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Instructions:

- Prepare one form for each license or monitoring ID.
- Please type or print legibly.
- Attach a notification of any values that attain or exceed groundwater standards (that is, preventive action limits, enforcement standards or alternative concentration limits). The notification must include a preliminary analysis of the cause and significance of each value.
- 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 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 Ground	03037	157065260	11/18/14

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

November 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.

Joel Janssen

Groundwater Project Manager

(608) 643-3361

Facility Representative Name (Print)

Title

(Area Code) Telephone No.

Signature

Joel Janssen

Date

12/9/14

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 3037
Deterrent Burning Ground
November 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).

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

GROUNDWATER MONITORING EXCEEDANCE REPORT

November 2014

Report Date: 12/8/2014

Parameter Name	Lic No.	Well No.	Well Name	Date	Dup	Result	Units	PAL	ES
Dinitrotoluene, total	3037	472	DBN-1001B	11/18/2014	1	0.651	ug/l	0.005	0.05
2,6-Dinitrotoluene	3037	476	DBN-1002C	11/18/2014	1	0.019	ug/l	0.005	0.05
Dinitrotoluene, total	3037	476	DBN-1002C	11/18/2014	1	1.238	ug/l	0.005	0.05

Badger Technical Services, LLC

Badger Army Ammunition Plant

November 2014

GROUNDWATER MONITORING ALL HITS REPORT

License No: 3037

Report Date: 12/8/2014

Parameter Name	Well	Well Name	Date	Dup	Result	LOD	LOQ	Units	PAL	ES
2,3-Dinitrotoluene	472	DBN-1001B	11/18/2014	1	0.186	0.014	0.03	ug/l		
3,4-Dinitrotoluene	472	DBN-1001B	11/18/2014	1	0.446	0.028	0.06	ug/l		
3,5-Dinitrotoluene	472	DBN-1001B	11/18/2014	1	0.019	0.014	0.03	ug/l		
Dinitrotoluene, total	472	DBN-1001B	11/18/2014	1	0.651	0.028	0.06	ug/l	0.005	0.05
2,3-Dinitrotoluene	476	DBN-1002C	11/18/2014	1	0.293	0.014	0.03	ug/l		
2,6-Dinitrotoluene	476	DBN-1002C	11/18/2014	1	0.019	0.014	0.03	ug/l	0.005	0.05
3,4-Dinitrotoluene	476	DBN-1002C	11/18/2014	1	0.9	0.056	0.12	ug/l		
3,5-Dinitrotoluene	476	DBN-1002C	11/18/2014	1	0.026	0.014	0.03	ug/l		
Dinitrotoluene, total	476	DBN-1002C	11/18/2014	1	1.238	0.056	0.12	ug/l	0.005	0.05

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

Name: Joel 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	11/19/14

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

November 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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Joel Janssen

Groundwater Project Manager

(608) 643-3361

Facility Representative Name (Print)

Title

(Area Code) Telephone No.

Signature

Joel Janssen

Date

12/19/14

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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 3038
Southeast Boundary
November 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 and Deterrent Burning Ground Plume.

No compounds were detected above a Preventive Action Limit (PAL).

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 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	11/17/14

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

November 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 |
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Joel Janssen

Groundwater Project Manager

(608) 643-3361

Facility Representative Name (Print)

Title

(Area Code) Telephone No.

Signature

Joel Janssen

Date

12/9/14

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Case Narrative
Groundwater Monitoring
License Number 3118
Demolition Landfill
November 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.

No compounds were detected above a Preventive Action Limit (PAL).

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 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 - Off-Site Plume Wells	03485 & 03493	157005530	11/12 - 11/26/14

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

November 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 |
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| <input type="checkbox"/> Leachate monitoring data | <input type="checkbox"/> Other (specify) _____ |

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Joel Janssen

Groundwater Project Manager

(608) 643-3361

Facility Representative Name (Print)

Title

(Area Code) Telephone No.

Signature

Joel Janssen

Date

12/9/14

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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 3485 & 3493
Off-Site Plume Wells
November 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 Standards (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-9103D (573), and PBM-9001D (981) and the PAL in SWN-9103C (572), SWN-9104C (575) and SWN-9104D (576). This is the first time carbon tetrachloride has been detected below the ES in SWN-9103C since September 2008. There is a noticeable downward trend in the carbon tetrachloride concentration in SWN-9103C.

