------------|------|-----------|-----------|-----|--------|--------|-------|-------|-------|------|
| Trichloroethene | 771 | PBN-1302B | 9/18/2023 | 1 | 0.33 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 1,1,1-Trichloroethane | 772 | PBN-1302C | 9/18/2023 | 1 | 0.98 | 0.1 | 0.2 | ug/l | 40 | 200 |
| 1,1-Dichloroethene | 772 | PBN-1302C | 9/18/2023 | 1 | 0.12 | 0.1 | 0.2 | ug/l | 0.7 | 7 |
| Carbon tetrachloride | 772 | PBN-1302C | 9/18/2023 | 1 | 2.4 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 772 | PBN-1302C | 9/18/2023 | 1 | 0.81 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| 1,1,1-Trichloroethane | 774 | PBN-1303A | 9/18/2023 | 1 | 0.38 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Carbon tetrachloride | 774 | PBN-1303A | 9/18/2023 | 1 | 1.7 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 774 | PBN-1303A | 9/18/2023 | 1 | 0.28 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| 1,1,1-Trichloroethane | 775 | PBN-1303B | 9/18/2023 | 2 | 0.39 | 0.1 | 0.2 | ug/l | 40 | 200 |
| 1,1,1-Trichloroethane | 775 | PBN-1303B | 9/18/2023 | 1 | 0.41 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Carbon tetrachloride | 775 | PBN-1303B | 9/18/2023 | 1 | 2 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 775 | PBN-1303B | 9/18/2023 | 2 | 1.9 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 775 | PBN-1303B | 9/18/2023 | 1 | 0.3 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Chloroform | 775 | PBN-1303B | 9/18/2023 | 2 | 0.28 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| 1,1,1-Trichloroethane | 776 | PBN-1303C | 9/21/2023 | 1 | 0.6 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Carbon tetrachloride | 776 | PBN-1303C | 9/21/2023 | 1 | 1.7 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 776 | PBN-1303C | 9/21/2023 | 1 | 0.44 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| 1,1-Dichloroethane | 777 | PBN-1303D | 9/18/2023 | 1 | 0.44 | 0.1 | 0.2 | ug/l | 85 | 850 |
| Ethyl ether | 777 | PBN-1303D | 9/18/2023 | 1 | 0.74 | 0.1 | 0.2 | ug/l | 100 | 1000 |
| 1,1,1-Trichloroethane | 778 | PBN-1304A | 9/18/2023 | 1 | 0.25 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Carbon tetrachloride | 778 | PBN-1304A | 9/18/2023 | 1 | 0.44 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 778 | PBN-1304A | 9/18/2023 | 1 | 0.14 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| 1,1,1-Trichloroethane | 779 | PBN-1304B | 9/18/2023 | 1 | 0.35 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Carbon tetrachloride | 779 | PBN-1304B | 9/18/2023 | 1 | 0.71 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 779 | PBN-1304B | 9/18/2023 | 1 | 0.25 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| 1,1,1-Trichloroethane | 780 | PBN-1304C | 9/18/2023 | 1 | 0.39 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Carbon tetrachloride | 780 | PBN-1304C | 9/18/2023 | 1 | 0.76 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 780 | PBN-1304C | 9/18/2023 | 1 | 0.23 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| 1,1-Dichloroethane | 781 | PBN-1304D | 9/18/2023 | 1 | 0.3 | 0.1 | 0.2 | ug/l | 85 | 850 |
| 2,3-Dinitrotoluene | 782 | PBN-1401A | 9/20/2023 | 1 | 0.21 | 0.0058 | 0.049 | ug/l | | |
| 2,4-Dinitrotoluene | 782 | PBN-1401A | 9/20/2023 | 1 | 0.02 | 0.0078 | 0.049 | ug/l | 0.005 | 0.05 |
| 2,5-Dinitrotoluene | 782 | PBN-1401A | 9/20/2023 | 1 | 0.015 | 0.0049 | 0.049 | ug/l | | |
| 2,6-Dinitrotoluene | 782 | PBN-1401A | 9/20/2023 | 1 | 0.054 | 0.0049 | 0.049 | ug/l | 0.005 | 0.05 |
| 3,4-Dinitrotoluene | 782 | PBN-1401A | 9/20/2023 | 1 | 0.054 | 0.0049 | 0.049 | ug/l | | |
| 3,5-Dinitrotoluene | 782 | PBN-1401A | 9/20/2023 | 1 | 0.026 | 0.0049 | 0.049 | ug/l | | |
| Total Dinitrotoluenes | 782 | PBN-1401A | 9/20/2023 | 1 | 0.379 | 0.0078 | 0.049 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 782 | PBN-1401A | 9/20/2023 | 1 | 0.15 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 2,3-Dinitrotoluene | 783 | PBN-1401B | 9/20/2023 | 1 | 0.37 | 0.0058 | 0.048 | ug/l | | |
| 2,3-Dinitrotoluene | 783 | PBN-1401B | 9/20/2023 | 2 | 0.33 | 0.0059 | 0.05 | ug/l | | |
| 2,4-Dinitrotoluene | 783 | PBN-1401B | 9/20/2023 | 2 | 0.023 | 0.0079 | 0.05 | ug/l | 0.005 | 0.05 |
| 2,4-Dinitrotoluene | 783 | PBN-1401B | 9/20/2023 | 1 | 0.024 | 0.0077 | 0.048 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 783 | PBN-1401B | 9/20/2023 | 2 | 0.06 | 0.005 | 0.05 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 783 | PBN-1401B | 9/20/2023 | 1 | 0.059 | 0.0048 | 0.048 | ug/l | 0.005 | 0.05 |
| 3,4-Dinitrotoluene | 783 | PBN-1401B | 9/20/2023 | 1 | 0.053 | 0.0048 | 0.048 | ug/l | | |
| 3,4-Dinitrotoluene | 783 | PBN-1401B | 9/20/2023 | 2 | 0.051 | 0.005 | 0.05 | ug/l | | |
| 3,5-Dinitrotoluene | 783 | PBN-1401B | 9/20/2023 | 1 | 0.031 | 0.0048 | 0.048 | ug/l | | |
| 3,5-Dinitrotoluene | 783 | PBN-1401B | 9/20/2023 | 2 | 0.029 | 0.005 | 0.05 | ug/l | | |
| Total Dinitrotoluenes | 783 | PBN-1401B | 9/20/2023 | 2 | 0.493 | 0.0079 | 0.05 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 783 | PBN-1401B | 9/20/2023 | 1 | 0.537 | 0.0077 | 0.048 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 783 | PBN-1401B | 9/20/2023 | 2 | 0.11 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Trichloroethene | 783 | PBN-1401B | 9/20/2023 | 1 | 0.11 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 1,1,1-Trichloroethane | 791 | PBN-1404B | 9/19/2023 | 1 | 0.19 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Carbon disulfide | 791 | PBN-1404B | 9/19/2023 | 1 | 0.2 | 0.2 | 0.4 | ug/l | 200 | 1000 |
| Carbon tetrachloride | 791 | PBN-1404B | 9/19/2023 | 1 | 2.8 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 791 | PBN-1404B | 9/19/2023 | 1 | 0.46 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Trichloroethene | 791 | PBN-1404B | 9/19/2023 | 1 | 0.54 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 1,1,1-Trichloroethane | 792 | PBN-1404C | 9/19/2023 | 1 | 0.11 | 0.1 | 0.2 | ug/l | 40 | 200 |

