

September 2024

Monitoring Well Groundwater Data Attachments

Badger Army Ammunition Plant

Central Plume

Deterrent Burning Ground Plume

Nitrocellulose Production Area Plume

Propellant Burning Ground Plume

List of Attachments

Figure 1 September 2024 Sampled Wells

Figure 2 Total DNT September 2024 DBG Plume

Figure 3 Total DNT September 2024 NC Plume

Figure 4 Total DNT September 2024 PBG Plume

Table 1 DNT Summary Table DBG Plume

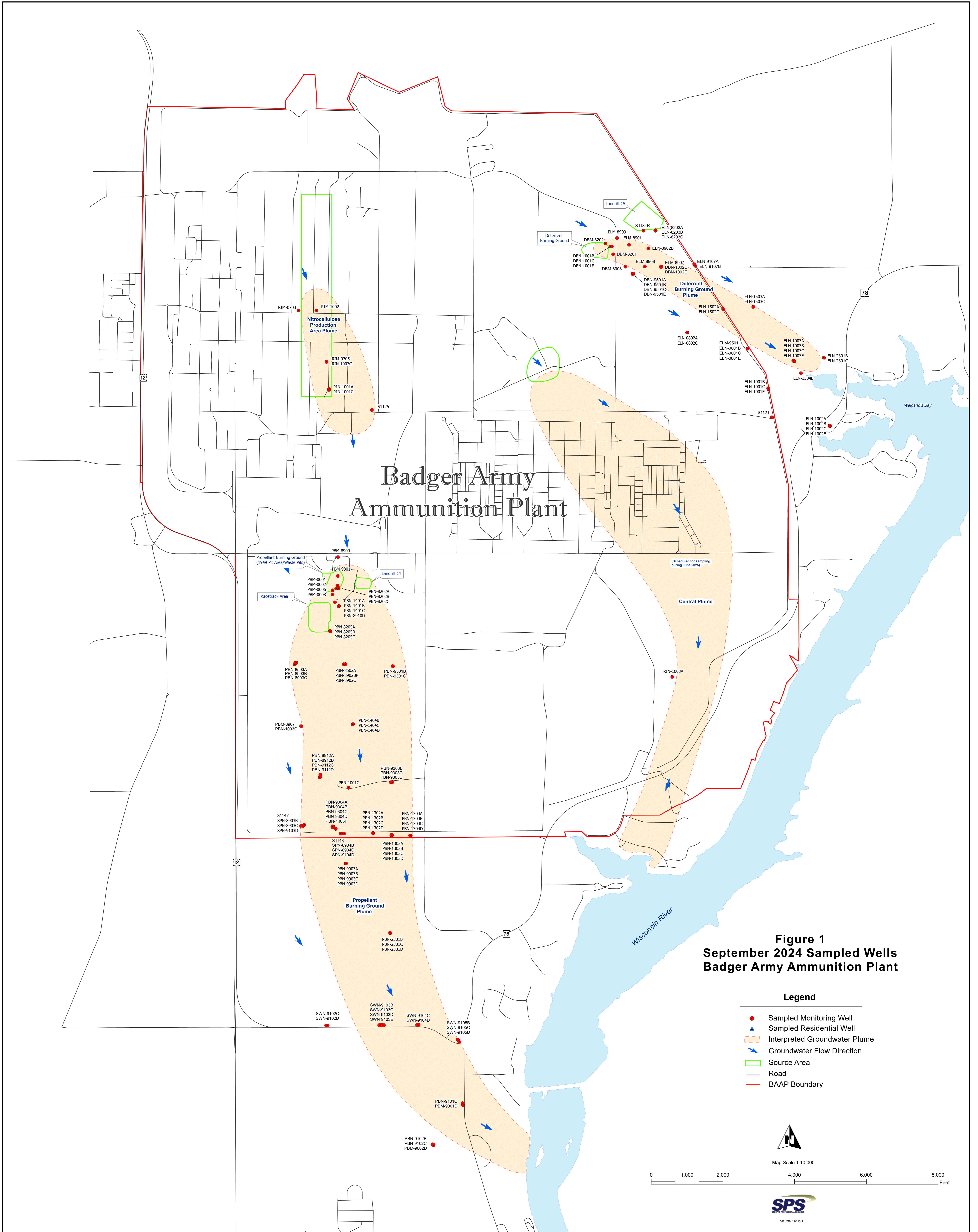
Table 2 DNT Summary Table PBG Plume

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

September 2024 Sampled Wells List

Environmental Monitoring Data Certification Forms per License Area

Groundwater Monitoring Exceedance & Hits Reports per License Area



Badger Army Ammunition Plant

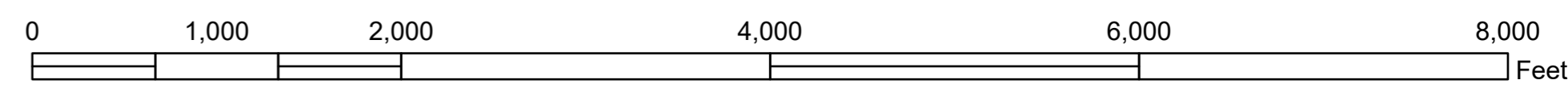
Figure 1
September 2024 Sampled Wells
Badger Army Ammunition Plant

Legend

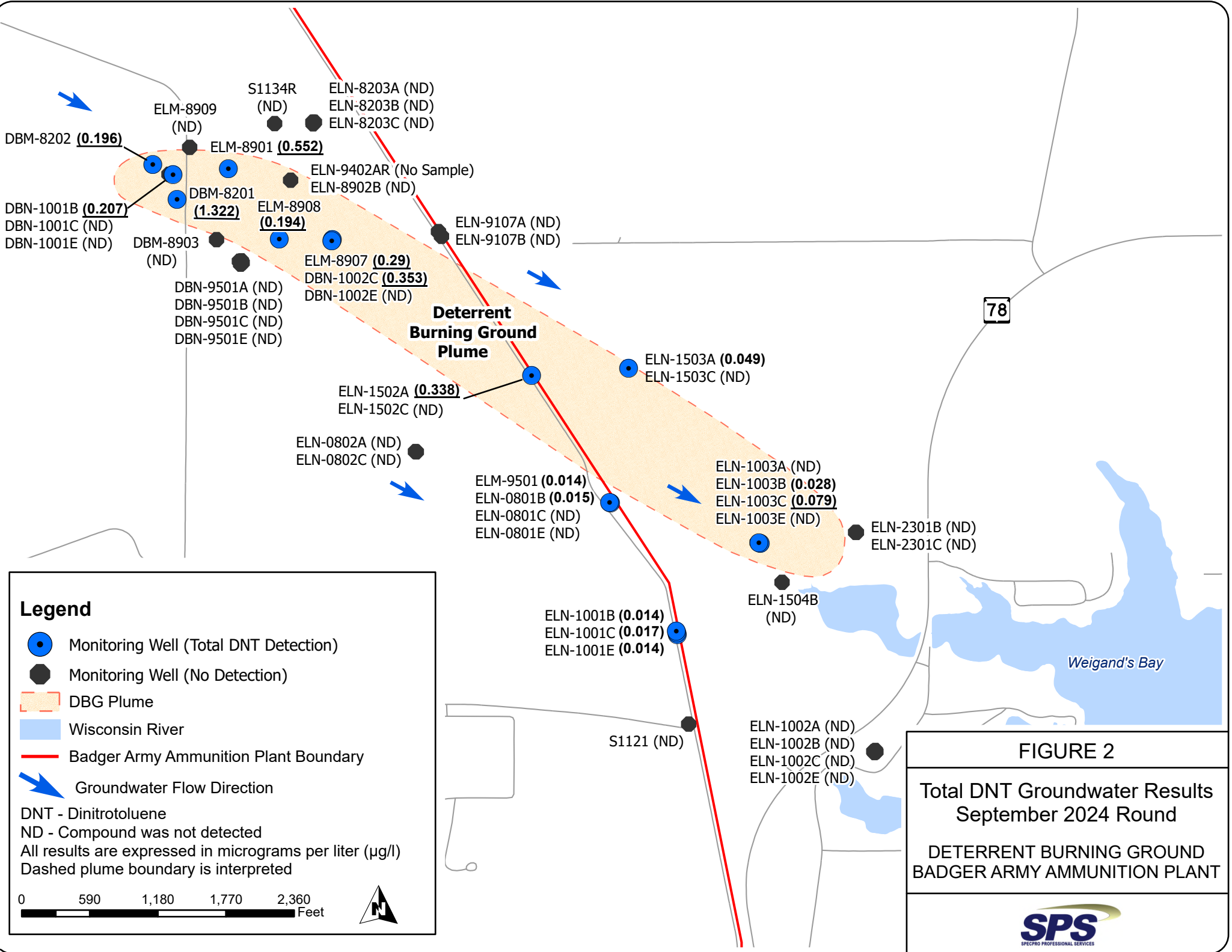
- Sampled Monitoring Well
- ▲ Sampled Residential Well
- Interpreted Groundwater Plume
- Groundwater Flow Direction
- Source Area
- Road
- BAAP Boundary

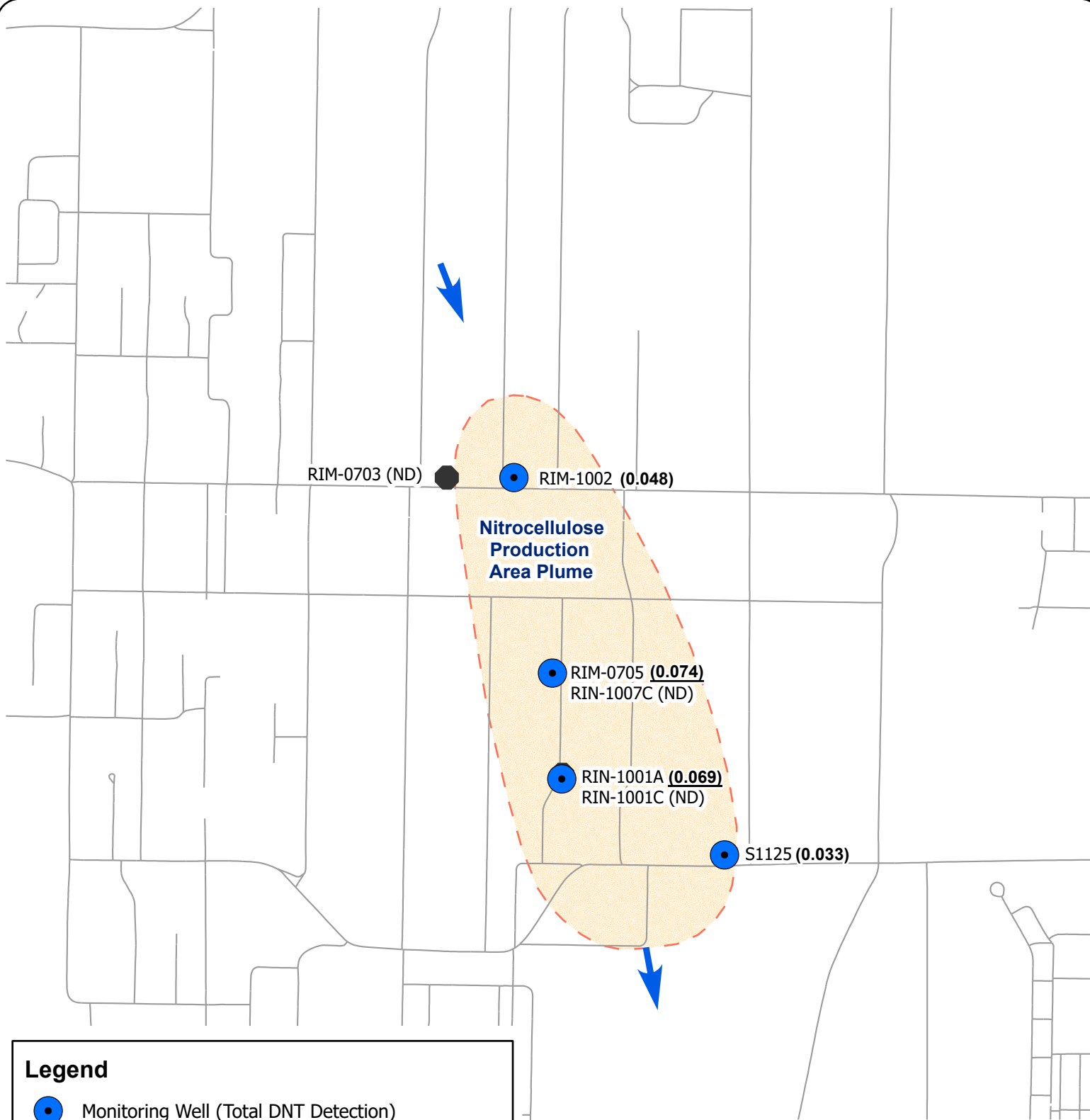


Map Scale 1:10,000







Plot Date: 11/11/24





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)
 Dashed plume boundary is interpreted

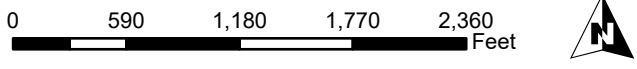
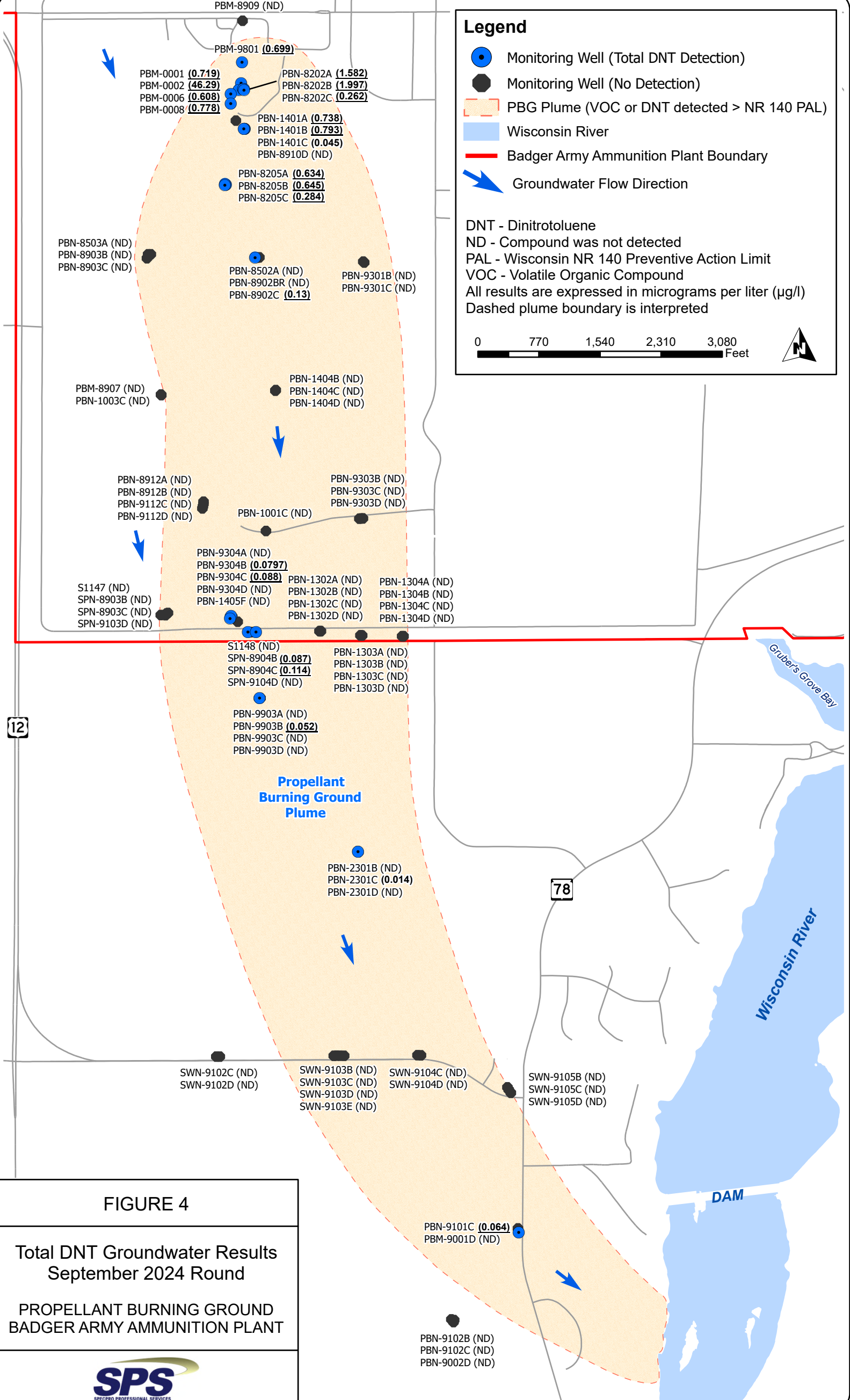


FIGURE 3
 Total DNT Groundwater Results
 September 2024 Round
 NITROCELLULOSE PRODUCTION AREA
 BADGER ARMY AMMUNITION PLANT





Legend

- Monitoring Well (Total DNT Detection)
- Monitoring Well (No Detection)
- PBG Plume (VOC or DNT detected > NR 140 PAL)
- Wisconsin River
- Badger Army Ammunition Plant Boundary
- ➔ Groundwater Flow Direction

DNT - Dinitrotoluene
 ND - Compound was not detected
 PAL - Wisconsin NR 140 Preventive Action Limit
 VOC - Volatile Organic Compound
 All results are expressed in micrograms per liter (µg/l)
 Dashed plume boundary is interpreted

0 770 1,540 2,310 3,080
 Feet

FIGURE 4

**Total DNT Groundwater Results
 September 2024 Round**

**PROPELLANT BURNING GROUND
 BADGER ARMY AMMUNITION PLANT**

PBM-8909 (ND)

PBM-9801 (**0.699**)

PBM-0001 (**0.719**)
 PBM-0002 (**46.29**)
 PBM-0006 (**0.608**)
 PBM-0008 (**0.778**)

PBN-8202A (**1.582**)
 PBN-8202B (**1.997**)
 PBN-8202C (**0.262**)

PBN-1401A (**0.738**)
 PBN-1401B (**0.793**)
 PBN-1401C (**0.045**)
 PBN-8910D (ND)

PBN-8205A (**0.634**)
 PBN-8205B (**0.645**)
 PBN-8205C (**0.284**)

PBN-8503A (ND)
 PBN-8903B (ND)
 PBN-8903C (ND)

PBN-8502A (ND)
 PBN-8902BR (ND)
 PBN-8902C (**0.13**)

PBN-9301B (ND)
 PBN-9301C (ND)

PBN-8907 (ND)
 PBN-1003C (ND)

PBN-1404B (ND)
 PBN-1404C (ND)
 PBN-1404D (ND)

PBN-8912A (ND)
 PBN-8912B (ND)
 PBN-9112C (ND)
 PBN-9112D (ND)

PBN-1001C (ND)

PBN-9303B (ND)
 PBN-9303C (ND)
 PBN-9303D (ND)

PBN-9304A (ND)
 PBN-9304B (**0.0797**)
 PBN-9304C (**0.088**)
 PBN-9304D (ND)

