

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):

Badger Technical Services, LLC - Badger Army Ammunition Plant

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

Name: Joel L. Janssen

Phone: (608) 643-3361

E-mail: joel.janssen@specpro-inc.com

Facility name:	License # / Monitoring ID	Facility ID [FID]	Actual sampling dates (e.g., July 2-6, 2003)
BAAAP - Deterrent Burning Grounds	03037	157065260	6/12/14

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

June 2014

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.

Clair E. Ruenger

Environmental Services Mgr.

(608) 643-3361

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 3037
Deterrent Burning Grounds
June 2014
Badger Army Ammunition Plant

Groundwater is currently being monitored by the facility because of past production activities.

Total dinitrotoluene (DNT) exceeded the Enforcement Standard (ES) in DBN-1001B (472) and DBN-1002C (476).

2,6-DNT exceeded the Preventive Action Limit (PAL) in DBN-1002C (476).

Volatile organic compounds (VOCs) analysis was performed by Badger Technical Services, LLC (BTS) using method SW 846 8260C.

Sulfate analysis was performed by BTS using method SW 846 9056A.

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

Badger Technical Services, LLC

Badger Army Ammunition Plant

June 2014

GROUNDWATER MONITORING EXCEEDANCE REPORT

Report Date: 7/14/2014

Parameter Name	Lic No.	Well No.	Well Name	Date	Dup	Result	Units	PAL	ES
Dinitrotoluene, total	3037	472	DBN-1001B	6/12/2014	1	0.581	ug/l	0.005	0.05
Dinitrotoluene, total	3037	472	DBN-1001B	6/12/2014	2	0.628	ug/l	0.005	0.05
2,6-Dinitrotoluene	3037	476	DBN-1002C	6/12/2014	1	0.016	ug/l	0.005	0.05
Dinitrotoluene, total	3037	476	DBN-1002C	6/12/2014	1	1.165	ug/l	0.005	0.05

Badger Technical Services, LLC

Badger Army Ammunition Plant

Quarterly Groundwater Monitoring

June 2014

ALL HITS REPORT

License No: 3037

Report Date: 7/14/2014

Parameter Name	Well	Well Name	Date	Dup	Result	LOD	LOQ	Units	PAL	ES
Sulfate as SO4	301	DBM-8201	6/12/2014	1	28.7	5	10	mg/l	125	250
Sulfate as SO4	302	DBM-8202	6/12/2014	1	57.4	5	10	mg/l	125	250
1,1,1-Trichloroethane	472	DBN-1001B	6/12/2014	1	1.94	0.1	0.5	ug/l	40	200
1,1,1-Trichloroethane	472	DBN-1001B	6/12/2014	2	1.84	0.1	0.5	ug/l	40	200
1,1-Dichloroethene	472	DBN-1001B	6/12/2014	1	0.13	0.1	0.5	ug/l	0.7	7
1,1-Dichloroethene	472	DBN-1001B	6/12/2014	2	0.15	0.1	0.5	ug/l	0.7	7
2,3-Dinitrotoluene	472	DBN-1001B	6/12/2014	1	0.176	0.014	0.03	ug/l		
2,3-Dinitrotoluene	472	DBN-1001B	6/12/2014	2	0.185	0.014	0.03	ug/l		
3,4-Dinitrotoluene	472	DBN-1001B	6/12/2014	2	0.426	0.028	0.06	ug/l		
3,4-Dinitrotoluene	472	DBN-1001B	6/12/2014	1	0.388	0.028	0.06	ug/l		
3,5-Dinitrotoluene	472	DBN-1001B	6/12/2014	2	0.017	0.014	0.03	ug/l		
3,5-Dinitrotoluene	472	DBN-1001B	6/12/2014	1	0.017	0.014	0.03	ug/l		
Dinitrotoluene, total	472	DBN-1001B	6/12/2014	2	0.628	0.028	0.06	ug/l	0.005	0.05
Dinitrotoluene, total	472	DBN-1001B	6/12/2014	1	0.581	0.028	0.06	ug/l	0.005	0.05
1,1,1-Trichloroethane	476	DBN-1002C	6/12/2014	1	0.35	0.1	0.5	ug/l	40	200
2,3-Dinitrotoluene	476	DBN-1002C	6/12/2014	1	0.297	0.014	0.03	ug/l		
2,6-Dinitrotoluene	476	DBN-1002C	6/12/2014	1	0.016	0.014	0.03	ug/l	0.005	0.05
3,4-Dinitrotoluene	476	DBN-1002C	6/12/2014	1	0.828	0.056	0.12	ug/l		
3,5-Dinitrotoluene	476	DBN-1002C	6/12/2014	1	0.024	0.014	0.03	ug/l		
Dinitrotoluene, total	476	DBN-1002C	6/12/2014	1	1.165	0.056	0.12	ug/l	0.005	0.05
Sulfate as SO4	476	DBN-1002C	6/12/2014	1	57.9	5	10	mg/l	125	250
Sulfate as SO4	477	DBN-1002E	6/12/2014	1	26.8	5	10	mg/l	125	250

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

Name: Joel L. Janssen

Phone: (608) 643-3361

E-mail: joel.janssen@specpro-inc.com

Facility name:	License # / Monitoring ID	Facility ID [FID]	Actual sampling dates (e.g., July 2-6, 2003)
BAAAP - Southeast Boundary	03038	157005530	6/18/14

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

June 2014

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 |
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Notification attached?

- No. No groundwater standards or explosive gas limits were exceeded.
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Clair E. Ruenger

Environmental Services Mgr.

(608) 643-3361

Facility Representative Name (Print)

Title

(Area Code) Telephone No.

