



DEPARTMENT OF THE ARMY
BADGER ARMY AMMUNITION PLANT
S7273 BLUFF ROAD
MERRIMAC, WISCONSIN 53561

September 19, 2018

SUBJECT: Submittal of August 2018 Annual Residential Well Testing Results
Badger Army Ammunition Plant

Mr. Jason Lowery
Wisconsin Department of Natural Resources
GEF2 Central Office
PO Box 7921
Madison, WI 53707-7921

Dear Mr. Lowery:

Enclosed are the Badger Army Ammunition Plant (BAAP) August 2018 Annual Residential Well Testing Results from 52 residential wells. Enclosed are copies of the signed Environmental Monitoring Data Certification Form, a list of wells sampled, a map showing the well locations, residential well lab results summary spreadsheet, residential well lab results, and residential well owners' addresses. Per previous discussions, the Army understands that the WDNR will be mailing the results to each well owner.

SpecPro Professional Services, LLC (SPS) collected groundwater samples from 52 residential wells on August 7, 20, 21, and 22, 2018. The Howery (419) well could not be sampled because their well pump was disconnected. The Nowotarski (891) well could not be sampled because their water was shut off and they were unavailable during the scheduled sampling period. During October 2018, another attempt will be made to sample the Nowotarski (891) well.

This annual sampling of residential wells followed the WDNR Plan Modification of the Groundwater Monitoring Program dated September 4, 2013. In accordance with the Army's *Deterrent Burning Ground Groundwater Sampling Work Plan* dated July 10, 2018, Purcell-D (163) will be sampled quarterly.

The Army will be replacing residential well WE-UK124 (432) with a deeper well prior to December 2018. WE-UK124 had 2,6-dinitrotoluene (DNT) detections above the NR 140 Enforcement Standard (ES) during two consecutive sampling rounds in June and July 2018. 2,6-DNT was not detected in WE-UK124 during August 2018. WE-UK124 is located in the Water's Edge Subdivision.

The analytical results for the enclosed residential wells showed no NR 140 ES exceedances. DNT was not detected in all 52 sampled residential wells. Trichloroethene (TCE) was detected above the NR 140 Preventive Action Limit (PAL) but below the ES in two residential wells. Chloroform was detected above the PAL but below the ES in two residential wells.

All groundwater samples were analyzed by CT Laboratories, LLC (CT Lab) in Baraboo, Wisconsin. CT Lab is a WDNR Chapter NR 149 certified laboratory and accredited by the Department

of Defense Environmental Laboratory Accreditation Program (DoD ELAP). SPS conducted an internal quality control review of the groundwater data and did not find any data quality issues.

Please do not hesitate to contact me at 608-434-5374 if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read 'R. M. Sitton', written in a cursive style.

Robert M. Sitton
Commander's Representative

Enclosure

Copy furn: Bryan Lynch, Contracting Officer's Representative

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 - Off-Site Residential Wells	03497	157005530	8/7 - 8/22/18

The enclosed results are for sampling required in the month(s) of: (e.g., June 2003)
August 2018

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 2018
Badger Army Ammunition Plant

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

Dinitrotoluene (DNT) was not detected in the sampled residential wells.

Chloroform exceeded the Preventive Action Limit (PAL) in WE-SQ017 (164) and WE-SQ001 (165).

Trichloroethene exceeded the PAL in Wenger (414) and Hendershot (418).

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 2018

Report Date: 9/17/2018

Parameter Name	Lic No.	Well No.	Well Name	Date	Dup	Result	Units	PAL	ES
Chloroform	3497	164	WE-SQ017	8/7/2018	1	1.7	ug/l	0.6	6
Chloroform	3497	165	WE-SQ001	8/7/2018	1	1.4	ug/l	0.6	6
Trichloroethene	3497	414	Wenger	8/20/2018	1	1.4	ug/l	0.5	5
Trichloroethene	3497	418	Hendershot	8/21/2018	1	2	ug/l	0.5	5