| Parameter Name | Well | Well Name | Date | Dup | Result | LOD | LOQ | Units | PAL | ES |
|-----------------------|------|------------|-----------|-----|--------|-----|-----|-------|------|------|
| 1,1,1-Trichloroethane | 792 | PBN-1404C | 9/19/2023 | 2 | 0.11 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Bromodichloromethane | 792 | PBN-1404C | 9/19/2023 | 2 | 0.13 | 0.1 | 0.2 | ug/l | 0.06 | 0.6 |
| Bromodichloromethane | 792 | PBN-1404C | 9/19/2023 | 1 | 0.13 | 0.1 | 0.2 | ug/l | 0.06 | 0.6 |
| Carbon tetrachloride | 792 | PBN-1404C | 9/19/2023 | 1 | 0.37 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 792 | PBN-1404C | 9/19/2023 | 2 | 0.41 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 792 | PBN-1404C | 9/19/2023 | 1 | 0.97 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Chloroform | 792 | PBN-1404C | 9/19/2023 | 2 | 0.96 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Trichloroethene | 792 | PBN-1404C | 9/19/2023 | 1 | 0.2 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Trichloroethene | 792 | PBN-1404C | 9/19/2023 | 2 | 0.18 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Carbon disulfide | 793 | PBN-1404D | 9/19/2023 | 1 | 0.68 | 0.2 | 0.4 | ug/l | 200 | 1000 |
| Ethyl ether | 793 | PBN-1404D | 9/19/2023 | 1 | 75 | 1 | 2 | ug/l | 100 | 1000 |
| 1,1,1-Trichloroethane | 795 | PBN-8902BR | 9/21/2023 | 2 | 0.14 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Carbon tetrachloride | 795 | PBN-8902BR | 9/21/2023 | 1 | 0.94 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 795 | PBN-8902BR | 9/21/2023 | 2 | 2 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 795 | PBN-8902BR | 9/21/2023 | 2 | 0.13 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Trichloroethene | 795 | PBN-8902BR | 9/21/2023 | 1 | 0.29 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Trichloroethene | 795 | PBN-8902BR | 9/21/2023 | 2 | 0.57 | 0.1 | 0.2 | ug/l | 0.5 | 5 |