Signature

Date

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

Case Narrative
Groundwater Monitoring
License Number 3038
Southeast Boundary
June 2014
Badger Army Ammunition Plant

Groundwater is currently being monitored by the facility because of past production activities.

Only two wells, S1113 and S1114, were sampled during this sampling period. No compounds were detected in either well.

Dinitrotoluene (DNT) analysis was performed by Badger Technical Services, LLC 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.

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Name: Joel L. Janssen

Phone: (608) 643-3361

E-mail: joel.janssen@specpro-inc.com

Facility name:	License # / Monitoring ID	Facility ID [FID]	Actual sampling dates (e.g., July 2-6, 2003)
BAAAP - Demolition Landfill	03118	157071420	6/10 - 6/19/14

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

June 2014

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.
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Clair E. Ruenger

Environmental Services Mgr.

(608) 643-3361

Facility Representative Name (Print)

Title

(Area Code) Telephone No.

Signature 

Date

21 Jul 14

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

Case Narrative
Groundwater Monitoring
License Number 3118
Demolition Landfill
June 2014
Badger Army Ammunition Plant

Groundwater is currently being monitored by the facility because of past production activities. Three wells were sampled to assist with determining the lateral extent of the Central Plume.

Total dinitrotoluene (DNT) and 2,4-DNT exceeded the Preventive Action Limit (PAL) in NLN-8203B (259).

The detections of DNT in NLN-8203B are not associated with the operation of Landfill 3118.

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

Badger Technical Services, LLC

Badger Army Ammunition Plant

June 2014

GROUNDWATER MONITORING EXCEEDANCE REPORT

Report Date: 7/14/2014

Parameter Name	Lic No.	Well No.	Well Name	Date	Dup	Result	Units	PAL	ES
2,4-Dinitrotoluene	3118	259	NLN-8203B	6/19/2014	1	0.015	ug/l	0.005	0.05
Dinitrotoluene, total	3118	259	NLN-8203B	6/19/2014	1	0.015	ug/l	0.005	0.05

Badger Technical Services, LLC

Badger Army Ammunition Plant

Quarterly Groundwater Monitoring

June 2014

ALL HITS REPORT

License No: 3118

Report Date: 7/14/2014

Parameter Name	Well	Well Name	Date	Dup	Result	LOD	LOQ	Units	PAL	ES
2,4-Dinitrotoluene	259	NLN-8203B	6/19/2014	1	0.015	0.014	0.03	ug/l	0.005	0.05
Dinitrotoluene, total	259	NLN-8203B	6/19/2014	1	0.015	0.014	0.03	ug/l	0.005	0.05

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Phone: (608) 643-3361

E-mail: joel.janssen@specpro-inc.com

Facility name:	License # / Monitoring ID	Facility ID [FID]	Actual sampling dates (e.g., July 2-6, 2003)
BAAAP - Off-Site Plume Wells	03485 & 03493	157005530	6/11 - 6/17/14

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

June 2014

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.
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Clair E. Ruenger

Environmental Services Mgr.

(608) 643-3361

Facility Representative Name (Print)

Title

(Area Code) Telephone No.

Signature

Date

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Case Narrative
Groundwater Monitoring
License Number 3485 & 3493
Off-Site Plume Wells
June 2014
Badger Army Ammunition Plant

Groundwater is currently being monitored by the facility because of past production activities.

2,6-Dinitrotoluene (DNT) and total DNT exceeded the Enforcement Standard (ES) in PBN-9101C (561).

Total DNT exceeded the Preventive Action Limit (PAL) in SWN-0501C (238) and SWN-9104C (575). 2,4-DNT exceeded the PAL in SWN-0501C (238), PBN-9101C (561), and SWN-9104C (575).

Carbon tetrachloride exceeded the ES in PBN-9101C (561), SWN-9103B (571), SWN-9103C (572), SWN-9103D (573), and PBM-9001D (981) and the PAL in SWN-9104C (575) and SWN-9104D (576).

Chloroform exceeded the PAL in nine wells.

Trichloroethylene exceeded the ES in PBN-9101C (561) and PBM-9001D (981) and the PAL in SWN-9103D (573).

Volatile organic compounds (VOCs) analysis was performed by Badger Technical Services, LLC (BTS) using method SW 846 8260C.

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

Badger Technical Services, LLC

Badger Army Ammunition Plant

June 2014

GROUNDWATER MONITORING EXCEEDANCE REPORT

Report Date: 7/14/2014

Parameter Name	Lic No.	Well No.	Well Name	Date	Dup	Result	Units	PAL	ES
Carbon tetrachloride	3485	981	PBM-9001D	6/17/2014	1	20.1	ug/l	0.5	5
Chloroform	3485	981	PBM-9001D	6/17/2014	1	3.04	ug/l	0.6	6
Trichloroethene	3485	981	PBM-9001D	6/17/2014	1	5.77	ug/l	0.5	5

Badger Technical Services, LLC

Badger Army Ammunition Plant

Quarterly Groundwater Monitoring

June 2014

ALL HITS REPORT

License No: 3485

Report Date: 7/14/2014

Parameter Name	Well	Well Name	Date	Dup	Result	LOD	LOQ	Units	PAL	ES
Carbon tetrachloride	981	PBM-9001D	6/17/2014	1	20.1	0.1	0.5	ug/l	0.5	5
Chloroform	981	PBM-9001D	6/17/2014	1	3.04	0.1	0.5	ug/l	0.6	6
Trichloroethene	981	PBM-9001D	6/17/2014	1	5.77	0.1	0.5	ug/l	0.5	5
Carbon tetrachloride	982	PBM-9002D	6/16/2014	1	0.1	0.1	0.5	ug/l	0.5	5