SpecPro Professional Services, LLC

Badger Army Ammunition Plant

August 2018

GROUNDWATER MONITORING ALL HITS REPORT

License No: 3497

Report Date: 9/17/2018

Parameter Name	Well	Well Name	Date	Dup	Result	LOD	LOQ	Units	PAL	ES
Ethyl ether	152	Delaney	8/20/2018	1	0.16	0.1	0.2	ug/l	100	1000
Chloroform	157	WE-QR441	8/7/2018	1	0.1	0.1	0.2	ug/l	0.6	6
Carbon tetrachloride	164	WE-SQ017	8/7/2018	1	0.12	0.1	0.2	ug/l	0.5	5
Chloroform	164	WE-SQ017	8/7/2018	1	1.7	0.1	0.2	ug/l	0.6	6
Chloroform	165	WE-SQ001	8/7/2018	1	1.4	0.1	0.2	ug/l	0.6	6
Trichloroethene	411	Anderson-R	8/21/2018	1	0.22	0.1	0.2	ug/l	0.5	5
Dichlorodifluoromethane	412	Curto	8/21/2018	1	0.17	0.1	0.2	ug/l	200	1000
Trichloroethene	414	Wenger	8/20/2018	1	1.4	0.1	0.2	ug/l	0.5	5
Trichloroethene	418	Hendershot	8/21/2018	1	2	0.1	0.2	ug/l	0.5	5
Chloromethane	426	Cornelius	8/21/2018	1	0.11	0.1	0.2	ug/l	3	30
Toluene	436	WE-YW972	8/7/2018	1	0.12	0.1	0.2	ug/l	160	800
1,1,2-Trichloroethane	803	Spear	8/20/2018	1	0.2	0.1	0.2	ug/l	0.5	5
Carbon tetrachloride	875	Krumenauer	8/21/2018	1	0.16	0.1	0.2	ug/l	0.5	5
Carbon tetrachloride	931	Schlender	8/20/2018	1	0.48	0.1	0.2	ug/l	0.5	5
Chloroform	931	Schlender	8/20/2018	1	0.13	0.1	0.2	ug/l	0.6	6
Carbon tetrachloride	998	Apel	8/20/2018	1	0.18	0.1	0.2	ug/l	0.5	5