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 - Deterrent Burning Grounds | 03037 | 157065260 | 9/11 & 9/12/23 |

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

September 2023

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

11/3/23

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 3037
Deterrent Burning Grounds
September 2023
Badger Army Ammunition Plant

Groundwater is currently being monitored by the facility because of past production activities. Twelve (12) wells were sampled to assist with determining the degree and lateral extent of dinitrotoluene (DNT) in the Deterrent Burning Ground Plume.

2,6-DNT exceeded the Enforcement Standard (ES) in DBM-8201 (301). Total DNT exceeded the ES in DBM-8201 (301), DBM-8202 (302), DBN-1001B (472), and DBN-1002C (476).

2,6-DNT exceeded the Preventive Action Limit (PAL) in DBM-8202 (302).

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

September 2023

Report Date: 11/3/2023

| Parameter Name | Lic No. | Well No. | Well Name | Date | Dup | Result | Units | PAL | ES |
|-----------------------|----------------|-----------------|------------------|-------------|------------|---------------|--------------|------------|-----------|
| 2,6-Dinitrotoluene | 3037 | 301 | DBM-8201 | 9/12/2023 | 1 | 0.075 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 3037 | 301 | DBM-8201 | 9/12/2023 | 1 | 2.355 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 3037 | 302 | DBM-8202 | 9/12/2023 | 1 | 0.021 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 3037 | 302 | DBM-8202 | 9/12/2023 | 1 | 0.216 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 3037 | 472 | DBN-1001B | 9/12/2023 | 1 | 0.213 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 3037 | 472 | DBN-1001B | 9/12/2023 | 2 | 0.167 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 3037 | 476 | DBN-1002C | 9/11/2023 | 1 | 0.341 | ug/l | 0.005 | 0.05 |