Badger Technical Services, LLC

Badger Army Ammunition Plant

June 2014

GROUNDWATER MONITORING EXCEEDANCE REPORT

Report Date: 7/14/2014

Parameter Name	Lic No.	Well No.	Well Name	Date	Dup	Result	Units	PAL	ES
2,4-Dinitrotoluene	3493	238	SWN-0501C	6/11/2014	1	0.016	ug/l	0.005	0.05
Chloroform	3493	238	SWN-0501C	6/11/2014	1	0.98	ug/l	0.6	6
Dinitrotoluene, total	3493	238	SWN-0501C	6/11/2014	1	0.016	ug/l	0.005	0.05
Chloroform	3493	246	SWN-0503C	6/11/2014	1	0.6	ug/l	0.6	6
2,4-Dinitrotoluene	3493	561	PBN-9101C	6/17/2014	1	0.027	ug/l	0.005	0.05
2,6-Dinitrotoluene	3493	561	PBN-9101C	6/17/2014	1	0.062	ug/l	0.005	0.05
Carbon tetrachloride	3493	561	PBN-9101C	6/17/2014	1	34.7	ug/l	0.5	5
Chloroform	3493	561	PBN-9101C	6/17/2014	1	4.91	ug/l	0.6	6
Dinitrotoluene, total	3493	561	PBN-9101C	6/17/2014	1	0.089	ug/l	0.005	0.05
Trichloroethene	3493	561	PBN-9101C	6/17/2014	1	10.4	ug/l	0.5	5
Carbon tetrachloride	3493	571	SWN-9103B	6/17/2014	1	8.39	ug/l	0.5	5
Carbon tetrachloride	3493	571	SWN-9103B	6/17/2014	2	8.49	ug/l	0.5	5
Chloroform	3493	571	SWN-9103B	6/17/2014	1	0.91	ug/l	0.6	6
Chloroform	3493	571	SWN-9103B	6/17/2014	2	0.83	ug/l	0.6	6
Carbon tetrachloride	3493	572	SWN-9103C	6/17/2014	1	11.2	ug/l	0.5	5
Chloroform	3493	572	SWN-9103C	6/17/2014	1	2.08	ug/l	0.6	6
Carbon tetrachloride	3493	573	SWN-9103D	6/17/2014	1	9.67	ug/l	0.5	5
Chloroform	3493	573	SWN-9103D	6/17/2014	1	1.97	ug/l	0.6	6
Trichloroethene	3493	573	SWN-9103D	6/17/2014	1	2.25	ug/l	0.5	5
2,4-Dinitrotoluene	3493	575	SWN-9104C	6/17/2014	1	0.014	ug/l	0.005	0.05
Carbon tetrachloride	3493	575	SWN-9104C	6/17/2014	1	0.86	ug/l	0.5	5
Dinitrotoluene, total	3493	575	SWN-9104C	6/17/2014	1	0.014	ug/l	0.005	0.05
Carbon tetrachloride	3493	576	SWN-9104D	6/17/2014	1	1.45	ug/l	0.5	5
Chloroform	3493	576	SWN-9104D	6/17/2014	1	0.94	ug/l	0.6	6
Chloroform	3493	578	SWN-9105C	6/16/2014	1	0.88	ug/l	0.6	6