S1147 (ND)
 SPN-8903B (ND)
 SPN-8903C (ND)
 SPN-9103D (ND)

PBN-1302A (ND)
 PBN-1302B (ND)
 PBN-1302C (ND)
 PBN-1302D (ND)

PBN-1304A (ND)
 PBN-1304B (ND)
 PBN-1304C (ND)
 PBN-1304D (ND)

S1148 (ND)
 SPN-8904B (**0.087**)
 SPN-8904C (**0.114**)
 SPN-9104D (ND)

PBN-1303A (ND)
 PBN-1303B (ND)
 PBN-1303C (ND)
 PBN-1303D (ND)

PBN-9903A (ND)
 PBN-9903B (**0.052**)
 PBN-9903C (ND)
 PBN-9903D (ND)

**Propellant
 Burning Ground
 Plume**

PBN-2301B (ND)
 PBN-2301C (**0.014**)
 PBN-2301D (ND)

SWN-9102C (ND)
 SWN-9102D (ND)

SWN-9103B (ND)
 SWN-9103C (ND)
 SWN-9103D (ND)
 SWN-9103E (ND)

SWN-9104C (ND)
 SWN-9104D (ND)

SWN-9105B (ND)
 SWN-9105C (ND)
 SWN-9105D (ND)

PBN-9101C (**0.064**)
 PBM-9001D (ND)

PBN-9102B (ND)
 PBN-9102C (ND)
 PBN-9002D (ND)

Gruber's Grove Bay

Wisconsin River

DAM

12

78

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

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

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

| Plume | Well Name | Well ID | License | Sample Level | Date | Dinitrotoluenes | | | | | | Dinitrotoluene, Total |
|-------------|-----------|---------|---------|------------------|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-----------------------|
| | | | | | | 2,3-Dinitrotoluene | 2,4-Dinitrotoluene | 2,5-Dinitrotoluene | 2,6-Dinitrotoluene | 3,4-Dinitrotoluene | 3,5-Dinitrotoluene | |
| DBG | ELN-1003C | 469 | 2813 | C | 9/19/16 | <0.0061 | <0.0081 | <0.003 | <0.004 | <0.004 | <0.004 | <0.0081 |
| | | | | | 4/25/17 | <0.006 | <0.008 | <0.003 | 0.0085 (J) | <0.004 | <0.004 | 0.0085 (J) |
| | | | | | 9/12/17 | <0.0064 | <0.0085 | <0.0032 | <0.0043 | <0.0043 | <0.0043 | <0.0085 |
| | | | | | 4/26/18 | 0.025 (J) | 0.026 (J) | <0.003 | 0.023 (J) | <0.004 | <0.004 | 0.074 |
| | | | | | 5/14/18 | <0.0061 | <0.0081 | <0.003 | 0.029 (J) | 0.079 | <0.004 | 0.108 |
| | | | | | 6/28/18 | <0.0057 | <0.0076 | <0.0029 | <0.0038 | <0.0038 | <0.0038 | <0.0076 |
| | | | | | 6/28/18 (D) | <0.0058 | <0.0077 | <0.0029 | <0.0038 | <0.0038 | <0.0038 | <0.0077 |
| | | | | | 10/3/18 | 0.024 (J) | <0.0078 | <0.0029 | 0.0087 (J) | 0.1 | <0.0039 | 0.1327 |
| | | | | | 11/15/18 | 0.07 | <0.0078 | <0.0029 | 0.068 | 0.14 | <0.0039 | 0.278 |
| | | | | | 4/23/19 | <0.0058 | <0.0078 | <0.0029 | <0.0039 | 0.09 | <0.0039 | 0.09 |
| | | | | | 4/23/19 (D) | <0.0058 | <0.0078 | <0.0029 | <0.0039 | 0.093 | <0.0039 | 0.093 |
| | | | | | 6/13/19 | 0.028 (J) | <0.0082 | <0.0031 | 0.022 (J) | 0.11 | <0.0041 | 0.16 |
| | | | | | 9/17/19 | 0.039 | <0.0082 | <0.0031 | 0.022 (J) | 0.11 | <0.0041 | 0.171 |
| | | | | | 11/20/19 | <0.0059 | <0.0079 | <0.003 | <0.004 | 0.13 | <0.004 | 0.13 |
| | | | | | 11/20/19 (D) | <0.0059 | <0.0079 | <0.003 | <0.004 | 0.13 | <0.004 | 0.13 |
| | | | | | 5/6/20 | <0.0064 | <0.0085 | <0.0032 | <0.0043 | 0.13 | <0.0043 | 0.13 |
| | | | | | 5/6/20 (D) | <0.0064 | <0.0085 | <0.0032 | <0.0043 | 0.11 | <0.0043 | 0.11 |
| | | | | | 6/11/20 | 0.05 | <0.0084 | <0.0032 | 0.035 | 0.13 | <0.0042 | 0.215 |
| | | | | | 9/22/20 | 0.039 | <0.0078 | <0.0029 | <0.0039 | 0.13 | <0.0039 | 0.169 |
| | | | | | 11/9/20 | 0.038 | <0.0082 | <0.0031 | <0.0041 | 0.14 | <0.0041 | 0.178 |
| | | | | | 4/22/21 | 0.048 (J) | <0.0083 | <0.0052 | 0.026 (J) | 0.13 | <0.0052 | 0.204 |
| | | | | | 6/8/21 | 0.054 | <0.0084 | <0.0053 | 0.031 (J) | 0.12 | <0.0053 | 0.205 |
| | | | | | 9/30/21 | 0.037 (J) | <0.008 | <0.005 | 0.024 (J) | 0.11 | <0.005 | 0.171 |
| | | | | | 11/9/21 | 0.045 (J) | <0.0081 | <0.0051 | <0.0051 | 0.11 | <0.0051 | 0.155 |
| | | | | | 5/5/22 | 0.046 (J) | <0.0083 | <0.0052 | 0.033 (J) | 0.11 | <0.0052 | 0.189 |
| | | | | | 5/5/22 (D) | 0.045 (J) | <0.0081 | <0.0051 | <0.0051 | 0.11 | <0.0051 | 0.155 |
| | | | | | 7/7/22 | 0.044 (J) | <0.0079 | <0.005 | 0.035 (J) | 0.11 | <0.005 | 0.189 |
| | | | | | 9/26/22 | 0.028 (J) | <0.0078 | <0.0049 | <0.0049 | 0.077 | <0.0049 | 0.105 |
| | | | | | 11/9/22 | 0.047 (J) | <0.0076 | <0.0048 | 0.031 (J) | 0.13 | <0.0048 | 0.208 |
| | | | | | 11/9/22 (D) | 0.051 | <0.008 | <0.005 | 0.037 (J) | 0.13 | <0.005 | 0.218 |
| 4/25/23 | 0.042 (J) | <0.008 | <0.005 | 0.023 (J) | 0.099 | <0.005 | 0.164 | | | | | |
| 4/25/23 (D) | 0.039 (J) | <0.0077 | <0.0048 | 0.02 (J) | 0.091 | <0.0048 | 0.15 | | | | | |
| 6/27/23 | 0.032 (J) | <0.0079 | <0.005 | 0.018 (J) | 0.097 | <0.005 | 0.147 | | | | | |
| 9/13/23 | 0.012 (J) | <0.0077 | <0.0048 | <0.0048 | 0.054 | <0.0048 | 0.066 | | | | | |
| 11/14/23 | 0.036 (J) | <0.0078 | <0.0049 | <0.0049 | 0.08 | <0.0048 | 0.116 | | | | | |
| 4/10/24 | 0.011 (J) | <0.0078 | <0.0049 | <0.0049 | 0.055 | <0.0049 | 0.066 | | | | | |
| 6/12/24 | 0.018 (J) | <0.0078 | <0.0049 | <0.0049 | 0.06 | <0.0049 | 0.078 | | | | | |
| 9/11/24 | 0.019 (J) | <0.0078 | <0.0049 | <0.0049 | 0.06 | <0.0049 | 0.079 | | | | | |

**Table 1
2016 - 2024 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> |
| 4/8/24 | 0.072 | <0.0078 | <0.0049 | <0.0049 | 0.16 | 0.013 (J) | <u>0.245</u> | | | | | |
| 4/8/24 (D) | 0.067 | <0.0077 | <0.0048 | <0.0048 | 0.15 | 0.012 (J) | <u>0.229</u> | | | | | |
| 9/9/24 | 0.092 | 0.014 (J) | <0.0049 | <0.0049 | 0.18 | 0.023 (J) | <u>0.309</u> | | | | | |
| 9/9/24 (D) | 0.1 | 0.015 (J) | <0.0049 | <0.0049 | 0.2 | 0.023 (J) | <u>0.338</u> | | | | | |

Table 1
2016 - 2024 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-1503A | 535 | 2813 | A | 4/26/21 | <0.0065 | <0.0087 | <0.0054 | <0.0054 | <0.0054 | <0.0054 | <0.0087 |
| | | | | | 9/28/21 | <0.0058 | <0.0077 | <0.0048 | <0.0048 | <0.0048 | <0.0048 | <0.0077 |
| | | | | | 11/9/21 | 0.035 (J) | <0.0081 | <0.0051 | <0.0051 | 0.05 (J) | <0.0051 | <u>0.085 (J)</u> |
| | | | | | 4/28/22 | 0.043 (J) | <0.008 | <0.005 | <0.005 | 0.07 | <0.005 | <u>0.113</u> |
| | | | | | 4/28/22 (D) | 0.04 (J) | <0.008 | <0.005 | <0.005 | 0.067 | <0.005 | <u>0.107</u> |
| | | | | | 7/7/22 | <0.006 | <0.008 | <0.005 | <0.005 | <0.005 | <0.005 | <0.008 |
| | | | | | 7/7/22 (D) | 0.037 (J) | <0.008 | <0.005 | <0.005 | <0.005 | <0.005 | <u>0.037 (J)</u> |
| | | | | | 9/22/22 | 0.018 (J) | <0.008 | <0.005 | <0.005 | 0.02 (J) | <0.005 | <u>0.038 (J)</u> |
| | | | | | 11/8/22 | <0.0058 | <0.0078 | <0.005 | <0.005 | <0.005 | <0.005 | <0.0078 |
| | | | | | 4/27/23 | 0.041 (J) | <0.008 | <0.005 | <0.005 | 0.064 | <0.005 | <u>0.105</u> |
| | | | | | 4/27/23 (D) | 0.04 (J) | <0.008 | <0.005 | <0.005 | 0.06 | <0.005 | <u>0.1</u> |
| | | | | | 6/27/23 | <0.006 | <0.008 | <0.005 | <0.005 | 0.034 (J) | <0.005 | <u>0.034 (J)</u> |
| | | | | | 9/13/23 | <0.0058 | <0.0077 | <0.0048 | <0.0048 | 0.012 (J) | <0.0048 | <u>0.012 (J)</u> |
| | | | | | 11/14/23 | <0.0061 | <0.0081 | <0.0051 | <0.0051 | <0.0051 | <0.0051 | <0.0081 |
| | | | | | 4/10/24 | 0.0062 (J) | <0.0079 | <0.005 | <0.005 | 0.017 (J) | <0.005 | <u>0.0232 (J)</u> |
| | | | | | 6/12/24 | <0.0058 | <0.0079 | <0.005 | <0.005 | 0.024 (J) | <0.005 | <u>0.024 (J)</u> |
| 6/12/24 (D) | <0.0058 | <0.0079 | <0.005 | <0.005 | 0.023 (J) | <0.005 | <u>0.023 (J)</u> | | | | | |
| 9/11/24 | 0.017 (J) | <0.0082 | <0.0052 | <0.0052 | 0.032 (J) | <0.0052 | <u>0.049 (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 - 2024 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-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> |
| | | | | | 4/15/24 | 0.27 | <u>0.084</u> | 0.016 (J) | <u>0.1</u> | 0.11 | 0.037 (J) | <u>0.617</u> |
| | | | | | 9/16/24 | 0.28 | <u>0.13</u> | 0.026 (J) | <u>0.097</u> | 0.12 | 0.041 (J) | <u>0.694</u> |
| 9/16/24 (D) | 0.28 | <u>0.12</u> | 0.026 (J) | <u>0.11</u> | 0.12 | 0.043 (J) | <u>0.699</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>2.740</u> | | | | | |
| 4/15/24 | 1.3 | <u>0.091</u> | 0.018 (J) | <u>0.088</u> | 0.24 | 0.23 | <u>1.967</u> | | | | | |
| 9/16/24 | 0.97 | <u>0.12</u> | 0.022 (J) | <u>0.08</u> | 0.23 | 0.16 | <u>1.582</u> | | | | | |

Table 2
2017 - 2024 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> |
| 4/15/24 | 2.9 | <u>0.13 (J)</u> | <0.024 | <u>0.078 (J)</u> | 0.24 | 0.41 | <u>3.76</u> | | | | | |
| 9/16/24 | 1.4 | <u>0.12</u> | 0.022 (J) | <u>0.055</u> | 0.19 | 0.21 | <u>1.997</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> |
| 4/15/24 | 0.081 | <u>0.043 (J)</u> | 0.017 (J) | <u>0.058</u> | 0.026 (J) | 0.038 (J) | <u>0.263</u> | | | | | |
| 9/16/24 | 0.061 | <u>0.061</u> | 0.02 (J) | <u>0.049</u> | 0.036 (J) | 0.035 (J) | <u>0.262</u> | | | | | |

Table 2
2017 - 2024 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-0001 | 367 | 2814 | A | 9/20/17 | 0.41 | 0.059 | 0.015 | 0.059 | 0.11 | 0.048 | 0.701 |
| | | | | | 4/23/18 | 0.74 | <0.008 | <0.003 | 0.13 | 0.23 | 0.099 | 1.199 |
| | | | | | 9/17/18 | 8.7 | 0.24 | 0.07 | 0.19 | 3.1 | 0.68 | 12.98 |
| | | | | | 4/23/19 | 14 | 0.19 | 0.12 | 0.068 | 6.2 | 1.6 | 22.178 |
| | | | | | 9/25/19 | 2.9 | 0.15 | 0.085 | 0.12 | 1.3 | 0.39 | 4.945 |
| | | | | | 1/14/20 | 1 | 0.38 | 0.069 | 0.43 | 0.2 | 0.17 | 2.249 |
| | | | | | 4/30/20 | 8 | 0.25 | 0.18 | 0.22 | 1.5 | 0.9 | 11.05 |
| | | | | | 9/1/20 | 5.6 | 0.25 | 0.093 | 0.15 | 0.62 | 0.58 | 7.293 |
| | | | | | 4/7/21 | 8.5 | 0.13 | 0.058 | 0.1 | 0.4 | 0.58 | 9.768 |
| | | | | | 9/21/21 | 4.9 | 0.26 | 0.083 | 0.15 | 0.45 | 0.46 | 6.303 |
| | | | | | 5/4/22 | 2.6 | 0.2 | 0.088 | 0.24 | 0.28 | 0.28 | 3.688 |
| | | | | | 9/21/22 | 29 | 110 | 0.059 | 130 | 9.4 | 1.8 | 280.259 |
| | | | | | 4/26/23 | 7.6 | 0.24 | 0.068 | 0.13 | 0.86 | 1.1 | 9.998 |
| | | | | | 9/20/23 | 0.98 | 0.066 | <0.0049 | 0.081 | 0.058 | 0.15 | 1.335 |
| | | | | | 4/15/24 | 0.42 | 0.059 | 0.011 (J) | 0.081 | 0.11 | 0.076 | 0.757 |
| 9/16/24 | 0.32 | 0.11 | 0.022 (J) | 0.085 | 0.12 | 0.062 | 0.719 | | | | | |
| PBG | PBM-0006 | 372 | 2814 | A | 9/20/17 | 0.42 | 0.063 | 0.016 (J) | 0.046 | 0.27 | 0.068 | 0.883 |
| | | | | | 4/23/18 | 0.79 | 0.27 | 0.04 | 0.11 | 0.62 | 0.14 | 1.97 |
| | | | | | 9/17/18 | 0.73 | 0.27 | 0.031 | 0.11 | 0.57 | 0.13 | 1.841 |
| | | | | | 4/8/19 | 0.34 | 0.12 | 0.042 | 0.057 | 0.31 | 0.086 | 0.955 |
| | | | | | 9/25/19 | 0.58 | 0.16 | 0.048 | 0.12 | 0.53 | 0.12 | 1.588 |
| | | | | | 4/30/20 | 0.84 | 0.16 | 0.068 | 0.13 | 0.73 | 0.14 | 2.068 |
| | | | | | 9/1/20 | 0.63 | 0.13 | <0.0031 | 0.067 | 0.52 | 0.098 | 1.445 |
| | | | | | 4/7/21 | 0.72 | 0.12 | 0.034 (J) | 0.069 | 0.5 | 0.11 | 1.553 |
| | | | | | 4/7/21 (D) | 0.7 | 0.13 | 0.033 (J) | 0.065 | 0.48 | 0.11 | 1.518 |
| | | | | | 9/21/21 | 0.77 | 0.2 | 0.043 (J) | 0.088 | 0.55 | 0.11 | 1.761 |
| | | | | | 5/4/22 | 0.64 | 0.17 | 0.06 | 0.12 | 0.54 | 0.12 | 1.65 |
| | | | | | 5/4/2022 (D) | 0.64 | 0.18 | 0.059 | 0.12 | 0.52 | 0.12 | 1.639 |
| | | | | | 9/21/22 | 0.39 | 0.09 | 0.03 (J) | 0.082 | 0.36 | 0.074 | 1.026 |
| | | | | | 4/26/23 | 7.8 | 0.21 | 0.14 | 0.098 | 0.16 | 0.55 | 10.398 |
| | | | | | 9/20/23 | 0.27 | 0.061 | <0.0049 | 0.062 | 0.22 | 0.046 (J) | 0.659 |
| 4/15/24 | 0.2 | 0.046 (J) | 0.011 (J) | 0.055 | 0.17 | 0.041 (J) | 0.523 | | | | | |
| 9/16/24 | 0.22 | 0.081 (J) | 0.023 (J) | 0.054 | 0.18 | 0.05 | 0.608 | | | | | |
| 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 |