Badger Army Ammunition Plant

SpecPro Professional Services, LLC

September 2023

GROUNDWATER MONITORING ALL HITS REPORT

License No: 3037

Report Date: 11/3/2023

| Parameter Name | Well | Well Name | Date | Dup | Result | LOD | LOQ | Units | PAL | ES |
|-----------------------|------|-----------|-----------|-----|--------|--------|-------|-------|-------|------|
| 2,3-Dinitrotoluene | 301 | DBM-8201 | 9/12/2023 | 1 | 1.4 | 0.006 | 0.05 | ug/l | | |
| 2,6-Dinitrotoluene | 301 | DBM-8201 | 9/12/2023 | 1 | 0.075 | 0.005 | 0.05 | ug/l | 0.005 | 0.05 |
| 3,4-Dinitrotoluene | 301 | DBM-8201 | 9/12/2023 | 1 | 0.31 | 0.005 | 0.05 | ug/l | | |
| 3,5-Dinitrotoluene | 301 | DBM-8201 | 9/12/2023 | 1 | 0.57 | 0.005 | 0.05 | ug/l | | |
| Total Dinitrotoluenes | 301 | DBM-8201 | 9/12/2023 | 1 | 2.355 | 0.008 | 0.05 | ug/l | 0.005 | 0.05 |
| 2,3-Dinitrotoluene | 302 | DBM-8202 | 9/12/2023 | 1 | 0.12 | 0.0057 | 0.048 | ug/l | | |
| 2,6-Dinitrotoluene | 302 | DBM-8202 | 9/12/2023 | 1 | 0.021 | 0.0048 | 0.048 | ug/l | 0.005 | 0.05 |
| 3,4-Dinitrotoluene | 302 | DBM-8202 | 9/12/2023 | 1 | 0.03 | 0.0048 | 0.048 | ug/l | | |
| 3,5-Dinitrotoluene | 302 | DBM-8202 | 9/12/2023 | 1 | 0.045 | 0.0048 | 0.048 | ug/l | | |
| Total Dinitrotoluenes | 302 | DBM-8202 | 9/12/2023 | 1 | 0.216 | 0.0076 | 0.048 | ug/l | 0.005 | 0.05 |
| 2,3-Dinitrotoluene | 472 | DBN-1001B | 9/12/2023 | 1 | 0.073 | 0.0058 | 0.048 | ug/l | | |
| 2,3-Dinitrotoluene | 472 | DBN-1001B | 9/12/2023 | 2 | 0.057 | 0.0058 | 0.048 | ug/l | | |
| 3,4-Dinitrotoluene | 472 | DBN-1001B | 9/12/2023 | 2 | 0.11 | 0.0048 | 0.048 | ug/l | | |
| 3,4-Dinitrotoluene | 472 | DBN-1001B | 9/12/2023 | 1 | 0.14 | 0.0048 | 0.048 | ug/l | | |
| Total Dinitrotoluenes | 472 | DBN-1001B | 9/12/2023 | 2 | 0.167 | 0.0077 | 0.048 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 472 | DBN-1001B | 9/12/2023 | 1 | 0.213 | 0.0077 | 0.048 | ug/l | 0.005 | 0.05 |
| 2,3-Dinitrotoluene | 476 | DBN-1002C | 9/11/2023 | 1 | 0.18 | 0.0058 | 0.049 | ug/l | | |
| 3,4-Dinitrotoluene | 476 | DBN-1002C | 9/11/2023 | 1 | 0.14 | 0.0049 | 0.049 | ug/l | | |
| 3,5-Dinitrotoluene | 476 | DBN-1002C | 9/11/2023 | 1 | 0.021 | 0.0049 | 0.049 | ug/l | | |
| Total Dinitrotoluenes | 476 | DBN-1002C | 9/11/2023 | 1 | 0.341 | 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@SpecProSvc.com

| Facility name: | License # / Monitoring ID | Facility ID [FID] | Actual sampling dates (e.g., July 2-6, 2003) |
|---------------------------|---------------------------|---------------------|--|
| BAAP - Southeast Boundary | 03038 | 157005530 | 9/11/23 |

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

September 2023

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 11/3/23

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 3038
Southeast Boundary
September 2023
Badger Army Ammunition Plant

Groundwater is currently being monitored by the facility because of past production activities. One well, S1121 (755), was sampled to assist with determining the degree and lateral extent of dinitrotoluene (DNT) in the Deterrent Burning Ground Plume.

No compounds were detected in S1121.

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 - Off-Site Plume Wells | 03485 & 03493 | 157005530 | 9/26/23 |

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

September 2023

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.