Badger Technical Services, LLC

Badger Army Ammunition Plant

Quarterly Groundwater Monitoring

June 2014

ALL HITS REPORT

License No: 3493

Report Date: 7/14/2014

Parameter Name	Well	Well Name	Date	Dup	Result	LOD	LOQ	Units	PAL	ES
Carbon tetrachloride	237	SWN-0501B	6/11/2014	1	0.29	0.1	0.5	ug/l	0.5	5
Chloroform	237	SWN-0501B	6/11/2014	1	0.34	0.1	0.5	ug/l	0.6	6
2,4-Dinitrotoluene	238	SWN-0501C	6/11/2014	1	0.016	0.014	0.03	ug/l	0.005	0.05
Carbon tetrachloride	238	SWN-0501C	6/11/2014	1	0.41	0.1	0.5	ug/l	0.5	5
Chloroform	238	SWN-0501C	6/11/2014	1	0.98	0.1	0.5	ug/l	0.6	6
Dinitrotoluene, total	238	SWN-0501C	6/11/2014	1	0.016	0.014	0.03	ug/l	0.005	0.05
Ethyl Ether	239	SWN-0501D	6/11/2014	1	3.2	0.1	0.5	ug/l	100	1000
Ethyl Ether	240	SWN-0501E	6/11/2014	1	8.85	0.1	0.5	ug/l	100	1000
Carbon tetrachloride	241	SWN-0502B	6/11/2014	2	0.1	0.1	0.5	ug/l	0.5	5
Chloroform	241	SWN-0502B	6/11/2014	1	0.47	0.1	0.5	ug/l	0.6	6
Chloroform	241	SWN-0502B	6/11/2014	2	0.49	0.1	0.5	ug/l	0.6	6
Chloroform	242	SWN-0502C	6/11/2014	1	0.15	0.1	0.5	ug/l	0.6	6
Chloroform	245	SWN-0503B	6/11/2014	1	0.14	0.1	0.5	ug/l	0.6	6
Chloroform	246	SWN-0503C	6/11/2014	1	0.6	0.1	0.5	ug/l	0.6	6
Ethyl Ether	247	SWN-0503D	6/11/2014	1	0.2	0.1	0.5	ug/l	100	1000
Ethyl Ether	248	SWN-0503E	6/11/2014	1	4.14	0.1	0.5	ug/l	100	1000
1,1,1-Trichloroethane	561	PBN-9101C	6/17/2014	1	0.29	0.1	0.5	ug/l	40	200
2,4-Dinitrotoluene	561	PBN-9101C	6/17/2014	1	0.027	0.014	0.03	ug/l	0.005	0.05
2,6-Dinitrotoluene	561	PBN-9101C	6/17/2014	1	0.062	0.014	0.03	ug/l	0.005	0.05
Carbon tetrachloride	561	PBN-9101C	6/17/2014	1	34.7	0.1	0.5	ug/l	0.5	5
Chloroform	561	PBN-9101C	6/17/2014	1	4.91	0.1	0.5	ug/l	0.6	6
Dinitrotoluene, total	561	PBN-9101C	6/17/2014	1	0.089	0.014	0.03	ug/l	0.005	0.05
Trichloroethene	561	PBN-9101C	6/17/2014	1	10.4	0.1	0.5	ug/l	0.5	5
Chloroform	563	PBN-9102C	6/16/2014	1	0.1	0.1	0.5	ug/l	0.6	6
Carbon tetrachloride	571	SWN-9103B	6/17/2014	2	8.49	0.1	0.5	ug/l	0.5	5
Carbon tetrachloride	571	SWN-9103B	6/17/2014	1	8.39	0.1	0.5	ug/l	0.5	5
Chloroform	571	SWN-9103B	6/17/2014	1	0.91	0.1	0.5	ug/l	0.6	6
Chloroform	571	SWN-9103B	6/17/2014	2	0.83	0.1	0.5	ug/l	0.6	6
Trichloroethene	571	SWN-9103B	6/17/2014	1	0.44	0.1	0.5	ug/l	0.5	5
Trichloroethene	571	SWN-9103B	6/17/2014	2	0.44	0.1	0.5	ug/l	0.5	5
Carbon tetrachloride	572	SWN-9103C	6/17/2014	1	11.2	0.1	0.5	ug/l	0.5	5
Chloroform	572	SWN-9103C	6/17/2014	1	2.08	0.1	0.5	ug/l	0.6	6
Trichloroethene	572	SWN-9103C	6/17/2014	1	0.21	0.1	0.5	ug/l	0.5	5
Carbon tetrachloride	573	SWN-9103D	6/17/2014	1	9.67	0.1	0.5	ug/l	0.5	5
Chloroform	573	SWN-9103D	6/17/2014	1	1.97	0.1	0.5	ug/l	0.6	6
Trichloroethene	573	SWN-9103D	6/17/2014	1	2.25	0.1	0.5	ug/l	0.5	5
Carbon tetrachloride	574	SWN-9103E	6/17/2014	1	0.1	0.1	0.5	ug/l	0.5	5
2,4-Dinitrotoluene	575	SWN-9104C	6/17/2014	1	0.014	0.014	0.03	ug/l	0.005	0.05
Carbon tetrachloride	575	SWN-9104C	6/17/2014	1	0.86	0.1	0.5	ug/l	0.5	5
Chloroform	575	SWN-9104C	6/17/2014	1	0.45	0.1	0.5	ug/l	0.6	6
Dinitrotoluene, total	575	SWN-9104C	6/17/2014	1	0.014	0.014	0.03	ug/l	0.005	0.05
Carbon tetrachloride	576	SWN-9104D	6/17/2014	1	1.45	0.1	0.5	ug/l	0.5	5
Chloroform	576	SWN-9104D	6/17/2014	1	0.94	0.1	0.5	ug/l	0.6	6
Chloroform	577	SWN-9105B	6/16/2014	1	0.36	0.1	0.5	ug/l	0.6	6
Chloroform	578	SWN-9105C	6/16/2014	1	0.88	0.1	0.5	ug/l	0.6	6
Carbon tetrachloride	579	SWN-9105D	6/16/2014	1	0.13	0.1	0.5	ug/l	0.5	5
Chloroform	579	SWN-9105D	6/16/2014	1	0.42	0.1	0.5	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/3
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):

Badger Technical Services, LLC - Badger Army Ammunition Plant

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

Name: Joel L. Janssen

Phone: (608) 643-3361

E-mail: joel.janssen@specpro-inc.com

Facility name:	License # / Monitoring ID	Facility ID [FID]	Actual sampling dates (e.g., July 2-6, 2003)
BAAAP - Nitroglycerine Pond/Rocket Paste Area	03487	157005530	6/18 - 6/23/14

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

June 2014

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.

Clair E. Ruenger

Environmental Services Mgr.

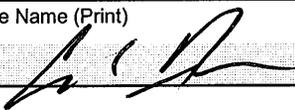
(608) 643-3361

Facility Representative Name (Print)

Title

(Area Code) Telephone No.

Signature



Date

21 Jul 14

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

Found uploading problems on _____ Initials _____

Notified contact of problems on _____ Uploaded data successfully on _____

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

Case Narrative
Groundwater Monitoring
License Number 3487
Nitroglycerine Pond/Rocket Paste Area
June 2014
Badger Army Ammunition Plant

Groundwater is currently being monitored by the facility because of past production activities.

2,6-Dinitrotoluene (DNT) exceeded the Enforcement Standard (ES) in RIM-1002 (478). Total DNT exceeded the ES in RIM-0705 (442), RIM-1002 (478), RIN-1001A (480), and RIN-1004B (498).

2,4-DNT exceeded the Preventive Action Limit (PAL) in RIM-0705 (442), RIN-0702C (444), RIM-1002 (478), RIN-1001A (480), RIM-1003 (491), RIN-1005A (496), RIN-1004B (498), NPM-8901 (506), and RPM-8901 (507). 2,6-DNT exceeded the PAL in RIM-0705 (442), RIN-1001A (480), RIN-1002C (493), RIN-1005C (497), RIN-1004B (498), and S1125 (504). Total DNT exceeded the PAL in RIN-0702C (444), RIM-1003 (491), RIN-1002C (493), RIN-1005A (496), RIN-1005C (497), S1125 (504), NPM-8901 (506), and RPM-8901 (507).

