

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

Instructions:

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

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

Monitoring Data Submittal Information

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

SpecPro Professional Services - Badger Army Ammunition Plant

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

Name: Joel Janssen

Phone: (608) 438-1110

E-mail: Joel.Janssen@SpecProSvc.com

Facility name: License # / Monitoring ID Facility ID [FID] Actual sampling dates (e.g., July 2-6, 2003)

BAAP - Off-Site Residential Wells	03497	157005530	8/10 - 8/20/20
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The enclosed results are for sampling required in the month(s) of: (e.g., June 2003)

August 2020

Type of Data Submitted (Check all that apply)

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

Notification attached?

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

Certification

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

Joel Janssen

Project Manager

(608) 438-1110

Facility Representative Name (Print)

Title

(Area Code) Telephone No.

Signature

Date

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 3497
Off-Site Residential Wells
August 2020
Badger Army Ammunition Plant

Groundwater is currently being monitored by the facility because of past production activities. Fifty-two residential wells were sampled.

2,6-Dinitrotoluene (DNT) and total DNT exceeded the Preventive Action Limit (PAL) in WE-XK342 (435).

Carbon tetrachloride exceeded the PAL in Schlender (931).

Chloroform exceeded the PAL in WE-QN039 (158), WE-SQ017 (164), and WE-SQ001 (165).

Trichloroethene exceeded the PAL in Potts (411) and Wenger (414).

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

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

SpecPro Professional Services, LLC

Badger Army Ammunition Plant

GROUNDWATER MONITORING EXCEEDANCE REPORT

August 2020

Report Date: 9/14/2020

Parameter Name	Lic No.	Well No.	Well Name	Date	Dup	Result	Units	PAL	ES
Chloroform	3497	158	WE-QN039	8/11/2020	1	0.63	ug/l	0.6	6
Chloroform	3497	164	WE-SQ017	8/11/2020	1	1.8	ug/l	0.6	6
Chloroform	3497	165	WE-SQ001	8/11/2020	1	2	ug/l	0.6	6
Trichloroethene	3497	411	Potts	8/12/2020	1	1.7	ug/l	0.5	5
Trichloroethene	3497	414	Wenger	8/12/2020	1	0.8	ug/l	0.5	5
2,6-Dinitrotoluene	3497	435	WE-XK342	8/11/2020	1	0.039	ug/l	0.005	0.05
2,6-Dinitrotoluene	3497	435	WE-XK342	8/11/2020	2	0.036	ug/l	0.005	0.05
Total Dinitrotoluenes	3497	435	WE-XK342	8/11/2020	1	0.039	ug/l	0.005	0.05
Total Dinitrotoluenes	3497	435	WE-XK342	8/11/2020	2	0.036	ug/l	0.005	0.05
Carbon tetrachloride	3497	931	Schlender	8/10/2020	1	0.61	ug/l	0.5	5
Carbon tetrachloride	3497	931	Schlender	8/10/2020	2	0.56	ug/l	0.5	5

