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SCS ENGINEERS

January 6, 2017
File No. 25212002.00

GEMS Data Submittal Contact – WA/5
Bureau of Waste and Materials Management
Wisconsin Department of Natural Resources
P.O. Box 7921
Madison, WI 53707-7921

Subject: Hagen Farm Landfill, Town of Dunkirk, Dane County, Wisconsin
WDNR License No. 02981 – FID #113176030
Fourth Quarter 2016 Environmental Data Submittal

Dear GEMS Data Submittal Contact:

Enclosed is the fourth quarter 2016 environmental data submittal for the Hagen Farm Landfill, License No. 02981. The submittal includes results from the quarterly (November 2016) sampling event at the site. The data was collected in accordance with the requirements of the U.S. Environmental Protection Agency (USEPA) approval of the Hagen Farm Site Groundwater Control Operable Unit Revised Workplan dated March 1, 2005, as amended.

SAMPLING SUMMARY

The fourth quarter sampling event, which was performed on November 7, 2016, included measurement of water levels and/or collection of groundwater samples at 17 monitoring wells in the vicinity of the site. The samples and associated field data were collected by SCS Engineers staff. The samples were submitted to TestAmerica Buffalo (Wisconsin Lab Certification No. 998310390) for laboratory analysis.

INFORMATION INCLUDED IN THIS SUBMITTAL

This submittal includes the following:

- A CD with the electronic data submittal file (nov16-02981.txt) from this period.
- **Attachment A**, a table that identifies the compounds that exceeded the groundwater standards identified in Chapter NR 140, Wis. Adm. Code (i.e., exceedances) during this sampling period.
- **Attachment B**, a table that identifies sample results between the limit of detection (LOD) and limit of quantitation (LOQ) from this sampling period.

- **Attachment C**, a completed Environmental Monitoring Data Certification Form [Form 4400-231(R 1/04)].
- **Attachment D**, a printout of the data from this sampling period.

SUBMITTAL NOTES

Please note the following:

- Results for vinyl chloride are reported from two different analytical methods, using gas chromatography/mass spectrometry (GC/MS) and selective ion methodology (SIM). The data from the two analytical methods are evaluated independently in that if both results exceeded a groundwater standard, two exceedances are reported in **Attachments A** and **D**, even though the results are from the same sample.

- Manganese results are evaluated with regard to the criteria identified in **Table 1** (Public Health Groundwater Quality Standards) and **Table 2** (Public Welfare Groundwater Quality Standards) of NR 140.10 and NR 140.12, respectively. Thus, the data from a single sample may be reported as two exceedances in **Attachments A** and **D**.

- Results from this sampling period that exceed the values identified as the enforcement standard (ES) or preventive action limit (PAL) in Chapter NR 140, Wis. Adm. Code, are denoted using an E or P, respectively, in **Attachments A** and **D** of this submittal. A "P*" indicates that the well is within the Design Management Zone (DMZ) and property boundary; therefore, the well meets the point of standards criteria identified in NR 140.22 and the ES does not apply. Consistent with prior submittals, the preliminary cause and significance of concentrations exceeding groundwater standards is not presented herein. Groundwater quality has been evaluated as part of the remedial investigation for this USEPA-lead Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) site and is also periodically evaluated in the annual reports for the operation and maintenance of the selected remedy.

DATA QUALITY

In addition to laboratory quality control measures, the laboratory analyzed two trip blank (TBs) and one field blank (FB) collected in association with this sampling event to assess data quality. Only one volatile organic compound (VOC), dichloromethane, was quantified above the LOD from analysis of one of the TBs associated with this sampling event. Dichloromethane, also known as methylene chloride, is a common laboratory contaminant and the reported concentration in the trip blank is low (i.e., less than PAL) and qualified as estimated (i.e., J-flagged). The results from analysis of the FB for inorganic parameters are typical of deionized

water and do not indicate a significant data quality issue, especially since dedicated sampling equipment is utilized at the site.

Only one result (vinyl chloride by SIM at P32B) from this reporting period was qualified by the laboratory as failing Wisconsin Department of Natural Resources (WDNR) Quality Control (QC) Flag 1 in that the analyte was also detected in the associated method, trip or field blanks at a concentration above the specified criteria.

No results from this reporting period were qualified by the laboratory as failing WDNR QC Flag 2 in that all samples met preservation and holding time criteria.

Four results for a VOC (i.e., chloromethane) were appropriately qualified by the laboratory as failing the WDNR QC Flag 3 criteria, as the batch matrix spike/matrix spike duplicate (MS/MSD) recovery was biased high and failed to meet laboratory QC criteria. The associated laboratory control sample recovery was within acceptable limits; thus, the data were acceptable in accordance with the method specifications, and are reported in this submittal.

Given the specific parameters and results qualified, and the explanations summarized above, the data from this period is acceptable for use and the qualified results are not expected to materially affect the overall evaluation of the data.

Please contact me at (262) 345-1220 if you have any questions regarding this report.

Sincerely,

Gary Sterkel
Environmental Specialist
SCS ENGINEERS

GLS/AV/MJP

cc: Ms. Sheila Sullivan, USEPA, w/o disk
Mr. Gary Edelstein, WDNR, w/o disk
Mr. Michael Peterson, Waste Management of Wisconsin, Inc., w/o disk

Attachments: A through D

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ATTACHMENT A

Fourth Quarter 2016
Identification of NR 140 Exceedances

Attachment A
Fourth Quarter 2016

Hagen Farm Landfill

License Number: 02981
Facility ID Number: 113176030

Identification of NR 140 Exceedances

Well	Sample Date	Parameter	Sample Result	NR140 Standards PAL	NR140 Standards ES	Units	Type of Standard	Type of Exceedance	Qualifier	RL	LOD	LOQ
OB8M	161107	IRON-DISSOLVED AS FE	0.20	0.15	0.3	MG/L	Table 2	P		0.03	0.019	0.064
P17C	161107	IRON-DISSOLVED AS FE	3.0	0.15	0.3	MG/L	Table 2	P*		0.03	0.019	0.064
P22B	161107	IRON-DISSOLVED AS FE	4.6	0.15	0.3	MG/L	Table 2	P*		0.03	0.019	0.064
OB8M	161107	MANGANESE-DISSOLVED AS MN	146	60	300	UG/L	Table 1	P		2	0.4	1.3
OB8M	161107	MANGANESE-DISSOLVED AS MN	146	25	50	UG/L	Table 2	E		2	0.4	1.3
P17B	161107	MANGANESE-DISSOLVED AS MN	50.4	25	50	UG/L	Table 2	P*		2	0.4	1.3
P17C	161107	MANGANESE-DISSOLVED AS MN	261	60	300	UG/L	Table 1	P		2	0.4	1.3
P17C	161107	MANGANESE-DISSOLVED AS MN	261	25	50	UG/L	Table 2	P*		2	0.4	1.3
P22B	161107	MANGANESE-DISSOLVED AS MN	108	60	300	UG/L	Table 1	P		2	0.4	1.3
P22B	161107	MANGANESE-DISSOLVED AS MN	108	25	50	UG/L	Table 2	P*		2	0.4	1.3
P32B	161107	MANGANESE-DISSOLVED AS MN	112	60	300	UG/L	Table 1	P		2	0.4	1.3
P32B	161107	MANGANESE-DISSOLVED AS MN	112	25	50	UG/L	Table 2	E		2	0.4	1.3
OBS-2C	161107	NITRITE PLUS NITRATE-DISSOLVED AS N	2.8	2	10	MG/L AS N	Table 1	P		0.05	0.02	0.067
OB8M	161107	VINYL CHLORIDE	0.85	0.02	0.2	UG/L	Table 1	E		0.02	0.004	0.013
P17C	161107	VINYL CHLORIDE	0.42	0.02	0.2	UG/L	Table 1	P*		0.02	0.004	0.013
P26B	161107	VINYL CHLORIDE	0.28	0.02	0.2	UG/L	Table 1	P*		0.02	0.004	0.013
P32B	161107	VINYL CHLORIDE	0.029	0.02	0.2	UG/L	Table 1	P		0.02	0.004	0.013

Attachment A
Fourth Quarter 2016

Hagen Farm Landfill

License Number: 02981
Facility ID Number: 113176030

Identification of NR 140 Exceedances

Well	Sample Date	Parameter	Sample Result	NR140 Standards PAL	NR140 Standards ES	Units	Type of Standard	Type of Exceedance	Qualifier	RL	LOD	LOQ

P* = Well is located within the Design Management Zone (DMZ) and property boundary, thus the Enforcement Standard does not apply
P = NR 140 Preventive Action Limit or NR 500 Alternate Concentration Limit exceedance
E = NR 140 Enforcement Standard exceedance
J = Sample result is between the Limit of Detection (LOD) and the Limit of Quantitation (LOQ)
EX = NR 140.28 (NR 508.19) Exemptions granted for exceedance

Special Notes:
J-Qualifier (Flag) indicates an estimated concentration of an analyte between the Limit of Detection (LOD) and the Limit of Quantitation (LOQ), thus the values are not quantifiable numbers and do not constitute exceedances. However, these values are reported in compliance with NR 507.26 (3)(b) and NR 140.16(5).

Vinyl chloride is analyzed by EPA Method 8260B and by Selective Ion Monitoring. The data from the two analytical methods is evaluated independently in that if both results exceeded a groundwater standard, two exceedances are reported even though the results are from the same sample.