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

GROUNDWATER MONITORING EXCEEDANCE REPORT

November 2014

Report Date: 12/8/2014

Parameter Name	Lic No.	Well No.	Well Name	Date	Dup	Result	Units	PAL	ES
Carbon tetrachloride	3485	981	PBM-9001D	11/24/2014	1	19.4	ug/l	0.5	5
Chloroform	3485	981	PBM-9001D	11/24/2014	1	2.83	ug/l	0.6	6
Trichloroethene	3485	981	PBM-9001D	11/24/2014	1	5.42	ug/l	0.5	5

Badger Technical Services, LLC

Badger Army Ammunition Plant

November 2014

GROUNDWATER MONITORING ALL HITS REPORT

License No: 3485

Report Date: 12/8/2014

Parameter Name	Well	Well Name	Date	Dup	Result	LOD	LOQ	Units	PAL	ES
Carbon tetrachloride	981	PBM-9001D	11/24/2014	1	19.4	0.1	0.5	ug/l	0.5	5
Chloroform	981	PBM-9001D	11/24/2014	1	2.83	0.1	0.5	ug/l	0.6	6
Trichloroethene	981	PBM-9001D	11/24/2014	1	5.42	0.1	0.5	ug/l	0.5	5

Badger Technical Services, LLC

Badger Army Ammunition Plant

GROUNDWATER MONITORING EXCEEDANCE REPORT

November 2014

Report Date: 12/8/2014

Parameter Name	Lic No.	Well No.	Well Name	Date	Dup	Result	Units	PAL	ES
2,4-Dinitrotoluene	3493	238	SWN-0501C	11/12/2014	1	0.015	ug/l	0.005	0.05
Chloroform	3493	238	SWN-0501C	11/12/2014	1	0.91	ug/l	0.6	6
Dinitrotoluene, total	3493	238	SWN-0501C	11/12/2014	1	0.015	ug/l	0.005	0.05
Chloroform	3493	246	SWN-0503C	11/12/2014	1	0.72	ug/l	0.6	6
2,4-Dinitrotoluene	3493	561	PBN-9101C	11/24/2014	1	0.031	ug/l	0.005	0.05
2,6-Dinitrotoluene	3493	561	PBN-9101C	11/24/2014	1	0.056	ug/l	0.005	0.05
Carbon tetrachloride	3493	561	PBN-9101C	11/24/2014	1	27.8	ug/l	0.5	5
Chloroform	3493	561	PBN-9101C	11/24/2014	1	3.64	ug/l	0.6	6
Dinitrotoluene, total	3493	561	PBN-9101C	11/24/2014	1	0.087	ug/l	0.005	0.05
Trichloroethene	3493	561	PBN-9101C	11/24/2014	1	9.92	ug/l	0.5	5
Carbon tetrachloride	3493	571	SWN-9103B	11/24/2014	1	6.81	ug/l	0.5	5
Carbon tetrachloride	3493	571	SWN-9103B	11/24/2014	2	7.24	ug/l	0.5	5
Chloroform	3493	571	SWN-9103B	11/24/2014	1	0.74	ug/l	0.6	6
Chloroform	3493	571	SWN-9103B	11/24/2014	2	0.83	ug/l	0.6	6
Carbon tetrachloride	3493	572	SWN-9103C	11/24/2014	1	3.45	ug/l	0.5	5
Chloroform	3493	572	SWN-9103C	11/24/2014	1	1.04	ug/l	0.6	6
Carbon tetrachloride	3493	573	SWN-9103D	11/24/2014	1	14.1	ug/l	0.5	5
Chloroform	3493	573	SWN-9103D	11/24/2014	1	2.2	ug/l	0.6	6
Trichloroethene	3493	573	SWN-9103D	11/24/2014	1	4.75	ug/l	0.5	5
2,4-Dinitrotoluene	3493	575	SWN-9104C	11/24/2014	1	0.016	ug/l	0.005	0.05
Carbon tetrachloride	3493	575	SWN-9104C	11/24/2014	1	0.9	ug/l	0.5	5
Dinitrotoluene, total	3493	575	SWN-9104C	11/24/2014	1	0.016	ug/l	0.005	0.05
Carbon tetrachloride	3493	576	SWN-9104D	11/24/2014	1	1.54	ug/l	0.5	5
Chloroform	3493	576	SWN-9104D	11/24/2014	1	0.96	ug/l	0.6	6
Chloroform	3493	578	SWN-9105C	11/20/2014	1	0.8	ug/l	0.6	6