SpecPro Professional Services, LLC

Badger Army Ammunition Plant

August 2020

GROUNDWATER MONITORING ALL HITS REPORT

License No: 3497

Report Date: 9/14/2020

Parameter Name	Well	Well Name	Date	Dup	Result	LOD	LOQ	Units	PAL	ES
Ethyl ether	152	McGraw	8/10/2020	1	0.19	0.1	0.2	ug/l	100	1000
Chloroform	157	WE-QR441	8/11/2020	1	0.21	0.1	0.2	ug/l	0.6	6
Chloroform	158	WE-QN039	8/11/2020	1	0.63	0.1	0.2	ug/l	0.6	6
Toluene	163	Purcell-D	8/10/2020	1	0.4	0.1	0.2	ug/l	160	800
Carbon tetrachloride	164	WE-SQ017	8/11/2020	1	0.14	0.1	0.2	ug/l	0.5	5
Chloroform	164	WE-SQ017	8/11/2020	1	1.8	0.1	0.2	ug/l	0.6	6
Carbon tetrachloride	165	WE-SQ001	8/11/2020	1	0.13	0.1	0.2	ug/l	0.5	5
Chloroform	165	WE-SQ001	8/11/2020	1	2	0.1	0.2	ug/l	0.6	6
Trichloroethene	411	Potts	8/12/2020	1	1.7	0.1	0.2	ug/l	0.5	5
Trichloroethene	414	Wenger	8/12/2020	1	0.8	0.1	0.2	ug/l	0.5	5
2,6-Dinitrotoluene	435	WE-XK342	8/11/2020	1	0.039	0.0041	0.031	ug/l	0.005	0.05
2,6-Dinitrotoluene	435	WE-XK342	8/11/2020	2	0.036	0.0041	0.031	ug/l	0.005	0.05
Chloroform	435	WE-XK342	8/11/2020	1	0.16	0.1	0.2	ug/l	0.6	6
Chloroform	435	WE-XK342	8/11/2020	2	0.18	0.1	0.2	ug/l	0.6	6
Total Dinitrotoluenes	435	WE-XK342	8/11/2020	1	0.039	0.0082	0.031	ug/l	0.005	0.05
Total Dinitrotoluenes	435	WE-XK342	8/11/2020	2	0.036	0.0082	0.031	ug/l	0.005	0.05
Chloroform	799	WE-AAB891	8/11/2020	1	0.19	0.1	0.2	ug/l	0.6	6
1,1,2-Trichloroethane	803	Spear	8/10/2020	1	0.32	0.2	0.4	ug/l	0.5	5
Chloroform	862	Judd	8/10/2020	1	0.17	0.1	0.2	ug/l	0.6	6
1,1,1-Trichloroethane	875	Krumenauer	8/10/2020	1	0.24	0.1	0.2	ug/l	40	200
Carbon tetrachloride	875	Krumenauer	8/10/2020	1	0.38	0.1	0.2	ug/l	0.5	5
Chloroform	875	Krumenauer	8/10/2020	1	0.24	0.1	0.2	ug/l	0.6	6
m & p-Xylene	916	Purcell-G	8/10/2020	1	0.24	0.2	0.4	ug/l	400	2000
o-Xylene	916	Purcell-G	8/10/2020	1	0.13	0.1	0.2	ug/l	400	2000
Toluene	916	Purcell-G	8/10/2020	1	1.8	0.1	0.2	ug/l	160	800
Carbon tetrachloride	931	Schlender	8/10/2020	1	0.61	0.1	0.2	ug/l	0.5	5
Carbon tetrachloride	931	Schlender	8/10/2020	2	0.56	0.1	0.2	ug/l	0.5	5
Chloroform	931	Schlender	8/10/2020	2	0.32	0.1	0.2	ug/l	0.6	6
Chloroform	931	Schlender	8/10/2020	1	0.33	0.1	0.2	ug/l	0.6	6
1,1,1-Trichloroethane	998	Apel	8/10/2020	1	0.22	0.1	0.2	ug/l	40	200
Carbon tetrachloride	998	Apel	8/10/2020	1	0.37	0.1	0.2	ug/l	0.5	5
Chloroform	998	Apel	8/10/2020	1	0.19	0.1	0.2	ug/l	0.6	6