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

Badger Technical Services, LLC

Badger Army Ammunition Plant

June 2014

GROUNDWATER MONITORING EXCEEDANCE REPORT

Report Date: 7/14/2014

Parameter Name	Lic No.	Well No.	Well Name	Date	Dup	Result	Units	PAL	ES
2,4-Dinitrotoluene	3487	442	RIM-0705	6/23/2014	1	0.025	ug/l	0.005	0.05
2,4-Dinitrotoluene	3487	442	RIM-0705	6/23/2014	2	0.025	ug/l	0.005	0.05
2,6-Dinitrotoluene	3487	442	RIM-0705	6/23/2014	1	0.025	ug/l	0.005	0.05
2,6-Dinitrotoluene	3487	442	RIM-0705	6/23/2014	2	0.025	ug/l	0.005	0.05
Dinitrotoluene, total	3487	442	RIM-0705	6/23/2014	1	0.05	ug/l	0.005	0.05
Dinitrotoluene, total	3487	442	RIM-0705	6/23/2014	2	0.05	ug/l	0.005	0.05
2,4-Dinitrotoluene	3487	444	RIN-0702C	6/18/2014	1	0.034	ug/l	0.005	0.05
Dinitrotoluene, total	3487	444	RIN-0702C	6/18/2014	1	0.034	ug/l	0.005	0.05
2,4-Dinitrotoluene	3487	478	RIM-1002	6/23/2014	1	0.032	ug/l	0.005	0.05
2,6-Dinitrotoluene	3487	478	RIM-1002	6/23/2014	1	0.094	ug/l	0.005	0.05
Dinitrotoluene, total	3487	478	RIM-1002	6/23/2014	1	0.126	ug/l	0.005	0.05
2,4-Dinitrotoluene	3487	480	RIN-1001A	6/23/2014	1	0.029	ug/l	0.005	0.05
2,6-Dinitrotoluene	3487	480	RIN-1001A	6/23/2014	1	0.039	ug/l	0.005	0.05
Dinitrotoluene, total	3487	480	RIN-1001A	6/23/2014	1	0.068	ug/l	0.005	0.05
2,4-Dinitrotoluene	3487	491	RIM-1003	6/18/2014	1	0.023	ug/l	0.005	0.05
Dinitrotoluene, total	3487	491	RIM-1003	6/18/2014	1	0.023	ug/l	0.005	0.05
2,6-Dinitrotoluene	3487	493	RIN-1002C	6/18/2014	1	0.025	ug/l	0.005	0.05
Dinitrotoluene, total	3487	493	RIN-1002C	6/18/2014	1	0.025	ug/l	0.005	0.05
2,4-Dinitrotoluene	3487	496	RIN-1005A	6/19/2014	1	0.017	ug/l	0.005	0.05
Dinitrotoluene, total	3487	496	RIN-1005A	6/19/2014	1	0.017	ug/l	0.005	0.05
2,6-Dinitrotoluene	3487	497	RIN-1005C	6/19/2014	1	0.031	ug/l	0.005	0.05
Dinitrotoluene, total	3487	497	RIN-1005C	6/19/2014	1	0.031	ug/l	0.005	0.05
2,4-Dinitrotoluene	3487	498	RIN-1004B	6/19/2014	1	0.019	ug/l	0.005	0.05
2,4-Dinitrotoluene	3487	498	RIN-1004B	6/19/2014	2	0.019	ug/l	0.005	0.05
2,6-Dinitrotoluene	3487	498	RIN-1004B	6/19/2014	1	0.036	ug/l	0.005	0.05
2,6-Dinitrotoluene	3487	498	RIN-1004B	6/19/2014	2	0.036	ug/l	0.005	0.05
Dinitrotoluene, total	3487	498	RIN-1004B	6/19/2014	1	0.055	ug/l	0.005	0.05
Dinitrotoluene, total	3487	498	RIN-1004B	6/19/2014	2	0.055	ug/l	0.005	0.05
2,6-Dinitrotoluene	3487	504	S1125	6/23/2014	1	0.018	ug/l	0.005	0.05
Dinitrotoluene, total	3487	504	S1125	6/23/2014	1	0.018	ug/l	0.005	0.05
2,4-Dinitrotoluene	3487	506	NPM-8901	6/18/2014	1	0.016	ug/l	0.005	0.05
2,4-Dinitrotoluene	3487	506	NPM-8901	6/18/2014	2	0.017	ug/l	0.005	0.05
Dinitrotoluene, total	3487	506	NPM-8901	6/18/2014	1	0.016	ug/l	0.005	0.05
Dinitrotoluene, total	3487	506	NPM-8901	6/18/2014	2	0.017	ug/l	0.005	0.05
2,4-Dinitrotoluene	3487	507	RPM-8901	6/18/2014	1	0.025	ug/l	0.005	0.05
Dinitrotoluene, total	3487	507	RPM-8901	6/18/2014	1	0.025	ug/l	0.005	0.05