Badger Technical Services, LLC

Badger Army Ammunition Plant

November 2014

GROUNDWATER MONITORING ALL HITS REPORT

License No: 3493

Report Date: 12/8/2014

Parameter Name	Well	Well Name	Date	Dup	Result	LOD	LOQ	Units	PAL	ES
Carbon tetrachloride	237	SWN-0501B	11/12/2014	1	0.31	0.1	0.5	ug/l	0.5	5
Chloroform	237	SWN-0501B	11/12/2014	1	0.25	0.1	0.5	ug/l	0.6	6
2,4-Dinitrotoluene	238	SWN-0501C	11/12/2014	1	0.015	0.014	0.03	ug/l	0.005	0.05
Carbon tetrachloride	238	SWN-0501C	11/12/2014	1	0.35	0.1	0.5	ug/l	0.5	5
Chloroform	238	SWN-0501C	11/12/2014	1	0.91	0.1	0.5	ug/l	0.6	6
Dinitrotoluene, total	238	SWN-0501C	11/12/2014	1	0.015	0.014	0.03	ug/l	0.005	0.05
Ethyl Ether	239	SWN-0501D	11/12/2014	1	45.3	0.1	0.5	ug/l	100	1000
Ethyl Ether	240	SWN-0501E	11/12/2014	1	9.48	0.1	0.5	ug/l	100	1000
Carbon tetrachloride	241	SWN-0502B	11/12/2014	2	0.13	0.1	0.5	ug/l	0.5	5
Carbon tetrachloride	241	SWN-0502B	11/12/2014	1	0.11	0.1	0.5	ug/l	0.5	5
Chloroform	241	SWN-0502B	11/12/2014	1	0.49	0.1	0.5	ug/l	0.6	6
Chloroform	241	SWN-0502B	11/12/2014	2	0.5	0.1	0.5	ug/l	0.6	6
Chloroform	242	SWN-0502C	11/12/2014	1	0.14	0.1	0.5	ug/l	0.6	6
Chloroform	245	SWN-0503B	11/12/2014	1	0.38	0.1	0.5	ug/l	0.6	6
Chloroform	246	SWN-0503C	11/12/2014	1	0.72	0.1	0.5	ug/l	0.6	6
Ethyl Ether	248	SWN-0503E	11/12/2014	1	3.55	0.1	0.5	ug/l	100	1000
1,1,1-Trichloroethane	561	PBN-9101C	11/24/2014	1	0.41	0.1	0.5	ug/l	40	200
1,1-Dichloroethene	561	PBN-9101C	11/24/2014	1	0.11	0.1	0.5	ug/l	0.7	7
2,4-Dinitrotoluene	561	PBN-9101C	11/24/2014	1	0.031	0.014	0.03	ug/l	0.005	0.05
2,6-Dinitrotoluene	561	PBN-9101C	11/24/2014	1	0.056	0.014	0.03	ug/l	0.005	0.05
Carbon tetrachloride	561	PBN-9101C	11/24/2014	1	27.8	0.1	0.5	ug/l	0.5	5
Chloroform	561	PBN-9101C	11/24/2014	1	3.64	0.1	0.5	ug/l	0.6	6
Dinitrotoluene, total	561	PBN-9101C	11/24/2014	1	0.087	0.014	0.03	ug/l	0.005	0.05