ATTACHMENT B

Fourth Quarter 2016
Identification of Sample Results Between
the LOD and LOQ ("J-Flags")

Attachment B
Fourth Quarter 2016

Hagen Farm Landfill

License Number: 02981
Facility ID Number: 113176030

Identification of Sample Results Between the LOD and LOQ ("J-Flags")

Well	Sample Date	Parameter	Sample Result	NR140 Standards PAL	NR140 Standards ES	Units	Qualifier	RL	LOD	LOQ
MW-22	161107	IRON-DISSOLVED AS FE	0.019	0.15	0.3	MG/L	J	0.03	0.019	0.064
OBS-1B	161107	IRON-DISSOLVED AS FE	0.035	0.15	0.3	MG/L	J	0.03	0.019	0.064
OBS-1C	161107	IRON-DISSOLVED AS FE	0.036	0.15	0.3	MG/L	J	0.03	0.019	0.064
OBS-2C	161107	MANGANESE-DISSOLVED AS MN	0.84	60	300	UG/L	J	2	0.4	1.3
P17B	161107	IRON-DISSOLVED AS FE	0.040	0.15	0.3	MG/L	J	0.03	0.019	0.064
P17B	161107	VINYL CHLORIDE	0.0090	0.02	0.2	UG/L	J	0.02	0.004	0.013
P32B	161107	IRON-DISSOLVED AS FE	0.025	0.15	0.3	MG/L	J	0.03	0.019	0.064

Notes:
J = Estimated result - sample result is between the Limit of Detection (LOD) and the Limit of Quantitation (LOQ)

Special Note:
J-Qualifier (Flag) indicates an estimated concentration of an analyte between the Limit of Detection (LOD) and the Limit of Quantitation (LOQ), thus the values are not quantifiable numbers and do not constitute exceedances. However, these values are reported in compliance with NR 507.26 (3)(b) and NR 140.16(5).

ATTACHMENT C

Fourth Quarter 2016
Environmental Monitoring Data Certification
Form [Form 4400-231 (R1/04)]

State of Wisconsin
Department of Natural Resources

Environmental Monitoring Data Certification

Form 4400-231(R 1/04)

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):

SCS Engineers

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

Name: Gary Sterkel Phone: (262) 345-1220

E-mail: gsterkel@scsengineers.com

Facility name:	License # / Monitoring ID	Facility ID [FID]	Actual sampling dates (e.g., July 2-6, 2003)
Hagen Farm Landfill	02981	113176030	November 7, 2016

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

November 2016

Type of Data Submitted (Check all that apply)

- [x] Groundwater monitoring data from monitoring wells
- [ ] Groundwater monitoring data from private water supply wells
- [ ] Leachate monitoring data
- [ ] Gas monitoring data
- [ ] Air monitoring data
- [ ] Other (specify)

Notification attached?

- [ ] No. No groundwater standards or explosive gas limits were exceeded.
- [x] 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.

Gary Sterkel	Environmental Specialist	(262) 345-1220
Facility Representative Name (Print)	Title	(Area Code) Telephone No.

Gary Sterkel 1/17/17

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

ATTACHMENT D

Fourth Quarter 2016
Environmental Monitoring Data

Hagen Farm Landfill

License Number: 02981
Facility ID Number: 113176030

Stoughton, WI

Fourth Quarter 2016 Environmental Monitoring Data

Samples Collected by: SCS Engineers
Gary Sterkel and Steve Smith

Samples Analyzed by: Test America, Inc., Amherst, NY (Laboratory Certification Number: 998310390)

Descriptions for Color, Odor, and Turbidity are denoted in the units column.
Color, Odor, Turbidity: If the Results column shows 0 the parameter was present. If the Qualifier column shows N the parameter was not present.

Exceedance Key:
P* = Within the Design Management Zone (DMZ) and property boundary
P = NR 140 Preventive Action Limit or NR 500 Alternate Concentration Limit exceedance
E = NR 140 Enforcement Standard exceedance
EX = NR 140.28 (NR 508.19) Exemptions granted for exceedance

All exceedances take into account 40 CFR 257-258 Subtitle D standards as well as WDNR approved alternate concentration limits (ACLs)

Qualifier Flag Codes:
N = Analyte was not detected above the Limit of Detection (LOD)
J = Analyte was detected between the Limit of Detection (LOD) and the Limit of Quantitation (LOQ) (LOD ≤ result < LOQ)

QC Flag 1 Codes:
M = Analyte was not detected in Method, Trip, or Field Blanks
F = For a sample in which an analyte was detected, the analyte was also detected in the associated Method, Trip, or Field Blanks at concentrations which exceed the highest of the following values:
1. The limit of detection, or
2. Five percent of the lowest applicable regulatory limit, or
3. Ten percent of the measured concentration in the sample.

QC Flag 2 Codes:
M = Met Preservation and Holding Time criteria
F = Failed Preservation and Holding Time criteria

QC Flag 3 Codes:
M = Met Laboratory Quality Control Standards
F = Failed Laboratory Quality Control Standards

Hagen Farm Landfill

License Number: 02981
Facility ID Number: 113176030

Sample Date	Parameter	Qualifier	Value	Units	PAL	ES	Type of Exceedance	Type of Standard	QC 1	QC 2	QC 3	RL	LOD	LOQ	WDNR Lab Cert
Sample Point: 01TB	**WDNR Point ID:** 999														
161107	1,1,1-TRICHLOROETHANE	N		UG/L	40	200		Table 1		M	M	1.0	0.82	2.7	998310390
161107	1,1,2,2-TETRACHLOROETHANE	N		UG/L	0.02	0.2		Table 1		M	M	1.0	0.21	0.70	998310390
161107	1,1,2-TRICHLOROETHANE	N		UG/L	0.5	5		Table 1		M	M	1.0	0.23	0.77	998310390
161107	1,1-DICHLOROETHANE	N		UG/L	85	850		Table 1		M	M	1.0	0.38	1.3	998310390
161107	1,1-DICHLOROETHYLENE	N		UG/L	0.7	7		Table 1		M	M	1.0	0.29	0.97	998310390
161107	1,2,4-TRICHLOROBENZENE	N		UG/L	14	70		Table 1		M	M	1.0	0.41	1.4	998310390
161107	1,2-DIBROMO-3-CHLOROPROPANE	N		UG/L	0.02	0.2		Table 1		M	M	1.0	0.39	1.3	998310390
161107	1,2-DIBROMOETHANE (EDB)	N		UG/L	0.005	0.05		Table 1		M	M	1.0	0.73	2.4	998310390
161107	1,2-DICHLOROETHANE	N		UG/L	0.5	5		Table 1		M	M	1.0	0.21	0.70	998310390
161107	1,2-DICHLOROPROPANE	N		UG/L	0.5	5		Table 1		M	M	1.0	0.72	2.4	998310390
161107	2-HEXANONE	N		UG/L						M	M	5.0	1.2	4.1	998310390
161107	4-METHYL-2-PENTANONE (MIBK)	N		UG/L	50	500		Table 1		M	M	5.0	2.1	7.0	998310390
161107	ACETONE	N		UG/L	1800	9000		Table 1		M	M	10	3.0	10	998310390
161107	BENZENE	N		UG/L	0.5	5		Table 1		M	M	1.0	0.41	1.4	998310390
161107	BROMODICHLOROMETHANE	N		UG/L	0.06	0.6		Table 1		M	M	1.0	0.39	1.3	998310390
161107	BROMOMETHANE	N		UG/L	1	10		Table 1		M	M	1.0	0.69	2.3	998310390
161107	CARBON DISULFIDE	N		UG/L	200	1000		Table 1		M	M	1.0	0.19	0.63	998310390
161107	CARBON TETRACHLORIDE	N		UG/L	0.5	5		Table 1		M	M	1.0	0.27	0.90	998310390
161107	CHLOROBENZENE	N		UG/L	20	100		Table 1		M	M	1.0	0.75	2.5	998310390
161107	CHLOROETHANE	N		UG/L	80	400		Table 1		M	M	1.0	0.32	1.1	998310390
161107	CHLOROFORM	N		UG/L	0.6	6		Table 1		M	M	1.0	0.34	1.1	998310390
161107	CHLOROMETHANE	N		UG/L	3	30		Table 1		M	M	1.0	0.35	1.2	998310390
161107	CIS-1,2-DICHLOROETHENE	N		UG/L	7	70		Table 1		M	M	1.0	0.81	2.7	998310390
161107	CIS-1,3-DICHLOROPROPENE	N		UG/L	0.04	0.4		Table 1		M	M	1.0	0.36	1.2	998310390
161107	DIBROMOCHLOROMETHANE	N		UG/L	6	60		Table 1		M	M	1.0	0.32	1.1	998310390
161107	DIBROMOMETHANE	N		UG/L						M	M	1.0	0.41	1.4	998310390
161107	DICHLORODIFLUOROMETHANE	N		UG/L	200	1000		Table 1		M	M	1.0	0.68	2.3	998310390
161107	DICHLOROMETHANE	J	0.49	UG/L	0.5	5		Table 1		M	M	1.0	0.44	1.5	998310390
161107	ETHYLBENZENE	N		UG/L	140	700		Table 1		M	M	1.0	0.74	2.5	998310390
161107	FLUOROTRICHLOROMETHANE	N		UG/L	698	3490		Table 1		M	M	1.0	0.88	2.9	998310390
161107	M-DICHLOROBENZENE	N		UG/L	120	600		Table 1		M	M	1.0	0.78	2.6	998310390
161107	METHYL ETHYL KETONE (MEK)	N		UG/L	800	4000		Table 1		M	M	10	1.3	4.4	998310390
161107	METHYL TERT-BUTYL ETHER (MTBE)	N		UG/L	12	60		Table 1		M	M	1.0	0.16	0.53	998310390