Residential Groundwater Test Results - August 2018 Sampling Event

<div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px;"> August '18 Round <u>Level of Detection</u> <u>Level of Quantitation</u> 2,3-DNT 0.0057 0.029 2,4-DNT 0.0076 0.029 2,5-DNT 0.0029 0.029 2,6-DNT 0.0038 0.029 3,4-DNT 0.0038 0.029 3,5-DNT 0.0038 0.029 *Level of detection and level of quantitation may change each round. </div> <div> = 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 </div> </div>																						
Last Name	Well No.	Well Name	Shared With	Analyzed By	Sample Date	Toluene	Dichlorodifluoromethane	Chloromethane	Chloroform	Carbon Tetrachloride	Trichloroethene	Ethyl Ether	1,1,1-Trichloroethane	1,1,2-Trichloroethane	2,6-Dinitrotoluene	2,4-Dinitrotoluene	2,3-Dinitrotoluene	3,4-Dinitrotoluene	2,5-Dinitrotoluene	3,5-Dinitrotoluene	Dinitrotoluene, Total	
Anderson	411	Anderson-R		CT Lab	8/21/2018	ND	ND	ND	ND	ND	0.22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Apel	998	Apel		CT Lab	8/20/2018	ND	ND	ND	ND	0.18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cornelius	426	Cornelius	(old Roll)	CT Lab	8/21/2018	ND	ND	0.11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Curto	412	Curto	Nimmow	CT Lab	8/21/2018	ND	0.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Delaney	152	Delaney		CT Lab	8/20/2018	ND	ND	ND	ND	ND	ND	0.16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gibbs	839	Gibbs		CT Lab	8/22/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Grosse	415	Grosse		CT Lab	8/21/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Groth	842	Groth		CT Lab	8/21/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
				CT Lab (D)	8/21/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gruber	417	Gruber-D		CT Lab	8/20/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hendershot	418	Hendershot		CT Lab	8/21/2018	ND	ND	ND	ND	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Howery	419	Howery				Pump not working; well not sampled																
Judd	862	Judd		CT Lab	8/20/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Kopras	874	Kopras	Miller	CT Lab	8/20/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Krumenauer	875	Krumenauer		CT Lab	8/21/2018	ND	ND	ND	ND	0.16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lukens	860	Lukens		CT Lab	8/21/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Melum	423	Melum		CT Lab	8/21/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mittenzwei	800	Mittenzwei		CT Lab	8/20/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nowotarski	891	Nowotarski				Not available; well not sampled																
Olah	904	Olah		CT Lab	8/21/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Osterland	422	Osterland		CT Lab	8/21/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Peckosh	817	Peckosh	(old Brey)	CT Lab	8/21/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Prairie du Sac Utilities	911	PDS-3		CT Lab	8/21/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Purcell	163	Purcell-D		CT Lab	8/20/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
				CT Lab (D)	8/20/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Purcell	916	Purcell-G		CT Lab	8/20/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ramaker	917	Ramaker-J		CT Lab	8/20/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Raschein	424	Raschein		CT Lab	8/21/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Reif	427	Reif		CT Lab	8/22/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
				CT Lab (D)	8/22/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Revers	425	Revers		CT Lab	8/22/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Schlender	931	Schlender	Koenig, Ballweg	CT Lab	8/20/2018	ND	ND	ND	0.13	0.48	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Schumann	428	Schumann		CT Lab	8/22/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Spear	803	Spear		CT Lab	8/20/2018	ND	ND	ND	ND	ND	ND	ND	ND	0.2	ND	ND	ND	ND	ND	ND	ND	ND
Water's Edge Group	158	WE-QN039	Hilgemann, Layton	CT Lab	8/7/2018	ND	ND	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	8/7/2018	ND	ND	ND	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Water's Edge Group	159	WE-RD430	Ford, Madden, Bastien/Eddy	CT Lab	8/7/2018										ND	ND	ND	ND	ND	ND	ND	ND
Water's Edge Group	153	WE-RM383	Good, Rossing	CT Lab	8/7/2018										ND	ND	ND	ND	ND	ND	ND	ND
Water's Edge Group	164	WE-SQ017	Thompson	CT Lab	8/7/2018	ND	ND	ND	1.7	0.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Water's Edge Group	165	WE-SQ001	Rosenau, Schwarz	CT Lab	8/7/2018	ND	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Water's Edge Group	156	WE-RR542	Cairnes, Sherpe	CT Lab	8/7/2018										ND	ND	ND	ND	ND	ND	ND	ND
Water's Edge Group	169	WE-RR598	Hall, Chow, Hartmann, Wenger	CT Lab	8/7/2018										ND	ND	ND	ND	ND	ND	ND	ND