Trichloroethene	561	PBN-9101C	11/24/2014	1	9.92	0.1	0.5	ug/l	0.5	5
Carbon tetrachloride	571	SWN-9103B	11/24/2014	1	6.81	0.1	0.5	ug/l	0.5	5
Carbon tetrachloride	571	SWN-9103B	11/24/2014	2	7.24	0.1	0.5	ug/l	0.5	5
Chloroform	571	SWN-9103B	11/24/2014	1	0.74	0.1	0.5	ug/l	0.6	6
Chloroform	571	SWN-9103B	11/24/2014	2	0.83	0.1	0.5	ug/l	0.6	6
Trichloroethene	571	SWN-9103B	11/24/2014	1	0.4	0.1	0.5	ug/l	0.5	5
Trichloroethene	571	SWN-9103B	11/24/2014	2	0.43	0.1	0.5	ug/l	0.5	5
Carbon tetrachloride	572	SWN-9103C	11/24/2014	1	3.45	0.1	0.5	ug/l	0.5	5
Chloroform	572	SWN-9103C	11/24/2014	1	1.04	0.1	0.5	ug/l	0.6	6
Trichloroethene	572	SWN-9103C	11/24/2014	1	0.16	0.1	0.5	ug/l	0.5	5
Carbon tetrachloride	573	SWN-9103D	11/24/2014	1	14.1	0.1	0.5	ug/l	0.5	5
Chloroform	573	SWN-9103D	11/24/2014	1	2.2	0.1	0.5	ug/l	0.6	6
Trichloroethene	573	SWN-9103D	11/24/2014	1	4.75	0.1	0.5	ug/l	0.5	5
Carbon tetrachloride	574	SWN-9103E	11/24/2014	1	0.1	0.1	0.5	ug/l	0.5	5
2,4-Dinitrotoluene	575	SWN-9104C	11/24/2014	1	0.016	0.014	0.03	ug/l	0.005	0.05
Carbon tetrachloride	575	SWN-9104C	11/24/2014	1	0.9	0.1	0.5	ug/l	0.5	5
Chloroform	575	SWN-9104C	11/24/2014	1	0.42	0.1	0.5	ug/l	0.6	6
Dinitrotoluene, total	575	SWN-9104C	11/24/2014	1	0.016	0.014	0.03	ug/l	0.005	0.05
Carbon tetrachloride	576	SWN-9104D	11/24/2014	1	1.54	0.1	0.5	ug/l	0.5	5
Chloroform	576	SWN-9104D	11/24/2014	1	0.96	0.1	0.5	ug/l	0.6	6
Chloroform	577	SWN-9105B	11/20/2014	1	0.38	0.1	0.5	ug/l	0.6	6
Chloroform	578	SWN-9105C	11/20/2014	1	0.8	0.1	0.5	ug/l	0.6	6
Carbon tetrachloride	579	SWN-9105D	11/20/2014	1	0.1	0.1	0.5	ug/l	0.5	5
Chloroform	579	SWN-9105D	11/20/2014	1	0.35	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/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 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	11/17 - 11/19/14