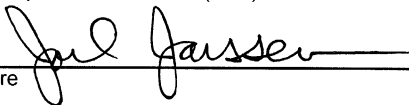
Certification

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
Facility Representative Name (Print)

Project Manager
Title

(608) 438-1110
(Area Code) Telephone No.

Signature 

Date 11/3/23

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 3485 & 3493
Off-Site Plume Wells
September 2023
Badger Army Ammunition Plant

Groundwater is currently being monitored by the facility because of past production activities. Contamination from the Propellant Burning Ground (PBG) impacts groundwater quality in wells associated with these licenses. Thirteen (13) wells were sampled to assist with determining the degree and lateral extent of dinitrotoluene (DNT) and volatile organic compounds (VOCs) in the PBG Plume.

2,6-DNT and total DNT exceeded the Preventive Action Limit (PAL) PBN-9101C (561).

Carbon tetrachloride exceeded the Enforcement Standard (ES) in PBN-9101C (561) and PBM-9001D (981). Carbon tetrachloride exceeded the PAL in SWN-9103B (571), SWN-9103D (573), SWN-9104C (575), SWN-9104D (576), and SWN-9105D (579).

Chloroform exceeded the PAL in PBN-9101C (561) and PBM-9001D (981).

Ethyl ether exceeded the ES in SWN-9103D (573). This is the second time ethyl ether has exceeded the ES in SWN-9103D.

Trichloroethene exceeded the PAL in PBN-9101C (561) and PBM-9001D (981).

VOC 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

GROUNDWATER MONITORING EXCEEDANCE REPORT

September 2023

Report Date: 11/3/2023

| Parameter Name | Lic No. | Well No. | Well Name | Date | Dup | Result | Units | PAL | ES |
|-----------------------|----------------|-----------------|------------------|-------------|------------|---------------|--------------|------------|-----------|
| Carbon tetrachloride | 3485 | 981 | PBM-9001D | 9/26/2023 | 1 | 9 | ug/l | 0.5 | 5 |
| Chloroform | 3485 | 981 | PBM-9001D | 9/26/2023 | 1 | 0.64 | ug/l | 0.6 | 6 |
| Trichloroethene | 3485 | 981 | PBM-9001D | 9/26/2023 | 1 | 1.9 | ug/l | 0.5 | 5 |

Badger Army Ammunition Plant

SpecPro Professional Services, LLC

September 2023

GROUNDWATER MONITORING ALL HITS REPORT

License No: 3485

Report Date: 11/3/2023

| Parameter Name | Well | Well Name | Date | Dup | Result | LOD | LOQ | Units | PAL | ES |
|-----------------------|------|-----------|-----------|-----|--------|-----|-----|-------|-----|------|
| 1,1,1-Trichloroethane | 981 | PBM-9001D | 9/26/2023 | 1 | 0.14 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Carbon disulfide | 981 | PBM-9001D | 9/26/2023 | 1 | 0.21 | 0.2 | 0.4 | ug/l | 200 | 1000 |
| Carbon tetrachloride | 981 | PBM-9001D | 9/26/2023 | 1 | 9 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 981 | PBM-9001D | 9/26/2023 | 1 | 0.64 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Trichloroethene | 981 | PBM-9001D | 9/26/2023 | 1 | 1.9 | 0.1 | 0.2 | ug/l | 0.5 | 5 |