Sample Date	Parameter	Qualifier	Value	Units	PAL	ES	Type of Exceedance	Type of Standard	QC 1	QC 2	QC 3	RL	LOD	LOQ	WDNR Lab Cert
Sample Point: 01TB	**WDNR Point ID:** 999														
161107	NAPHTHALENE	N		UG/L	10	100		Table 1		M	M	1.0	0.43	1.4	998310390
161107	O-DICHLOROBENZENE	N		UG/L	60	600		Table 1		M	M	1.0	0.79	2.6	998310390
161107	P-DICHLOROBENZENE	N		UG/L	15	75		Table 1		M	M	1.0	0.84	2.8	998310390
161107	STYRENE	N		UG/L	10	100		Table 1		M	M	1.0	0.73	2.4	998310390
161107	TETRACHLOROETHYLENE	N		UG/L	0.5	5		Table 1		M	M	1.0	0.36	1.2	998310390
161107	TETRAHYDROFURAN	N		UG/L	10	50		Table 1		M	M	5.0	1.3	4.2	998310390
161107	TOLUENE	N		UG/L	160	800		Table 1		M	M	1.0	0.51	1.7	998310390
161107	TRANS-1,2-DICHLOROETHENE (TOTAL)	N		UG/L	20	100		Table 1		M	M	1.0	0.90	3.0	998310390
161107	TRANS-1,3-DICHLOROPROPENE	N		UG/L	0.04	0.4		Table 1		M	M	1.0	0.37	1.2	998310390
161107	TRIBROMOMETHANE	N		UG/L	0.44	4.4		Table 1		M	M	1.0	0.26	0.87	998310390
161107	TRICHLOROETHYLENE	N		UG/L	0.5	5		Table 1		M	M	1.0	0.46	1.5	998310390
161107	VINYL CHLORIDE	N		UG/L	0.02	0.2		Table 1		M	M	0.020	0.004	0.013	998310390
161107	VINYL CHLORIDE	N		UG/L	0.02	0.2		Table 1		M	M	1.0	0.90	3.0	998310390
161107	XYLENES-TOTAL	N		UG/L	400	2000		Table 1		M	M	2.0	0.66	2.2	998310390
Sample Point: 02TB	**WDNR Point ID:** 999														
161107	1,1,1-TRICHLOROETHANE	N		UG/L	40	200		Table 1		M	M	1.0	0.82	2.7	998310390
161107	1,1,2,2-TETRACHLOROETHANE	N		UG/L	0.02	0.2		Table 1		M	M	1.0	0.21	0.70	998310390
161107	1,1,2-TRICHLOROETHANE	N		UG/L	0.5	5		Table 1		M	M	1.0	0.23	0.77	998310390
161107	1,1-DICHLOROETHANE	N		UG/L	85	850		Table 1		M	M	1.0	0.38	1.3	998310390
161107	1,1-DICHLOROETHYLENE	N		UG/L	0.7	7		Table 1		M	M	1.0	0.29	0.97	998310390
161107	1,2,4-TRICHLOROBENZENE	N		UG/L	14	70		Table 1		M	M	1.0	0.41	1.4	998310390
161107	1,2-DIBROMO-3-CHLOROPROPANE	N		UG/L	0.02	0.2		Table 1		M	M	1.0	0.39	1.3	998310390
161107	1,2-DIBROMOETHANE (EDB)	N		UG/L	0.005	0.05		Table 1		M	M	1.0	0.73	2.4	998310390
161107	1,2-DICHLOROETHANE	N		UG/L	0.5	5		Table 1		M	M	1.0	0.21	0.70	998310390
161107	1,2-DICHLOROPROPANE	N		UG/L	0.5	5		Table 1		M	M	1.0	0.72	2.4	998310390
161107	2-HEXANONE	N		UG/L						M	M	5.0	1.2	4.1	998310390
161107	4-METHYL-2-PENTANONE (MIBK)	N		UG/L	50	500		Table 1		M	M	5.0	2.1	7.0	998310390
161107	ACETONE	N		UG/L	1800	9000		Table 1		M	M	10	3.0	10	998310390
161107	BENZENE	N		UG/L	0.5	5		Table 1		M	M	1.0	0.41	1.4	998310390
161107	BROMODICHLOROMETHANE	N		UG/L	0.06	0.6		Table 1		M	M	1.0	0.39	1.3	998310390
161107	BROMOMETHANE	N		UG/L	1	10		Table 1		M	M	1.0	0.69	2.3	998310390
161107	CARBON DISULFIDE	N		UG/L	200	1000		Table 1		M	M	1.0	0.19	0.63	998310390
161107	CARBON TETRACHLORIDE	N		UG/L	0.5	5		Table 1		M	M	1.0	0.27	0.90	998310390
161107	CHLOROBENZENE	N		UG/L	20	100		Table 1		M	M	1.0	0.75	2.5	998310390

Sample Date	Parameter	Qualifier	Value	Units	PAL	ES	Type of Exceedance	Type of Standard	QC 1	QC 2	QC 3	RL	LOD	LOQ	WDNR Lab Cert
Sample Point: 02TB	**WDNR Point ID:** 999														
161107	CHLOROETHANE	N		UG/L	80	400		Table 1		M	M	1.0	0.32	1.1	998310390
161107	CHLOROFORM	N		UG/L	0.6	6		Table 1		M	M	1.0	0.34	1.1	998310390
161107	CHLOROMETHANE	N		UG/L	3	30		Table 1		M	M	1.0	0.35	1.2	998310390
161107	CIS-1,2-DICHLOROETHENE	N		UG/L	7	70		Table 1		M	M	1.0	0.81	2.7	998310390
161107	CIS-1,3-DICHLOROPROPENE	N		UG/L	0.04	0.4		Table 1		M	M	1.0	0.36	1.2	998310390
161107	DIBROMOCHLOROMETHANE	N		UG/L	6	60		Table 1		M	M	1.0	0.32	1.1	998310390
161107	DIBROMOMETHANE	N		UG/L						M	M	1.0	0.41	1.4	998310390
161107	DICHLORODIFLUOROMETHANE	N		UG/L	200	1000		Table 1		M	M	1.0	0.68	2.3	998310390
161107	DICHLOROMETHANE	N		UG/L	0.5	5		Table 1		M	M	1.0	0.44	1.5	998310390
161107	ETHYLBENZENE	N		UG/L	140	700		Table 1		M	M	1.0	0.74	2.5	998310390
161107	FLUOROTRICHLOROMETHANE	N		UG/L	698	3490		Table 1		M	M	1.0	0.88	2.9	998310390
161107	M-DICHLOROBENZENE	N		UG/L	120	600		Table 1		M	M	1.0	0.78	2.6	998310390
161107	METHYL ETHYL KETONE (MEK)	N		UG/L	800	4000		Table 1		M	M	10	1.3	4.4	998310390
161107	METHYL TERT-BUTYL ETHER (MTBE)	N		UG/L	12	60		Table 1		M	M	1.0	0.16	0.53	998310390
161107	NAPHTHALENE	N		UG/L	10	100		Table 1		M	M	1.0	0.43	1.4	998310390
161107	O-DICHLOROBENZENE	N		UG/L	60	600		Table 1		M	M	1.0	0.79	2.6	998310390
161107	P-DICHLOROBENZENE	N		UG/L	15	75		Table 1		M	M	1.0	0.84	2.8	998310390
161107	STYRENE	N		UG/L	10	100		Table 1		M	M	1.0	0.73	2.4	998310390
161107	TETRACHLOROETHYLENE	N		UG/L	0.5	5		Table 1		M	M	1.0	0.36	1.2	998310390
161107	TETRAHYDROFURAN	N		UG/L	10	50		Table 1		M	M	5.0	1.3	4.2	998310390
161107	TOLUENE	N		UG/L	160	800		Table 1		M	M	1.0	0.51	1.7	998310390
161107	TRANS-1,2-DICHLOROETHENE (TOTAL)	N		UG/L	20	100		Table 1		M	M	1.0	0.90	3.0	998310390
161107	TRANS-1,3-DICHLOROPROPENE	N		UG/L	0.04	0.4		Table 1		M	M	1.0	0.37	1.2	998310390
161107	TRIBROMOMETHANE	N		UG/L	0.44	4.4		Table 1		M	M	1.0	0.26	0.87	998310390
161107	TRICHLOROETHYLENE	N		UG/L	0.5	5		Table 1		M	M	1.0	0.46	1.5	998310390
161107	VINYL CHLORIDE	N		UG/L	0.02	0.2		Table 1		M	M	1.0	0.90	3.0	998310390
161107	VINYL CHLORIDE	N		UG/L	0.02	0.2		Table 1		M	M	0.020	0.004	0.013	998310390
161107	XYLENES-TOTAL	N		UG/L	400	2000		Table 1		M	M	2.0	0.66	2.2	998310390
Sample Point: 08FB	**WDNR Point ID:** 997														
161107	1,1,1-TRICHLOROETHANE	N		UG/L	40	200		Table 1		M	M	1.0	0.82	2.7	998310390
161107	1,1,2,2-TETRACHLOROETHANE	N		UG/L	0.02	0.2		Table 1		M	M	1.0	0.21	0.70	998310390
161107	1,1,2-TRICHLOROETHANE	N		UG/L	0.5	5		Table 1		M	M	1.0	0.23	0.77	998310390
161107	1,1-DICHLOROETHANE	N		UG/L	85	850		Table 1		M	M	1.0	0.38	1.3	998310390
161107	1,1-DICHLOROETHYLENE	N		UG/L	0.7	7		Table 1		M	M	1.0	0.29	0.97	998310390