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

November 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.

Joel Janssen

Groundwater Project Manager

(608) 643-3361

Facility Representative Name (Print)

Title

(Area Code) Telephone No.

Signature

Joel Janssen

Date

12/9/14

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
November 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-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 RIM-0705 (442), 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

GROUNDWATER MONITORING EXCEEDANCE REPORT

November 2014

Report Date: 12/8/2014

Parameter Name	Lic No.	Well No.	Well Name	Date	Dup	Result	Units	PAL	ES
2,4-Dinitrotoluene	3487	442	RIM-0705	11/17/2014	1	0.026	ug/l	0.005	0.05
2,4-Dinitrotoluene	3487	442	RIM-0705	11/17/2014	2	0.026	ug/l	0.005	0.05
2,6-Dinitrotoluene	3487	442	RIM-0705	11/17/2014	1	0.021	ug/l	0.005	0.05
2,6-Dinitrotoluene	3487	442	RIM-0705	11/17/2014	2	0.021	ug/l	0.005	0.05
Dinitrotoluene, total	3487	442	RIM-0705	11/17/2014	1	0.047	ug/l	0.005	0.05
Dinitrotoluene, total	3487	442	RIM-0705	11/17/2014	2	0.047	ug/l	0.005	0.05
2,4-Dinitrotoluene	3487	444	RIN-0702C	11/19/2014	1	0.03	ug/l	0.005	0.05
Dinitrotoluene, total	3487	444	RIN-0702C	11/19/2014	1	0.03	ug/l	0.005	0.05
2,4-Dinitrotoluene	3487	478	RIM-1002	11/17/2014	1	0.031	ug/l	0.005	0.05
2,6-Dinitrotoluene	3487	478	RIM-1002	11/17/2014	1	0.057	ug/l	0.005	0.05
Dinitrotoluene, total	3487	478	RIM-1002	11/17/2014	1	0.088	ug/l	0.005	0.05
2,4-Dinitrotoluene	3487	480	RIN-1001A	11/17/2014	1	0.029	ug/l	0.005	0.05
2,6-Dinitrotoluene	3487	480	RIN-1001A	11/17/2014	1	0.04	ug/l	0.005	0.05
Dinitrotoluene, total	3487	480	RIN-1001A	11/17/2014	1	0.069	ug/l	0.005	0.05
2,4-Dinitrotoluene	3487	491	RIM-1003	11/19/2014	1	0.023	ug/l	0.005	0.05
Dinitrotoluene, total	3487	491	RIM-1003	11/19/2014	1	0.023	ug/l	0.005	0.05
2,6-Dinitrotoluene	3487	493	RIN-1002C	11/19/2014	1	0.029	ug/l	0.005	0.05
Dinitrotoluene, total	3487	493	RIN-1002C	11/19/2014	1	0.029	ug/l	0.005	0.05
2,4-Dinitrotoluene	3487	496	RIN-1005A	11/18/2014	1	0.016	ug/l	0.005	0.05
Dinitrotoluene, total	3487	496	RIN-1005A	11/18/2014	1	0.016	ug/l	0.005	0.05
2,6-Dinitrotoluene	3487	497	RIN-1005C	11/18/2014	1	0.03	ug/l	0.005	0.05
Dinitrotoluene, total	3487	497	RIN-1005C	11/18/2014	1	0.03	ug/l	0.005	0.05
2,4-Dinitrotoluene	3487	498	RIN-1004B	11/18/2014	1	0.018	ug/l	0.005	0.05
2,4-Dinitrotoluene	3487	498	RIN-1004B	11/18/2014	2	0.018	ug/l	0.005	0.05
2,6-Dinitrotoluene	3487	498	RIN-1004B	11/18/2014	1	0.034	ug/l	0.005	0.05
2,6-Dinitrotoluene	3487	498	RIN-1004B	11/18/2014	2	0.033	ug/l	0.005	0.05
Dinitrotoluene, total	3487	498	RIN-1004B	11/18/2014	1	0.052	ug/l	0.005	0.05
Dinitrotoluene, total	3487	498	RIN-1004B	11/18/2014	2	0.051	ug/l	0.005	0.05
2,6-Dinitrotoluene	3487	504	S1125	11/17/2014	1	0.015	ug/l	0.005	0.05
Dinitrotoluene, total	3487	504	S1125	11/17/2014	1	0.015	ug/l	0.005	0.05
2,4-Dinitrotoluene	3487	506	NPM-8901	11/19/2014	1	0.016	ug/l	0.005	0.05
2,4-Dinitrotoluene	3487	506	NPM-8901	11/19/2014	2	0.016	ug/l	0.005	0.05
Dinitrotoluene, total	3487	506	NPM-8901	11/19/2014	1	0.016	ug/l	0.005	0.05
Dinitrotoluene, total	3487	506	NPM-8901	11/19/2014	2	0.016	ug/l	0.005	0.05
2,4-Dinitrotoluene	3487	507	RPM-8901	11/19/2014	1	0.022	ug/l	0.005	0.05
Dinitrotoluene, total	3487	507	RPM-8901	11/19/2014	1	0.022	ug/l	0.005	0.05