Residential Well Sampling List
August 2020

Well Name	Well ID	Results	DNT Sampled	VOC Sampled	Comments
USDA 3	126	X	X		duplicate
USDA 6	128				<i>well not operating; no sample collected</i>
WE-TM599	129	X	X		Riordan, Water's Edge Group
McGraw	152	X	X	X	
WE-RM383	153	X	X		Freidag, Rossing, Water's Edge Group
WE-RR542	156	X	X		Cairns, Sherpe, Water's Edge Group
WE-QR441	157	X	X	X	Pattarozzi, Heath, Hemberger, Water's Edge Group
WE-QN039	158	X	X	X	Layton, Hilgemann, Water's Edge Group
WE-RD430	159	X	X		Bastien/Eddy, Zimmerman, Ford, Water's Edge Group
Purcell-D	163	X	X	X	
WE-SQ017	164	X	X	X	Thompson, Water's Edge Group
WE-SQ001	165	X	X	X	Schwarz, Rosenau, Water's Edge Group
WE-RR598	169	X	X		Chow, Gruber, Hall, Wenger, Water's Edge Group
WE-SQ002	170	X	X		Ramaker, Neumaier, Water's Edge Group
WE-TF023	174	X	X		Minor, Water's Edge Group
Potts	411	X	X	X	
Curto	412	X	X	X	shared with Nimmow
Wenger	414	X	X	X	
Grosse	415	X	X	X	
Gruber-D	417	X	X	X	
Hendershot	418	X	X	X	
Howery	419				<i>pump disconnected; no sample collected</i>
Osterland	422	X	X	X	
Melum	423	X	X	X	
Weingarten	424	X	X	X	former Raschein well
Revers	425				<i>water not on; no sample collected</i>
Cornelius	426	X	X	X	
Reif	427	X	X	X	
Schumann	428	X	X	X	
WE-UK125	431	X	X		Gust, Haag, Lochner, Water's Edge Group
WE-UA297	433	X	X		Krisko, Water's Edge Group
WE-XD828	434	X	X		Riethmiller, Water's Edge Group
WE-XK342	435	X	X	X	duplicate Hallman, Keiser, Water's Edge Group
WE-YW972	436	X	X		Dietzen/Schwenn, Water's Edge Group
WE-ZE512	437	X	X	X	Whalen, Water's Edge Group
WE-AAB891	799	X	X	X	new well Connery, Palchik, Water's Edge Group
Mittenzwei	800	X	X	X	
Spear	803	X	X	X	
Peckosh	817	X	X	X	
USDA 1	828	X	X		
USDA 2	829	X	X		
Gibbs	839	X	X	X	
Groth	842	X	X	X	
Phillips	860	X	X	X	former Lukens well
Judd	862	X	X	X	
Kopras	874	X	X	X	shared with Miller
Krumenauer	875	X	X	X	
Nowotarski	891	X	X	X	duplicate
Olah	904	X	X	X	
PDS-3	911	X	X	X	
Purcell-G	916	X	X	X	
Ramaker-J	917	X	X	X	
Schlender	931	X	X	X	duplicate shared with Koenig, Ballweg
Zurbachen-A	967	X	X	X	
Apel	998	X	X	X	

Residential Groundwater Test Results - August 2020 Sampling Event

August '20 Round	Level of Detection	Level of Quantitation
2,3-DNT	0.0057	0.029
2,4-DNT	0.0076	0.038
2,5-DNT	0.0029	0.029
2,6-DNT	0.0038	0.029
3,4-DNT	0.0038	0.038
3,5-DNT	0.0038	0.029