Sample Date	Parameter	Qualifier	Value	Units	PAL	ES	Type of Exceedance	Type of Standard	QC 1	QC 2	QC 3	RL	LOD	LOQ	WDNR Lab Cert
Sample Point: 08FB **WDNR Point ID:** 997															
161107	1,2,4-TRICHLOROBENZENE	N		UG/L	14	70		Table 1		M	M	1.0	0.41	1.4	998310390
161107	1,2-DIBROMO-3-CHLOROPROPANE	N		UG/L	0.02	0.2		Table 1		M	M	1.0	0.39	1.3	998310390
161107	1,2-DIBROMOETHANE (EDB)	N		UG/L	0.005	0.05		Table 1		M	M	1.0	0.73	2.4	998310390
161107	1,2-DICHLOROETHANE	N		UG/L	0.5	5		Table 1		M	M	1.0	0.21	0.70	998310390
161107	1,2-DICHLOROPROPANE	N		UG/L	0.5	5		Table 1		M	M	1.0	0.72	2.4	998310390
161107	2-HEXANONE	N		UG/L						M	M	5.0	1.2	4.1	998310390
161107	4-METHYL-2-PENTANONE (MIBK)	N		UG/L	50	500		Table 1		M	M	5.0	2.1	7.0	998310390
161107	ACETONE	N		UG/L	1800	9000		Table 1		M	M	10	3.0	10	998310390
161107	ALKALINITY-TOTAL AS CACO3 (FILT)	N		MG/L						M	M	10.0	4.0	13.3	998310390
161107	BENZENE	N		UG/L	0.5	5		Table 1		M	M	1.0	0.41	1.4	998310390
161107	BROMODICHLOROMETHANE	N		UG/L	0.06	0.6		Table 1		M	M	1.0	0.39	1.3	998310390
161107	BROMOMETHANE	N		UG/L	1	10		Table 1		M	M	1.0	0.69	2.3	998310390
161107	CARBON DISULFIDE	N		UG/L	200	1000		Table 1		M	M	1.0	0.19	0.63	998310390
161107	CARBON TETRACHLORIDE	N		UG/L	0.5	5		Table 1		M	M	1.0	0.27	0.90	998310390
161107	CHLOROBENZENE	N		UG/L	20	100		Table 1		M	M	1.0	0.75	2.5	998310390
161107	CHLOROETHANE	N		UG/L	80	400		Table 1		M	M	1.0	0.32	1.1	998310390
161107	CHLOROFORM	N		UG/L	0.6	6		Table 1		M	M	1.0	0.34	1.1	998310390
161107	CHLOROMETHANE	N		UG/L	3	30		Table 1		M	M	1.0	0.35	1.2	998310390
161107	CIS-1,2-DICHLOROETHENE	N		UG/L	7	70		Table 1		M	M	1.0	0.81	2.7	998310390
161107	CIS-1,3-DICHLOROPROPENE	N		UG/L	0.04	0.4		Table 1		M	M	1.0	0.36	1.2	998310390
161107	DIBROMOCHLOROMETHANE	N		UG/L	6	60		Table 1		M	M	1.0	0.32	1.1	998310390
161107	DIBROMOMETHANE	N		UG/L						M	M	1.0	0.41	1.4	998310390
161107	DICHLORODIFLUOROMETHANE	N		UG/L	200	1000		Table 1		M	M	1.0	0.68	2.3	998310390
161107	DICHLOROMETHANE	N		UG/L	0.5	5		Table 1		M	M	1.0	0.44	1.5	998310390
161107	ETHYLBENZENE	N		UG/L	140	700		Table 1		M	M	1.0	0.74	2.5	998310390
161107	FLUOROTRICHLOROMETHANE	N		UG/L	698	3490		Table 1		M	M	1.0	0.88	2.9	998310390
161107	IRON-DISSOLVED AS FE	N		MG/L	0.15	0.3		Table 2		M	M	0.030	0.019	0.064	998310390
161107	MANGANESE-DISSOLVED AS MN	N		UG/L	60	300		Table 1		M	M	2.0	0.40	1.3	998310390
161107	MANGANESE-DISSOLVED AS MN	N		UG/L	25	50		Table 2		M	M	2.0	0.40	1.3	998310390
161107	M-DICHLOROBENZENE	N		UG/L	120	600		Table 1		M	M	1.0	0.78	2.6	998310390
161107	METHYL ETHYL KETONE (MEK)	N		UG/L	800	4000		Table 1		M	M	10	1.3	4.4	998310390
161107	METHYL TERT-BUTYL ETHER (MTBE)	N		UG/L	12	60		Table 1		M	M	1.0	0.16	0.53	998310390
161107	NAPHTHALENE	N		UG/L	10	100		Table 1		M	M	1.0	0.43	1.4	998310390
161107	NITRITE PLUS NITRATE-DISSOLVED AS N	N		MG/L AS N	2	10		Table 1		M	M	0.050	0.020	0.067	998310390

Sample Date	Parameter	Qualifier	Value	Units	PAL	ES	Type of Exceedance	Type of Standard	QC 1	QC 2	QC 3	RL	LOD	LOQ	WDNR Lab Cert
Sample Point: 08FB	**WDNR Point ID:** 997														
161107	O-DICHLOROBENZENE	N		UG/L	60	600		Table 1		M	M	1.0	0.79	2.6	998310390
161107	P-DICHLOROBENZENE	N		UG/L	15	75		Table 1		M	M	1.0	0.84	2.8	998310390
161107	PH-FIELD		9.26	S.U.											
161107	SAMPLE COLOR	N		NONE											
161107	SAMPLE ODOR	N		NONE											
161107	SAMPLE TEMPERATURE		18.6	DEGREES C											
161107	SAMPLE TURBIDITY	N		NONE											
161107	SPECIFIC CONDUCTANCE-FIELD		8	UMHOS/CM											
161107	STYRENE	N		UG/L	10	100		Table 1		M	M	1.0	0.73	2.4	998310390
161107	SULFATE-DISSOLVED AS SO4	N		MG/L	125	250		Table 2		M	M	2.0	0.35	1.2	998310390
161107	TETRACHLOROETHYLENE	N		UG/L	0.5	5		Table 1		M	M	1.0	0.36	1.2	998310390
161107	TETRAHYDROFURAN	N		UG/L	10	50		Table 1		M	M	5.0	1.3	4.2	998310390
161107	TOLUENE	N		UG/L	160	800		Table 1		M	M	1.0	0.51	1.7	998310390
161107	TRANS-1,2-DICHLOROETHENE (TOTAL)	N		UG/L	20	100		Table 1		M	M	1.0	0.90	3.0	998310390
161107	TRANS-1,3-DICHLOROPROPENE	N		UG/L	0.04	0.4		Table 1		M	M	1.0	0.37	1.2	998310390
161107	TRIBROMOMETHANE	N		UG/L	0.44	4.4		Table 1		M	M	1.0	0.26	0.87	998310390
161107	TRICHLOROETHYLENE	N		UG/L	0.5	5		Table 1		M	M	1.0	0.46	1.5	998310390
161107	VINYL CHLORIDE	N		UG/L	0.02	0.2		Table 1		M	M	0.020	0.004	0.013	998310390
161107	VINYL CHLORIDE	N		UG/L	0.02	0.2		Table 1		M	M	1.0	0.90	3.0	998310390
161107	XYLENES-TOTAL	N		UG/L	400	2000		Table 1		M	M	2.0	0.66	2.2	998310390
Sample Point: MW100	**WDNR Point ID:** 175														
161107	GROUNDWATER ELEVATION		862.76	FT MSL											
Sample Point: MW-22	**WDNR Point ID:** 060														
161107	1,1,1-TRICHLOROETHANE	N		UG/L	40	200		Table 1	M	M	M	1.0	0.82	2.7	998310390
161107	1,1,2,2-TETRACHLOROETHANE	N		UG/L	0.02	0.2		Table 1	M	M	M	1.0	0.21	0.70	998310390
161107	1,1,2-TRICHLOROETHANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.23	0.77	998310390
161107	1,1-DICHLOROETHANE	N		UG/L	85	850		Table 1	M	M	M	1.0	0.38	1.3	998310390
161107	1,1-DICHLOROETHYLENE	N		UG/L	0.7	7		Table 1	M	M	M	1.0	0.29	0.97	998310390
161107	1,2,4-TRICHLOROBENZENE	N		UG/L	14	70		Table 1	M	M	M	1.0	0.41	1.4	998310390
161107	1,2-DIBROMO-3-CHLOROPROPANE	N		UG/L	0.02	0.2		Table 1	M	M	M	1.0	0.39	1.3	998310390
161107	1,2-DIBROMOETHANE (EDB)	N		UG/L	0.005	0.05		Table 1	M	M	M	1.0	0.73	2.4	998310390
161107	1,2-DICHLOROETHANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.21	0.70	998310390
161107	1,2-DICHLOROPROPANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.72	2.4	998310390

Sample Date	Parameter	Qualifier	Value	Units	PAL	ES	Type of Exceedance	Type of Standard	QC 1	QC 2	QC 3	RL	LOD	LOQ	WDNR Lab Cert
Sample Point: MW-22	**WDNR Point ID:** 060														
161107	2-HEXANONE	N		UG/L					M	M	M	5.0	1.2	4.1	998310390
161107	4-METHYL-2-PENTANONE (MIBK)	N		UG/L	50	500		Table 1	M	M	M	5.0	2.1	7.0	998310390
161107	ACETONE	N		UG/L	1800	9000		Table 1	M	M	M	10	3.0	10	998310390
161107	ALKALINITY-TOTAL AS CACO3 (FILT)		376	MG/L					M	M	M	50.0	20.0	66.7	998310390
161107	BENZENE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.41	1.4	998310390
161107	BROMODICHLOROMETHANE	N		UG/L	0.06	0.6		Table 1	M	M	M	1.0	0.39	1.3	998310390
161107	BROMOMETHANE	N		UG/L	1	10		Table 1	M	M	M	1.0	0.69	2.3	998310390
161107	CARBON DISULFIDE	N		UG/L	200	1000		Table 1	M	M	M	1.0	0.19	0.63	998310390
161107	CARBON TETRACHLORIDE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.27	0.90	998310390
161107	CHLOROBENZENE	N		UG/L	20	100		Table 1	M	M	M	1.0	0.75	2.5	998310390
161107	CHLOROETHANE	N		UG/L	80	400		Table 1	M	M	M	1.0	0.32	1.1	998310390
161107	CHLOROFORM	N		UG/L	0.6	6		Table 1	M	M	M	1.0	0.34	1.1	998310390
161107	CHLOROMETHANE	N		UG/L	3	30		Table 1	M	M	F	1.0	0.35	1.2	998310390
161107	CIS-1,2-DICHLOROETHENE	N		UG/L	7	70		Table 1	M	M	M	1.0	0.81	2.7	998310390
161107	CIS-1,3-DICHLOROPROPENE	N		UG/L	0.04	0.4		Table 1	M	M	M	1.0	0.36	1.2	998310390
161107	DIBROMOCHLOROMETHANE	N		UG/L	6	60		Table 1	M	M	M	1.0	0.32	1.1	998310390
161107	DIBROMOMETHANE	N		UG/L					M	M	M	1.0	0.41	1.4	998310390
161107	DICHLORODIFLUOROMETHANE	N		UG/L	200	1000		Table 1	M	M	M	1.0	0.68	2.3	998310390
161107	DICHLOROMETHANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.44	1.5	998310390
161107	DISSOLVED OXYGEN, FIELD BY PROBE		6.6	MG/L											
161107	ETHYLBENZENE	N		UG/L	140	700		Table 1	M	M	M	1.0	0.74	2.5	998310390
161107	FLUOROTRICHLOROMETHANE	N		UG/L	698	3490		Table 1	M	M	M	1.0	0.88	2.9	998310390
161107	GROUNDWATER ELEVATION		860.03	FT MSL											
161107	IRON-DISSOLVED AS FE	J	0.019	MG/L	0.15	0.3		Table 2	M	M	M	0.030	0.019	0.064	998310390
161107	MANGANESE-DISSOLVED AS MN		2.2	UG/L	60	300		Table 1	M	M	M	2.0	0.40	1.3	998310390
161107	MANGANESE-DISSOLVED AS MN		2.2	UG/L	25	50		Table 2	M	M	M	2.0	0.40	1.3	998310390
161107	M-DICHLOROBENZENE	N		UG/L	120	600		Table 1	M	M	M	1.0	0.78	2.6	998310390
161107	METHYL ETHYL KETONE (MEK)	N		UG/L	800	4000		Table 1	M	M	M	10	1.3	4.4	998310390
161107	METHYL TERT-BUTYL ETHER (MTBE)	N		UG/L	12	60		Table 1	M	M	M	1.0	0.16	0.53	998310390
161107	NAPHTHALENE	N		UG/L	10	100		Table 1	M	M	M	1.0	0.43	1.4	998310390
161107	NITRITE PLUS NITRATE-DISSOLVED AS N		0.27	MG/L AS N	2	10		Table 1	M	M	M	0.050	0.020	0.067	998310390
161107	O-DICHLOROBENZENE	N		UG/L	60	600		Table 1	M	M	M	1.0	0.79	2.6	998310390
161107	OXIDATION REDUCTION POTENTIAL		15	MILLIVOLTS											
161107	P-DICHLOROBENZENE	N		UG/L	15	75		Table 1	M	M	M	1.0	0.84	2.8	998310390