Residential Groundwater Test Results - August 2018 Sampling Event

<table border="1"> <tr> <td>August '18 Round</td> <td>Level of Detection</td> <td>Level of Quantitation</td> </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>0.029</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>0.029</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 '18 Round	Level of Detection	Level of Quantitation	2,3-DNT	0.0057	0.029	2,4-DNT	0.0076	0.029	2,5-DNT	0.0029	0.029	2,6-DNT	0.0038	0.029	3,4-DNT	0.0038	0.029	3,5-DNT	0.0038	0.029	*Level of detection and level of quantitation may change each round.			<table border="1"> <tr> <td></td> <td>= Under PAL and ES</td> </tr> <tr> <td></td> <td>= Over Preventive Action Limit (PAL)</td> </tr> <tr> <td></td> <td>= Over Enforcement Standard (ES)</td> </tr> <tr> <td></td> <td>= No PAL or ES established</td> </tr> <tr> <td></td> <td>= Not Tested</td> </tr> <tr> <td>ND</td> <td>= Compound was not detected</td> </tr> </table>															= 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
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Last Name	Well No.	Well Name	Shared With	Analyzed By	Sample Date	Toluene	Dichlorodifluoromethane	Chloromethane	Chloroform	Carbon Tetrachloride	Trichloroethene	Ethyl Ether	1,1,1-Trichloroethane	1,1,2-Trichloroethane	2,6-Dinitrotoluene	2,4-Dinitrotoluene	2,3-Dinitrotoluene	3,4-Dinitrotoluene	2,5-Dinitrotoluene	3,5-Dinitrotoluene	Dinitrotoluene, Total																																		
Water's Edge Group	170	WE-SQ002	Neumaier, Ramaker	CT Lab	8/7/2018										ND	ND	ND	ND	ND	ND	ND	ND																																	
Water's Edge Group	174	WE-TF023	Hilgemann	CT Lab	8/7/2018										ND	ND	ND	ND	ND	ND	ND	ND																																	
Water's Edge Group	129	WE-TM599	Riordan	CT Lab	8/7/2018										ND	ND	ND	ND	ND	ND	ND	ND																																	
Water's Edge Group	431	WE-UK125	Gust, Haag, Lochner	CT Lab	8/7/2018										ND	ND	ND	ND	ND	ND	ND	ND																																	
Water's Edge Group	432	WE-UK124	Whalen	CT Lab	8/7/2018										ND	ND	ND	ND	ND	ND	ND	ND																																	
Water's Edge Group	433	WE-UA297	Krisko	CT Lab	8/7/2018										ND	ND	ND	ND	ND	ND	ND	ND																																	
Water's Edge Group	434	WE-XD828	Riethmiller	CT Lab	8/7/2018										ND	ND	ND	ND	ND	ND	ND	ND																																	
Water's Edge Group	435	WE-XK342	Brandherm	CT Lab	8/7/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND																																	
				CT Lab (D)	8/7/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND																																	
Water's Edge Group	436	WE-YW972	Dietzen	CT Lab	8/7/2018	0.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND																																	
Wenger	414	Wenger		CT Lab	8/20/2018	ND	ND	ND	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND																																	
Zurbachen	967	Zurbachen-A		CT Lab	8/22/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND																																	
Dairy Forage Res Ctr	828	USDA 1		CT Lab	8/21/2018										ND	ND	ND	ND	ND	ND	ND	ND																																	
Dairy Forage Res Ctr	829	USDA 2		CT Lab	8/21/2018										ND	ND	ND	ND	ND	ND	ND	ND																																	
Dairy Forage Res Ctr	126	USDA 3		CT Lab	8/21/2018										ND	ND	ND	ND	ND	ND	ND	ND																																	
Dairy Forage Res Ctr	128	USDA 6		CT Lab	8/22/2018										ND	ND	ND	ND	ND	ND	ND	ND																																	

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

Residential Well Sampling List
August 2018

Well Name	Well ID	Results	DNT Sampled	VOC Sampled	Comments
USDA 3	126	X	X		
USDA 6	128	X	X		
WE-TM599	129	X	X		Riordan, Water's Edge Group
Delaney	152	X	X	X	
WE-RM383	153	X	X		Good, Rossing, Water's Edge Group
WE-RR542	156	X	X		Cairnes, 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, Madden, Ford, Water's Edge Group
Purcell-D	163	X	X	X	duplicate
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		Hartmann, Chow, Hall, Wenger, Water's Edge Group
WE-SQ002	170	X	X		Ramaker, Neumaier, Water's Edge Group
WE-TF023	174	X	X		Hilgemann, Water's Edge Group
Anderson-R	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				pump disconnected; well not sampled
Osterland	422	X	X	X	
Melum	423	X	X	X	
Raschein	424	X	X	X	
Revers	425	X	X	X	
Cornelius	426	X	X	X	former Roll well
Reif	427	X	X	X	duplicate
Schumann	428	X	X	X	
WE-UK125	431	X	X		Gust/Laidlaw, Haag, Lochner, Water's Edge Group
WE-UK124	432	X	X		Whalen, 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 Brandherm, Water's Edge Group
WE-YW972	436	X	X	X	new well & first sampling event Dietzen/Schwenn, Water's Edge Group
Mittenzwei	800	X	X	X	
Spear	803	X	X	X	
Peckosh	817	X	X	X	former Brey well
USDA 1	828	X	X		
USDA 2	829	X	X		
Gibbs	839	X	X	X	
Groth	842	X	X	X	duplicate
Lukens	860	X	X	X	
Judd	862	X	X	X	
Kopras	874	X	X	X	shared with Miller
Krumenauer	875	X	X	X	
Nowotarski	891				not available; well not sampled well sampling will be attempted during October 2018
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	shared with Koenig, Ballweg
Zurbachen-A	967	X	X	X	
Apel	998	X	X	X	