Badger Army Ammunition Plant

SpecPro Professional Services, LLC

GROUNDWATER MONITORING EXCEEDANCE REPORT

September 2023

Report Date: 11/3/2023

| Parameter Name | Lic No. | Well No. | Well Name | Date | Dup | Result | Units | PAL | ES |
|-----------------------|----------------|-----------------|------------------|-------------|------------|---------------|--------------|------------|-----------|
| 2,6-Dinitrotoluene | 3493 | 561 | PBN-9101C | 9/26/2023 | 1 | 0.026 | ug/l | 0.005 | 0.05 |
| Carbon tetrachloride | 3493 | 561 | PBN-9101C | 9/26/2023 | 1 | 13 | ug/l | 0.5 | 5 |
| Chloroform | 3493 | 561 | PBN-9101C | 9/26/2023 | 1 | 0.75 | ug/l | 0.6 | 6 |
| Total Dinitrotoluenes | 3493 | 561 | PBN-9101C | 9/26/2023 | 1 | 0.026 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 3493 | 561 | PBN-9101C | 9/26/2023 | 1 | 1.1 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 3493 | 571 | SWN-9103B | 9/26/2023 | 1 | 1 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 3493 | 573 | SWN-9103D | 9/26/2023 | 1 | 0.99 | ug/l | 0.5 | 5 |
| Ethyl ether | 3493 | 573 | SWN-9103D | 9/26/2023 | 1 | 1300 | ug/l | 100 | 1000 |
| Carbon tetrachloride | 3493 | 575 | SWN-9104C | 9/26/2023 | 1 | 3 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 3493 | 576 | SWN-9104D | 9/26/2023 | 1 | 2.7 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 3493 | 579 | SWN-9105D | 9/26/2023 | 1 | 0.58 | ug/l | 0.5 | 5 |

Badger Army Ammunition Plant

SpecPro Professional Services, LLC

September 2023

GROUNDWATER MONITORING ALL HITS REPORT

License No: 3493

Report Date: 11/3/2023

| Parameter Name | Well | Well Name | Date | Dup | Result | LOD | LOQ | Units | PAL | ES |
|-----------------------|------|-----------|-----------|-----|--------|--------|-------|-------|-------|------|
| 2,6-Dinitrotoluene | 561 | PBN-9101C | 9/26/2023 | 1 | 0.026 | 0.0048 | 0.048 | ug/l | 0.005 | 0.05 |
| Carbon disulfide | 561 | PBN-9101C | 9/26/2023 | 1 | 0.21 | 0.2 | 0.4 | ug/l | 200 | 1000 |
| Carbon tetrachloride | 561 | PBN-9101C | 9/26/2023 | 1 | 13 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 561 | PBN-9101C | 9/26/2023 | 1 | 0.75 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Total Dinitrotoluenes | 561 | PBN-9101C | 9/26/2023 | 1 | 0.026 | 0.0076 | 0.048 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 561 | PBN-9101C | 9/26/2023 | 1 | 1.1 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 1,1,1-Trichloroethane | 571 | SWN-9103B | 9/26/2023 | 1 | 0.15 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Carbon tetrachloride | 571 | SWN-9103B | 9/26/2023 | 1 | 1 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Trichloroethene | 571 | SWN-9103B | 9/26/2023 | 1 | 0.11 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 572 | SWN-9103C | 9/26/2023 | 1 | 0.13 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 573 | SWN-9103D | 9/26/2023 | 1 | 0.99 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 573 | SWN-9103D | 9/26/2023 | 1 | 0.31 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Ethyl ether | 573 | SWN-9103D | 9/26/2023 | 1 | 1300 | 20 | 40 | ug/l | 100 | 1000 |
| Trichloroethene | 573 | SWN-9103D | 9/26/2023 | 1 | 0.23 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Ethyl ether | 574 | SWN-9103E | 9/26/2023 | 1 | 0.85 | 0.1 | 0.2 | ug/l | 100 | 1000 |
| 1,1,1-Trichloroethane | 575 | SWN-9104C | 9/26/2023 | 1 | 0.34 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Carbon tetrachloride | 575 | SWN-9104C | 9/26/2023 | 1 | 3 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 575 | SWN-9104C | 9/26/2023 | 1 | 0.39 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| 1,1,1-Trichloroethane | 576 | SWN-9104D | 9/26/2023 | 1 | 0.12 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Carbon tetrachloride | 576 | SWN-9104D | 9/26/2023 | 1 | 2.7 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 576 | SWN-9104D | 9/26/2023 | 1 | 0.42 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| 1,1,1-Trichloroethane | 577 | SWN-9105B | 9/26/2023 | 1 | 0.16 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Carbon tetrachloride | 577 | SWN-9105B | 9/26/2023 | 1 | 0.45 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 577 | SWN-9105B | 9/26/2023 | 1 | 0.14 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Carbon tetrachloride | 578 | SWN-9105C | 9/26/2023 | 1 | 0.38 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 578 | SWN-9105C | 9/26/2023 | 1 | 0.27 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Carbon tetrachloride | 579 | SWN-9105D | 9/26/2023 | 1 | 0.58 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 579 | SWN-9105D | 9/26/2023 | 1 | 0.31 | 0.1 | 0.2 | ug/l | 0.6 | 6 |