Sample Date	Parameter	Qualifier	Value	Units	PAL	ES	Type of Exceedance	Type of Standard	QC 1	QC 2	QC 3	RL	LOD	LOQ	WDNR Lab Cert
Sample Point: MW-22	**WDNR Point ID:** 060														
161107	PH-FIELD		7.86	S.U.											
161107	SAMPLE COLOR	N		NONE											
161107	SAMPLE ODOR	N		NONE											
161107	SAMPLE TEMPERATURE		13.9	DEGREES C											
161107	SAMPLE TURBIDITY	N		NONE											
161107	SPECIFIC CONDUCTANCE-FIELD		636	UMHOS/CM											
161107	STYRENE	N		UG/L	10	100		Table 1	M	M	M	1.0	0.73	2.4	998310390
161107	SULFATE-DISSOLVED AS SO4		10.3	MG/L	125	250		Table 2	M	M	M	2.0	0.35	1.2	998310390
161107	TETRACHLOROETHYLENE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.36	1.2	998310390
161107	TETRAHYDROFURAN	N		UG/L	10	50		Table 1	M	M	M	5.0	1.3	4.2	998310390
161107	TOLUENE	N		UG/L	160	800		Table 1	M	M	M	1.0	0.51	1.7	998310390
161107	TRANS-1,2-DICHLOROETHENE (TOTAL)	N		UG/L	20	100		Table 1	M	M	M	1.0	0.90	3.0	998310390
161107	TRANS-1,3-DICHLOROPROPENE	N		UG/L	0.04	0.4		Table 1	M	M	M	1.0	0.37	1.2	998310390
161107	TRIBROMOMETHANE	N		UG/L	0.44	4.4		Table 1	M	M	M	1.0	0.26	0.87	998310390
161107	TRICHLOROETHYLENE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.46	1.5	998310390
161107	VINYL CHLORIDE	N		UG/L	0.02	0.2		Table 1	M	M	M	1.0	0.90	3.0	998310390
161107	VINYL CHLORIDE	N		UG/L	0.02	0.2		Table 1	M	M	M	0.020	0.004	0.013	998310390
161107	XYLENES-TOTAL	N		UG/L	400	2000		Table 1	M	M	M	2.0	0.66	2.2	998310390
Sample Point: MW30	**WDNR Point ID:** 130														
161107	GROUNDWATER ELEVATION		859.08	FT MSL											
Sample Point: MW32	**WDNR Point ID:** 145														
161107	GROUNDWATER ELEVATION		857.06	FT MSL											
Sample Point: MW33	**WDNR Point ID:** 155														
161107	GROUNDWATER ELEVATION		859.65	FT MSL											
Sample Point: MW7	**WDNR Point ID:** 025														
161107	1,1,1-TRICHLOROETHANE	N		UG/L	40	200		Table 1	M	M	M	1.0	0.82	2.7	998310390
161107	1,1,2,2-TETRACHLOROETHANE	N		UG/L	0.02	0.2		Table 1	M	M	M	1.0	0.21	0.70	998310390
161107	1,1,2-TRICHLOROETHANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.23	0.77	998310390
161107	1,1-DICHLOROETHANE	N		UG/L	85	850		Table 1	M	M	M	1.0	0.38	1.3	998310390
161107	1,1-DICHLOROETHYLENE	N		UG/L	0.7	7		Table 1	M	M	M	1.0	0.29	0.97	998310390
161107	1,2,4-TRICHLOROBENZENE	N		UG/L	14	70		Table 1	M	M	M	1.0	0.41	1.4	998310390
161107	1,2-DIBROMO-3-CHLOROPROPANE	N		UG/L	0.02	0.2		Table 1	M	M	M	1.0	0.39	1.3	998310390

Sample Date	Parameter	Qualifier	Value	Units	PAL	ES	Type of Exceedance	Type of Standard	QC 1	QC 2	QC 3	RL	LOD	LOQ	WDNR Lab Cert
Sample Point: MW7 **WDNR Point ID:** 025															
161107	1,2-DIBROMOETHANE (EDB)	N		UG/L	0.005	0.05		Table 1	M	M	M	1.0	0.73	2.4	998310390
161107	1,2-DICHLOROETHANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.21	0.70	998310390
161107	1,2-DICHLOROPROPANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.72	2.4	998310390
161107	2-HEXANONE	N		UG/L					M	M	M	5.0	1.2	4.1	998310390
161107	4-METHYL-2-PENTANONE (MIBK)	N		UG/L	50	500		Table 1	M	M	M	5.0	2.1	7.0	998310390
161107	ACETONE	N		UG/L	1800	9000		Table 1	M	M	M	10	3.0	10	998310390
161107	BENZENE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.41	1.4	998310390
161107	BROMODICHLOROMETHANE	N		UG/L	0.06	0.6		Table 1	M	M	M	1.0	0.39	1.3	998310390
161107	BROMOMETHANE	N		UG/L	1	10		Table 1	M	M	M	1.0	0.69	2.3	998310390
161107	CARBON DISULFIDE	N		UG/L	200	1000		Table 1	M	M	M	1.0	0.19	0.63	998310390
161107	CARBON TETRACHLORIDE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.27	0.90	998310390
161107	CHLOROBENZENE	N		UG/L	20	100		Table 1	M	M	M	1.0	0.75	2.5	998310390
161107	CHLOROETHANE	N		UG/L	80	400		Table 1	M	M	M	1.0	0.32	1.1	998310390
161107	CHLOROFORM	N		UG/L	0.6	6		Table 1	M	M	M	1.0	0.34	1.1	998310390
161107	CHLOROMETHANE	N		UG/L	3	30		Table 1	M	M	M	1.0	0.35	1.2	998310390
161107	CIS-1,2-DICHLOROETHENE	N		UG/L	7	70		Table 1	M	M	M	1.0	0.81	2.7	998310390
161107	CIS-1,3-DICHLOROPROPENE	N		UG/L	0.04	0.4		Table 1	M	M	M	1.0	0.36	1.2	998310390
161107	DIBROMOCHLOROMETHANE	N		UG/L	6	60		Table 1	M	M	M	1.0	0.32	1.1	998310390
161107	DIBROMOMETHANE	N		UG/L					M	M	M	1.0	0.41	1.4	998310390
161107	DICHLORODIFLUOROMETHANE	N		UG/L	200	1000		Table 1	M	M	M	1.0	0.68	2.3	998310390
161107	DICHLOROMETHANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.44	1.5	998310390
161107	ETHYLBENZENE	N		UG/L	140	700		Table 1	M	M	M	1.0	0.74	2.5	998310390
161107	FLUOROTRICHLOROMETHANE	N		UG/L	698	3490		Table 1	M	M	M	1.0	0.88	2.9	998310390
161107	M-DICHLOROBENZENE	N		UG/L	120	600		Table 1	M	M	M	1.0	0.78	2.6	998310390
161107	METHYL ETHYL KETONE (MEK)	N		UG/L	800	4000		Table 1	M	M	M	10	1.3	4.4	998310390
161107	METHYL TERT-BUTYL ETHER (MTBE)	N		UG/L	12	60		Table 1	M	M	M	1.0	0.16	0.53	998310390
161107	NAPHTHALENE	N		UG/L	10	100		Table 1	M	M	M	1.0	0.43	1.4	998310390
161107	O-DICHLOROBENZENE	N		UG/L	60	600		Table 1	M	M	M	1.0	0.79	2.6	998310390
161107	P-DICHLOROBENZENE	N		UG/L	15	75		Table 1	M	M	M	1.0	0.84	2.8	998310390
161107	STYRENE	N		UG/L	10	100		Table 1	M	M	M	1.0	0.73	2.4	998310390
161107	TETRACHLOROETHYLENE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.36	1.2	998310390
161107	TETRAHYDROFURAN	N		UG/L	10	50		Table 1	M	M	M	5.0	1.3	4.2	998310390
161107	TOLUENE	N		UG/L	160	800		Table 1	M	M	M	1.0	0.51	1.7	998310390
161107	TRANS-1,2-DICHLOROETHENE (TOTAL)	N		UG/L	20	100		Table 1	M	M	M	1.0	0.90	3.0	998310390