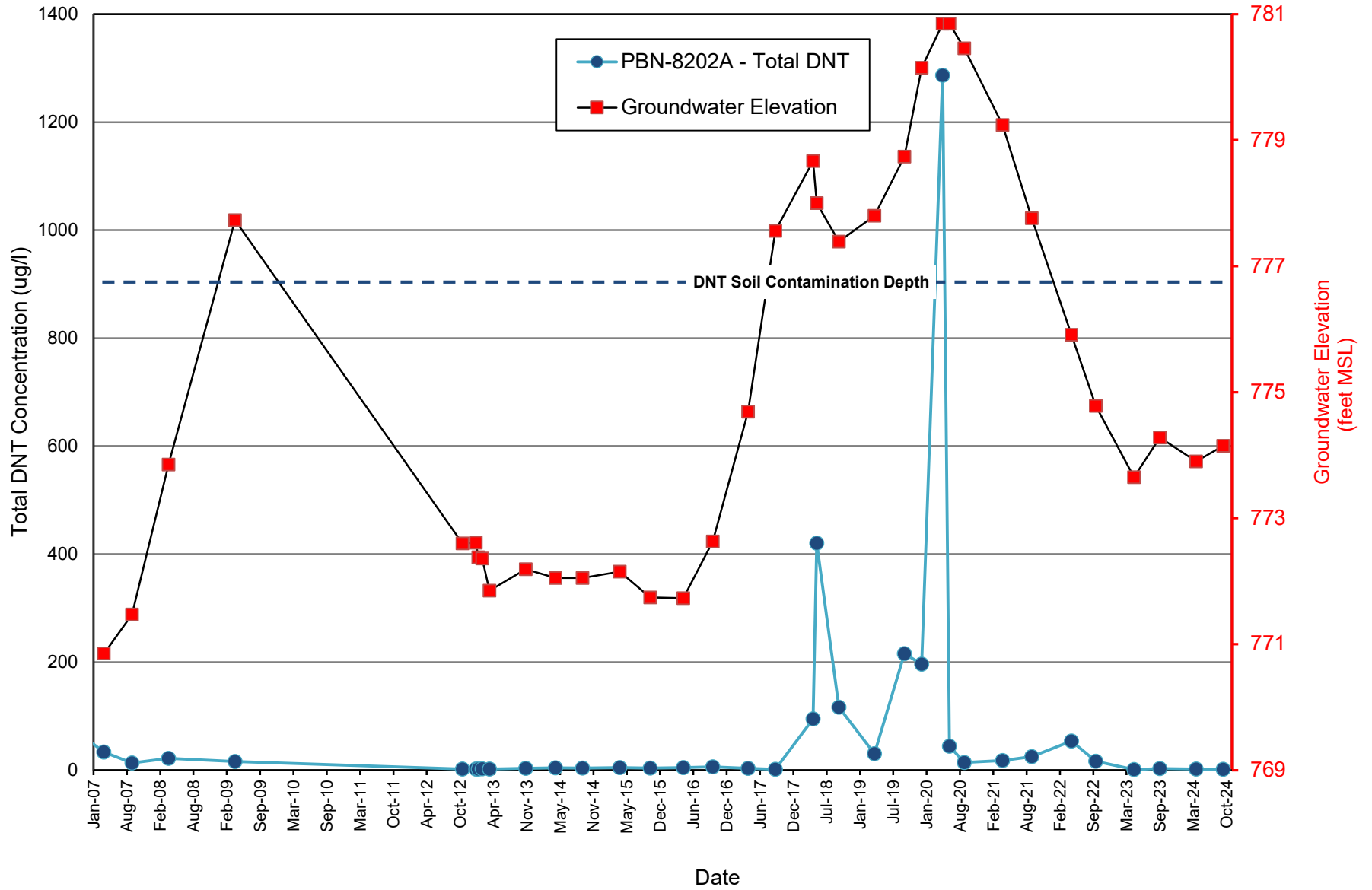
Notes:

- 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 - 2024



September 2024
Badger Army Ammunition Plant
Sampled Wells List

| <u>License Area</u> | <u>Well ID</u> | <u>Reporting Name</u> | <u>Date</u> | <u>Sample Frequency</u> | <u>Plume</u> |
|---------------------|----------------|-----------------------|-------------|-------------------------|--------------------------|
| 3487 | 495 | RIN-1003A | 9/25/2024 | Annual | Central Plume |
| 2813 | 210 | ELN-8203A | 9/10/2024 | Semiannual | Deterrent Burning Ground |
| 2813 | 211 | ELN-8203B | 9/10/2024 | Semiannual | Deterrent Burning Ground |
| 2813 | 212 | ELN-8203C | 9/10/2024 | Semiannual | Deterrent Burning Ground |
| 2813 | 216 | ELM-8901 | 9/10/2024 | Semiannual | Deterrent Burning Ground |
| 2813 | 220 | ELM-8907 | 9/10/2024 | Semiannual | Deterrent Burning Ground |
| 2813 | 221 | ELM-8908 | 9/10/2024 | Semiannual | Deterrent Burning Ground |
| 2813 | 222 | ELM-8909 | 9/10/2024 | Semiannual | Deterrent Burning Ground |
| 2813 | 224 | ELN-8902B | 9/10/2024 | Semiannual | Deterrent Burning Ground |
| 2813 | 227 | ELN-9107A | 9/9/2024 | Semiannual | Deterrent Burning Ground |
| 2813 | 228 | ELN-9107B | 9/9/2024 | Semiannual | Deterrent Burning Ground |
| 2813 | 234 | ELM-9501 | 9/9/2024 | Semiannual | Deterrent Burning Ground |
| 2813 | 236 | S1134R | 9/10/2024 | Semiannual | Deterrent Burning Ground |
| 2813 | 455 | ELN-0801B | 9/9/2024 | Semiannual | Deterrent Burning Ground |
| 2813 | 456 | ELN-0801C | 9/9/2024 | Semiannual | Deterrent Burning Ground |
| 2813 | 457 | ELN-0801E | 9/9/2024 | Semiannual | Deterrent Burning Ground |
| 2813 | 458 | ELN-0802A | 9/10/2024 | Biennial | Deterrent Burning Ground |
| 2813 | 459 | ELN-0802C | 9/10/2024 | Biennial | Deterrent Burning Ground |
| 2813 | 460 | ELN-1001B | 9/9/2024 | Semiannual | Deterrent Burning Ground |
| 2813 | 461 | ELN-1001C | 9/9/2024 | Semiannual | Deterrent Burning Ground |
| 2813 | 462 | ELN-1001E | 9/9/2024 | Semiannual | Deterrent Burning Ground |
| 2813 | 463 | ELN-1002A | 9/11/2024 | Semiannual | Deterrent Burning Ground |
| 2813 | 464 | ELN-1002B | 9/11/2024 | Semiannual | Deterrent Burning Ground |
| 2813 | 465 | ELN-1002C | 9/11/2024 | Semiannual | Deterrent Burning Ground |
| 2813 | 466 | ELN-1002E | 9/11/2024 | Semiannual | Deterrent Burning Ground |
| 2813 | 467 | ELN-1003A | 9/11/2024 | Quarterly | Deterrent Burning Ground |
| 2813 | 468 | ELN-1003B | 9/11/2024 | Quarterly | Deterrent Burning Ground |
| 2813 | 469 | ELN-1003C | 9/11/2024 | Quarterly | Deterrent Burning Ground |
| 2813 | 470 | ELN-1003E | 9/11/2024 | Quarterly | Deterrent Burning Ground |
| 2813 | 533 | ELN-1502A | 9/9/2024 | Semiannual | Deterrent Burning Ground |
| 2813 | 534 | ELN-1502C | 9/9/2024 | Semiannual | Deterrent Burning Ground |
| 2813 | 535 | ELN-1503A | 9/11/2024 | Quarterly | Deterrent Burning Ground |
| 2813 | 536 | ELN-1503C | 9/11/2024 | Quarterly | Deterrent Burning Ground |
| 2813 | 537 | ELN-1504B | 9/11/2024 | Quarterly | Deterrent Burning Ground |
| 2813 | 547 | ELN-2301B | 9/11/2024 | Quarterly | Deterrent Burning Ground |
| 2813 | 548 | ELN-2301C | 9/11/2024 | Quarterly | Deterrent Burning Ground |
| 3037 | 301 | DBM-8201 | 9/10/2024 | Semiannual | Deterrent Burning Ground |
| 3037 | 302 | DBM-8202 | 9/10/2024 | Semiannual | Deterrent Burning Ground |
| 3037 | 306 | DBM-8903 | 9/10/2024 | Semiannual | Deterrent Burning Ground |
| 3037 | 314 | DBN-9501A | 9/11/2024 | Semiannual | Deterrent Burning Ground |
| 3037 | 315 | DBN-9501B | 9/11/2024 | Semiannual | Deterrent Burning Ground |
| 3037 | 316 | DBN-9501C | 9/11/2024 | Semiannual | Deterrent Burning Ground |
| 3037 | 317 | DBN-9501E | 9/11/2024 | Semiannual | Deterrent Burning Ground |
| 3037 | 472 | DBN-1001B | 9/10/2024 | Semiannual | Deterrent Burning Ground |
| 3037 | 473 | DBN-1001C | 9/10/2024 | Semiannual | Deterrent Burning Ground |
| 3037 | 474 | DBN-1001E | 9/10/2024 | Semiannual | Deterrent Burning Ground |

September 2024
Badger Army Ammunition Plant
Sampled Wells List

| <u>License Area</u> | <u>Well ID</u> | <u>Reporting Name</u> | <u>Date</u> | <u>Sample Frequency</u> | <u>Plume</u> |
|---------------------|----------------|-----------------------|-------------|-------------------------|--------------------------------|
| 3037 | 476 | DBN-1002C | 9/10/2024 | Semiannual | Deterrent Burning Ground |
| 3037 | 477 | DBN-1002E | 9/10/2024 | Semiannual | Deterrent Burning Ground |
| 3038 | 755 | S1121 | 9/9/2024 | Semiannual | Deterrent Burning Ground |
| 3487 | 440 | RIM-0703 | 9/9/2024 | Annual | Nitrocellulose Production Area |
| 3487 | 442 | RIM-0705 | 9/9/2024 | Semiannual | Nitrocellulose Production Area |
| 3487 | 478 | RIM-1002 | 9/25/2024 | Semiannual | Nitrocellulose Production Area |
| 3487 | 479 | RIN-1007C | 9/9/2024 | Annual | Nitrocellulose Production Area |
| 3487 | 480 | RIN-1001A | 9/9/2024 | Semiannual | Nitrocellulose Production Area |
| 3487 | 481 | RIN-1001C | 9/9/2024 | Annual | Nitrocellulose Production Area |
| 3487 | 504 | S1125 | 9/9/2024 | Semiannual | Nitrocellulose Production Area |
| 2814 | 360 | PBM-9801 | 9/16/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 367 | PBM-0001 | 9/16/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 368 | PBM-0002 | 9/16/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 372 | PBM-0006 | 9/16/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 374 | PBM-0008 | 9/16/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 544 | PBN-2301B | 9/18/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 545 | PBN-2301C | 9/18/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 546 | PBN-2301D | 9/18/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 592 | PBN-1003C | 9/19/2024 | Annual | Propellant Burning Ground |
| 2814 | 595 | PBN-1001C | 9/23/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 613 | PBN-8202A | 9/16/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 614 | PBN-8202B | 9/16/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 615 | PBN-8202C | 9/16/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 622 | PBN-8205A | 9/19/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 623 | PBN-8205B | 9/19/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 624 | PBN-8205C | 9/19/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 632 | PBN-8502A | 9/19/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 633 | PBN-8503A | 9/23/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 637 | PBM-8907 | 9/19/2024 | Annual | Propellant Burning Ground |
| 2814 | 639 | PBM-8909 | 9/25/2024 | Biennial | Propellant Burning Ground |
| 2814 | 645 | PBN-8902C | 9/19/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 646 | PBN-8903B | 9/23/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 647 | PBN-8903C | 9/23/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 653 | PBN-8910D | 9/16/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 654 | PBN-8912A | 9/19/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 655 | PBN-8912B | 9/19/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 665 | PBN-9112C | 9/19/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 666 | PBN-9112D | 9/19/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 668 | PBN-9301B | 9/23/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 669 | PBN-9301C | 9/23/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 673 | PBN-9303B | 9/23/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 674 | PBN-9303C | 9/23/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 675 | PBN-9303D | 9/23/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 684 | PBN-9304A | 9/12/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 685 | PBN-9304B | 9/12/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 686 | PBN-9304C | 9/12/2024 | Semiannual | Propellant Burning Ground |

September 2024
Badger Army Ammunition Plant
Sampled Wells List

| <u>License Area</u> | <u>Well ID</u> | <u>Reporting Name</u> | <u>Date</u> | <u>Sample Frequency</u> | <u>Plume</u> |
|---------------------|----------------|-----------------------|-------------|-------------------------|---------------------------|
| 2814 | 687 | PBN-9304D | 9/12/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 692 | PBN-9903A | 9/25/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 693 | PBN-9903B | 9/25/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 694 | PBN-9903C | 9/25/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 695 | PBN-9903D | 9/25/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 770 | PBN-1302A | 9/23/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 771 | PBN-1302B | 9/23/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 772 | PBN-1302C | 9/23/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 773 | PBN-1302D | 9/23/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 774 | PBN-1303A | 9/24/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 775 | PBN-1303B | 9/24/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 776 | PBN-1303C | 9/24/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 777 | PBN-1303D | 9/24/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 778 | PBN-1304A | 9/24/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 779 | PBN-1304B | 9/24/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 780 | PBN-1304C | 9/24/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 781 | PBN-1304D | 9/24/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 782 | PBN-1401A | 9/16/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 783 | PBN-1401B | 9/16/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 784 | PBN-1401C | 9/16/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 791 | PBN-1404B | 9/23/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 792 | PBN-1404C | 9/23/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 793 | PBN-1404D | 9/23/2024 | Semiannual | Propellant Burning Ground |
| 2814 | 794 | PBN-1405F | 9/12/2024 | Biennial | Propellant Burning Ground |
| 2814 | 795 | PBN-8902BR | 9/19/2024 | Semiannual | Propellant Burning Ground |
| 3485 | 981 | PBM-9001D | 9/18/2024 | Semiannual | Propellant Burning Ground |
| 3485 | 982 | PBM-9002D | 9/25/2024 | Biennial | Propellant Burning Ground |
| 3493 | 561 | PBN-9101C | 9/18/2024 | Semiannual | Propellant Burning Ground |
| 3493 | 562 | PBN-9102B | 9/25/2024 | Biennial | Propellant Burning Ground |
| 3493 | 563 | PBN-9102C | 9/25/2024 | Biennial | Propellant Burning Ground |
| 3493 | 569 | SWN-9102C | 9/18/2024 | Annual | Propellant Burning Ground |
| 3493 | 570 | SWN-9102D | 9/18/2024 | Annual | Propellant Burning Ground |
| 3493 | 571 | SWN-9103B | 9/18/2024 | Semiannual | Propellant Burning Ground |
| 3493 | 572 | SWN-9103C | 9/18/2024 | Semiannual | Propellant Burning Ground |
| 3493 | 573 | SWN-9103D | 9/18/2024 | Semiannual | Propellant Burning Ground |
| 3493 | 574 | SWN-9103E | 9/18/2024 | Semiannual | Propellant Burning Ground |
| 3493 | 575 | SWN-9104C | 9/18/2024 | Semiannual | Propellant Burning Ground |
| 3493 | 576 | SWN-9104D | 9/18/2024 | Semiannual | Propellant Burning Ground |
| 3493 | 577 | SWN-9105B | 9/18/2024 | Annual | Propellant Burning Ground |
| 3493 | 578 | SWN-9105C | 9/18/2024 | Annual | Propellant Burning Ground |
| 3493 | 579 | SWN-9105D | 9/18/2024 | Annual | Propellant Burning Ground |
| 3499 | 709 | S1147 | 9/19/2024 | Semiannual | Propellant Burning Ground |
| 3499 | 710 | S1148 | 9/12/2024 | Semiannual | Propellant Burning Ground |
| 3499 | 718 | SPN-8903B | 9/19/2024 | Semiannual | Propellant Burning Ground |
| 3499 | 719 | SPN-8903C | 9/19/2024 | Semiannual | Propellant Burning Ground |
| 3499 | 720 | SPN-8904B | 9/12/2024 | Semiannual | Propellant Burning Ground |

September 2024
Badger Army Ammunition Plant
Sampled Wells List

| <u>License Area</u> | <u>Well ID</u> | <u>Reporting Name</u> | <u>Date</u> | <u>Sample Frequency</u> | <u>Plume</u> |
|---------------------|----------------|-----------------------|-------------|-------------------------|---------------------------|
| 3499 | 721 | SPN-8904C | 9/12/2024 | Semiannual | Propellant Burning Ground |
| 3499 | 725 | SPN-9103D | 9/19/2024 | Semiannual | Propellant Burning Ground |
| 3499 | 726 | SPN-9104D | 9/12/2024 | 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 | 9/9 - 9/11/24 |

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

September 2024

Type of Data Submitted (Check all that apply)

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

Notification attached?

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

Certification

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

Joel Janssen

Project Manager

(608) 438-1110

Facility Representative Name (Print)

Title

(Area Code) Telephone No.

Signature

Date

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

- Found uploading problems on _____ Initials _____
- Notified contact of problems on _____ Uploaded data successfully on _____

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

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

Groundwater is currently being monitored by the facility because of past production activities. Thirty-five (35) monitoring wells were sampled to assist with determining the degree and lateral extent of dinitrotoluene (DNT) in the Deterrent Burning Ground Plume. No water was present in ELN-9402AR; therefore, it could not be sampled.

Total DNT exceeded the Enforcement Standard (ES) in ELM-8901 (216), ELM-8907 (220), ELM-8908 (221), ELN-1003C (469), and ELN-1502A (533).

2,4-DNT exceeded the Preventive Action Limit (PAL) in ELM-8901 (216), ELM-9501 (234), ELN-0801B (455), ELN-1001B (460), ELN-1001C (461), ELN-1001E (462), and ELN-1502A (533). 2,6-DNT exceeded the PAL in ELM-8901 (216). Total DNT exceeded the PAL in ELM-9501 (234), ELN-0801B (455), ELN-1001B (460), ELN-1001C (461), ELN-1001E (462), ELN-1003B (468), and ELN-1503A (535).

Volatile organic compounds (VOCs) analysis was performed by CT Laboratories (CT Lab) using method EPA 8260C. Only ELN-0802A (458) and ELN-0802C (459) were analyzed for VOCs during September.