Badger Technical Services, LLC

Badger Army Ammunition Plant

November 2014

GROUNDWATER MONITORING ALL HITS REPORT

License No: 3487

Report Date: 12/8/2014

Parameter Name	Well	Well Name	Date	Dup	Result	LOD	LOQ	Units	PAL	ES
2,4-Dinitrotoluene	442	RIM-0705	11/17/2014	1	0.026	0.014	0.03	ug/l	0.005	0.05
2,4-Dinitrotoluene	442	RIM-0705	11/17/2014	2	0.026	0.014	0.03	ug/l	0.005	0.05
2,6-Dinitrotoluene	442	RIM-0705	11/17/2014	2	0.021	0.014	0.03	ug/l	0.005	0.05
2,6-Dinitrotoluene	442	RIM-0705	11/17/2014	1	0.021	0.014	0.03	ug/l	0.005	0.05
Dinitrotoluene, total	442	RIM-0705	11/17/2014	2	0.047	0.014	0.03	ug/l	0.005	0.05
Dinitrotoluene, total	442	RIM-0705	11/17/2014	1	0.047	0.014	0.03	ug/l	0.005	0.05
2,4-Dinitrotoluene	444	RIN-0702C	11/19/2014	1	0.03	0.014	0.03	ug/l	0.005	0.05
Dinitrotoluene, total	444	RIN-0702C	11/19/2014	1	0.03	0.014	0.03	ug/l	0.005	0.05
2,4-Dinitrotoluene	478	RIM-1002	11/17/2014	1	0.031	0.014	0.03	ug/l	0.005	0.05
2,6-Dinitrotoluene	478	RIM-1002	11/17/2014	1	0.057	0.014	0.03	ug/l	0.005	0.05
Dinitrotoluene, total	478	RIM-1002	11/17/2014	1	0.088	0.014	0.03	ug/l	0.005	0.05
2,4-Dinitrotoluene	480	RIN-1001A	11/17/2014	1	0.029	0.014	0.03	ug/l	0.005	0.05
2,6-Dinitrotoluene	480	RIN-1001A	11/17/2014	1	0.04	0.014	0.03	ug/l	0.005	0.05
Dinitrotoluene, total	480	RIN-1001A	11/17/2014	1	0.069	0.014	0.03	ug/l	0.005	0.05
2,4-Dinitrotoluene	491	RIM-1003	11/19/2014	1	0.023	0.014	0.03	ug/l	0.005	0.05
Dinitrotoluene, total	491	RIM-1003	11/19/2014	1	0.023	0.014	0.03	ug/l	0.005	0.05
2,6-Dinitrotoluene	493	RIN-1002C	11/19/2014	1	0.029	0.014	0.03	ug/l	0.005	0.05
Dinitrotoluene, total	493	RIN-1002C	11/19/2014	1	0.029	0.014	0.03	ug/l	0.005	0.05
2,4-Dinitrotoluene	496	RIN-1005A	11/18/2014	1	0.016	0.014	0.03	ug/l	0.005	0.05
Dinitrotoluene, total	496	RIN-1005A	11/18/2014	1	0.016	0.014	0.03	ug/l	0.005	0.05
2,6-Dinitrotoluene	497	RIN-1005C	11/18/2014	1	0.03	0.014	0.03	ug/l	0.005	0.05
Dinitrotoluene, total	497	RIN-1005C	11/18/2014	1	0.03	0.014	0.03	ug/l	0.005	0.05
2,4-Dinitrotoluene	498	RIN-1004B	11/18/2014	1	0.018	0.014	0.03	ug/l	0.005	0.05
2,4-Dinitrotoluene	498	RIN-1004B	11/18/2014	2	0.018	0.014	0.03	ug/l	0.005	0.05
2,6-Dinitrotoluene	498	RIN-1004B	11/18/2014	2	0.033	0.014	0.03	ug/l	0.005	0.05
2,6-Dinitrotoluene	498	RIN-1004B	11/18/2014	1	0.034	0.014	0.03	ug/l	0.005	0.05
Dinitrotoluene, total	498	RIN-1004B	11/18/2014	2	0.051	0.014	0.03	ug/l	0.005	0.05
Dinitrotoluene, total	498	RIN-1004B	11/18/2014	1	0.052	0.014	0.03	ug/l	0.005	0.05
2,6-Dinitrotoluene	504	S1125	11/17/2014	1	0.015	0.014	0.03	ug/l	0.005	0.05
Dinitrotoluene, total	504	S1125	11/17/2014	1	0.015	0.014	0.03	ug/l	0.005	0.05
2,4-Dinitrotoluene	506	NPM-8901	11/19/2014	1	0.016	0.014	0.03	ug/l	0.005	0.05
2,4-Dinitrotoluene	506	NPM-8901	11/19/2014	2	0.016	0.014	0.03	ug/l	0.005	0.05
Dinitrotoluene, total	506	NPM-8901	11/19/2014	1	0.016	0.014	0.03	ug/l	0.005	0.05
Dinitrotoluene, total	506	NPM-8901	11/19/2014	2	0.016	0.014	0.03	ug/l	0.005	0.05
2,4-Dinitrotoluene	507	RPM-8901	11/19/2014	1	0.022	0.014	0.03	ug/l	0.005	0.05
Dinitrotoluene, total	507	RPM-8901	11/19/2014	1	0.022	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 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)
BAAP - Off-Site Residential Wells	03497	157005530	10/27/14

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

October 2014

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

Groundwater Project Manager

(608) 643-3361

Facility Representative Name (Print)

Title

(Area Code) Telephone No.

Signature

Joel Janssen

Date

12/9/14

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

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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 3497
Off-Site Residential Wells
October 2014
Badger Army Ammunition Plant

Groundwater is currently being monitored by the facility because of past production activities. Two residential wells, WE-XD828 and WE-XK342, were sampled during this special sampling event.

2,6-Dinitrotoluene (DNT) and total DNT exceeded the Preventive Action Limit (PAL) in WE-XD828 (434) and WE-XK342 (435).

Volatile organic compounds (VOCs) analysis was performed by Badger Technical Services, LLC (BTS) using method SW 846 524.2.