Sample Date	Parameter	Qualifier	Value	Units	PAL	ES	Type of Exceedance	Type of Standard	QC 1	QC 2	QC 3	RL	LOD	LOQ	WDNR Lab Cert
Sample Point: MW7	**WDNR Point ID:** 025														
161107	TRANS-1,3-DICHLOROPROPENE	N		UG/L	0.04	0.4		Table 1	M	M	M	1.0	0.37	1.2	998310390
161107	TRIBROMOMETHANE	N		UG/L	0.44	4.4		Table 1	M	M	M	1.0	0.26	0.87	998310390
161107	TRICHLOROETHYLENE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.46	1.5	998310390
161107	VINYL CHLORIDE	N		UG/L	0.02	0.2		Table 1	M	M	M	0.020	0.004	0.013	998310390
161107	VINYL CHLORIDE	N		UG/L	0.02	0.2		Table 1	M	M	M	1.0	0.90	3.0	998310390
161107	XYLENES-TOTAL	N		UG/L	400	2000		Table 1	M	M	M	2.0	0.66	2.2	998310390
Sample Point: OB8M	**WDNR Point ID:** 035														
161107	1,1,1-TRICHLOROETHANE	N		UG/L	40	200		Table 1	M	M	M	1.0	0.82	2.7	998310390
161107	1,1,2,2-TETRACHLOROETHANE	N		UG/L	0.02	0.2		Table 1	M	M	M	1.0	0.21	0.70	998310390
161107	1,1,2-TRICHLOROETHANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.23	0.77	998310390
161107	1,1-DICHLOROETHANE	N		UG/L	85	850		Table 1	M	M	M	1.0	0.38	1.3	998310390
161107	1,1-DICHLOROETHYLENE	N		UG/L	0.7	7		Table 1	M	M	M	1.0	0.29	0.97	998310390
161107	1,2,4-TRICHLOROBENZENE	N		UG/L	14	70		Table 1	M	M	M	1.0	0.41	1.4	998310390
161107	1,2-DIBROMO-3-CHLOROPROPANE	N		UG/L	0.02	0.2		Table 1	M	M	M	1.0	0.39	1.3	998310390
161107	1,2-DIBROMOETHANE (EDB)	N		UG/L	0.005	0.05		Table 1	M	M	M	1.0	0.73	2.4	998310390
161107	1,2-DICHLOROETHANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.21	0.70	998310390
161107	1,2-DICHLOROPROPANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.72	2.4	998310390
161107	2-HEXANONE	N		UG/L					M	M	M	5.0	1.2	4.1	998310390
161107	4-METHYL-2-PENTANONE (MIBK)	N		UG/L	50	500		Table 1	M	M	M	5.0	2.1	7.0	998310390
161107	ACETONE	N		UG/L	1800	9000		Table 1	M	M	M	10	3.0	10	998310390
161107	ALKALINITY-TOTAL AS CACO3 (FILT)		288	MG/L					M	M	M	50.0	20.0	66.7	998310390
161107	BENZENE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.41	1.4	998310390
161107	BROMODICHLOROMETHANE	N		UG/L	0.06	0.6		Table 1	M	M	M	1.0	0.39	1.3	998310390
161107	BROMOMETHANE	N		UG/L	1	10		Table 1	M	M	M	1.0	0.69	2.3	998310390
161107	CARBON DISULFIDE	N		UG/L	200	1000		Table 1	M	M	M	1.0	0.19	0.63	998310390
161107	CARBON TETRACHLORIDE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.27	0.90	998310390
161107	CHLOROBENZENE	N		UG/L	20	100		Table 1	M	M	M	1.0	0.75	2.5	998310390
161107	CHLOROETHANE	N		UG/L	80	400		Table 1	M	M	M	1.0	0.32	1.1	998310390
161107	CHLOROFORM	N		UG/L	0.6	6		Table 1	M	M	M	1.0	0.34	1.1	998310390
161107	CHLOROMETHANE	N		UG/L	3	30		Table 1	M	M	M	1.0	0.35	1.2	998310390
161107	CIS-1,2-DICHLOROETHENE	N		UG/L	7	70		Table 1	M	M	M	1.0	0.81	2.7	998310390
161107	CIS-1,3-DICHLOROPROPENE	N		UG/L	0.04	0.4		Table 1	M	M	M	1.0	0.36	1.2	998310390
161107	DIBROMOCHLOROMETHANE	N		UG/L	6	60		Table 1	M	M	M	1.0	0.32	1.1	998310390
161107	DIBROMOMETHANE	N		UG/L					M	M	M	1.0	0.41	1.4	998310390

Sample Date	Parameter	Qualifier	Value	Units	PAL	ES	Type of Exceedance	Type of Standard	QC 1	QC 2	QC 3	RL	LOD	LOQ	WDNR Lab Cert
Sample Point: OB8M **WDNR Point ID:** 035															
161107	DICHLORODIFLUOROMETHANE	N		UG/L	200	1000		Table 1	M	M	M	1.0	0.68	2.3	998310390
161107	DICHLOROMETHANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.44	1.5	998310390
161107	DISSOLVED OXYGEN, FIELD BY PROBE		5.9	MG/L											
161107	ETHYLBENZENE	N		UG/L	140	700		Table 1	M	M	M	1.0	0.74	2.5	998310390
161107	FLUOROTRICHLOROMETHANE	N		UG/L	698	3490		Table 1	M	M	M	1.0	0.88	2.9	998310390
161107	GROUNDWATER ELEVATION		854.63	FT MSL											
161107	IRON-DISSOLVED AS FE		0.20	MG/L	0.15	0.3	P	Table 2	M	M	M	0.030	0.019	0.064	998310390
161107	MANGANESE-DISSOLVED AS MN		146	UG/L	60	300	P	Table 1	M	M	M	2.0	0.40	1.3	998310390
161107	MANGANESE-DISSOLVED AS MN		146	UG/L	25	50	E	Table 2	M	M	M	2.0	0.40	1.3	998310390
161107	M-DICHLOROBENZENE	N		UG/L	120	600		Table 1	M	M	M	1.0	0.78	2.6	998310390
161107	METHYL ETHYL KETONE (MEK)	N		UG/L	800	4000		Table 1	M	M	M	10	1.3	4.4	998310390
161107	METHYL TERT-BUTYL ETHER (MTBE)	N		UG/L	12	60		Table 1	M	M	M	1.0	0.16	0.53	998310390
161107	NAPHTHALENE	N		UG/L	10	100		Table 1	M	M	M	1.0	0.43	1.4	998310390
161107	NITRITE PLUS NITRATE-DISSOLVED AS N		0.28	MG/L AS N	2	10		Table 1	M	M	M	0.050	0.020	0.067	998310390
161107	O-DICHLOROBENZENE	N		UG/L	60	600		Table 1	M	M	M	1.0	0.79	2.6	998310390
161107	OXIDATION REDUCTION POTENTIAL		100	MILLIVOLTS											
161107	P-DICHLOROBENZENE	N		UG/L	15	75		Table 1	M	M	M	1.0	0.84	2.8	998310390
161107	PH-FIELD		7.56	S.U.											
161107	SAMPLE COLOR	N		NONE											
161107	SAMPLE ODOR	N		NONE											
161107	SAMPLE TEMPERATURE		13.8	DEGREES C											
161107	SAMPLE TURBIDITY	N		NONE											
161107	SPECIFIC CONDUCTANCE-FIELD		885	UMHOS/CM											
161107	STYRENE	N		UG/L	10	100		Table 1	M	M	M	1.0	0.73	2.4	998310390
161107	SULFATE-DISSOLVED AS SO4		25.7	MG/L	125	250		Table 2	M	M	M	2.0	0.35	1.2	998310390
161107	TETRACHLOROETHYLENE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.36	1.2	998310390
161107	TETRAHYDROFURAN	N		UG/L	10	50		Table 1	M	M	M	5.0	1.3	4.2	998310390
161107	TOLUENE	N		UG/L	160	800		Table 1	M	M	M	1.0	0.51	1.7	998310390
161107	TRANS-1,2-DICHLOROETHENE (TOTAL)	N		UG/L	20	100		Table 1	M	M	M	1.0	0.90	3.0	998310390
161107	TRANS-1,3-DICHLOROPROPENE	N		UG/L	0.04	0.4		Table 1	M	M	M	1.0	0.37	1.2	998310390
161107	TRIBROMOMETHANE	N		UG/L	0.44	4.4		Table 1	M	M	M	1.0	0.26	0.87	998310390
161107	TRICHLOROETHYLENE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.46	1.5	998310390
161107	VINYL CHLORIDE	N		UG/L	0.02	0.2		Table 1	M	M	M	1.0	0.90	3.0	998310390
161107	VINYL CHLORIDE		0.85	UG/L	0.02	0.2	E	Table 1	M	M	M	0.020	0.004	0.013	998310390