DNT analysis was also performed by CT Laboratories using method SW 8270DSIM. 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 2024

Report Date: 11/18/2024

| Parameter Name | Lic No. | Well No. | Well Name | Date | Dup | Result | Units | PAL | ES |
|-----------------------|---------|----------|-----------|-----------|-----|--------|-------|-------|------|
| 2,4-Dinitrotoluene | 2813 | 216 | ELM-8901 | 9/10/2024 | 1 | 0.018 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 2813 | 216 | ELM-8901 | 9/10/2024 | 1 | 0.014 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 2813 | 216 | ELM-8901 | 9/10/2024 | 1 | 0.552 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 2813 | 220 | ELM-8907 | 9/10/2024 | 1 | 0.288 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 2813 | 220 | ELM-8907 | 9/10/2024 | 2 | 0.29 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 2813 | 221 | ELM-8908 | 9/10/2024 | 1 | 0.194 | ug/l | 0.005 | 0.05 |
| 2,4-Dinitrotoluene | 2813 | 234 | ELM-9501 | 9/9/2024 | 1 | 0.014 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 2813 | 234 | ELM-9501 | 9/9/2024 | 1 | 0.014 | ug/l | 0.005 | 0.05 |
| 2,4-Dinitrotoluene | 2813 | 455 | ELN-0801B | 9/9/2024 | 1 | 0.015 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 2813 | 455 | ELN-0801B | 9/9/2024 | 1 | 0.015 | ug/l | 0.005 | 0.05 |
| 2,4-Dinitrotoluene | 2813 | 460 | ELN-1001B | 9/9/2024 | 1 | 0.014 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 2813 | 460 | ELN-1001B | 9/9/2024 | 1 | 0.014 | ug/l | 0.005 | 0.05 |
| 2,4-Dinitrotoluene | 2813 | 461 | ELN-1001C | 9/9/2024 | 1 | 0.017 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 2813 | 461 | ELN-1001C | 9/9/2024 | 1 | 0.017 | ug/l | 0.005 | 0.05 |
| 2,4-Dinitrotoluene | 2813 | 462 | ELN-1001E | 9/9/2024 | 1 | 0.014 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 2813 | 462 | ELN-1001E | 9/9/2024 | 1 | 0.014 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 2813 | 468 | ELN-1003B | 9/11/2024 | 1 | 0.028 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 2813 | 469 | ELN-1003C | 9/11/2024 | 1 | 0.079 | ug/l | 0.005 | 0.05 |
| 2,4-Dinitrotoluene | 2813 | 533 | ELN-1502A | 9/9/2024 | 1 | 0.014 | ug/l | 0.005 | 0.05 |
| 2,4-Dinitrotoluene | 2813 | 533 | ELN-1502A | 9/9/2024 | 2 | 0.015 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 2813 | 533 | ELN-1502A | 9/9/2024 | 1 | 0.309 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 2813 | 533 | ELN-1502A | 9/9/2024 | 2 | 0.338 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 2813 | 535 | ELN-1503A | 9/11/2024 | 1 | 0.049 | ug/l | 0.005 | 0.05 |

Badger Army Ammunition Plant

SpecPro Professional Services, LLC

September 2024

GROUNDWATER MONITORING ALL HITS REPORT

License No: 2813

Report Date: 11/18/2024

| Parameter Name | Well | Well Name | Date | Dup | Result | LOD | LOQ | Units | PAL | ES |
|-----------------------|------|-----------|-----------|-----|--------|--------|-------|-------|-------|------|
| 2,3-Dinitrotoluene | 216 | ELM-8901 | 9/10/2024 | 1 | 0.24 | 0.0067 | 0.056 | ug/l | | |
| 2,4-Dinitrotoluene | 216 | ELM-8901 | 9/10/2024 | 1 | 0.018 | 0.0089 | 0.056 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 216 | ELM-8901 | 9/10/2024 | 1 | 0.014 | 0.0056 | 0.056 | ug/l | 0.005 | 0.05 |
| 3,4-Dinitrotoluene | 216 | ELM-8901 | 9/10/2024 | 1 | 0.16 | 0.0056 | 0.056 | ug/l | | |
| 3,5-Dinitrotoluene | 216 | ELM-8901 | 9/10/2024 | 1 | 0.12 | 0.0056 | 0.056 | ug/l | | |
| Total Dinitrotoluenes | 216 | ELM-8901 | 9/10/2024 | 1 | 0.552 | 0.0089 | 0.056 | ug/l | 0.005 | 0.05 |
| 2,3-Dinitrotoluene | 220 | ELM-8907 | 9/10/2024 | 2 | 0.18 | 0.0059 | 0.05 | ug/l | | |
| 2,3-Dinitrotoluene | 220 | ELM-8907 | 9/10/2024 | 1 | 0.18 | 0.0058 | 0.049 | ug/l | | |
| 3,4-Dinitrotoluene | 220 | ELM-8907 | 9/10/2024 | 1 | 0.063 | 0.0049 | 0.049 | ug/l | | |
| 3,4-Dinitrotoluene | 220 | ELM-8907 | 9/10/2024 | 2 | 0.066 | 0.005 | 0.05 | ug/l | | |
| 3,5-Dinitrotoluene | 220 | ELM-8907 | 9/10/2024 | 1 | 0.045 | 0.0049 | 0.049 | ug/l | | |
| 3,5-Dinitrotoluene | 220 | ELM-8907 | 9/10/2024 | 2 | 0.044 | 0.005 | 0.05 | ug/l | | |
| Total Dinitrotoluenes | 220 | ELM-8907 | 9/10/2024 | 1 | 0.288 | 0.0078 | 0.049 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 220 | ELM-8907 | 9/10/2024 | 2 | 0.29 | 0.0079 | 0.05 | ug/l | 0.005 | 0.05 |
| 2,3-Dinitrotoluene | 221 | ELM-8908 | 9/10/2024 | 1 | 0.12 | 0.0061 | 0.051 | ug/l | | |
| 3,4-Dinitrotoluene | 221 | ELM-8908 | 9/10/2024 | 1 | 0.043 | 0.0051 | 0.051 | ug/l | | |
| 3,5-Dinitrotoluene | 221 | ELM-8908 | 9/10/2024 | 1 | 0.031 | 0.0051 | 0.051 | ug/l | | |
| Total Dinitrotoluenes | 221 | ELM-8908 | 9/10/2024 | 1 | 0.194 | 0.0082 | 0.051 | ug/l | 0.005 | 0.05 |
| 2,4-Dinitrotoluene | 234 | ELM-9501 | 9/9/2024 | 1 | 0.014 | 0.0076 | 0.048 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 234 | ELM-9501 | 9/9/2024 | 1 | 0.014 | 0.0076 | 0.048 | ug/l | 0.005 | 0.05 |
| 2,4-Dinitrotoluene | 455 | ELN-0801B | 9/9/2024 | 1 | 0.015 | 0.0077 | 0.048 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 455 | ELN-0801B | 9/9/2024 | 1 | 0.015 | 0.0077 | 0.048 | ug/l | 0.005 | 0.05 |
| Chloroform | 459 | ELN-0802C | 9/10/2024 | 1 | 0.13 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| 2,4-Dinitrotoluene | 460 | ELN-1001B | 9/9/2024 | 1 | 0.014 | 0.0078 | 0.049 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 460 | ELN-1001B | 9/9/2024 | 1 | 0.014 | 0.0078 | 0.049 | ug/l | 0.005 | 0.05 |
| 2,4-Dinitrotoluene | 461 | ELN-1001C | 9/9/2024 | 1 | 0.017 | 0.0089 | 0.056 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 461 | ELN-1001C | 9/9/2024 | 1 | 0.017 | 0.0089 | 0.056 | ug/l | 0.005 | 0.05 |
| 2,4-Dinitrotoluene | 462 | ELN-1001E | 9/9/2024 | 1 | 0.014 | 0.0076 | 0.048 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 462 | ELN-1001E | 9/9/2024 | 1 | 0.014 | 0.0076 | 0.048 | ug/l | 0.005 | 0.05 |
| 3,4-Dinitrotoluene | 468 | ELN-1003B | 9/11/2024 | 1 | 0.028 | 0.0048 | 0.048 | ug/l | | |
| Total Dinitrotoluenes | 468 | ELN-1003B | 9/11/2024 | 1 | 0.028 | 0.0076 | 0.048 | ug/l | 0.005 | 0.05 |
| 2,3-Dinitrotoluene | 469 | ELN-1003C | 9/11/2024 | 1 | 0.019 | 0.0059 | 0.049 | ug/l | | |
| 3,4-Dinitrotoluene | 469 | ELN-1003C | 9/11/2024 | 1 | 0.06 | 0.0049 | 0.049 | ug/l | | |
| Total Dinitrotoluenes | 469 | ELN-1003C | 9/11/2024 | 1 | 0.079 | 0.0078 | 0.049 | ug/l | 0.005 | 0.05 |
| 2,3-Dinitrotoluene | 533 | ELN-1502A | 9/9/2024 | 1 | 0.092 | 0.0058 | 0.049 | ug/l | | |
| 2,3-Dinitrotoluene | 533 | ELN-1502A | 9/9/2024 | 2 | 0.1 | 0.0058 | 0.049 | ug/l | | |
| 2,4-Dinitrotoluene | 533 | ELN-1502A | 9/9/2024 | 1 | 0.014 | 0.0078 | 0.049 | ug/l | 0.005 | 0.05 |
| 2,4-Dinitrotoluene | 533 | ELN-1502A | 9/9/2024 | 2 | 0.015 | 0.0078 | 0.049 | ug/l | 0.005 | 0.05 |
| 3,4-Dinitrotoluene | 533 | ELN-1502A | 9/9/2024 | 2 | 0.2 | 0.0049 | 0.049 | ug/l | | |
| 3,4-Dinitrotoluene | 533 | ELN-1502A | 9/9/2024 | 1 | 0.18 | 0.0049 | 0.049 | ug/l | | |
| 3,5-Dinitrotoluene | 533 | ELN-1502A | 9/9/2024 | 2 | 0.023 | 0.0049 | 0.049 | ug/l | | |
| 3,5-Dinitrotoluene | 533 | ELN-1502A | 9/9/2024 | 1 | 0.023 | 0.0049 | 0.049 | ug/l | | |
| Total Dinitrotoluenes | 533 | ELN-1502A | 9/9/2024 | 2 | 0.338 | 0.0078 | 0.049 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 533 | ELN-1502A | 9/9/2024 | 1 | 0.309 | 0.0078 | 0.049 | ug/l | 0.005 | 0.05 |
| 2,3-Dinitrotoluene | 535 | ELN-1503A | 9/11/2024 | 1 | 0.017 | 0.0062 | 0.052 | ug/l | | |
| 3,4-Dinitrotoluene | 535 | ELN-1503A | 9/11/2024 | 1 | 0.032 | 0.0052 | 0.052 | ug/l | | |
| Total Dinitrotoluenes | 535 | ELN-1503A | 9/11/2024 | 1 | 0.049 | 0.0082 | 0.052 | ug/l | 0.005 | 0.05 |

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

Instructions:

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

Monitoring Data Submittal Information

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

SpecPro Professional Services - Badger Army Ammunition Plant

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

Name: Joel Janssen

Phone: (608) 438-1110

E-mail: Joel.Janssen@SpecProSvcS.com

| Facility name: | License # / Monitoring ID | Facility ID [FID] | Actual sampling dates (e.g., July 2-6, 2003) |
|-----------------------------------|---------------------------|---------------------|--|
| BAAP - Propellant Burning Grounds | 02814 | 157005420 | 9/12 - 9/25/24 |

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

September 2024

Type of Data Submitted (Check all that apply)

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

Notification attached?

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

Certification

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

Joel Janssen

Project Manager

(608) 438-1110

Facility Representative Name (Print)

Title

(Area Code) Telephone No.

Signature

Date

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

- Found uploading problems on _____ Initials _____
- Notified contact of problems on _____ Uploaded data successfully on _____

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

Case Narrative
Groundwater Monitoring
License Number 2814
Propellant Burning Grounds
September 2024
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. Sixty-one (61) monitoring 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), PBN-8202A (613), and PBN-8202B (614). 2,4-DNT exceeded the ES in PBN-8202C (615). 2,6-DNT exceeded the ES in PBN-8205A (622), PBN-8205B (623), PBN-1401A (782), and PBN-1401B (783). Total DNT exceeded the ES in PBN-8202C (615), PBN-8205A (622), PBN-8205B (623), PBN-8205C (624), PBN-8902C (645), PBN-9304B (685), PBN-9304C (686), PBN-9903B (693), PBN-1401A (782), and PBN-1401B (783).

2,4-DNT exceeded the Preventive Action Limit (PAL) in PBN-2301C (545), PBN-8205A (622), PBN-8205B (623), PBN-8205C (624), PBN-1401A (782), and PBN-1401B (783). 2,6-DNT exceeded the PAL in PBN-8202C (615), PBN-8902C (645), PBN-9304B (685), PBN-9304C (686), and PBN-9903B (693). Total DNT exceeded the PAL in PBN-2301C (545) and PBN-1401C (784).

Bromodichloromethane exceeded the PAL in PBN-1001C (595), PBN-9301C (669), PBN-9303C (674), PBN-9903C (694), and PBN-1404C (792).

Carbon tetrachloride exceeded the ES in PBN-8502A (632), PBN-9903C (694), and the PAL in 27 wells.

Chloroform exceeded the PAL in PBN-1001C (595), PBN-9301C (669), PBN-9303B (673), PBN-9303C (674), PBN-9903C (694), PBN-1302C (772), and PBN-1404C (792).

Ethyl ether exceeded the PAL in PBN-9903D (695).

Nitrate plus nitrite exceeded the PAL in PBM-0001 (367), PBM-0002 (368), and PBM-0006 (372).

Trichloroethene exceeded the PAL in PBN-8202B (614), PBN-8205A (622), PBN-8205B (623), PBN-8502A (632), PBN-9903B (693), PBN-9903C (694), PBN-1404B (791), and PBN-8902BR (795).

VOC analysis was performed by CT Laboratories (CT Lab) using method EPA 8260C.

DNT analysis was also performed by CT Lab using method SW 8270DSIM. 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 analysis was also performed by CT Lab using method SW 9056A.

Badger Army Ammunition Plant

SpecPro Professional Services, LLC

GROUNDWATER MONITORING EXCEEDANCE REPORT

September 2024

Report Date: 11/18/2024

| Parameter Name | Lic No. | Well No. | Well Name | Date | Dup | Result | Units | PAL | ES |
|--------------------------|---------|----------|-----------|-----------|-----|--------|-------|-------|------|
| 2,4-Dinitrotoluene | 2814 | 360 | PBM-9801 | 9/16/2024 | 1 | 0.13 | ug/l | 0.005 | 0.05 |
| 2,4-Dinitrotoluene | 2814 | 360 | PBM-9801 | 9/16/2024 | 2 | 0.12 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 2814 | 360 | PBM-9801 | 9/16/2024 | 1 | 0.097 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 2814 | 360 | PBM-9801 | 9/16/2024 | 2 | 0.11 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 2814 | 360 | PBM-9801 | 9/16/2024 | 1 | 0.694 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 2814 | 360 | PBM-9801 | 9/16/2024 | 2 | 0.699 | ug/l | 0.005 | 0.05 |
| 2,4-Dinitrotoluene | 2814 | 367 | PBM-0001 | 9/16/2024 | 1 | 0.11 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 2814 | 367 | PBM-0001 | 9/16/2024 | 1 | 0.085 | ug/l | 0.005 | 0.05 |
| Nitrate+Nitrite Nitrogen | 2814 | 367 | PBM-0001 | 9/16/2024 | 1 | 4 | mg/l | 2 | 10 |
| Total Dinitrotoluenes | 2814 | 367 | PBM-0001 | 9/16/2024 | 1 | 0.719 | ug/l | 0.005 | 0.05 |
| 2,4-Dinitrotoluene | 2814 | 368 | PBM-0002 | 9/16/2024 | 1 | 31 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 2814 | 368 | PBM-0002 | 9/16/2024 | 1 | 6.4 | ug/l | 0.005 | 0.05 |
| Nitrate+Nitrite Nitrogen | 2814 | 368 | PBM-0002 | 9/16/2024 | 1 | 5.1 | mg/l | 2 | 10 |
| Total Dinitrotoluenes | 2814 | 368 | PBM-0002 | 9/16/2024 | 1 | 46.29 | ug/l | 0.005 | 0.05 |
| 2,4-Dinitrotoluene | 2814 | 372 | PBM-0006 | 9/16/2024 | 1 | 0.081 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 2814 | 372 | PBM-0006 | 9/16/2024 | 1 | 0.054 | ug/l | 0.005 | 0.05 |
| Nitrate+Nitrite Nitrogen | 2814 | 372 | PBM-0006 | 9/16/2024 | 1 | 3.2 | mg/l | 2 | 10 |
| Total Dinitrotoluenes | 2814 | 372 | PBM-0006 | 9/16/2024 | 1 | 0.608 | ug/l | 0.005 | 0.05 |
| 2,4-Dinitrotoluene | 2814 | 374 | PBM-0008 | 9/16/2024 | 1 | 0.13 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 2814 | 374 | PBM-0008 | 9/16/2024 | 1 | 0.068 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 2814 | 374 | PBM-0008 | 9/16/2024 | 1 | 0.778 | ug/l | 0.005 | 0.05 |
| Carbon tetrachloride | 2814 | 544 | PBN-2301B | 9/18/2024 | 1 | 2.2 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 2814 | 544 | PBN-2301B | 9/18/2024 | 2 | 2.3 | ug/l | 0.5 | 5 |
| 2,4-Dinitrotoluene | 2814 | 545 | PBN-2301C | 9/18/2024 | 1 | 0.014 | ug/l | 0.005 | 0.05 |
| Carbon tetrachloride | 2814 | 545 | PBN-2301C | 9/18/2024 | 1 | 3.2 | ug/l | 0.5 | 5 |
| Total Dinitrotoluenes | 2814 | 545 | PBN-2301C | 9/18/2024 | 1 | 0.014 | ug/l | 0.005 | 0.05 |
| Bromodichloromethane | 2814 | 595 | PBN-1001C | 9/23/2024 | 1 | 0.18 | ug/l | 0.06 | 0.6 |
| Carbon tetrachloride | 2814 | 595 | PBN-1001C | 9/23/2024 | 1 | 0.88 | ug/l | 0.5 | 5 |
| Chloroform | 2814 | 595 | PBN-1001C | 9/23/2024 | 1 | 1.2 | ug/l | 0.6 | 6 |
| 2,4-Dinitrotoluene | 2814 | 613 | PBN-8202A | 9/16/2024 | 1 | 0.12 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 2814 | 613 | PBN-8202A | 9/16/2024 | 1 | 0.08 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 2814 | 613 | PBN-8202A | 9/16/2024 | 1 | 1.582 | ug/l | 0.005 | 0.05 |
| 2,4-Dinitrotoluene | 2814 | 614 | PBN-8202B | 9/16/2024 | 1 | 0.12 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 2814 | 614 | PBN-8202B | 9/16/2024 | 1 | 0.055 | ug/l | 0.005 | 0.05 |
| Carbon tetrachloride | 2814 | 614 | PBN-8202B | 9/16/2024 | 1 | 0.5 | ug/l | 0.5 | 5 |
| Total Dinitrotoluenes | 2814 | 614 | PBN-8202B | 9/16/2024 | 1 | 1.997 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 2814 | 614 | PBN-8202B | 9/16/2024 | 1 | 0.53 | ug/l | 0.5 | 5 |
| 2,4-Dinitrotoluene | 2814 | 615 | PBN-8202C | 9/16/2024 | 1 | 0.061 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 2814 | 615 | PBN-8202C | 9/16/2024 | 1 | 0.049 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 2814 | 615 | PBN-8202C | 9/16/2024 | 1 | 0.262 | ug/l | 0.005 | 0.05 |
| 2,4-Dinitrotoluene | 2814 | 622 | PBN-8205A | 9/19/2024 | 1 | 0.029 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 2814 | 622 | PBN-8205A | 9/19/2024 | 1 | 0.06 | ug/l | 0.005 | 0.05 |
| Carbon tetrachloride | 2814 | 622 | PBN-8205A | 9/19/2024 | 1 | 2.4 | ug/l | 0.5 | 5 |
| Total Dinitrotoluenes | 2814 | 622 | PBN-8205A | 9/19/2024 | 1 | 0.634 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 2814 | 622 | PBN-8205A | 9/19/2024 | 1 | 0.51 | ug/l | 0.5 | 5 |
| 2,4-Dinitrotoluene | 2814 | 623 | PBN-8205B | 9/19/2024 | 1 | 0.032 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 2814 | 623 | PBN-8205B | 9/19/2024 | 1 | 0.053 | ug/l | 0.005 | 0.05 |
| Carbon tetrachloride | 2814 | 623 | PBN-8205B | 9/19/2024 | 1 | 2.1 | ug/l | 0.5 | 5 |