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

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

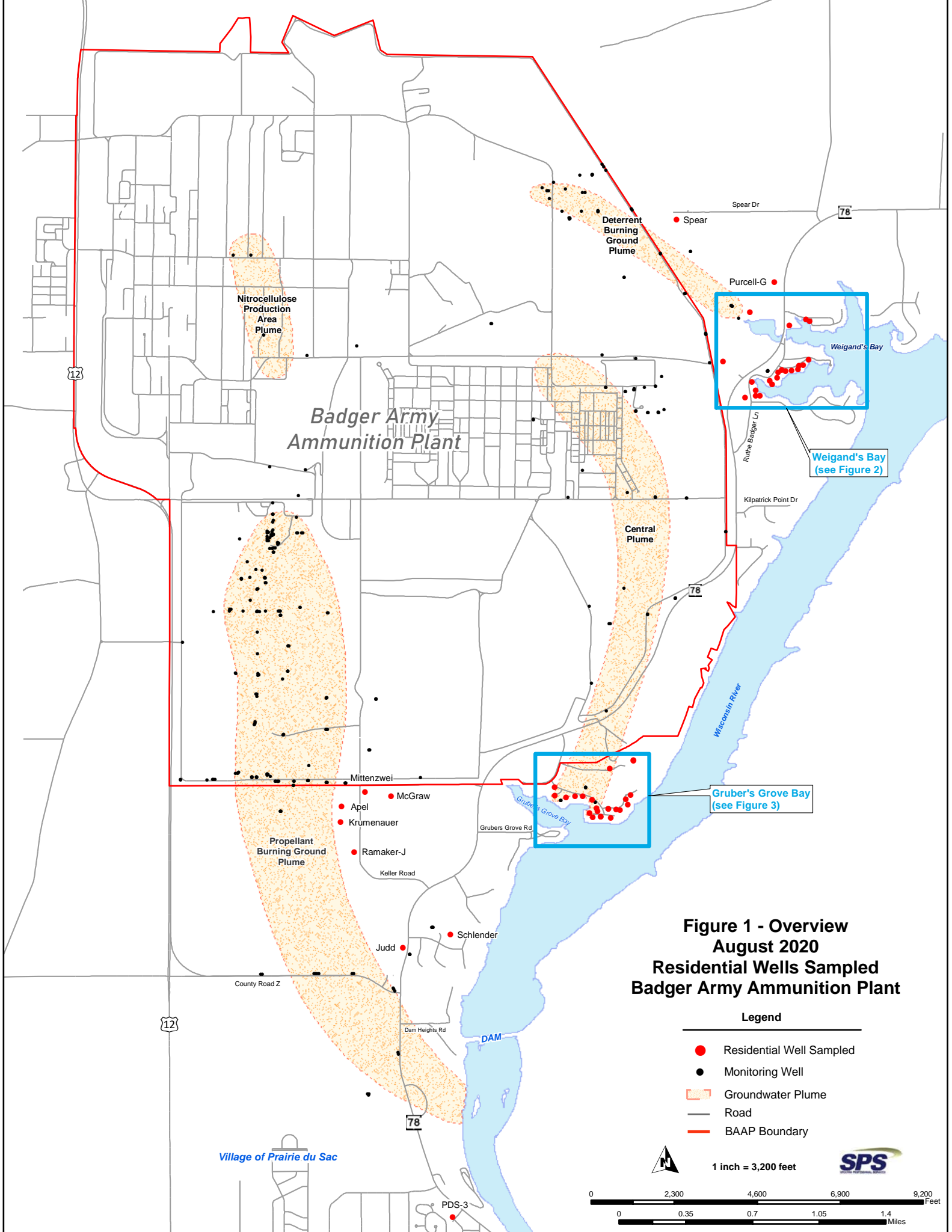
All results are expressed as µg/l (micrograms per liter)