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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.
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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 - Nitroglycerine Pond/Rocket Paste Area | 03487 | 157005530 | 9/12 - 9/13/23 |

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

September 2023

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 11/3/23

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
September 2023
Badger Army Ammunition Plant

Groundwater is currently being monitored by the facility because of past production activities. Seven (7) wells were sampled to assist with determining the degree and lateral extent of dinitrotoluene (DNT) in the Nitrocellulose Production Area Plume.

2,6-DNT and total DNT exceeded the Preventive Action Limit (PAL) in RIM-0705 (442) and RIN-1001A (480).

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

September 2023

Report Date: 11/3/2023

| Parameter Name | Lic No. | Well No. | Well Name | Date | Dup | Result | Units | PAL | ES |
|-----------------------|----------------|-----------------|------------------|-------------|------------|---------------|--------------|------------|-----------|
| 2,6-Dinitrotoluene | 3487 | 442 | RIM-0705 | 9/13/2023 | 1 | 0.037 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 3487 | 442 | RIM-0705 | 9/13/2023 | 1 | 0.037 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 3487 | 480 | RIN-1001A | 9/13/2023 | 1 | 0.034 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 3487 | 480 | RIN-1001A | 9/13/2023 | 1 | 0.034 | ug/l | 0.005 | 0.05 |

Badger Army Ammunition Plant

SpecPro Professional Services, LLC

September 2023

GROUNDWATER MONITORING ALL HITS REPORT

License No: 3487

Report Date: 11/3/2023

| Parameter Name | Well | Well Name | Date | Dup | Result | LOD | LOQ | Units | PAL | ES |
|-----------------------|-------------|------------------|-------------|------------|---------------|------------|------------|--------------|------------|-----------|
| 2,6-Dinitrotoluene | 442 | RIM-0705 | 9/13/2023 | 1 | 0.037 | 0.005 | 0.05 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 442 | RIM-0705 | 9/13/2023 | 1 | 0.037 | 0.0079 | 0.05 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 480 | RIN-1001A | 9/13/2023 | 1 | 0.034 | 0.0054 | 0.054 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 480 | RIN-1001A | 9/13/2023 | 1 | 0.034 | 0.0086 | 0.054 | 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 - Settling Ponds | 03499 | 157005530 | 9/18 - 9/19/23 |

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

September 2023

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 11/3/23

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 3499
Settling Ponds
September 2023
Badger Army Ammunition Plant

Groundwater is currently being monitored by the facility because of past production activities. Contamination from the Propellant Burning Ground (PBG) largely impacts groundwater quality in wells associated with this license. Eight (8) wells were sampled to assist with determining the degree and lateral extent of dinitrotoluene (DNT) and volatile organic compounds (VOCs) in the PBG Plume.

Total DNT exceeded the Enforcement Standard (ES) in SPN-8904B (720) and SPN-8904C (721). 2,6-DNT exceeded the Preventive Action Limit (PAL) in SPN-8904C (721).

Carbon tetrachloride exceeded the PAL in SPN-8903B (718), SPN-8903C (719), SPN-8904B (720), and SPN-8904C (721).

Ethyl ether exceeded the PAL in SPN-9104D (726).

Trichloroethene exceeded the PAL in SPN-8904C (721).