| Parameter Name | Lic No. | Well No. | Well Name | Date | Dup | Result | Units | PAL | ES |
|-----------------------|---------|----------|-----------|-----------|-----|--------|-------|-------|------|
| Total Dinitrotoluenes | 2814 | 623 | PBN-8205B | 9/19/2024 | 1 | 0.645 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 2814 | 623 | PBN-8205B | 9/19/2024 | 1 | 0.5 | ug/l | 0.5 | 5 |
| 2,4-Dinitrotoluene | 2814 | 624 | PBN-8205C | 9/19/2024 | 1 | 0.018 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 2814 | 624 | PBN-8205C | 9/19/2024 | 1 | 0.284 | ug/l | 0.005 | 0.05 |
| Carbon tetrachloride | 2814 | 632 | PBN-8502A | 9/19/2024 | 1 | 6.6 | ug/l | 0.5 | 5 |
| Trichloroethene | 2814 | 632 | PBN-8502A | 9/19/2024 | 1 | 0.79 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 2814 | 633 | PBN-8503A | 9/23/2024 | 1 | 0.87 | ug/l | 0.5 | 5 |
| 2,6-Dinitrotoluene | 2814 | 645 | PBN-8902C | 9/19/2024 | 1 | 0.026 | ug/l | 0.005 | 0.05 |
| Carbon tetrachloride | 2814 | 645 | PBN-8902C | 9/19/2024 | 1 | 1 | ug/l | 0.5 | 5 |
| Total Dinitrotoluenes | 2814 | 645 | PBN-8902C | 9/19/2024 | 1 | 0.13 | ug/l | 0.005 | 0.05 |
| Carbon tetrachloride | 2814 | 665 | PBN-9112C | 9/19/2024 | 1 | 0.87 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 2814 | 665 | PBN-9112C | 9/19/2024 | 2 | 0.85 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 2814 | 668 | PBN-9301B | 9/23/2024 | 1 | 2.2 | ug/l | 0.5 | 5 |
| Bromodichloromethane | 2814 | 669 | PBN-9301C | 9/23/2024 | 1 | 0.18 | ug/l | 0.06 | 0.6 |
| Carbon tetrachloride | 2814 | 669 | PBN-9301C | 9/23/2024 | 1 | 0.58 | ug/l | 0.5 | 5 |
| Chloroform | 2814 | 669 | PBN-9301C | 9/23/2024 | 1 | 1.4 | ug/l | 0.6 | 6 |
| Carbon tetrachloride | 2814 | 673 | PBN-9303B | 9/23/2024 | 1 | 3.4 | ug/l | 0.5 | 5 |
| Chloroform | 2814 | 673 | PBN-9303B | 9/23/2024 | 1 | 0.61 | ug/l | 0.6 | 6 |
| Bromodichloromethane | 2814 | 674 | PBN-9303C | 9/23/2024 | 1 | 0.11 | ug/l | 0.06 | 0.6 |
| Carbon tetrachloride | 2814 | 674 | PBN-9303C | 9/23/2024 | 1 | 1.7 | ug/l | 0.5 | 5 |
| Chloroform | 2814 | 674 | PBN-9303C | 9/23/2024 | 1 | 1.1 | ug/l | 0.6 | 6 |
| 2,6-Dinitrotoluene | 2814 | 685 | PBN-9304B | 9/12/2024 | 2 | 0.0097 | ug/l | 0.005 | 0.05 |
| Carbon tetrachloride | 2814 | 685 | PBN-9304B | 9/12/2024 | 1 | 1.2 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 2814 | 685 | PBN-9304B | 9/12/2024 | 2 | 1.2 | ug/l | 0.5 | 5 |
| Total Dinitrotoluenes | 2814 | 685 | PBN-9304B | 9/12/2024 | 1 | 0.072 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 2814 | 685 | PBN-9304B | 9/12/2024 | 2 | 0.0797 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 2814 | 686 | PBN-9304C | 9/12/2024 | 1 | 0.012 | ug/l | 0.005 | 0.05 |
| Carbon tetrachloride | 2814 | 686 | PBN-9304C | 9/12/2024 | 1 | 1.4 | ug/l | 0.5 | 5 |
| Total Dinitrotoluenes | 2814 | 686 | PBN-9304C | 9/12/2024 | 1 | 0.088 | ug/l | 0.005 | 0.05 |
| Carbon tetrachloride | 2814 | 692 | PBN-9903A | 9/25/2024 | 1 | 0.8 | ug/l | 0.5 | 5 |
| 2,6-Dinitrotoluene | 2814 | 693 | PBN-9903B | 9/25/2024 | 1 | 0.013 | ug/l | 0.005 | 0.05 |
| Carbon tetrachloride | 2814 | 693 | PBN-9903B | 9/25/2024 | 1 | 1.9 | ug/l | 0.5 | 5 |
| Total Dinitrotoluenes | 2814 | 693 | PBN-9903B | 9/25/2024 | 1 | 0.052 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 2814 | 693 | PBN-9903B | 9/25/2024 | 1 | 0.58 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 2814 | 694 | PBN-9903C | 9/25/2024 | 1 | 6.1 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 2814 | 694 | PBN-9903C | 9/25/2024 | 2 | 5.7 | ug/l | 0.5 | 5 |
| Chloroform | 2814 | 694 | PBN-9903C | 9/25/2024 | 1 | 0.89 | ug/l | 0.6 | 6 |
| Chloroform | 2814 | 694 | PBN-9903C | 9/25/2024 | 2 | 0.85 | ug/l | 0.6 | 6 |
| Trichloroethene | 2814 | 694 | PBN-9903C | 9/25/2024 | 1 | 2.7 | ug/l | 0.5 | 5 |
| Trichloroethene | 2814 | 694 | PBN-9903C | 9/25/2024 | 2 | 2.5 | ug/l | 0.5 | 5 |
| Ethyl ether | 2814 | 695 | PBN-9903D | 9/25/2024 | 1 | 160 | ug/l | 100 | 1000 |
| Carbon tetrachloride | 2814 | 770 | PBN-1302A | 9/23/2024 | 1 | 3.4 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 2814 | 771 | PBN-1302B | 9/23/2024 | 1 | 3.5 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 2814 | 772 | PBN-1302C | 9/23/2024 | 1 | 2.3 | ug/l | 0.5 | 5 |
| Chloroform | 2814 | 772 | PBN-1302C | 9/23/2024 | 1 | 0.81 | ug/l | 0.6 | 6 |
| Carbon tetrachloride | 2814 | 774 | PBN-1303A | 9/24/2024 | 1 | 1.7 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 2814 | 775 | PBN-1303B | 9/24/2024 | 1 | 1.8 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 2814 | 776 | PBN-1303C | 9/24/2024 | 1 | 2.1 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 2814 | 779 | PBN-1304B | 9/24/2024 | 1 | 0.54 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 2814 | 779 | PBN-1304B | 9/24/2024 | 2 | 0.53 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 2814 | 780 | PBN-1304C | 9/24/2024 | 1 | 0.86 | ug/l | 0.5 | 5 |
| 2,4-Dinitrotoluene | 2814 | 782 | PBN-1401A | 9/16/2024 | 1 | 0.036 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 2814 | 782 | PBN-1401A | 9/16/2024 | 1 | 0.052 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 2814 | 782 | PBN-1401A | 9/16/2024 | 1 | 0.738 | ug/l | 0.005 | 0.05 |
| 2,4-Dinitrotoluene | 2814 | 783 | PBN-1401B | 9/16/2024 | 1 | 0.046 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 2814 | 783 | PBN-1401B | 9/16/2024 | 1 | 0.054 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 2814 | 783 | PBN-1401B | 9/16/2024 | 1 | 0.793 | ug/l | 0.005 | 0.05 |

| Parameter Name | Lic No. | Well No. | Well Name | Date | Dup | Result | Units | PAL | ES |
|-----------------------|----------------|-----------------|------------------|-------------|------------|---------------|--------------|------------|-----------|
| Total Dinitrotoluenes | 2814 | 784 | PBN-1401C | 9/16/2024 | 1 | 0.045 | ug/l | 0.005 | 0.05 |
| Carbon tetrachloride | 2814 | 791 | PBN-1404B | 9/23/2024 | 1 | 3.3 | ug/l | 0.5 | 5 |
| Trichloroethene | 2814 | 791 | PBN-1404B | 9/23/2024 | 1 | 0.66 | ug/l | 0.5 | 5 |
| Bromodichloromethane | 2814 | 792 | PBN-1404C | 9/23/2024 | 1 | 0.12 | ug/l | 0.06 | 0.6 |
| Chloroform | 2814 | 792 | PBN-1404C | 9/23/2024 | 1 | 0.83 | ug/l | 0.6 | 6 |
| Carbon tetrachloride | 2814 | 795 | PBN-8902BR | 9/19/2024 | 1 | 1.7 | ug/l | 0.5 | 5 |
| Trichloroethene | 2814 | 795 | PBN-8902BR | 9/19/2024 | 1 | 0.51 | ug/l | 0.5 | 5 |

Badger Army Ammunition Plant

SpecPro Professional Services, LLC

September 2024

GROUNDWATER MONITORING ALL HITS REPORT

License No: 2814

Report Date: 11/18/2024

| Parameter Name | Well | Well Name | Date | Dup | Result | LOD | LOQ | Units | PAL | ES |
|--------------------------|------|-----------|-----------|-----|--------|--------|-------|-------|-------|------|
| 2,3-Dinitrotoluene | 360 | PBM-9801 | 9/16/2024 | 2 | 0.28 | 0.0058 | 0.048 | ug/l | | |
| 2,3-Dinitrotoluene | 360 | PBM-9801 | 9/16/2024 | 1 | 0.28 | 0.0058 | 0.049 | ug/l | | |
| 2,4-Dinitrotoluene | 360 | PBM-9801 | 9/16/2024 | 2 | 0.12 | 0.0077 | 0.048 | ug/l | 0.005 | 0.05 |
| 2,4-Dinitrotoluene | 360 | PBM-9801 | 9/16/2024 | 1 | 0.13 | 0.0078 | 0.049 | ug/l | 0.005 | 0.05 |
| 2,5-Dinitrotoluene | 360 | PBM-9801 | 9/16/2024 | 1 | 0.026 | 0.0049 | 0.049 | ug/l | | |
| 2,5-Dinitrotoluene | 360 | PBM-9801 | 9/16/2024 | 2 | 0.026 | 0.0048 | 0.048 | ug/l | | |
| 2,6-Dinitrotoluene | 360 | PBM-9801 | 9/16/2024 | 2 | 0.11 | 0.0048 | 0.048 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 360 | PBM-9801 | 9/16/2024 | 1 | 0.097 | 0.0049 | 0.049 | ug/l | 0.005 | 0.05 |
| 3,4-Dinitrotoluene | 360 | PBM-9801 | 9/16/2024 | 2 | 0.12 | 0.0048 | 0.048 | ug/l | | |
| 3,4-Dinitrotoluene | 360 | PBM-9801 | 9/16/2024 | 1 | 0.12 | 0.0049 | 0.049 | ug/l | | |
| 3,5-Dinitrotoluene | 360 | PBM-9801 | 9/16/2024 | 2 | 0.043 | 0.0048 | 0.048 | ug/l | | |
| 3,5-Dinitrotoluene | 360 | PBM-9801 | 9/16/2024 | 1 | 0.041 | 0.0049 | 0.049 | ug/l | | |
| Carbon tetrachloride | 360 | PBM-9801 | 9/16/2024 | 1 | 0.12 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 360 | PBM-9801 | 9/16/2024 | 2 | 0.11 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Total Dinitrotoluenes | 360 | PBM-9801 | 9/16/2024 | 1 | 0.694 | 0.0078 | 0.049 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 360 | PBM-9801 | 9/16/2024 | 2 | 0.699 | 0.0077 | 0.048 | ug/l | 0.005 | 0.05 |
| 2,3-Dinitrotoluene | 367 | PBM-0001 | 9/16/2024 | 1 | 0.32 | 0.006 | 0.05 | ug/l | | |
| 2,4-Dinitrotoluene | 367 | PBM-0001 | 9/16/2024 | 1 | 0.11 | 0.008 | 0.05 | ug/l | 0.005 | 0.05 |
| 2,5-Dinitrotoluene | 367 | PBM-0001 | 9/16/2024 | 1 | 0.022 | 0.005 | 0.05 | ug/l | | |
| 2,6-Dinitrotoluene | 367 | PBM-0001 | 9/16/2024 | 1 | 0.085 | 0.005 | 0.05 | ug/l | 0.005 | 0.05 |
| 3,4-Dinitrotoluene | 367 | PBM-0001 | 9/16/2024 | 1 | 0.12 | 0.005 | 0.05 | ug/l | | |
| 3,5-Dinitrotoluene | 367 | PBM-0001 | 9/16/2024 | 1 | 0.062 | 0.005 | 0.05 | ug/l | | |
| Carbon tetrachloride | 367 | PBM-0001 | 9/16/2024 | 1 | 0.23 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Nitrate+Nitrite Nitrogen | 367 | PBM-0001 | 9/16/2024 | 1 | 4 | 0.05 | 0.5 | mg/l | 2 | 10 |
| Total Dinitrotoluenes | 367 | PBM-0001 | 9/16/2024 | 1 | 0.719 | 0.008 | 0.05 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 367 | PBM-0001 | 9/16/2024 | 1 | 0.23 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 2,3-Dinitrotoluene | 368 | PBM-0002 | 9/16/2024 | 1 | 6.4 | 0.029 | 0.24 | ug/l | | |
| 2,4-Dinitrotoluene | 368 | PBM-0002 | 9/16/2024 | 1 | 31 | 0.39 | 2.4 | ug/l | 0.005 | 0.05 |
| 2,5-Dinitrotoluene | 368 | PBM-0002 | 9/16/2024 | 1 | 0.1 | 0.024 | 0.24 | ug/l | | |
| 2,6-Dinitrotoluene | 368 | PBM-0002 | 9/16/2024 | 1 | 6.4 | 0.024 | 0.24 | ug/l | 0.005 | 0.05 |
| 3,4-Dinitrotoluene | 368 | PBM-0002 | 9/16/2024 | 1 | 2 | 0.024 | 0.24 | ug/l | | |
| 3,5-Dinitrotoluene | 368 | PBM-0002 | 9/16/2024 | 1 | 0.39 | 0.024 | 0.24 | ug/l | | |
| Carbon tetrachloride | 368 | PBM-0002 | 9/16/2024 | 1 | 0.25 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Nitrate+Nitrite Nitrogen | 368 | PBM-0002 | 9/16/2024 | 1 | 5.1 | 0.05 | 0.5 | mg/l | 2 | 10 |
| Total Dinitrotoluenes | 368 | PBM-0002 | 9/16/2024 | 1 | 46.29 | 0.0078 | 0.049 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 368 | PBM-0002 | 9/16/2024 | 1 | 0.46 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 2,3-Dinitrotoluene | 372 | PBM-0006 | 9/16/2024 | 1 | 0.22 | 0.0058 | 0.048 | ug/l | | |
| 2,4-Dinitrotoluene | 372 | PBM-0006 | 9/16/2024 | 1 | 0.081 | 0.0077 | 0.048 | ug/l | 0.005 | 0.05 |
| 2,5-Dinitrotoluene | 372 | PBM-0006 | 9/16/2024 | 1 | 0.023 | 0.0048 | 0.048 | ug/l | | |
| 2,6-Dinitrotoluene | 372 | PBM-0006 | 9/16/2024 | 1 | 0.054 | 0.0048 | 0.048 | ug/l | 0.005 | 0.05 |
| 3,4-Dinitrotoluene | 372 | PBM-0006 | 9/16/2024 | 1 | 0.18 | 0.0048 | 0.048 | ug/l | | |
| 3,5-Dinitrotoluene | 372 | PBM-0006 | 9/16/2024 | 1 | 0.05 | 0.0048 | 0.048 | ug/l | | |
| Carbon tetrachloride | 372 | PBM-0006 | 9/16/2024 | 1 | 0.26 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Nitrate+Nitrite Nitrogen | 372 | PBM-0006 | 9/16/2024 | 1 | 3.2 | 0.05 | 0.5 | mg/l | 2 | 10 |
| Total Dinitrotoluenes | 372 | PBM-0006 | 9/16/2024 | 1 | 0.608 | 0.0077 | 0.048 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 372 | PBM-0006 | 9/16/2024 | 1 | 0.36 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 2,3-Dinitrotoluene | 374 | PBM-0008 | 9/16/2024 | 1 | 0.3 | 0.0057 | 0.048 | ug/l | | |
| 2,4-Dinitrotoluene | 374 | PBM-0008 | 9/16/2024 | 1 | 0.13 | 0.0076 | 0.048 | ug/l | 0.005 | 0.05 |