Badger Technical Services, LLC

Badger Army Ammunition Plant

Quarterly Groundwater Monitoring

June 2014

ALL HITS REPORT

License No: 3487

Report Date: 7/14/2014

Parameter Name	Well	Well Name	Date	Dup	Result	LOD	LOQ	Units	PAL	ES
2,4-Dinitrotoluene	442	RIM-0705	6/23/2014	2	0.025	0.014	0.03	ug/l	0.005	0.05
2,4-Dinitrotoluene	442	RIM-0705	6/23/2014	1	0.025	0.014	0.03	ug/l	0.005	0.05
2,6-Dinitrotoluene	442	RIM-0705	6/23/2014	1	0.025	0.014	0.03	ug/l	0.005	0.05
2,6-Dinitrotoluene	442	RIM-0705	6/23/2014	2	0.025	0.014	0.03	ug/l	0.005	0.05
Dinitrotoluene, total	442	RIM-0705	6/23/2014	2	0.05	0.014	0.03	ug/l	0.005	0.05
Dinitrotoluene, total	442	RIM-0705	6/23/2014	1	0.05	0.014	0.03	ug/l	0.005	0.05
2,4-Dinitrotoluene	444	RIN-0702C	6/18/2014	1	0.034	0.014	0.03	ug/l	0.005	0.05
Dinitrotoluene, total	444	RIN-0702C	6/18/2014	1	0.034	0.014	0.03	ug/l	0.005	0.05
2,4-Dinitrotoluene	478	RIM-1002	6/23/2014	1	0.032	0.014	0.03	ug/l	0.005	0.05
2,6-Dinitrotoluene	478	RIM-1002	6/23/2014	1	0.094	0.014	0.03	ug/l	0.005	0.05
Dinitrotoluene, total	478	RIM-1002	6/23/2014	1	0.126	0.014	0.03	ug/l	0.005	0.05
2,4-Dinitrotoluene	480	RIN-1001A	6/23/2014	1	0.029	0.014	0.03	ug/l	0.005	0.05
2,6-Dinitrotoluene	480	RIN-1001A	6/23/2014	1	0.039	0.014	0.03	ug/l	0.005	0.05
Dinitrotoluene, total	480	RIN-1001A	6/23/2014	1	0.068	0.014	0.03	ug/l	0.005	0.05
2,4-Dinitrotoluene	491	RIM-1003	6/18/2014	1	0.023	0.014	0.03	ug/l	0.005	0.05
Dinitrotoluene, total	491	RIM-1003	6/18/2014	1	0.023	0.014	0.03	ug/l	0.005	0.05
2,6-Dinitrotoluene	493	RIN-1002C	6/18/2014	1	0.025	0.014	0.03	ug/l	0.005	0.05
Dinitrotoluene, total	493	RIN-1002C	6/18/2014	1	0.025	0.014	0.03	ug/l	0.005	0.05
2,4-Dinitrotoluene	496	RIN-1005A	6/19/2014	1	0.017	0.014	0.03	ug/l	0.005	0.05
Dinitrotoluene, total	496	RIN-1005A	6/19/2014	1	0.017	0.014	0.03	ug/l	0.005	0.05
2,6-Dinitrotoluene	497	RIN-1005C	6/19/2014	1	0.031	0.014	0.03	ug/l	0.005	0.05
Dinitrotoluene, total	497	RIN-1005C	6/19/2014	1	0.031	0.014	0.03	ug/l	0.005	0.05
2,4-Dinitrotoluene	498	RIN-1004B	6/19/2014	1	0.019	0.014	0.03	ug/l	0.005	0.05
2,4-Dinitrotoluene	498	RIN-1004B	6/19/2014	2	0.019	0.014	0.03	ug/l	0.005	0.05
2,6-Dinitrotoluene	498	RIN-1004B	6/19/2014	1	0.036	0.014	0.03	ug/l	0.005	0.05
2,6-Dinitrotoluene	498	RIN-1004B	6/19/2014	2	0.036	0.014	0.03	ug/l	0.005	0.05
Dinitrotoluene, total	498	RIN-1004B	6/19/2014	2	0.055	0.014	0.03	ug/l	0.005	0.05
Dinitrotoluene, total	498	RIN-1004B	6/19/2014	1	0.055	0.014	0.03	ug/l	0.005	0.05
2,6-Dinitrotoluene	504	S1125	6/23/2014	1	0.018	0.014	0.03	ug/l	0.005	0.05
Dinitrotoluene, total	504	S1125	6/23/2014	1	0.018	0.014	0.03	ug/l	0.005	0.05
2,4-Dinitrotoluene	506	NPM-8901	6/18/2014	1	0.016	0.014	0.03	ug/l	0.005	0.05
2,4-Dinitrotoluene	506	NPM-8901	6/18/2014	2	0.017	0.014	0.03	ug/l	0.005	0.05
Dinitrotoluene, total	506	NPM-8901	6/18/2014	2	0.017	0.014	0.03	ug/l	0.005	0.05
Dinitrotoluene, total	506	NPM-8901	6/18/2014	1	0.016	0.014	0.03	ug/l	0.005	0.05
2,4-Dinitrotoluene	507	RPM-8901	6/18/2014	1	0.025	0.014	0.03	ug/l	0.005	0.05
Dinitrotoluene, total	507	RPM-8901	6/18/2014	1	0.025	0.014	0.03	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):

Badger Technical Services, LLC - Badger Army Ammunition Plant

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

Name: Joel L. Janssen

Phone: (608) 643-3361

E-mail: joel.janssen@specpro-inc.com

Facility name:	License # / Monitoring ID	Facility ID [FID]	Actual sampling dates (e.g., July 2-6, 2003)
BAAAP - Settling Ponds	03499	157005530	6/10/14

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

June 2014

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.

Clair E. Ruenger

Environmental Services Mgr.

(608) 643-3361

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

Case Narrative
Groundwater Monitoring
License Number 3499
Settling Ponds
June 2014
Badger Army Ammunition Plant

Groundwater is currently being monitored by the facility because of past production activities. Contamination from the Propellant Burning Ground largely impacts groundwater quality in wells associated with this license.