Sample Date	Parameter	Qualifier	Value	Units	PAL	ES	Type of Exceedance	Type of Standard	QC 1	QC 2	QC 3	RL	LOD	LOQ	WDNR Lab Cert
Sample Point: OB8M	**WDNR Point ID:** 035														
161107	XYLENES-TOTAL	N		UG/L	400	2000		Table 1	M	M	M	2.0	0.66	2.2	998310390
Sample Point: OBS-1A	**WDNR Point ID:** 010														
161107	1,1,1-TRICHLOROETHANE	N		UG/L	40	200		Table 1	M	M	M	1.0	0.82	2.7	998310390
161107	1,1,2,2-TETRACHLOROETHANE	N		UG/L	0.02	0.2		Table 1	M	M	M	1.0	0.21	0.70	998310390
161107	1,1,2-TRICHLOROETHANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.23	0.77	998310390
161107	1,1-DICHLOROETHANE	N		UG/L	85	850		Table 1	M	M	M	1.0	0.38	1.3	998310390
161107	1,1-DICHLOROETHYLENE	N		UG/L	0.7	7		Table 1	M	M	M	1.0	0.29	0.97	998310390
161107	1,2,4-TRICHLOROBENZENE	N		UG/L	14	70		Table 1	M	M	M	1.0	0.41	1.4	998310390
161107	1,2-DIBROMO-3-CHLOROPROPANE	N		UG/L	0.02	0.2		Table 1	M	M	M	1.0	0.39	1.3	998310390
161107	1,2-DIBROMOETHANE (EDB)	N		UG/L	0.005	0.05		Table 1	M	M	M	1.0	0.73	2.4	998310390
161107	1,2-DICHLOROETHANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.21	0.70	998310390
161107	1,2-DICHLOROPROPANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.72	2.4	998310390
161107	2-HEXANONE	N		UG/L					M	M	M	5.0	1.2	4.1	998310390
161107	4-METHYL-2-PENTANONE (MIBK)	N		UG/L	50	500		Table 1	M	M	M	5.0	2.1	7.0	998310390
161107	ACETONE	N		UG/L	1800	9000		Table 1	M	M	M	10	3.0	10	998310390
161107	ALKALINITY-TOTAL AS CACO3 (FILT)		351	MG/L					M	M	M	50.0	20.0	66.7	998310390
161107	BENZENE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.41	1.4	998310390
161107	BROMODICHLOROMETHANE	N		UG/L	0.06	0.6		Table 1	M	M	M	1.0	0.39	1.3	998310390
161107	BROMOMETHANE	N		UG/L	1	10		Table 1	M	M	M	1.0	0.69	2.3	998310390
161107	CARBON DISULFIDE	N		UG/L	200	1000		Table 1	M	M	M	1.0	0.19	0.63	998310390
161107	CARBON TETRACHLORIDE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.27	0.90	998310390
161107	CHLOROBENZENE	N		UG/L	20	100		Table 1	M	M	M	1.0	0.75	2.5	998310390
161107	CHLOROETHANE	N		UG/L	80	400		Table 1	M	M	M	1.0	0.32	1.1	998310390
161107	CHLOROFORM	N		UG/L	0.6	6		Table 1	M	M	M	1.0	0.34	1.1	998310390
161107	CHLOROMETHANE	N		UG/L	3	30		Table 1	M	M	F	1.0	0.35	1.2	998310390
161107	CIS-1,2-DICHLOROETHENE	N		UG/L	7	70		Table 1	M	M	M	1.0	0.81	2.7	998310390
161107	CIS-1,3-DICHLOROPROPENE	N		UG/L	0.04	0.4		Table 1	M	M	M	1.0	0.36	1.2	998310390
161107	DIBROMOCHLOROMETHANE	N		UG/L	6	60		Table 1	M	M	M	1.0	0.32	1.1	998310390
161107	DIBROMOMETHANE	N		UG/L					M	M	M	1.0	0.41	1.4	998310390
161107	DICHLORODIFLUOROMETHANE	N		UG/L	200	1000		Table 1	M	M	M	1.0	0.68	2.3	998310390
161107	DICHLOROMETHANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.44	1.5	998310390
161107	DISSOLVED OXYGEN, FIELD BY PROBE		7.7	MG/L											
161107	ETHYLBENZENE	N		UG/L	140	700		Table 1	M	M	M	1.0	0.74	2.5	998310390
161107	FLUOROTRICHLOROMETHANE	N		UG/L	698	3490		Table 1	M	M	M	1.0	0.88	2.9	998310390

Sample Date	Parameter	Qualifier	Value	Units	PAL	ES	Type of Exceedance	Type of Standard	QC 1	QC 2	QC 3	RL	LOD	LOQ	WDNR Lab Cert
Sample Point: OBS-1A **WDNR Point ID:** 010															
161107	GROUNDWATER ELEVATION		859.41	FT MSL											
161107	IRON-DISSOLVED AS FE	N		MG/L	0.15	0.3		Table 2	M	M	M	0.030	0.019	0.064	998310390
161107	MANGANESE-DISSOLVED AS MN		2.3	UG/L	60	300		Table 1	M	M	M	2.0	0.40	1.3	998310390
161107	MANGANESE-DISSOLVED AS MN		2.3	UG/L	25	50		Table 2	M	M	M	2.0	0.40	1.3	998310390
161107	M-DICHLOROBENZENE	N		UG/L	120	600		Table 1	M	M	M	1.0	0.78	2.6	998310390
161107	METHYL ETHYL KETONE (MEK)	N		UG/L	800	4000		Table 1	M	M	M	10	1.3	4.4	998310390
161107	METHYL TERT-BUTYL ETHER (MTBE)	N		UG/L	12	60		Table 1	M	M	M	1.0	0.16	0.53	998310390
161107	NAPHTHALENE	N		UG/L	10	100		Table 1	M	M	M	1.0	0.43	1.4	998310390
161107	NITRITE PLUS NITRATE-DISSOLVED AS N		0.32	MG/L AS N	2	10		Table 1	M	M	M	0.050	0.020	0.067	998310390
161107	O-DICHLOROBENZENE	N		UG/L	60	600		Table 1	M	M	M	1.0	0.79	2.6	998310390
161107	OXIDATION REDUCTION POTENTIAL		212	MILLIVOLTS											
161107	P-DICHLOROBENZENE	N		UG/L	15	75		Table 1	M	M	M	1.0	0.84	2.8	998310390
161107	PH-FIELD		7.81	S.U.											
161107	SAMPLE COLOR	N		NONE											
161107	SAMPLE ODOR	N		NONE											
161107	SAMPLE TEMPERATURE		14.5	DEGREES C											
161107	SAMPLE TURBIDITY	N		NONE											
161107	SPECIFIC CONDUCTANCE-FIELD		598	UMHOS/CM											
161107	STYRENE	N		UG/L	10	100		Table 1	M	M	M	1.0	0.73	2.4	998310390
161107	SULFATE-DISSOLVED AS SO4		4.3	MG/L	125	250		Table 2	M	M	M	2.0	0.35	1.2	998310390
161107	TETRACHLOROETHYLENE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.36	1.2	998310390
161107	TETRAHYDROFURAN	N		UG/L	10	50		Table 1	M	M	M	5.0	1.3	4.2	998310390
161107	TOLUENE	N		UG/L	160	800		Table 1	M	M	M	1.0	0.51	1.7	998310390
161107	TRANS-1,2-DICHLOROETHENE (TOTAL)	N		UG/L	20	100		Table 1	M	M	M	1.0	0.90	3.0	998310390
161107	TRANS-1,3-DICHLOROPROPENE	N		UG/L	0.04	0.4		Table 1	M	M	M	1.0	0.37	1.2	998310390
161107	TRIBROMOMETHANE	N		UG/L	0.44	4.4		Table 1	M	M	M	1.0	0.26	0.87	998310390
161107	TRICHLOROETHYLENE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.46	1.5	998310390
161107	VINYL CHLORIDE	N		UG/L	0.02	0.2		Table 1	M	M	M	1.0	0.90	3.0	998310390
161107	VINYL CHLORIDE	N		UG/L	0.02	0.2		Table 1	M	M	M	0.020	0.004	0.013	998310390
161107	XYLENES-TOTAL	N		UG/L	400	2000		Table 1	M	M	M	2.0	0.66	2.2	998310390
Sample Point: OBS-1B **WDNR Point ID:** 015															
161107	1,1,1-TRICHLOROETHANE	N		UG/L	40	200		Table 1	M	M	M	1.0	0.82	2.7	998310390
161107	1,1,2,2-TETRACHLOROETHANE	N		UG/L	0.02	0.2		Table 1	M	M	M	1.0	0.21	0.70	998310390
161107	1,1,2-TRICHLOROETHANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.23	0.77	998310390

Sample Date	Parameter	Qualifier	Value	Units	PAL	ES	Type of Exceedance	Type of Standard	QC 1	QC 2	QC 3	RL	LOD	LOQ	WDNR Lab Cert
Sample Point: OBS-1B	**WDNR Point ID:** 015														
161107	1,1-DICHLOROETHANE	N		UG/L	85	850		Table 1	M	M	M	1.0	0.38	1.3	998310390
161107	1,1-DICHLOROETHYLENE	N		UG/L	0.7	7		Table 1	M	M	M	1.0	0.29	0.97	998310390
161107	1,2,4-TRICHLOROBENZENE	N		UG/L	14	70		Table 1	M	M	M	1.0	0.41	1.4	998310390
161107	1,2-DIBROMO-3-CHLOROPROPANE	N		UG/L	0.02	0.2		Table 1	M	M	M	1.0	0.39	1.3	998310390
161107	1,2-DIBROMOETHANE (EDB)	N		UG/L	0.005	0.05		Table 1	M	M	M	1.0	0.73	2.4	998310390
161107	1,2-DICHLOROETHANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.21	0.70	998310390
161107	1,2-DICHLOROPROPANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.72	2.4	998310390
161107	2-HEXANONE	N		UG/L					M	M	M	5.0	1.2	4.1	998310390
161107	4-METHYL-2-PENTANONE (MIBK)	N		UG/L	50	500		Table 1	M	M	M	5.0	2.1	7.0	998310390
161107	ACETONE	N		UG/L	1800	9000		Table 1	M	M	M	10	3.0	10	998310390
161107	ALKALINITY-TOTAL AS CACO3 (FILT)		422	MG/L					M	M	M	50.0	20.0	66.7	998310390
161107	BENZENE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.41	1.4	998310390
161107	BROMODICHLOROMETHANE	N		UG/L	0.06	0.6		Table 1	M	M	M	1.0	0.39	1.3	998310390
161107	BROMOMETHANE	N		UG/L	1	10		Table 1	M	M	M	1.0	0.69	2.3	998310390
161107	CARBON DISULFIDE	N		UG/L	200	1000		Table 1	M	M	M	1.0	0.19	0.63	998310390
161107	CARBON TETRACHLORIDE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.27	0.90	998310390
161107	CHLOROBENZENE	N		UG/L	20	100		Table 1	M	M	M	1.0	0.75	2.5	998310390
161107	CHLOROETHANE	N		UG/L	80	400		Table 1	M	M	M	1.0	0.32	1.1	998310390
161107	CHLOROFORM	N		UG/L	0.6	6		Table 1	M	M	M	1.0	0.34	1.1	998310390
161107	CHLOROMETHANE	N		UG/L	3	30		Table 1	M	M	F	1.0	0.35	1.2	998310390
161107	CIS-1,2-DICHLOROETHENE	N		UG/L	7	70		Table 1	M	M	M	1.0	0.81	2.7	998310390
161107	CIS-1,3-DICHLOROPROPENE	N		UG/L	0.04	0.4		Table 1	M	M	M	1.0	0.36	1.2	998310390
161107	DIBROMOCHLOROMETHANE	N		UG/L	6	60		Table 1	M	M	M	1.0	0.32	1.1	998310390
161107	DIBROMOMETHANE	N		UG/L					M	M	M	1.0	0.41	1.4	998310390
161107	DICHLORODIFLUOROMETHANE	N		UG/L	200	1000		Table 1	M	M	M	1.0	0.68	2.3	998310390
161107	DICHLOROMETHANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.44	1.5	998310390
161107	DISSOLVED OXYGEN, FIELD BY PROBE		14.0	MG/L											
161107	ETHYLBENZENE	N		UG/L	140	700		Table 1	M	M	M	1.0	0.74	2.5	998310390
161107	FLUOROTRICHLOROMETHANE	N		UG/L	698	3490		Table 1	M	M	M	1.0	0.88	2.9	998310390
161107	GROUNDWATER ELEVATION		859.49	FT MSL											
161107	IRON-DISSOLVED AS FE	J	0.035	MG/L	0.15	0.3		Table 2	M	M	M	0.030	0.019	0.064	998310390
161107	MANGANESE-DISSOLVED AS MN		2.0	UG/L	60	300		Table 1	M	M	M	2.0	0.40	1.3	998310390
161107	MANGANESE-DISSOLVED AS MN		2.0	UG/L	25	50		Table 2	M	M	M	2.0	0.40	1.3	998310390
161107	M-DICHLOROBENZENE	N		UG/L	120	600		Table 1	M	M	M	1.0	0.78	2.6	998310390