| Parameter Name | Well | Well Name | Date | Dup | Result | LOD | LOQ | Units | PAL | ES |
|-----------------------|------|-----------|-----------|-----|--------|--------|-------|-------|-------|------|
| 2,5-Dinitrotoluene | 374 | PBM-0008 | 9/16/2024 | 1 | 0.035 | 0.0048 | 0.048 | ug/l | | |
| 2,6-Dinitrotoluene | 374 | PBM-0008 | 9/16/2024 | 1 | 0.068 | 0.0048 | 0.048 | ug/l | 0.005 | 0.05 |
| 3,4-Dinitrotoluene | 374 | PBM-0008 | 9/16/2024 | 1 | 0.17 | 0.0048 | 0.048 | ug/l | | |
| 3,5-Dinitrotoluene | 374 | PBM-0008 | 9/16/2024 | 1 | 0.075 | 0.0048 | 0.048 | ug/l | | |
| Carbon tetrachloride | 374 | PBM-0008 | 9/16/2024 | 1 | 0.24 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Total Dinitrotoluenes | 374 | PBM-0008 | 9/16/2024 | 1 | 0.778 | 0.0076 | 0.048 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 374 | PBM-0008 | 9/16/2024 | 1 | 0.29 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 1,1,1-Trichloroethane | 544 | PBN-2301B | 9/18/2024 | 1 | 0.21 | 0.1 | 0.2 | ug/l | 40 | 200 |
| 1,1,1-Trichloroethane | 544 | PBN-2301B | 9/18/2024 | 2 | 0.21 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Carbon tetrachloride | 544 | PBN-2301B | 9/18/2024 | 2 | 2.3 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 544 | PBN-2301B | 9/18/2024 | 1 | 2.2 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 544 | PBN-2301B | 9/18/2024 | 1 | 0.25 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Chloroform | 544 | PBN-2301B | 9/18/2024 | 2 | 0.24 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| 1,1,1-Trichloroethane | 545 | PBN-2301C | 9/18/2024 | 1 | 0.34 | 0.1 | 0.2 | ug/l | 40 | 200 |
| 2,4-Dinitrotoluene | 545 | PBN-2301C | 9/18/2024 | 1 | 0.014 | 0.0078 | 0.049 | ug/l | 0.005 | 0.05 |
| Carbon tetrachloride | 545 | PBN-2301C | 9/18/2024 | 1 | 3.2 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 545 | PBN-2301C | 9/18/2024 | 1 | 0.32 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Total Dinitrotoluenes | 545 | PBN-2301C | 9/18/2024 | 1 | 0.014 | 0.0078 | 0.049 | ug/l | 0.005 | 0.05 |
| 1,1-Dichloroethane | 546 | PBN-2301D | 9/18/2024 | 1 | 0.31 | 0.1 | 0.2 | ug/l | 85 | 850 |
| Ethyl ether | 546 | PBN-2301D | 9/18/2024 | 1 | 2.5 | 0.1 | 0.2 | ug/l | 100 | 1000 |
| Carbon tetrachloride | 592 | PBN-1003C | 9/19/2024 | 1 | 0.12 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 1,1,1-Trichloroethane | 595 | PBN-1001C | 9/23/2024 | 1 | 0.11 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Bromodichloromethane | 595 | PBN-1001C | 9/23/2024 | 1 | 0.18 | 0.1 | 0.2 | ug/l | 0.06 | 0.6 |
| Carbon tetrachloride | 595 | PBN-1001C | 9/23/2024 | 1 | 0.88 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 595 | PBN-1001C | 9/23/2024 | 1 | 1.2 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Trichloroethene | 595 | PBN-1001C | 9/23/2024 | 1 | 0.27 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 2,3-Dinitrotoluene | 613 | PBN-8202A | 9/16/2024 | 1 | 0.97 | 0.0057 | 0.048 | ug/l | | |
| 2,4-Dinitrotoluene | 613 | PBN-8202A | 9/16/2024 | 1 | 0.12 | 0.0076 | 0.048 | ug/l | 0.005 | 0.05 |
| 2,5-Dinitrotoluene | 613 | PBN-8202A | 9/16/2024 | 1 | 0.022 | 0.0048 | 0.048 | ug/l | | |
| 2,6-Dinitrotoluene | 613 | PBN-8202A | 9/16/2024 | 1 | 0.08 | 0.0048 | 0.048 | ug/l | 0.005 | 0.05 |
| 3,4-Dinitrotoluene | 613 | PBN-8202A | 9/16/2024 | 1 | 0.23 | 0.0048 | 0.048 | ug/l | | |
| 3,5-Dinitrotoluene | 613 | PBN-8202A | 9/16/2024 | 1 | 0.16 | 0.0048 | 0.048 | ug/l | | |
| Carbon tetrachloride | 613 | PBN-8202A | 9/16/2024 | 1 | 0.31 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Total Dinitrotoluenes | 613 | PBN-8202A | 9/16/2024 | 1 | 1.582 | 0.0076 | 0.048 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 613 | PBN-8202A | 9/16/2024 | 1 | 0.32 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 2,3-Dinitrotoluene | 614 | PBN-8202B | 9/16/2024 | 1 | 1.4 | 0.0058 | 0.048 | ug/l | | |
| 2,4-Dinitrotoluene | 614 | PBN-8202B | 9/16/2024 | 1 | 0.12 | 0.0077 | 0.048 | ug/l | 0.005 | 0.05 |
| 2,5-Dinitrotoluene | 614 | PBN-8202B | 9/16/2024 | 1 | 0.022 | 0.0048 | 0.048 | ug/l | | |
| 2,6-Dinitrotoluene | 614 | PBN-8202B | 9/16/2024 | 1 | 0.055 | 0.0048 | 0.048 | ug/l | 0.005 | 0.05 |
| 3,4-Dinitrotoluene | 614 | PBN-8202B | 9/16/2024 | 1 | 0.19 | 0.0048 | 0.048 | ug/l | | |
| 3,5-Dinitrotoluene | 614 | PBN-8202B | 9/16/2024 | 1 | 0.21 | 0.0048 | 0.048 | ug/l | | |
| Carbon tetrachloride | 614 | PBN-8202B | 9/16/2024 | 1 | 0.5 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Total Dinitrotoluenes | 614 | PBN-8202B | 9/16/2024 | 1 | 1.997 | 0.0077 | 0.048 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 614 | PBN-8202B | 9/16/2024 | 1 | 0.53 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 2,3-Dinitrotoluene | 615 | PBN-8202C | 9/16/2024 | 1 | 0.061 | 0.0058 | 0.049 | ug/l | | |
| 2,4-Dinitrotoluene | 615 | PBN-8202C | 9/16/2024 | 1 | 0.061 | 0.0078 | 0.049 | ug/l | 0.005 | 0.05 |
| 2,5-Dinitrotoluene | 615 | PBN-8202C | 9/16/2024 | 1 | 0.02 | 0.0049 | 0.049 | ug/l | | |
| 2,6-Dinitrotoluene | 615 | PBN-8202C | 9/16/2024 | 1 | 0.049 | 0.0049 | 0.049 | ug/l | 0.005 | 0.05 |
| 3,4-Dinitrotoluene | 615 | PBN-8202C | 9/16/2024 | 1 | 0.036 | 0.0049 | 0.049 | ug/l | | |
| 3,5-Dinitrotoluene | 615 | PBN-8202C | 9/16/2024 | 1 | 0.035 | 0.0049 | 0.049 | ug/l | | |
| Total Dinitrotoluenes | 615 | PBN-8202C | 9/16/2024 | 1 | 0.262 | 0.0078 | 0.049 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 615 | PBN-8202C | 9/16/2024 | 1 | 0.11 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 1,1,1-Trichloroethane | 622 | PBN-8205A | 9/19/2024 | 1 | 0.2 | 0.1 | 0.2 | ug/l | 40 | 200 |
| 2,3-Dinitrotoluene | 622 | PBN-8205A | 9/19/2024 | 1 | 0.33 | 0.0057 | 0.048 | ug/l | | |
| 2,4-Dinitrotoluene | 622 | PBN-8205A | 9/19/2024 | 1 | 0.029 | 0.0076 | 0.048 | ug/l | 0.005 | 0.05 |
| 2,5-Dinitrotoluene | 622 | PBN-8205A | 9/19/2024 | 1 | 0.023 | 0.0048 | 0.048 | ug/l | | |
| 2,6-Dinitrotoluene | 622 | PBN-8205A | 9/19/2024 | 1 | 0.06 | 0.0048 | 0.048 | ug/l | 0.005 | 0.05 |

| Parameter Name | Well | Well Name | Date | Dup | Result | LOD | LOQ | Units | PAL | ES |
|-----------------------|------|-----------|-----------|-----|--------|--------|-------|-------|-------|------|
| 3,4-Dinitrotoluene | 622 | PBN-8205A | 9/19/2024 | 1 | 0.13 | 0.0048 | 0.048 | ug/l | | |
| 3,5-Dinitrotoluene | 622 | PBN-8205A | 9/19/2024 | 1 | 0.062 | 0.0048 | 0.048 | ug/l | | |
| Carbon tetrachloride | 622 | PBN-8205A | 9/19/2024 | 1 | 2.4 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Total Dinitrotoluenes | 622 | PBN-8205A | 9/19/2024 | 1 | 0.634 | 0.0076 | 0.048 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 622 | PBN-8205A | 9/19/2024 | 1 | 0.51 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 1,1,1-Trichloroethane | 623 | PBN-8205B | 9/19/2024 | 1 | 0.16 | 0.1 | 0.2 | ug/l | 40 | 200 |
| 2,3-Dinitrotoluene | 623 | PBN-8205B | 9/19/2024 | 1 | 0.34 | 0.0061 | 0.051 | ug/l | | |
| 2,4-Dinitrotoluene | 623 | PBN-8205B | 9/19/2024 | 1 | 0.032 | 0.0081 | 0.051 | ug/l | 0.005 | 0.05 |
| 2,5-Dinitrotoluene | 623 | PBN-8205B | 9/19/2024 | 1 | 0.022 | 0.0051 | 0.051 | ug/l | | |
| 2,6-Dinitrotoluene | 623 | PBN-8205B | 9/19/2024 | 1 | 0.053 | 0.0051 | 0.051 | ug/l | 0.005 | 0.05 |
| 3,4-Dinitrotoluene | 623 | PBN-8205B | 9/19/2024 | 1 | 0.13 | 0.0051 | 0.051 | ug/l | | |
| 3,5-Dinitrotoluene | 623 | PBN-8205B | 9/19/2024 | 1 | 0.068 | 0.0051 | 0.051 | ug/l | | |
| Carbon tetrachloride | 623 | PBN-8205B | 9/19/2024 | 1 | 2.1 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Total Dinitrotoluenes | 623 | PBN-8205B | 9/19/2024 | 1 | 0.645 | 0.0081 | 0.051 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 623 | PBN-8205B | 9/19/2024 | 1 | 0.5 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 2,3-Dinitrotoluene | 624 | PBN-8205C | 9/19/2024 | 1 | 0.13 | 0.006 | 0.05 | ug/l | | |
| 2,4-Dinitrotoluene | 624 | PBN-8205C | 9/19/2024 | 1 | 0.018 | 0.008 | 0.05 | ug/l | 0.005 | 0.05 |
| 2,5-Dinitrotoluene | 624 | PBN-8205C | 9/19/2024 | 1 | 0.021 | 0.005 | 0.05 | ug/l | | |
| 3,4-Dinitrotoluene | 624 | PBN-8205C | 9/19/2024 | 1 | 0.064 | 0.005 | 0.05 | ug/l | | |
| 3,5-Dinitrotoluene | 624 | PBN-8205C | 9/19/2024 | 1 | 0.051 | 0.005 | 0.05 | ug/l | | |
| Carbon tetrachloride | 624 | PBN-8205C | 9/19/2024 | 1 | 0.1 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Total Dinitrotoluenes | 624 | PBN-8205C | 9/19/2024 | 1 | 0.284 | 0.008 | 0.05 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 624 | PBN-8205C | 9/19/2024 | 1 | 0.16 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 1,1,1-Trichloroethane | 632 | PBN-8502A | 9/19/2024 | 1 | 0.33 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Carbon tetrachloride | 632 | PBN-8502A | 9/19/2024 | 1 | 6.6 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Trichloroethene | 632 | PBN-8502A | 9/19/2024 | 1 | 0.79 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 633 | PBN-8503A | 9/23/2024 | 1 | 0.87 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 637 | PBM-8907 | 9/19/2024 | 1 | 0.17 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 1,1,1-Trichloroethane | 645 | PBN-8902C | 9/19/2024 | 1 | 0.1 | 0.1 | 0.2 | ug/l | 40 | 200 |
| 2,3-Dinitrotoluene | 645 | PBN-8902C | 9/19/2024 | 1 | 0.075 | 0.0059 | 0.049 | ug/l | | |
| 2,6-Dinitrotoluene | 645 | PBN-8902C | 9/19/2024 | 1 | 0.026 | 0.0049 | 0.049 | ug/l | 0.005 | 0.05 |
| 3,4-Dinitrotoluene | 645 | PBN-8902C | 9/19/2024 | 1 | 0.029 | 0.0049 | 0.049 | ug/l | | |
| Carbon tetrachloride | 645 | PBN-8902C | 9/19/2024 | 1 | 1 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Total Dinitrotoluenes | 645 | PBN-8902C | 9/19/2024 | 1 | 0.13 | 0.0078 | 0.049 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 645 | PBN-8902C | 9/19/2024 | 1 | 0.41 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 646 | PBN-8903B | 9/23/2024 | 1 | 0.4 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 1,1-Dichloroethane | 653 | PBN-8910D | 9/16/2024 | 1 | 0.11 | 0.1 | 0.2 | ug/l | 85 | 850 |
| Carbon tetrachloride | 655 | PBN-8912B | 9/19/2024 | 1 | 0.36 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| o-Xylene | 655 | PBN-8912B | 9/19/2024 | 1 | 0.12 | 0.1 | 0.2 | ug/l | 400 | 2000 |
| Tetrachloroethene | 655 | PBN-8912B | 9/19/2024 | 1 | 0.12 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Toluene | 655 | PBN-8912B | 9/19/2024 | 1 | 1.7 | 0.1 | 0.2 | ug/l | 160 | 800 |
| Trichloroethene | 655 | PBN-8912B | 9/19/2024 | 1 | 0.3 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 665 | PBN-9112C | 9/19/2024 | 2 | 0.85 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 665 | PBN-9112C | 9/19/2024 | 1 | 0.87 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 665 | PBN-9112C | 9/19/2024 | 1 | 0.1 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Trichloroethene | 665 | PBN-9112C | 9/19/2024 | 2 | 0.2 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Trichloroethene | 665 | PBN-9112C | 9/19/2024 | 1 | 0.18 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 1,1,1-Trichloroethane | 668 | PBN-9301B | 9/23/2024 | 1 | 0.12 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Carbon tetrachloride | 668 | PBN-9301B | 9/23/2024 | 1 | 2.2 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 668 | PBN-9301B | 9/23/2024 | 1 | 0.26 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Trichloroethene | 668 | PBN-9301B | 9/23/2024 | 1 | 0.21 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 1,1,1-Trichloroethane | 669 | PBN-9301C | 9/23/2024 | 1 | 0.31 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Bromodichloromethane | 669 | PBN-9301C | 9/23/2024 | 1 | 0.18 | 0.1 | 0.2 | ug/l | 0.06 | 0.6 |
| Carbon tetrachloride | 669 | PBN-9301C | 9/23/2024 | 1 | 0.58 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 669 | PBN-9301C | 9/23/2024 | 1 | 1.4 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Trichloroethene | 669 | PBN-9301C | 9/23/2024 | 1 | 0.14 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 1,1,1-Trichloroethane | 673 | PBN-9303B | 9/23/2024 | 1 | 0.28 | 0.1 | 0.2 | ug/l | 40 | 200 |

| Parameter Name | Well | Well Name | Date | Dup | Result | LOD | LOQ | Units | PAL | ES |
|-----------------------|------|-----------|-----------|-----|--------|--------|-------|-------|-------|------|
| Carbon tetrachloride | 673 | PBN-9303B | 9/23/2024 | 1 | 3.4 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 673 | PBN-9303B | 9/23/2024 | 1 | 0.61 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Trichloroethene | 673 | PBN-9303B | 9/23/2024 | 1 | 0.17 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 1,1,1-Trichloroethane | 674 | PBN-9303C | 9/23/2024 | 1 | 1.1 | 0.1 | 0.2 | ug/l | 40 | 200 |
| 1,1-Dichloroethene | 674 | PBN-9303C | 9/23/2024 | 1 | 0.1 | 0.1 | 0.2 | ug/l | 0.7 | 7 |
| Bromodichloromethane | 674 | PBN-9303C | 9/23/2024 | 1 | 0.11 | 0.1 | 0.2 | ug/l | 0.06 | 0.6 |
| Carbon tetrachloride | 674 | PBN-9303C | 9/23/2024 | 1 | 1.7 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 674 | PBN-9303C | 9/23/2024 | 1 | 1.1 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Trichloroethene | 674 | PBN-9303C | 9/23/2024 | 1 | 0.21 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 1,1-Dichloroethane | 675 | PBN-9303D | 9/23/2024 | 1 | 0.85 | 0.1 | 0.2 | ug/l | 85 | 850 |
| 1,1-Dichloroethene | 675 | PBN-9303D | 9/23/2024 | 1 | 0.16 | 0.1 | 0.2 | ug/l | 0.7 | 7 |
| Chloroethane | 675 | PBN-9303D | 9/23/2024 | 1 | 0.5 | 0.2 | 0.4 | ug/l | 80 | 400 |
| Ethyl ether | 675 | PBN-9303D | 9/23/2024 | 1 | 27 | 0.5 | 1 | ug/l | 100 | 1000 |
| 1,1,1-Trichloroethane | 685 | PBN-9304B | 9/12/2024 | 1 | 0.12 | 0.1 | 0.2 | ug/l | 40 | 200 |
| 1,1,1-Trichloroethane | 685 | PBN-9304B | 9/12/2024 | 2 | 0.11 | 0.1 | 0.2 | ug/l | 40 | 200 |
| 2,3-Dinitrotoluene | 685 | PBN-9304B | 9/12/2024 | 1 | 0.033 | 0.0059 | 0.049 | ug/l | | |
| 2,3-Dinitrotoluene | 685 | PBN-9304B | 9/12/2024 | 2 | 0.033 | 0.0058 | 0.048 | ug/l | | |
| 2,6-Dinitrotoluene | 685 | PBN-9304B | 9/12/2024 | 2 | 0.0097 | 0.0048 | 0.048 | ug/l | 0.005 | 0.05 |
| 3,4-Dinitrotoluene | 685 | PBN-9304B | 9/12/2024 | 2 | 0.02 | 0.0048 | 0.048 | ug/l | | |
| 3,4-Dinitrotoluene | 685 | PBN-9304B | 9/12/2024 | 1 | 0.02 | 0.0049 | 0.049 | ug/l | | |
| 3,5-Dinitrotoluene | 685 | PBN-9304B | 9/12/2024 | 1 | 0.019 | 0.0049 | 0.049 | ug/l | | |
| 3,5-Dinitrotoluene | 685 | PBN-9304B | 9/12/2024 | 2 | 0.017 | 0.0048 | 0.048 | ug/l | | |
| Carbon tetrachloride | 685 | PBN-9304B | 9/12/2024 | 1 | 1.2 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 685 | PBN-9304B | 9/12/2024 | 2 | 1.2 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 685 | PBN-9304B | 9/12/2024 | 2 | 0.14 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Chloroform | 685 | PBN-9304B | 9/12/2024 | 1 | 0.15 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Total Dinitrotoluenes | 685 | PBN-9304B | 9/12/2024 | 2 | 0.0797 | 0.0077 | 0.048 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 685 | PBN-9304B | 9/12/2024 | 1 | 0.072 | 0.0078 | 0.049 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 685 | PBN-9304B | 9/12/2024 | 1 | 0.31 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Trichloroethene | 685 | PBN-9304B | 9/12/2024 | 2 | 0.3 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 1,1,1-Trichloroethane | 686 | PBN-9304C | 9/12/2024 | 1 | 0.11 | 0.1 | 0.2 | ug/l | 40 | 200 |
| 2,3-Dinitrotoluene | 686 | PBN-9304C | 9/12/2024 | 1 | 0.031 | 0.0058 | 0.048 | ug/l | | |
| 2,6-Dinitrotoluene | 686 | PBN-9304C | 9/12/2024 | 1 | 0.012 | 0.0048 | 0.048 | ug/l | 0.005 | 0.05 |
| 3,4-Dinitrotoluene | 686 | PBN-9304C | 9/12/2024 | 1 | 0.024 | 0.0048 | 0.048 | ug/l | | |
| 3,5-Dinitrotoluene | 686 | PBN-9304C | 9/12/2024 | 1 | 0.021 | 0.0048 | 0.048 | ug/l | | |
| Carbon tetrachloride | 686 | PBN-9304C | 9/12/2024 | 1 | 1.4 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 686 | PBN-9304C | 9/12/2024 | 1 | 0.22 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Total Dinitrotoluenes | 686 | PBN-9304C | 9/12/2024 | 1 | 0.088 | 0.0077 | 0.048 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 686 | PBN-9304C | 9/12/2024 | 1 | 0.45 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 1,2-Dichloroethane | 687 | PBN-9304D | 9/12/2024 | 1 | 0.17 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Ethyl ether | 687 | PBN-9304D | 9/12/2024 | 1 | 31 | 0.5 | 1 | ug/l | 100 | 1000 |
| Carbon tetrachloride | 692 | PBN-9903A | 9/25/2024 | 1 | 0.8 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Trichloroethene | 692 | PBN-9903A | 9/25/2024 | 1 | 0.26 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 1,1,1-Trichloroethane | 693 | PBN-9903B | 9/25/2024 | 1 | 0.14 | 0.1 | 0.2 | ug/l | 40 | 200 |
| 2,3-Dinitrotoluene | 693 | PBN-9903B | 9/25/2024 | 1 | 0.021 | 0.0058 | 0.049 | ug/l | | |
| 2,6-Dinitrotoluene | 693 | PBN-9903B | 9/25/2024 | 1 | 0.013 | 0.0049 | 0.049 | ug/l | 0.005 | 0.05 |
| 3,4-Dinitrotoluene | 693 | PBN-9903B | 9/25/2024 | 1 | 0.018 | 0.0049 | 0.049 | ug/l | | |
| Carbon tetrachloride | 693 | PBN-9903B | 9/25/2024 | 1 | 1.9 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 693 | PBN-9903B | 9/25/2024 | 1 | 0.24 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Total Dinitrotoluenes | 693 | PBN-9903B | 9/25/2024 | 1 | 0.052 | 0.0078 | 0.049 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 693 | PBN-9903B | 9/25/2024 | 1 | 0.58 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 1,1,1-Trichloroethane | 694 | PBN-9903C | 9/25/2024 | 1 | 0.32 | 0.1 | 0.2 | ug/l | 40 | 200 |
| 1,1,1-Trichloroethane | 694 | PBN-9903C | 9/25/2024 | 2 | 0.3 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Carbon disulfide | 694 | PBN-9903C | 9/25/2024 | 1 | 0.21 | 0.2 | 0.4 | ug/l | 200 | 1000 |
| Carbon tetrachloride | 694 | PBN-9903C | 9/25/2024 | 2 | 5.7 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 694 | PBN-9903C | 9/25/2024 | 1 | 6.1 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 694 | PBN-9903C | 9/25/2024 | 2 | 0.85 | 0.1 | 0.2 | ug/l | 0.6 | 6 |