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

GROUNDWATER MONITORING EXCEEDANCE REPORT

October 2014

Report Date: 12/8/2014

Parameter Name	Lic No.	Well No.	Well Name	Date	Dup	Result	Units	PAL	ES
2,6-Dinitrotoluene	3497	434	WE-XD828	10/27/2014	1	0.015	ug/l	0.005	0.05
Dinitrotoluene, total	3497	434	WE-XD828	10/27/2014	1	0.015	ug/l	0.005	0.05
2,6-Dinitrotoluene	3497	435	WE-XK342	10/27/2014	1	0.017	ug/l	0.005	0.05
Dinitrotoluene, total	3497	435	WE-XK342	10/27/2014	1	0.017	ug/l	0.005	0.05

Badger Technical Services, LLC

Badger Army Ammunition Plant

October 2014

GROUNDWATER MONITORING ALL HITS REPORT

License No: 3497

Report Date: 12/8/2014

Parameter Name	Well	Well Name	Date	Dup	Result	LOD	LOQ	Units	PAL	ES
2,6-Dinitrotoluene	434	WE-XD828	10/27/2014	1	0.015	0.014	0.03	ug/l	0.005	0.05
Chloroform	434	WE-XD828	10/27/2014	1	0.42	0.1	0.5	ug/l	0.6	6
Dinitrotoluene, total	434	WE-XD828	10/27/2014	1	0.015	0.014	0.03	ug/l	0.005	0.05
2,6-Dinitrotoluene	435	WE-XK342	10/27/2014	1	0.017	0.014	0.03	ug/l	0.005	0.05
Chloroform	435	WE-XK342	10/27/2014	1	0.25	0.1	0.5	ug/l	0.6	6
Dinitrotoluene, total	435	WE-XK342	10/27/2014	1	0.017	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 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	11/13/14

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

November 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.

Joel Janssen

Groundwater Project Manager

(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 3499
Settling Ponds
November 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 Standards (ES) in SPN-8904C (721).

Carbon tetrachloride exceeded the ES in SPN-8904C (721).

Trichloroethylene exceeded the Preventive Action Limit (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

GROUNDWATER MONITORING EXCEEDANCE REPORT

November 2014

Report Date: 12/8/2014

Parameter Name	Lic No.	Well No.	Well Name	Date	Dup	Result	Units	PAL	ES
2,6-Dinitrotoluene	3499	721	SPN-8904C	11/13/2014	1	0.058	ug/l	0.005	0.05
Carbon tetrachloride	3499	721	SPN-8904C	11/13/2014	1	11.9	ug/l	0.5	5
Dinitrotoluene, total	3499	721	SPN-8904C	11/13/2014	1	0.058	ug/l	0.005	0.05
Trichloroethene	3499	721	SPN-8904C	11/13/2014	1	1.14	ug/l	0.5	5

Badger Technical Services, LLC

Badger Army Ammunition Plant

November 2014

GROUNDWATER MONITORING ALL HITS REPORT

License No: 3499

Report Date: 12/8/2014

Parameter Name	Well	Well Name	Date	Dup	Result	LOD	LOQ	Units	PAL	ES
1,1,1-Trichloroethane	721	SPN-8904C	11/13/2014	1	0.15	0.1	0.5	ug/l	40	200
2,6-Dinitrotoluene	721	SPN-8904C	11/13/2014	1	0.058	0.014	0.03	ug/l	0.005	0.05
Carbon tetrachloride	721	SPN-8904C	11/13/2014	1	11.9	0.1	0.5	ug/l	0.5	5
Chloroform	721	SPN-8904C	11/13/2014	1	0.49	0.1	0.5	ug/l	0.6	6
Dinitrotoluene, total	721	SPN-8904C	11/13/2014	1	0.058	0.014	0.03	ug/l	0.005	0.05
Trichloroethene	721	SPN-8904C	11/13/2014	1	1.14	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 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	11/17/14

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

November 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.

Joel Janssen

Groundwater Project Manager

(608) 643-3361

Facility Representative Name (Print)

Title

(Area Code) Telephone No.

Signature

Joel Janssen

Date

12/9/14

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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
November 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

GROUNDWATER MONITORING EXCEEDANCE REPORT

November 2014

Report Date: 12/8/2014

Parameter Name	Lic No.	Well No.	Well Name	Date	Dup	Result	Units	PAL	ES
2,4-Dinitrotoluene	3646	331	NLN-1001A	11/17/2014	1	0.023	ug/l	0.005	0.05
2,6-Dinitrotoluene	3646	331	NLN-1001A	11/17/2014	1	0.014	ug/l	0.005	0.05
Dinitrotoluene, total	3646	331	NLN-1001A	11/17/2014	1	0.065	ug/l	0.005	0.05
2,4-Dinitrotoluene	3646	332	NLN-1001C	11/17/2014	1	0.032	ug/l	0.005	0.05
2,6-Dinitrotoluene	3646	332	NLN-1001C	11/17/2014	1	0.019	ug/l	0.005	0.05
Dinitrotoluene, total	3646	332	NLN-1001C	11/17/2014	1	0.072	ug/l	0.005	0.05