Last Name	Well No.	Well Name or Address	Shared With	Analyzed By	Sample Date	Carbon Tetrachloride	Chloroform	Ethyl Ether	m & p-Xylene	o-Xylene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	2,6-Dinitrotoluene	2,4-Dinitrotoluene	2,3-Dinitrotoluene	3,4-Dinitrotoluene	2,5-Dinitrotoluene	3,5-Dinitrotoluene	Dinitrotoluene, Total	
Apel	998	Apel		CT Lab	8/10/2020	0.37	0.19	ND	ND	ND	ND	0.22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cornelius	426	Cornelius		CT Lab	8/17/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Curto	412	Curto	Nimmow	CT Lab	8/17/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gibbs	839	Gibbs		CT Lab	8/17/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
				CT Lab	8/20/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Grosse	415	Grosse		CT Lab	8/17/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Groth	842	Groth		CT Lab	8/10/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gruber	417	Gruber-D		CT Lab	8/12/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hendershot	418	Hendershot		CT Lab	8/17/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Howery	419	Howery				Pump not working; sample not collected																
Judd	862	Judd		CT Lab	8/10/2020	ND	0.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Kopras	874	Kopras	Miller	CT Lab	8/12/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Krumenauer	875	Krumenauer		CT Lab	8/10/2020	0.38	0.24	ND	ND	ND	ND	0.24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
McGraw	152	McGraw		CT Lab	8/10/2020	ND	ND	0.19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Melum	423	Melum		CT Lab	8/12/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mittenzwei	800	Mittenzwei		CT Lab	8/10/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nowotarski	891	Nowotarski		CT Lab	8/17/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
				CT Lab (D)	8/17/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Olah	904	Olah		CT Lab	8/19/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Osterland	422	Osterland		CT Lab	8/17/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Peckosh	817	Peckosh	(old Brey)	CT Lab	8/17/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phillips	860	Phillips	(old Lukens)	CT Lab	8/17/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Potts	411	Potts	(old Anderson-R)	CT Lab	8/12/2020	ND	ND	ND	ND	ND	ND	ND	ND	1.7	ND	ND	ND	ND	ND	ND	ND	ND
Prairie du Sac Utilities	911	PDS-3		CT Lab	8/12/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Purcell	163	Purcell-D	(new well installed - July 2019)	CT Lab	8/10/2020	ND	ND	ND	ND	ND	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Purcell	916	Purcell-G		CT Lab	8/10/2020	ND	ND	ND	0.24	0.13	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ramaker	917	Ramaker-J		CT Lab	8/10/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Reif	427	Reif		CT Lab	8/17/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Revers	425	Revers				Water not on; sample not collected																
Schlender	931	Schlender	Koenig, Ballweg	CT Lab	8/10/2020	0.61	0.33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
				CT Lab (D)	8/10/2020	0.56	0.32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Schumann	428	Schumann		CT Lab	8/17/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Spear	803	Spear		CT Lab	8/10/2020	ND	ND	ND	ND	ND	ND	ND	0.32	ND	ND	ND	ND	ND	ND	ND	ND	ND
Water's Edge Group	799	WE-AAB891	Connery, Palchik	CT Lab	8/11/2020	ND	0.19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Water's Edge Group	158	WE-QN039	Hilgemann, Layton	CT Lab	8/11/2020	ND	0.63	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Water's Edge Group	157	WE-QR441	Hemberger, Pattarozzi, Heath	CT Lab	8/11/2020	ND	0.21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Water's Edge Group	159	WE-RD430	Ford, Zimmerman, Bastien/Eddy	CT Lab	8/11/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Water's Edge Group	153	WE-RM383	Freidag, Rossing	CT Lab	8/11/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Water's Edge Group	164	WE-SQ017	Thompson	CT Lab	8/11/2020	0.14	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Water's Edge Group	165	WE-SQ001	Rosenau, Schwarz	CT Lab	8/11/2020	0.13	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Water's Edge Group	156	WE-RR542	Cairns, Sherpe	CT Lab	8/11/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Water's Edge Group	169	WE-RR598	Hall, Chow, Gruber, Wenger	CT Lab	8/11/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Residential Groundwater Test Results - August 2020 Sampling Event