| Parameter Name | Well | Well Name | Date | Dup | Result | LOD | LOQ | Units | PAL | ES |
|-----------------------|------|-----------|-----------|-----|--------|--------|-------|-------|-------|------|
| Chloroform | 694 | PBN-9903C | 9/25/2024 | 1 | 0.89 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Trichloroethene | 694 | PBN-9903C | 9/25/2024 | 2 | 2.5 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Trichloroethene | 694 | PBN-9903C | 9/25/2024 | 1 | 2.7 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 1,1-Dichloroethane | 695 | PBN-9903D | 9/25/2024 | 1 | 0.15 | 0.1 | 0.2 | ug/l | 85 | 850 |
| 1,2-Dichloroethane | 695 | PBN-9903D | 9/25/2024 | 1 | 0.25 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Carbon disulfide | 695 | PBN-9903D | 9/25/2024 | 1 | 0.21 | 0.2 | 0.4 | ug/l | 200 | 1000 |
| Ethyl ether | 695 | PBN-9903D | 9/25/2024 | 1 | 160 | 5 | 10 | ug/l | 100 | 1000 |
| 1,1,1-Trichloroethane | 770 | PBN-1302A | 9/23/2024 | 1 | 0.16 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Carbon tetrachloride | 770 | PBN-1302A | 9/23/2024 | 1 | 3.4 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 770 | PBN-1302A | 9/23/2024 | 1 | 0.37 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Trichloroethene | 770 | PBN-1302A | 9/23/2024 | 1 | 0.18 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 1,1,1-Trichloroethane | 771 | PBN-1302B | 9/23/2024 | 1 | 0.18 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Carbon tetrachloride | 771 | PBN-1302B | 9/23/2024 | 1 | 3.5 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 771 | PBN-1302B | 9/23/2024 | 1 | 0.43 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Trichloroethene | 771 | PBN-1302B | 9/23/2024 | 1 | 0.33 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 1,1,1-Trichloroethane | 772 | PBN-1302C | 9/23/2024 | 1 | 0.97 | 0.1 | 0.2 | ug/l | 40 | 200 |
| 1,1-Dichloroethene | 772 | PBN-1302C | 9/23/2024 | 1 | 0.13 | 0.1 | 0.2 | ug/l | 0.7 | 7 |
| Carbon tetrachloride | 772 | PBN-1302C | 9/23/2024 | 1 | 2.3 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 772 | PBN-1302C | 9/23/2024 | 1 | 0.81 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| 1,1,1-Trichloroethane | 774 | PBN-1303A | 9/24/2024 | 1 | 0.37 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Carbon tetrachloride | 774 | PBN-1303A | 9/24/2024 | 1 | 1.7 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 774 | PBN-1303A | 9/24/2024 | 1 | 0.31 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| 1,1,1-Trichloroethane | 775 | PBN-1303B | 9/24/2024 | 1 | 0.37 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Carbon tetrachloride | 775 | PBN-1303B | 9/24/2024 | 1 | 1.8 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 775 | PBN-1303B | 9/24/2024 | 1 | 0.29 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| 1,1,1-Trichloroethane | 776 | PBN-1303C | 9/24/2024 | 1 | 0.67 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Carbon tetrachloride | 776 | PBN-1303C | 9/24/2024 | 1 | 2.1 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 776 | PBN-1303C | 9/24/2024 | 1 | 0.45 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Trichloroethene | 776 | PBN-1303C | 9/24/2024 | 1 | 0.13 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 1,1-Dichloroethane | 777 | PBN-1303D | 9/24/2024 | 1 | 0.62 | 0.1 | 0.2 | ug/l | 85 | 850 |
| 1,1-Dichloroethene | 777 | PBN-1303D | 9/24/2024 | 1 | 0.12 | 0.1 | 0.2 | ug/l | 0.7 | 7 |
| Ethyl ether | 777 | PBN-1303D | 9/24/2024 | 1 | 2.9 | 0.1 | 0.2 | ug/l | 100 | 1000 |
| 1,1,1-Trichloroethane | 778 | PBN-1304A | 9/24/2024 | 1 | 0.22 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Carbon tetrachloride | 778 | PBN-1304A | 9/24/2024 | 1 | 0.44 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 778 | PBN-1304A | 9/24/2024 | 1 | 0.13 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| 1,1,1-Trichloroethane | 779 | PBN-1304B | 9/24/2024 | 2 | 0.24 | 0.1 | 0.2 | ug/l | 40 | 200 |
| 1,1,1-Trichloroethane | 779 | PBN-1304B | 9/24/2024 | 1 | 0.26 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Carbon tetrachloride | 779 | PBN-1304B | 9/24/2024 | 1 | 0.54 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 779 | PBN-1304B | 9/24/2024 | 2 | 0.53 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 779 | PBN-1304B | 9/24/2024 | 2 | 0.18 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Chloroform | 779 | PBN-1304B | 9/24/2024 | 1 | 0.17 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| 1,1,1-Trichloroethane | 780 | PBN-1304C | 9/24/2024 | 1 | 0.42 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Carbon tetrachloride | 780 | PBN-1304C | 9/24/2024 | 1 | 0.86 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 780 | PBN-1304C | 9/24/2024 | 1 | 0.25 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| 1,1-Dichloroethane | 781 | PBN-1304D | 9/24/2024 | 1 | 0.54 | 0.1 | 0.2 | ug/l | 85 | 850 |
| 2,3-Dinitrotoluene | 782 | PBN-1401A | 9/16/2024 | 1 | 0.49 | 0.006 | 0.05 | ug/l | | |
| 2,4-Dinitrotoluene | 782 | PBN-1401A | 9/16/2024 | 1 | 0.036 | 0.008 | 0.05 | ug/l | 0.005 | 0.05 |
| 2,5-Dinitrotoluene | 782 | PBN-1401A | 9/16/2024 | 1 | 0.026 | 0.005 | 0.05 | ug/l | | |
| 2,6-Dinitrotoluene | 782 | PBN-1401A | 9/16/2024 | 1 | 0.052 | 0.005 | 0.05 | ug/l | 0.005 | 0.05 |
| 3,4-Dinitrotoluene | 782 | PBN-1401A | 9/16/2024 | 1 | 0.088 | 0.005 | 0.05 | ug/l | | |
| 3,5-Dinitrotoluene | 782 | PBN-1401A | 9/16/2024 | 1 | 0.046 | 0.005 | 0.05 | ug/l | | |
| Total Dinitrotoluenes | 782 | PBN-1401A | 9/16/2024 | 1 | 0.738 | 0.008 | 0.05 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 782 | PBN-1401A | 9/16/2024 | 1 | 0.15 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 2,3-Dinitrotoluene | 783 | PBN-1401B | 9/16/2024 | 1 | 0.52 | 0.0065 | 0.054 | ug/l | | |
| 2,4-Dinitrotoluene | 783 | PBN-1401B | 9/16/2024 | 1 | 0.046 | 0.0086 | 0.054 | ug/l | 0.005 | 0.05 |
| 2,5-Dinitrotoluene | 783 | PBN-1401B | 9/16/2024 | 1 | 0.025 | 0.0054 | 0.054 | ug/l | | |
| 2,6-Dinitrotoluene | 783 | PBN-1401B | 9/16/2024 | 1 | 0.054 | 0.0054 | 0.054 | ug/l | 0.005 | 0.05 |

| Parameter Name | Well | Well Name | Date | Dup | Result | LOD | LOQ | Units | PAL | ES |
|-----------------------|------|------------|-----------|-----|--------|--------|-------|-------|-------|------|
| 3,4-Dinitrotoluene | 783 | PBN-1401B | 9/16/2024 | 1 | 0.098 | 0.0054 | 0.054 | ug/l | | |
| 3,5-Dinitrotoluene | 783 | PBN-1401B | 9/16/2024 | 1 | 0.05 | 0.0054 | 0.054 | ug/l | | |
| Total Dinitrotoluenes | 783 | PBN-1401B | 9/16/2024 | 1 | 0.793 | 0.0086 | 0.054 | ug/l | 0.005 | 0.05 |
| 2,3-Dinitrotoluene | 784 | PBN-1401C | 9/16/2024 | 1 | 0.023 | 0.0059 | 0.049 | ug/l | | |
| 3,4-Dinitrotoluene | 784 | PBN-1401C | 9/16/2024 | 1 | 0.022 | 0.0049 | 0.049 | ug/l | | |
| Total Dinitrotoluenes | 784 | PBN-1401C | 9/16/2024 | 1 | 0.045 | 0.0078 | 0.049 | ug/l | 0.005 | 0.05 |
| 1,1,1-Trichloroethane | 791 | PBN-1404B | 9/23/2024 | 1 | 0.2 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Carbon tetrachloride | 791 | PBN-1404B | 9/23/2024 | 1 | 3.3 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 791 | PBN-1404B | 9/23/2024 | 1 | 0.44 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Trichloroethene | 791 | PBN-1404B | 9/23/2024 | 1 | 0.66 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Bromodichloromethane | 792 | PBN-1404C | 9/23/2024 | 1 | 0.12 | 0.1 | 0.2 | ug/l | 0.06 | 0.6 |
| Carbon tetrachloride | 792 | PBN-1404C | 9/23/2024 | 1 | 0.28 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 792 | PBN-1404C | 9/23/2024 | 1 | 0.83 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Trichloroethene | 792 | PBN-1404C | 9/23/2024 | 1 | 0.16 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Ethyl ether | 793 | PBN-1404D | 9/23/2024 | 1 | 54 | 1 | 2 | ug/l | 100 | 1000 |
| Ethyl ether | 793 | PBN-1404D | 9/23/2024 | 2 | 53 | 1 | 2 | ug/l | 100 | 1000 |
| 1,1,1-Trichloroethane | 795 | PBN-8902BR | 9/19/2024 | 1 | 0.13 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Carbon tetrachloride | 795 | PBN-8902BR | 9/19/2024 | 1 | 1.7 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 795 | PBN-8902BR | 9/19/2024 | 1 | 0.13 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Trichloroethene | 795 | PBN-8902BR | 9/19/2024 | 1 | 0.51 | 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@SpecProSvcS.com

| Facility name: | License # / Monitoring ID | Facility ID [FID] | Actual sampling dates (e.g., July 2-6, 2003) |
|----------------------------------|---------------------------|---------------------|--|
| BAAP - Deterrent Burning Grounds | 03037 | 157065260 | 9/10 - 9/11/24 |

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

September 2024

Type of Data Submitted (Check all that apply)

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

Notification attached?

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

Certification

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

Joel Janssen

Project Manager

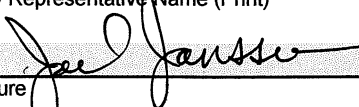
(608) 438-1110

Facility Representative Name (Print)

Title

(Area Code) Telephone No.

Signature



Date

11/19/24

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

- Found uploading problems on _____ Initials _____
- Notified contact of problems on _____ Uploaded data successfully on _____

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

Case Narrative
Groundwater Monitoring
License Number 3037
Deterrent Burning Grounds
September 2024
Badger Army Ammunition Plant

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

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

2,4-DNT exceeded the Preventive Action Limit (PAL) in DBM-8201 (301) and DBN-1002C (476). 2,6-DNT exceeded the PAL in DBM-8201 (301).

DNT analysis was also performed by CT Laboratories using method SW 8270DSIM. 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 2024

Report Date: 11/18/2024

| Parameter Name | Lic No. | Well No. | Well Name | Date | Dup | Result | Units | PAL | ES |
|-----------------------|----------------|-----------------|------------------|-------------|------------|---------------|--------------|------------|-----------|
| 2,4-Dinitrotoluene | 3037 | 301 | DBM-8201 | 9/10/2024 | 1 | 0.018 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 3037 | 301 | DBM-8201 | 9/10/2024 | 1 | 0.044 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 3037 | 301 | DBM-8201 | 9/10/2024 | 1 | 1.322 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 3037 | 302 | DBM-8202 | 9/10/2024 | 1 | 0.196 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 3037 | 472 | DBN-1001B | 9/10/2024 | 1 | 0.207 | ug/l | 0.005 | 0.05 |
| 2,4-Dinitrotoluene | 3037 | 476 | DBN-1002C | 9/10/2024 | 1 | 0.013 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 3037 | 476 | DBN-1002C | 9/10/2024 | 1 | 0.353 | ug/l | 0.005 | 0.05 |

Badger Army Ammunition Plant

SpecPro Professional Services, LLC

September 2024

GROUNDWATER MONITORING ALL HITS REPORT

License No: 3037

Report Date: 11/18/2024

| Parameter Name | Well | Well Name | Date | Dup | Result | LOD | LOQ | Units | PAL | ES |
|-----------------------|------|-----------|-----------|-----|--------|--------|-------|-------|-------|------|
| 2,3-Dinitrotoluene | 301 | DBM-8201 | 9/10/2024 | 1 | 0.73 | 0.006 | 0.05 | ug/l | | |
| 2,4-Dinitrotoluene | 301 | DBM-8201 | 9/10/2024 | 1 | 0.018 | 0.008 | 0.05 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 301 | DBM-8201 | 9/10/2024 | 1 | 0.044 | 0.005 | 0.05 | ug/l | 0.005 | 0.05 |
| 3,4-Dinitrotoluene | 301 | DBM-8201 | 9/10/2024 | 1 | 0.21 | 0.005 | 0.05 | ug/l | | |
| 3,5-Dinitrotoluene | 301 | DBM-8201 | 9/10/2024 | 1 | 0.32 | 0.005 | 0.05 | ug/l | | |
| Total Dinitrotoluenes | 301 | DBM-8201 | 9/10/2024 | 1 | 1.322 | 0.008 | 0.05 | ug/l | 0.005 | 0.05 |
| 2,3-Dinitrotoluene | 302 | DBM-8202 | 9/10/2024 | 1 | 0.11 | 0.0057 | 0.048 | ug/l | | |
| 3,4-Dinitrotoluene | 302 | DBM-8202 | 9/10/2024 | 1 | 0.023 | 0.0048 | 0.048 | ug/l | | |
| 3,5-Dinitrotoluene | 302 | DBM-8202 | 9/10/2024 | 1 | 0.063 | 0.0048 | 0.048 | ug/l | | |
| Total Dinitrotoluenes | 302 | DBM-8202 | 9/10/2024 | 1 | 0.196 | 0.0076 | 0.048 | ug/l | 0.005 | 0.05 |
| 2,3-Dinitrotoluene | 472 | DBN-1001B | 9/10/2024 | 1 | 0.062 | 0.006 | 0.05 | ug/l | | |
| 3,4-Dinitrotoluene | 472 | DBN-1001B | 9/10/2024 | 1 | 0.13 | 0.005 | 0.05 | ug/l | | |
| 3,5-Dinitrotoluene | 472 | DBN-1001B | 9/10/2024 | 1 | 0.015 | 0.005 | 0.05 | ug/l | | |
| Total Dinitrotoluenes | 472 | DBN-1001B | 9/10/2024 | 1 | 0.207 | 0.008 | 0.05 | ug/l | 0.005 | 0.05 |
| 2,3-Dinitrotoluene | 476 | DBN-1002C | 9/10/2024 | 1 | 0.16 | 0.0058 | 0.048 | ug/l | | |
| 2,4-Dinitrotoluene | 476 | DBN-1002C | 9/10/2024 | 1 | 0.013 | 0.0077 | 0.048 | ug/l | 0.005 | 0.05 |
| 3,4-Dinitrotoluene | 476 | DBN-1002C | 9/10/2024 | 1 | 0.15 | 0.0048 | 0.048 | ug/l | | |
| 3,5-Dinitrotoluene | 476 | DBN-1002C | 9/10/2024 | 1 | 0.03 | 0.0048 | 0.048 | ug/l | | |
| Total Dinitrotoluenes | 476 | DBN-1002C | 9/10/2024 | 1 | 0.353 | 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@SpecProSvcS.com

| Facility name: | License # / Monitoring ID | Facility ID [FID] | Actual sampling dates (e.g., July 2-6, 2003) |
|---------------------------|---------------------------|---------------------|--|
| BAAP - Southeast Boundary | 03038 | 157005530 | 9/9/24 |

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

September 2024

Type of Data Submitted (Check all that apply)

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

Notification attached?

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

Certification

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

Joel Janssen

Project Manager

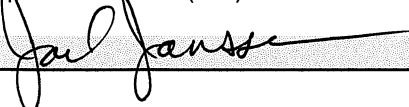
(608) 438-1110

Facility Representative Name (Print)

Title

(Area Code) Telephone No.