2,6-Dinitrotoluene (DNT) and total DNT exceeded the Enforcement Standard (ES) in SPN-8904C (721).

Carbon tetrachloride exceeded the ES in SPN-8904C (721) and the Preventive Action Limit (PAL) in S1103 (702) and SPN-8904B (720).

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

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

Volatile organic compounds (VOCs) analysis was performed by Badger Technical Services, LLC (BTS) using method SW 846 8260C.

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

Badger Technical Services, LLC

Badger Army Ammunition Plant

June 2014

GROUNDWATER MONITORING EXCEEDANCE REPORT

Report Date: 7/14/2014

Parameter Name	Lic No.	Well No.	Well Name	Date	Dup	Result	Units	PAL	ES
Carbon tetrachloride	3499	702	S1103	6/10/2014	1	3.94	ug/l	0.5	5
Carbon tetrachloride	3499	720	SPN-8904B	6/10/2014	1	4.23	ug/l	0.5	5
Carbon tetrachloride	3499	720	SPN-8904B	6/10/2014	2	4.48	ug/l	0.5	5
2,6-Dinitrotoluene	3499	721	SPN-8904C	6/10/2014	1	0.093	ug/l	0.005	0.05
Carbon tetrachloride	3499	721	SPN-8904C	6/10/2014	1	13.2	ug/l	0.5	5
Chloroform	3499	721	SPN-8904C	6/10/2014	1	0.83	ug/l	0.6	6
Dinitrotoluene, total	3499	721	SPN-8904C	6/10/2014	1	0.093	ug/l	0.005	0.05
Trichloroethene	3499	721	SPN-8904C	6/10/2014	1	1.35	ug/l	0.5	5

Badger Technical Services, LLC

Badger Army Ammunition Plant

Quarterly Groundwater Monitoring

June 2014

ALL HITS REPORT

License No: 3499

Report Date: 7/14/2014

Parameter Name	Well	Well Name	Date	Dup	Result	LOD	LOQ	Units	PAL	ES
1,1,1-Trichloroethane	702	S1103	6/10/2014	1	0.45	0.1	0.5	ug/l	40	200
Carbon tetrachloride	702	S1103	6/10/2014	1	3.94	0.1	0.5	ug/l	0.5	5
Chloroform	702	S1103	6/10/2014	1	0.51	0.1	0.5	ug/l	0.6	6
1,1,1-Trichloroethane	716	SPN-8902B	6/10/2014	1	0.14	0.1	0.5	ug/l	40	200
1,1,1-Trichloroethane	720	SPN-8904B	6/10/2014	1	0.23	0.1	0.5	ug/l	40	200
1,1,1-Trichloroethane	720	SPN-8904B	6/10/2014	2	0.24	0.1	0.5	ug/l	40	200
Carbon tetrachloride	720	SPN-8904B	6/10/2014	1	4.23	0.1	0.5	ug/l	0.5	5
Carbon tetrachloride	720	SPN-8904B	6/10/2014	2	4.48	0.1	0.5	ug/l	0.5	5
Chloroform	720	SPN-8904B	6/10/2014	1	0.25	0.1	0.5	ug/l	0.6	6
Chloroform	720	SPN-8904B	6/10/2014	2	0.27	0.1	0.5	ug/l	0.6	6
Trichloroethene	720	SPN-8904B	6/10/2014	2	0.22	0.1	0.5	ug/l	0.5	5
Trichloroethene	720	SPN-8904B	6/10/2014	1	0.22	0.1	0.5	ug/l	0.5	5
1,1,1-Trichloroethane	721	SPN-8904C	6/10/2014	1	0.1	0.1	0.5	ug/l	40	200
2,6-Dinitrotoluene	721	SPN-8904C	6/10/2014	1	0.093	0.014	0.03	ug/l	0.005	0.05
Carbon tetrachloride	721	SPN-8904C	6/10/2014	1	13.2	0.1	0.5	ug/l	0.5	5
Chloroform	721	SPN-8904C	6/10/2014	1	0.83	0.1	0.5	ug/l	0.6	6
Dinitrotoluene, total	721	SPN-8904C	6/10/2014	1	0.093	0.014	0.03	ug/l	0.005	0.05
Trichloroethene	721	SPN-8904C	6/10/2014	1	1.35	0.1	0.5	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):

Badger Technical Services, LLC - Badger Army Ammunition Plant

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

Name: Joel L. Janssen Phone: (608) 643-3361

E-mail: joel.janssen@specpro-inc.com

Facility name:	License # / Monitoring ID	Facility ID [FID]	Actual sampling dates (e.g., July 2-6, 2003)
BAAAP - Demolition Landfill Expansion	03646	157053930	6/10/14

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

June 2014

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.

Clair E. Ruenger Environmental Services Mgr. (608) 643-3361
Facility Representative Name (Print) Title (Area Code) Telephone No.

Signature

Date

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Notified contact of problems on _____ Uploaded data successfully on _____

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

Case Narrative
Groundwater Monitoring
License Number 3646
Demolition Landfill Expansion
June 2014
Badger Army Ammunition Plant

Groundwater is currently being monitored by the facility because of past production activities. Two wells were sampled to assist with determining the lateral extent of the Central Plume.

Total dinitrotoluene (DNT) exceeded the Enforcement Standard (ES) in NLN-1001A (331) and NLN-1001C (332). 2,4-DNT and 2,6-DNT exceeded the Preventive Action Limit (PAL) in NLN-1001A (331) and NLN-1001C (332).

The detections of DNT in NLN-1001A and NLN-1001C are not associated with the operation of Landfill 3646.