VOC 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

GROUNDWATER MONITORING EXCEEDANCE REPORT

September 2023

Report Date: 11/3/2023

| Parameter Name | Lic No. | Well No. | Well Name | Date | Dup | Result | Units | PAL | ES |
|-----------------------|----------------|-----------------|------------------|-------------|------------|---------------|--------------|------------|-----------|
| Carbon tetrachloride | 3499 | 718 | SPN-8903B | 9/19/2023 | 1 | 0.67 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 3499 | 719 | SPN-8903C | 9/19/2023 | 1 | 0.55 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 3499 | 720 | SPN-8904B | 9/18/2023 | 1 | 1.5 | ug/l | 0.5 | 5 |
| Total Dinitrotoluenes | 3499 | 720 | SPN-8904B | 9/18/2023 | 1 | 0.056 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 3499 | 721 | SPN-8904C | 9/18/2023 | 1 | 0.022 | ug/l | 0.005 | 0.05 |
| Carbon tetrachloride | 3499 | 721 | SPN-8904C | 9/18/2023 | 1 | 2.1 | ug/l | 0.5 | 5 |
| Total Dinitrotoluenes | 3499 | 721 | SPN-8904C | 9/18/2023 | 1 | 0.072 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 3499 | 721 | SPN-8904C | 9/18/2023 | 1 | 0.79 | ug/l | 0.5 | 5 |
| Ethyl ether | 3499 | 726 | SPN-9104D | 9/18/2023 | 1 | 390 | ug/l | 100 | 1000 |

Badger Army Ammunition Plant

SpecPro Professional Services, LLC

September 2023

GROUNDWATER MONITORING ALL HITS REPORT

License No: 3499

Report Date: 11/3/2023

| Parameter Name | Well | Well Name | Date | Dup | Result | LOD | LOQ | Units | PAL | ES |
|-----------------------|------|-----------|-----------|-----|--------|--------|-------|-------|-------|------|
| Carbon tetrachloride | 718 | SPN-8903B | 9/19/2023 | 1 | 0.67 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 719 | SPN-8903C | 9/19/2023 | 1 | 0.55 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 719 | SPN-8903C | 9/19/2023 | 1 | 0.39 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| 1,1,1-Trichloroethane | 720 | SPN-8904B | 9/18/2023 | 1 | 0.12 | 0.1 | 0.2 | ug/l | 40 | 200 |
| 2,3-Dinitrotoluene | 720 | SPN-8904B | 9/18/2023 | 1 | 0.042 | 0.0057 | 0.048 | ug/l | | |
| 3,4-Dinitrotoluene | 720 | SPN-8904B | 9/18/2023 | 1 | 0.014 | 0.0048 | 0.048 | ug/l | | |
| Carbon tetrachloride | 720 | SPN-8904B | 9/18/2023 | 1 | 1.5 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 720 | SPN-8904B | 9/18/2023 | 1 | 0.2 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Total Dinitrotoluenes | 720 | SPN-8904B | 9/18/2023 | 1 | 0.056 | 0.0076 | 0.048 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 720 | SPN-8904B | 9/18/2023 | 1 | 0.48 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 1,1,1-Trichloroethane | 721 | SPN-8904C | 9/18/2023 | 1 | 0.16 | 0.1 | 0.2 | ug/l | 40 | 200 |
| 2,3-Dinitrotoluene | 721 | SPN-8904C | 9/18/2023 | 1 | 0.034 | 0.0059 | 0.05 | ug/l | | |
| 2,6-Dinitrotoluene | 721 | SPN-8904C | 9/18/2023 | 1 | 0.022 | 0.005 | 0.05 | ug/l | 0.005 | 0.05 |
| 3,4-Dinitrotoluene | 721 | SPN-8904C | 9/18/2023 | 1 | 0.016 | 0.005 | 0.05 | ug/l | | |
| Carbon tetrachloride | 721 | SPN-8904C | 9/18/2023 | 1 | 2.1 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 721 | SPN-8904C | 9/18/2023 | 1 | 0.26 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Total Dinitrotoluenes | 721 | SPN-8904C | 9/18/2023 | 1 | 0.072 | 0.0079 | 0.05 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 721 | SPN-8904C | 9/18/2023 | 1 | 0.79 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Ethyl ether | 726 | SPN-9104D | 9/18/2023 | 1 | 390 | 10 | 20 | ug/l | 100 | 1000 |