Signature



Date

11/19/24

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

Found uploading problems on _____ Initials _____

Notified contact of problems on _____ Uploaded data successfully on _____

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

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

Groundwater is currently being monitored by the facility because of past production activities. One monitoring 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 also performed by CT Laboratories using method SW 8270DSIM. 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 | 9/18 - 9/25/24 |

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

September 2024

Type of Data Submitted (Check all that apply)

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

Notification attached?

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

Certification

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

Joel Janssen

Project Manager

(608) 438-1110

Facility Representative Name (Print)

Title

(Area Code) Telephone No.

Signature

Date

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

Found uploading problems on _____ Initials _____

Notified contact of problems on _____ Uploaded data successfully on _____

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

Case Narrative
Groundwater Monitoring
License Number 3485 & 3493
Off-Site Plume Wells
September 2024
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 monitoring wells associated with these licenses. Sixteen (16) monitoring 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 PBN-9101C (561). 2,4-DNT and 2,6-DNT exceeded the Preventive Action Limit (PAL) in PBN-9101C (561).

Carbon tetrachloride exceeded the 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).

Ethyl ether exceeded the ES in SWN-9103D (573).

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 8270DSIM. 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 2024

Report Date: 11/18/2024

| Parameter Name | Lic No. | Well No. | Well Name | Date | Dup | Result | Units | PAL | ES |
|-----------------------|----------------|-----------------|------------------|-------------|------------|---------------|--------------|------------|-----------|
| Carbon tetrachloride | 3485 | 981 | PBM-9001D | 9/18/2024 | 1 | 7.2 | ug/l | 0.5 | 5 |
| Trichloroethene | 3485 | 981 | PBM-9001D | 9/18/2024 | 1 | 1.4 | ug/l | 0.5 | 5 |

Badger Army Ammunition Plant

SpecPro Professional Services, LLC

September 2024

GROUNDWATER MONITORING ALL HITS REPORT

License No: 3485

Report Date: 11/18/2024

| Parameter Name | Well | Well Name | Date | Dup | Result | LOD | LOQ | Units | PAL | ES |
|-----------------------|------|-----------|-----------|-----|--------|-----|-----|-------|-----|------|
| 1,1,1-Trichloroethane | 981 | PBM-9001D | 9/18/2024 | 1 | 0.12 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Carbon tetrachloride | 981 | PBM-9001D | 9/18/2024 | 1 | 7.2 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 981 | PBM-9001D | 9/18/2024 | 1 | 0.36 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Toluene | 981 | PBM-9001D | 9/18/2024 | 1 | 0.14 | 0.1 | 0.2 | ug/l | 160 | 800 |
| Trichloroethene | 981 | PBM-9001D | 9/18/2024 | 1 | 1.4 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Ethyl ether | 982 | PBM-9002D | 9/25/2024 | 1 | 0.15 | 0.1 | 0.2 | ug/l | 100 | 1000 |

Badger Army Ammunition Plant

SpecPro Professional Services, LLC

GROUNDWATER MONITORING EXCEEDANCE REPORT

September 2024

Report Date: 11/18/2024

| Parameter Name | Lic No. | Well No. | Well Name | Date | Dup | Result | Units | PAL | ES |
|-----------------------|----------------|-----------------|------------------|-------------|------------|---------------|--------------|------------|-----------|
| 2,4-Dinitrotoluene | 3493 | 561 | PBN-9101C | 9/18/2024 | 1 | 0.019 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 3493 | 561 | PBN-9101C | 9/18/2024 | 1 | 0.031 | ug/l | 0.005 | 0.05 |
| Carbon tetrachloride | 3493 | 561 | PBN-9101C | 9/18/2024 | 1 | 7.7 | ug/l | 0.5 | 5 |
| Total Dinitrotoluenes | 3493 | 561 | PBN-9101C | 9/18/2024 | 1 | 0.064 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 3493 | 561 | PBN-9101C | 9/18/2024 | 1 | 1.5 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 3493 | 571 | SWN-9103B | 9/18/2024 | 1 | 0.95 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 3493 | 573 | SWN-9103D | 9/18/2024 | 1 | 0.96 | ug/l | 0.5 | 5 |
| Ethyl ether | 3493 | 573 | SWN-9103D | 9/18/2024 | 1 | 1400 | ug/l | 100 | 1000 |
| Carbon tetrachloride | 3493 | 575 | SWN-9104C | 9/18/2024 | 1 | 3.2 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 3493 | 576 | SWN-9104D | 9/18/2024 | 1 | 4.2 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 3493 | 579 | SWN-9105D | 9/18/2024 | 1 | 0.7 | ug/l | 0.5 | 5 |

Badger Army Ammunition Plant

SpecPro Professional Services, LLC

September 2024

GROUNDWATER MONITORING ALL HITS REPORT

License No: 3493

Report Date: 11/18/2024

| Parameter Name | Well | Well Name | Date | Dup | Result | LOD | LOQ | Units | PAL | ES |
|-----------------------|------|-----------|-----------|-----|--------|--------|-------|-------|-------|------|
| 2,3-Dinitrotoluene | 561 | PBN-9101C | 9/18/2024 | 1 | 0.014 | 0.0058 | 0.048 | ug/l | | |
| 2,4-Dinitrotoluene | 561 | PBN-9101C | 9/18/2024 | 1 | 0.019 | 0.0077 | 0.048 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 561 | PBN-9101C | 9/18/2024 | 1 | 0.031 | 0.0048 | 0.048 | ug/l | 0.005 | 0.05 |
| Carbon tetrachloride | 561 | PBN-9101C | 9/18/2024 | 1 | 7.7 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 561 | PBN-9101C | 9/18/2024 | 1 | 0.41 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Total Dinitrotoluenes | 561 | PBN-9101C | 9/18/2024 | 1 | 0.064 | 0.0077 | 0.048 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 561 | PBN-9101C | 9/18/2024 | 1 | 1.5 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 1,1,1-Trichloroethane | 571 | SWN-9103B | 9/18/2024 | 1 | 0.13 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Carbon tetrachloride | 571 | SWN-9103B | 9/18/2024 | 1 | 0.95 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Trichloroethene | 571 | SWN-9103B | 9/18/2024 | 1 | 0.13 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 573 | SWN-9103D | 9/18/2024 | 1 | 0.96 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 573 | SWN-9103D | 9/18/2024 | 1 | 0.18 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Ethyl ether | 573 | SWN-9103D | 9/18/2024 | 1 | 1400 | 20 | 40 | ug/l | 100 | 1000 |
| Trichloroethene | 573 | SWN-9103D | 9/18/2024 | 1 | 0.27 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Ethyl ether | 574 | SWN-9103E | 9/18/2024 | 1 | 7 | 0.1 | 0.2 | ug/l | 100 | 1000 |
| 1,1,1-Trichloroethane | 575 | SWN-9104C | 9/18/2024 | 1 | 0.36 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Carbon tetrachloride | 575 | SWN-9104C | 9/18/2024 | 1 | 3.2 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 575 | SWN-9104C | 9/18/2024 | 1 | 0.34 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| 1,1,1-Trichloroethane | 576 | SWN-9104D | 9/18/2024 | 1 | 0.22 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Carbon tetrachloride | 576 | SWN-9104D | 9/18/2024 | 1 | 4.2 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 576 | SWN-9104D | 9/18/2024 | 1 | 0.42 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| 1,1,1-Trichloroethane | 577 | SWN-9105B | 9/18/2024 | 1 | 0.18 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Carbon tetrachloride | 577 | SWN-9105B | 9/18/2024 | 1 | 0.4 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 577 | SWN-9105B | 9/18/2024 | 1 | 0.13 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Carbon tetrachloride | 578 | SWN-9105C | 9/18/2024 | 1 | 0.4 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 578 | SWN-9105C | 9/18/2024 | 1 | 0.25 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| 1,1,1-Trichloroethane | 579 | SWN-9105D | 9/18/2024 | 1 | 0.16 | 0.1 | 0.2 | ug/l | 40 | 200 |
| Carbon tetrachloride | 579 | SWN-9105D | 9/18/2024 | 1 | 0.7 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 579 | SWN-9105D | 9/18/2024 | 1 | 0.34 | 0.1 | 0.2 | ug/l | 0.6 | 6 |

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

Instructions:

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

Monitoring Data Submittal Information

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

SpecPro Professional Services - Badger Army Ammunition Plant

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

Name: Joel Janssen

Phone: (608) 438-1110

E-mail: Joel.Janssen@SpecProSvc.com

| Facility name: | License # / Monitoring ID | Facility ID [FID] | Actual sampling dates (e.g., July 2-6, 2003) |
|--|---------------------------|---------------------|--|
| BAAP - Nitroglycerine Pond/Rocket Paste Area | 03487 | 157005530 | 9/9 - 9/25/24 |

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

September 2024

Type of Data Submitted (Check all that apply)

- Groundwater monitoring data from monitoring wells
 Groundwater monitoring data from private water supply wells
 Leachate monitoring data
 Gas monitoring data
 Air monitoring data
 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

11/19/24

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

- Found uploading problems on _____ Initials _____
 Notified contact of problems on _____ Uploaded data successfully on _____

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

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

Groundwater is currently being monitored by the facility because of past production activities. Seven (7) monitoring wells were sampled to assist with determining the degree and lateral extent of dinitrotoluene (DNT) in the Nitrocellulose Production Area Plume. One monitoring well, RIN-1003A, was sampled in the Central Plume to supplement the June 2024 sampling round. No DNT isomers were detected in RIN-1003A.

Total DNT exceeded the Enforcement Standard (ES) in RIM-0705 (442) and RIN-1001A (480).

2,4-DNT and 2,6-DNT exceeded the Preventive Action Limit (PAL) in RIM-0705 (442), RIM-1002 (478), RIN-1001A (480), and S1125 (504). Total DNT exceeded the PAL in RIM-1002 (478) and S1125 (504).

DNT analysis was performed by CT Laboratories using method SW 8270DSIM. 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 2024

Report Date: 11/18/2024

| Parameter Name | Lic No. | Well No. | Well Name | Date | Dup | Result | Units | PAL | ES |
|-----------------------|----------------|-----------------|------------------|-------------|------------|---------------|--------------|------------|-----------|
| 2,4-Dinitrotoluene | 3487 | 442 | RIM-0705 | 9/9/2024 | 1 | 0.035 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 3487 | 442 | RIM-0705 | 9/9/2024 | 1 | 0.039 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 3487 | 442 | RIM-0705 | 9/9/2024 | 1 | 0.074 | ug/l | 0.005 | 0.05 |
| 2,4-Dinitrotoluene | 3487 | 478 | RIM-1002 | 9/25/2024 | 1 | 0.027 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 3487 | 478 | RIM-1002 | 9/25/2024 | 1 | 0.021 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 3487 | 478 | RIM-1002 | 9/25/2024 | 1 | 0.048 | ug/l | 0.005 | 0.05 |
| 2,4-Dinitrotoluene | 3487 | 480 | RIN-1001A | 9/9/2024 | 1 | 0.03 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 3487 | 480 | RIN-1001A | 9/9/2024 | 1 | 0.039 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 3487 | 480 | RIN-1001A | 9/9/2024 | 1 | 0.069 | ug/l | 0.005 | 0.05 |
| 2,4-Dinitrotoluene | 3487 | 504 | S1125 | 9/9/2024 | 1 | 0.017 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 3487 | 504 | S1125 | 9/9/2024 | 1 | 0.016 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 3487 | 504 | S1125 | 9/9/2024 | 1 | 0.033 | ug/l | 0.005 | 0.05 |

Badger Army Ammunition Plant

SpecPro Professional Services, LLC

September 2024

GROUNDWATER MONITORING ALL HITS REPORT

License No: 3487

Report Date: 11/18/2024

| Parameter Name | Well | Well Name | Date | Dup | Result | LOD | LOQ | Units | PAL | ES |
|-----------------------|------|-----------|-----------|-----|--------|--------|-------|-------|-------|------|
| 2,4-Dinitrotoluene | 442 | RIM-0705 | 9/9/2024 | 1 | 0.035 | 0.0078 | 0.049 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 442 | RIM-0705 | 9/9/2024 | 1 | 0.039 | 0.0049 | 0.049 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 442 | RIM-0705 | 9/9/2024 | 1 | 0.074 | 0.0078 | 0.049 | ug/l | 0.005 | 0.05 |
| 2,4-Dinitrotoluene | 478 | RIM-1002 | 9/25/2024 | 1 | 0.027 | 0.0078 | 0.049 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 478 | RIM-1002 | 9/25/2024 | 1 | 0.021 | 0.0049 | 0.049 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 478 | RIM-1002 | 9/25/2024 | 1 | 0.048 | 0.0078 | 0.049 | ug/l | 0.005 | 0.05 |
| 2,4-Dinitrotoluene | 480 | RIN-1001A | 9/9/2024 | 1 | 0.03 | 0.0078 | 0.049 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 480 | RIN-1001A | 9/9/2024 | 1 | 0.039 | 0.0049 | 0.049 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 480 | RIN-1001A | 9/9/2024 | 1 | 0.069 | 0.0078 | 0.049 | ug/l | 0.005 | 0.05 |
| 2,4-Dinitrotoluene | 504 | S1125 | 9/9/2024 | 1 | 0.017 | 0.0089 | 0.056 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 504 | S1125 | 9/9/2024 | 1 | 0.016 | 0.0056 | 0.056 | ug/l | 0.005 | 0.05 |
| Total Dinitrotoluenes | 504 | S1125 | 9/9/2024 | 1 | 0.033 | 0.0089 | 0.056 | 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 | 9/12 - 9/19/24 |

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

September 2024

Type of Data Submitted (Check all that apply)

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

Notification attached?

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

Certification

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

Joel Janssen

Project Manager

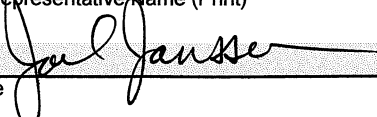
(608) 438-1110

Facility Representative Name (Print)

Title

(Area Code) Telephone No.

Signature



Date

11/19/24

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

- Found uploading problems on _____ Initials _____
- Notified contact of problems on _____ Uploaded data successfully on _____

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

Case Narrative
Groundwater Monitoring
License Number 3499
Settling Ponds
September 2024
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 monitoring wells associated with this license. Eight (8) monitoring 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-8904B (720) and SPN-8904C (721).

Carbon tetrachloride exceeded the PAL in SPN-8903B (718), 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 8270DSIM. 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 2024

Report Date: 11/18/2024

| Parameter Name | Lic No. | Well No. | Well Name | Date | Dup | Result | Units | PAL | ES |
|-----------------------|----------------|-----------------|------------------|-------------|------------|---------------|--------------|------------|-----------|
| Carbon tetrachloride | 3499 | 718 | SPN-8903B | 9/19/2024 | 1 | 0.65 | ug/l | 0.5 | 5 |
| 2,6-Dinitrotoluene | 3499 | 720 | SPN-8904B | 9/12/2024 | 1 | 0.016 | ug/l | 0.005 | 0.05 |
| Carbon tetrachloride | 3499 | 720 | SPN-8904B | 9/12/2024 | 1 | 1.5 | ug/l | 0.5 | 5 |
| Total Dinitrotoluenes | 3499 | 720 | SPN-8904B | 9/12/2024 | 1 | 0.087 | ug/l | 0.005 | 0.05 |
| 2,6-Dinitrotoluene | 3499 | 721 | SPN-8904C | 9/12/2024 | 1 | 0.02 | ug/l | 0.005 | 0.05 |
| Carbon tetrachloride | 3499 | 721 | SPN-8904C | 9/12/2024 | 1 | 2 | ug/l | 0.5 | 5 |
| Total Dinitrotoluenes | 3499 | 721 | SPN-8904C | 9/12/2024 | 1 | 0.114 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 3499 | 721 | SPN-8904C | 9/12/2024 | 1 | 0.87 | ug/l | 0.5 | 5 |
| Ethyl ether | 3499 | 726 | SPN-9104D | 9/12/2024 | 1 | 280 | ug/l | 100 | 1000 |

Badger Army Ammunition Plant

SpecPro Professional Services, LLC

September 2024

GROUNDWATER MONITORING ALL HITS REPORT

License No: 3499

Report Date: 11/18/2024

| Parameter Name | Well | Well Name | Date | Dup | Result | LOD | LOQ | Units | PAL | ES |
|-----------------------|------|-----------|-----------|-----|--------|--------|-------|-------|-------|------|
| Carbon tetrachloride | 718 | SPN-8903B | 9/19/2024 | 1 | 0.65 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Carbon tetrachloride | 719 | SPN-8903C | 9/19/2024 | 1 | 0.49 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 719 | SPN-8903C | 9/19/2024 | 1 | 0.34 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| 1,1,1-Trichloroethane | 720 | SPN-8904B | 9/12/2024 | 1 | 0.12 | 0.1 | 0.2 | ug/l | 40 | 200 |
| 2,3-Dinitrotoluene | 720 | SPN-8904B | 9/12/2024 | 1 | 0.043 | 0.0059 | 0.05 | ug/l | | |
| 2,6-Dinitrotoluene | 720 | SPN-8904B | 9/12/2024 | 1 | 0.016 | 0.005 | 0.05 | ug/l | 0.005 | 0.05 |
| 3,4-Dinitrotoluene | 720 | SPN-8904B | 9/12/2024 | 1 | 0.028 | 0.005 | 0.05 | ug/l | | |
| Carbon tetrachloride | 720 | SPN-8904B | 9/12/2024 | 1 | 1.5 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 720 | SPN-8904B | 9/12/2024 | 1 | 0.19 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Total Dinitrotoluenes | 720 | SPN-8904B | 9/12/2024 | 1 | 0.087 | 0.0079 | 0.05 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 720 | SPN-8904B | 9/12/2024 | 1 | 0.47 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| 1,1,1-Trichloroethane | 721 | SPN-8904C | 9/12/2024 | 1 | 0.17 | 0.1 | 0.2 | ug/l | 40 | 200 |
| 2,3-Dinitrotoluene | 721 | SPN-8904C | 9/12/2024 | 1 | 0.059 | 0.0062 | 0.052 | ug/l | | |
| 2,6-Dinitrotoluene | 721 | SPN-8904C | 9/12/2024 | 1 | 0.02 | 0.0052 | 0.052 | ug/l | 0.005 | 0.05 |
| 3,4-Dinitrotoluene | 721 | SPN-8904C | 9/12/2024 | 1 | 0.035 | 0.0052 | 0.052 | ug/l | | |
| Carbon tetrachloride | 721 | SPN-8904C | 9/12/2024 | 1 | 2 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Chloroform | 721 | SPN-8904C | 9/12/2024 | 1 | 0.3 | 0.1 | 0.2 | ug/l | 0.6 | 6 |
| Total Dinitrotoluenes | 721 | SPN-8904C | 9/12/2024 | 1 | 0.114 | 0.0082 | 0.052 | ug/l | 0.005 | 0.05 |
| Trichloroethene | 721 | SPN-8904C | 9/12/2024 | 1 | 0.87 | 0.1 | 0.2 | ug/l | 0.5 | 5 |
| Ethyl ether | 726 | SPN-9104D | 9/12/2024 | 1 | 280 | 5 | 10 | ug/l | 100 | 1000 |