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

Badger Technical Services, LLC

Badger Army Ammunition Plant

June 2014

GROUNDWATER MONITORING EXCEEDANCE REPORT

Report Date: 7/14/2014

Parameter Name	Lic No.	Well No.	Well Name	Date	Dup	Result	Units	PAL	ES
2,4-Dinitrotoluene	3646	331	NLN-1001A	6/10/2014	1	0.025	ug/l	0.005	0.05
2,6-Dinitrotoluene	3646	331	NLN-1001A	6/10/2014	1	0.019	ug/l	0.005	0.05
Dinitrotoluene, total	3646	331	NLN-1001A	6/10/2014	1	0.075	ug/l	0.005	0.05
2,4-Dinitrotoluene	3646	332	NLN-1001C	6/10/2014	1	0.03	ug/l	0.005	0.05
2,6-Dinitrotoluene	3646	332	NLN-1001C	6/10/2014	1	0.019	ug/l	0.005	0.05
Dinitrotoluene, total	3646	332	NLN-1001C	6/10/2014	1	0.068	ug/l	0.005	0.05

Badger Technical Services, LLC

Badger Army Ammunition Plant

Quarterly Groundwater Monitoring

June 2014

ALL HITS REPORT

License No: 3646

Report Date: 7/14/2014

Parameter Name	Well	Well Name	Date	Dup	Result	LOD	LOQ	Units	PAL	ES
2,4-Dinitrotoluene	331	NLN-1001A	6/10/2014	1	0.025	0.014	0.03	ug/l	0.005	0.05
2,6-Dinitrotoluene	331	NLN-1001A	6/10/2014	1	0.019	0.014	0.03	ug/l	0.005	0.05
3,4-Dinitrotoluene	331	NLN-1001A	6/10/2014	1	0.031	0.014	0.03	ug/l		
Dinitrotoluene, total	331	NLN-1001A	6/10/2014	1	0.075	0.014	0.03	ug/l	0.005	0.05
2,4-Dinitrotoluene	332	NLN-1001C	6/10/2014	1	0.03	0.014	0.03	ug/l	0.005	0.05
2,6-Dinitrotoluene	332	NLN-1001C	6/10/2014	1	0.019	0.014	0.03	ug/l	0.005	0.05
3,4-Dinitrotoluene	332	NLN-1001C	6/10/2014	1	0.019	0.014	0.03	ug/l		
Dinitrotoluene, total	332	NLN-1001C	6/10/2014	1	0.068	0.014	0.03	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):

Badger Technical Services, LLC - Badger Army Ammunition Plant

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

Name: Joel L. Janssen

Phone: (608) 643-3361

E-mail: joel.janssen@specpro-inc.com

Facility name:	License # / Monitoring ID	Facility ID [FID]	Actual sampling dates (e.g., July 2-6, 2003)
BAAAP - Southeast Area	04330	157005530	6/9/14

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

June 2014

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.

Clair E. Ruenger

Environmental Services Mgr.

(608) 643-3361

Facility Representative Name (Print)

Title

(Area Code) Telephone No.

Signature

Date

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

Case Narrative
Groundwater Monitoring
License Number 4330
Southeast Area
June 2014
Badger Army Ammunition Plant

Groundwater is currently being monitored by the facility because of past production activities.

2,6-Dinitrotoluene (DNT) and total DNT exceeded the Preventive Action Limit (PAL) in SEN-0503B (586).

Chloroform exceeded the PAL in SEN-0501B (581), SEN-0501D (582), and SEN-0503D (587).

Volatile organic compounds (VOCs) analysis was performed by Badger Technical Services, LLC (BTS) using method SW 846 8260C.

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

Badger Technical Services, LLC

Badger Army Ammunition Plant

June 2014

GROUNDWATER MONITORING EXCEEDANCE REPORT

Report Date: 7/14/2014

Parameter Name	Lic No.	Well No.	Well Name	Date	Dup	Result	Units	PAL	ES
Chloroform	4330	581	SEN-0501B	6/9/2014	1	0.78	ug/l	0.6	6
Chloroform	4330	581	SEN-0501B	6/9/2014	2	0.76	ug/l	0.6	6
Chloroform	4330	582	SEN-0501D	6/9/2014	1	1.22	ug/l	0.6	6
2,6-Dinitrotoluene	4330	586	SEN-0503B	6/9/2014	1	0.034	ug/l	0.005	0.05
Dinitrotoluene, total	4330	586	SEN-0503B	6/9/2014	1	0.034	ug/l	0.005	0.05
Chloroform	4330	587	SEN-0503D	6/9/2014	1	0.62	ug/l	0.6	6

Badger Technical Services, LLC

Badger Army Ammunition Plant

Quarterly Groundwater Monitoring

June 2014

ALL HITS REPORT

Report Date: 7/14/2014

License No: 4330

Parameter Name	Well	Well Name	Date	Dup	Result	LOD	LOQ	Units	PAL	ES
Chloroform	581	SEN-0501B	6/9/2014	1	0.78	0.1	0.5	ug/l	0.6	6
Chloroform	581	SEN-0501B	6/9/2014	2	0.76	0.1	0.5	ug/l	0.6	6
Chloroform	582	SEN-0501D	6/9/2014	1	1.22	0.1	0.5	ug/l	0.6	6
2,6-Dinitrotoluene	586	SEN-0503B	6/9/2014	1	0.034	0.014	0.03	ug/l	0.005	0.05
Chloroform	586	SEN-0503B	6/9/2014	1	0.3	0.1	0.5	ug/l	0.6	6
Dinitrotoluene, total	586	SEN-0503B	6/9/2014	1	0.034	0.014	0.03	ug/l	0.005	0.05
Chloroform	587	SEN-0503D	6/9/2014	1	0.62	0.1	0.5	ug/l	0.6	6