						All results are expressed as µg/l (micrograms per liter)																																									
<table border="1"> <tr> <th>August '20 Round</th> <th>Level of Detection</th> <th>Level of Quantitation</th> </tr> <tr> <td>2,3-DNT</td> <td>0.0057</td> <td>0.029</td> </tr> <tr> <td>2,4-DNT</td> <td>0.0076</td> <td>0.038</td> </tr> <tr> <td>2,5-DNT</td> <td>0.0029</td> <td>0.029</td> </tr> <tr> <td>2,6-DNT</td> <td>0.0038</td> <td>0.029</td> </tr> <tr> <td>3,4-DNT</td> <td>0.0038</td> <td>0.038</td> </tr> <tr> <td>3,5-DNT</td> <td>0.0038</td> <td>0.029</td> </tr> <tr> <td colspan="3">*Level of detection and level of quantitation may change each round.</td> </tr> </table>						August '20 Round	Level of Detection	Level of Quantitation	2,3-DNT	0.0057	0.029	2,4-DNT	0.0076	0.038	2,5-DNT	0.0029	0.029	2,6-DNT	0.0038	0.029	3,4-DNT	0.0038	0.038	3,5-DNT	0.0038	0.029	*Level of detection and level of quantitation may change each round.			= Under PAL and ES = Over Preventive Action Limit (PAL) = Over Enforcement Standard (ES) = No PAL or ES established = Not Tested ND = Compound was not detected		Carbon Tetrachloride	Chloroform	Ethyl Ether	m & p-Xylene	o-Xylene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	2,6-Dinitrotoluene	2,4-Dinitrotoluene	2,3-Dinitrotoluene	3,4-Dinitrotoluene	2,5-Dinitrotoluene	3,5-Dinitrotoluene	Dinitrotoluene, Total
August '20 Round	Level of Detection	Level of Quantitation																																													
2,3-DNT	0.0057	0.029																																													
2,4-DNT	0.0076	0.038																																													
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Last Name	Well No.	Well Name or Address	Shared With	Analyzed By	Sample Date																																										
Water's Edge Group	170	WE-SQ002	Neumaier, Ramaker	CT Lab	8/11/2020								ND	ND	ND	ND	ND	ND	ND	ND																											
Water's Edge Group	174	WE-TF023	Minor	CT Lab	8/11/2020								ND	ND	ND	ND	ND	ND	ND	ND																											
Water's Edge Group	129	WE-TM599	Riordan	CT Lab	8/11/2020								ND	ND	ND	ND	ND	ND	ND	ND																											
Water's Edge Group	431	WE-UK125	Gust, Haag, Lochner	CT Lab	8/11/2020								ND	ND	ND	ND	ND	ND	ND	ND																											
Water's Edge Group	433	WE-UA297	Krisko	CT Lab	8/11/2020								ND	ND	ND	ND	ND	ND	ND	ND																											
Water's Edge Group	434	WE-XD828	Riethmiller	CT Lab	8/11/2020								ND	ND	ND	ND	ND	ND	ND	ND																											
Water's Edge Group	435	WE-XK342	Hallman, Keiser	CT Lab	8/11/2020	ND	0.16	ND	ND	ND	ND	ND	0.039	ND	ND	ND	ND	ND	ND	0.039																											
				CT Lab (D)	8/11/2020	ND	0.18	ND	ND	ND	ND	ND	0.036	ND	ND	ND	ND	ND	ND	0.036																											
Water's Edge Group	436	WE-YW972	Dietzen/Schwenn	CT Lab	8/11/2020								ND	ND	ND	ND	ND	ND	ND	ND																											
Water's Edge Group	437	WE-ZE512	Whalen (new well installed - Dec 2018)	CT Lab	8/11/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND																											
Weingarten	424	Weingarten	(old Raschein)	CT Lab	8/17/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND																											
Wenger	414	Wenger		CT Lab	8/12/2020	ND	ND	ND	ND	ND	ND	ND	0.8	ND	ND	ND	ND	ND	ND	ND																											
Zurbachen	967	Zurbachen-A		CT Lab	8/17/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND																											
Dairy Forage Res Ctr	828	USDA 1		CT Lab	8/12/2020								ND	ND	ND	ND	ND	ND	ND	ND																											
Dairy Forage Res Ctr	829	USDA 2		CT Lab	8/12/2020								ND	ND	ND	ND	ND	ND	ND	ND																											
Dairy Forage Res Ctr	126	USDA 3		CT Lab	8/12/2020								ND	ND	ND	ND	ND	ND	ND	ND																											
				CT Lab (D)	8/12/2020								ND	ND	ND	ND	ND	ND	ND	ND																											
Dairy Forage Res Ctr	128	USDA 6				Well not operating; sample not collected																																									

(D) = Duplicate
 CT Lab = CT Laboratories, LLC



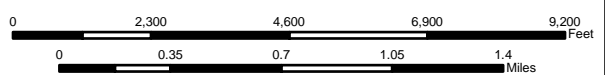
Badger Army Ammunition Plant

**Figure 1 - Overview
August 2020
Residential Wells Sampled
Badger Army Ammunition Plant**

- Legend**
- Residential Well Sampled
 - Monitoring Well
 - Groundwater Plume
 - Road
 - BAAP Boundary



1 inch = 3,200 feet



Village of Prairie du Sac

PDS-3

Gruber's Grove Bay
(see Figure 3)

Weigand's Bay
(see Figure 2)

Deterrent Burning Ground Plume

Nitrocellulose Production Area Plume

Central Plume

Propellant Burning Ground Plume

- McGraw
- Apel
- Krumenauer
- Ramaker-J

Schlender

Judd

Mittenzwei

Spear

Purcell-G

Rumie Badger Ln

Kilpatrick Point Dr

Wisconsin River

Grubers Grove Rd

Keller Road

County Road Z

DAM

78

12

12

78

78

78