Badger Technical Services, LLC

Badger Army Ammunition Plant

November 2014

GROUNDWATER MONITORING ALL HITS REPORT

License No: 3646

Report Date: 12/8/2014

Parameter Name	Well	Well Name	Date	Dup	Result	LOD	LOQ	Units	PAL	ES
2,4-Dinitrotoluene	331	NLN-1001A	11/17/2014	1	0.023	0.014	0.03	ug/l	0.005	0.05
2,6-Dinitrotoluene	331	NLN-1001A	11/17/2014	1	0.014	0.014	0.03	ug/l	0.005	0.05
3,4-Dinitrotoluene	331	NLN-1001A	11/17/2014	1	0.028	0.014	0.03	ug/l		
Dinitrotoluene, total	331	NLN-1001A	11/17/2014	1	0.065	0.014	0.03	ug/l	0.005	0.05
2,4-Dinitrotoluene	332	NLN-1001C	11/17/2014	1	0.032	0.014	0.03	ug/l	0.005	0.05
2,6-Dinitrotoluene	332	NLN-1001C	11/17/2014	1	0.019	0.014	0.03	ug/l	0.005	0.05
3,4-Dinitrotoluene	332	NLN-1001C	11/17/2014	1	0.021	0.014	0.03	ug/l		
Dinitrotoluene, total	332	NLN-1001C	11/17/2014	1	0.072	0.014	0.03	ug/l	0.005	0.05

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Instructions:

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- 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 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	11/13/14

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

November 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.

Joel Janssen

Groundwater Project Manager

(608) 643-3361

Facility Representative Name (Print)

Title

(Area Code) Telephone No.

Signature

Joel Janssen

Date

12/9/14

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 4330
Southeast Area
November 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 Limits (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

GROUNDWATER MONITORING EXCEEDANCE REPORT

November 2014

Report Date: 12/8/2014

Parameter Name	Lic No.	Well No.	Well Name	Date	Dup	Result	Units	PAL	ES
Chloroform	4330	581	SEN-0501B	11/13/2014	1	0.96	ug/l	0.6	6
Chloroform	4330	581	SEN-0501B	11/13/2014	2	0.98	ug/l	0.6	6
Chloroform	4330	582	SEN-0501D	11/13/2014	1	1.42	ug/l	0.6	6
2,6-Dinitrotoluene	4330	586	SEN-0503B	11/13/2014	1	0.034	ug/l	0.005	0.05
Dinitrotoluene, total	4330	586	SEN-0503B	11/13/2014	1	0.034	ug/l	0.005	0.05
Chloroform	4330	587	SEN-0503D	11/13/2014	1	0.8	ug/l	0.6	6

Badger Technical Services, LLC

Badger Army Ammunition Plant

November 2014

GROUNDWATER MONITORING ALL HITS REPORT

License No: 4330

Report Date: 12/8/2014

Parameter Name	Well	Well Name	Date	Dup	Result	LOD	LOQ	Units	PAL	ES
Chloroform	581	SEN-0501B	11/13/2014	1	0.96	0.1	0.5	ug/l	0.6	6
Chloroform	581	SEN-0501B	11/13/2014	2	0.98	0.1	0.5	ug/l	0.6	6
Toluene	581	SEN-0501B	11/13/2014	1	12.7	0.1	0.5	ug/l	160	800
Toluene	581	SEN-0501B	11/13/2014	2	16.6	0.1	0.5	ug/l	160	800
Carbon tetrachloride	582	SEN-0501D	11/13/2014	1	0.1	0.1	0.5	ug/l	0.5	5
Chloroform	582	SEN-0501D	11/13/2014	1	1.42	0.1	0.5	ug/l	0.6	6
Chloroform	584	SEN-0502D	11/13/2014	1	0.45	0.1	0.5	ug/l	0.6	6
2,6-Dinitrotoluene	586	SEN-0503B	11/13/2014	1	0.034	0.014	0.03	ug/l	0.005	0.05
Chloroform	586	SEN-0503B	11/13/2014	1	0.34	0.1	0.5	ug/l	0.6	6
Dinitrotoluene, total	586	SEN-0503B	11/13/2014	1	0.034	0.014	0.03	ug/l	0.005	0.05
Chloroform	587	SEN-0503D	11/13/2014	1	0.8	0.1	0.5	ug/l	0.6	6