Sample Date	Parameter	Qualifier	Value	Units	PAL	ES	Type of Exceedance	Type of Standard	QC 1	QC 2	QC 3	RL	LOD	LOQ	WDNR Lab Cert
Sample Point: OBS-1B	**WDNR Point ID:** 015														
161107	METHYL ETHYL KETONE (MEK)	N		UG/L	800	4000		Table 1	M	M	M	10	1.3	4.4	998310390
161107	METHYL TERT-BUTYL ETHER (MTBE)	N		UG/L	12	60		Table 1	M	M	M	1.0	0.16	0.53	998310390
161107	NAPHTHALENE	N		UG/L	10	100		Table 1	M	M	M	1.0	0.43	1.4	998310390
161107	NITRITE PLUS NITRATE-DISSOLVED AS N		1.9	MG/L AS N	2	10		Table 1	M	M	M	0.050	0.020	0.067	998310390
161107	O-DICHLOROBENZENE	N		UG/L	60	600		Table 1	M	M	M	1.0	0.79	2.6	998310390
161107	OXIDATION REDUCTION POTENTIAL		191	MILLIVOLTS											
161107	P-DICHLOROBENZENE	N		UG/L	15	75		Table 1	M	M	M	1.0	0.84	2.8	998310390
161107	PH-FIELD		7.76	S.U.											
161107	SAMPLE COLOR	N		NONE											
161107	SAMPLE ODOR	N		NONE											
161107	SAMPLE TEMPERATURE		13.5	DEGREES C											
161107	SAMPLE TURBIDITY	N		NONE											
161107	SPECIFIC CONDUCTANCE-FIELD		844	UMHOS/CM											
161107	STYRENE	N		UG/L	10	100		Table 1	M	M	M	1.0	0.73	2.4	998310390
161107	SULFATE-DISSOLVED AS SO4		31.3	MG/L	125	250		Table 2	M	M	M	2.0	0.35	1.2	998310390
161107	TETRACHLOROETHYLENE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.36	1.2	998310390
161107	TETRAHYDROFURAN	N		UG/L	10	50		Table 1	M	M	M	5.0	1.3	4.2	998310390
161107	TOLUENE	N		UG/L	160	800		Table 1	M	M	M	1.0	0.51	1.7	998310390
161107	TRANS-1,2-DICHLOROETHENE (TOTAL)	N		UG/L	20	100		Table 1	M	M	M	1.0	0.90	3.0	998310390
161107	TRANS-1,3-DICHLOROPROPENE	N		UG/L	0.04	0.4		Table 1	M	M	M	1.0	0.37	1.2	998310390
161107	TRIBROMOMETHANE	N		UG/L	0.44	4.4		Table 1	M	M	M	1.0	0.26	0.87	998310390
161107	TRICHLOROETHYLENE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.46	1.5	998310390
161107	VINYL CHLORIDE	N		UG/L	0.02	0.2		Table 1	M	M	M	1.0	0.90	3.0	998310390
161107	VINYL CHLORIDE	N		UG/L	0.02	0.2		Table 1	M	M	M	0.020	0.004	0.013	998310390
161107	XYLENES-TOTAL	N		UG/L	400	2000		Table 1	M	M	M	2.0	0.66	2.2	998310390
Sample Point: OBS-1C	**WDNR Point ID:** 017														
161107	1,1,1-TRICHLOROETHANE	N		UG/L	40	200		Table 1	M	M	M	1.0	0.82	2.7	998310390
161107	1,1,2,2-TETRACHLOROETHANE	N		UG/L	0.02	0.2		Table 1	M	M	M	1.0	0.21	0.70	998310390
161107	1,1,2-TRICHLOROETHANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.23	0.77	998310390
161107	1,1-DICHLOROETHANE	N		UG/L	85	850		Table 1	M	M	M	1.0	0.38	1.3	998310390
161107	1,1-DICHLOROETHYLENE	N		UG/L	0.7	7		Table 1	M	M	M	1.0	0.29	0.97	998310390
161107	1,2,4-TRICHLOROBENZENE	N		UG/L	14	70		Table 1	M	M	M	1.0	0.41	1.4	998310390
161107	1,2-DIBROMO-3-CHLOROPROPANE	N		UG/L	0.02	0.2		Table 1	M	M	M	1.0	0.39	1.3	998310390
161107	1,2-DIBROMOETHANE (EDB)	N		UG/L	0.005	0.05		Table 1	M	M	M	1.0	0.73	2.4	998310390

Sample Date	Parameter	Qualifier	Value	Units	PAL	ES	Type of Exceedance	Type of Standard	QC 1	QC 2	QC 3	RL	LOD	LOQ	WDNR Lab Cert
Sample Point: OBS-1C **WDNR Point ID:** 017															
161107	1,2-DICHLOROETHANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.21	0.70	998310390
161107	1,2-DICHLOROPROPANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.72	2.4	998310390
161107	2-HEXANONE	N		UG/L					M	M	M	5.0	1.2	4.1	998310390
161107	4-METHYL-2-PENTANONE (MIBK)	N		UG/L	50	500		Table 1	M	M	M	5.0	2.1	7.0	998310390
161107	ACETONE	N		UG/L	1800	9000		Table 1	M	M	M	10	3.0	10	998310390
161107	ALKALINITY-TOTAL AS CACO3 (FILT)		440	MG/L					M	M	M	50.0	20.0	66.7	998310390
161107	BENZENE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.41	1.4	998310390
161107	BROMODICHLOROMETHANE	N		UG/L	0.06	0.6		Table 1	M	M	M	1.0	0.39	1.3	998310390
161107	BROMOMETHANE	N		UG/L	1	10		Table 1	M	M	M	1.0	0.69	2.3	998310390
161107	CARBON DISULFIDE	N		UG/L	200	1000		Table 1	M	M	M	1.0	0.19	0.63	998310390
161107	CARBON TETRACHLORIDE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.27	0.90	998310390
161107	CHLOROBENZENE	N		UG/L	20	100		Table 1	M	M	M	1.0	0.75	2.5	998310390
161107	CHLOROETHANE	N		UG/L	80	400		Table 1	M	M	M	1.0	0.32	1.1	998310390
161107	CHLOROFORM	N		UG/L	0.6	6		Table 1	M	M	M	1.0	0.34	1.1	998310390
161107	CHLOROMETHANE	N		UG/L	3	30		Table 1	M	M	F	1.0	0.35	1.2	998310390
161107	CIS-1,2-DICHLOROETHENE	N		UG/L	7	70		Table 1	M	M	M	1.0	0.81	2.7	998310390
161107	CIS-1,3-DICHLOROPROPENE	N		UG/L	0.04	0.4		Table 1	M	M	M	1.0	0.36	1.2	998310390
161107	DIBROMOCHLOROMETHANE	N		UG/L	6	60		Table 1	M	M	M	1.0	0.32	1.1	998310390
161107	DIBROMOMETHANE	N		UG/L					M	M	M	1.0	0.41	1.4	998310390
161107	DICHLORODIFLUOROMETHANE	N		UG/L	200	1000		Table 1	M	M	M	1.0	0.68	2.3	998310390
161107	DICHLOROMETHANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.44	1.5	998310390
161107	DISSOLVED OXYGEN, FIELD BY PROBE		12.1	MG/L											
161107	ETHYLBENZENE	N		UG/L	140	700		Table 1	M	M	M	1.0	0.74	2.5	998310390
161107	FLUOROTRICHLOROMETHANE	N		UG/L	698	3490		Table 1	M	M	M	1.0	0.88	2.9	998310390
161107	GROUNDWATER ELEVATION		859.50	FT MSL											
161107	IRON-DISSOLVED AS FE	J	0.036	MG/L	0.15	0.3		Table 2	M	M	M	0.030	0.019	0.064	998310390
161107	MANGANESE-DISSOLVED AS MN		1.8	UG/L	60	300		Table 1	M	M	M	2.0	0.40	1.3	998310390
161107	MANGANESE-DISSOLVED AS MN		1.8	UG/L	25	50		Table 2	M	M	M	2.0	0.40	1.3	998310390
161107	M-DICHLOROBENZENE	N		UG/L	120	600		Table 1	M	M	M	1.0	0.78	2.6	998310390
161107	METHYL ETHYL KETONE (MEK)	N		UG/L	800	4000		Table 1	M	M	M	10	1.3	4.4	998310390
161107	METHYL TERT-BUTYL ETHER (MTBE)	N		UG/L	12	60		Table 1	M	M	M	1.0	0.16	0.53	998310390
161107	NAPHTHALENE	N		UG/L	10	100		Table 1	M	M	M	1.0	0.43	1.4	998310390
161107	NITRITE PLUS NITRATE-DISSOLVED AS N		0.11	MG/L AS N	2	10		Table 1	M	M	M	0.050	0.020	0.067	998310390
161107	O-DICHLOROBENZENE	N		UG/L	60	600		Table 1	M	M	M	1.0	0.79	2.6	998310390

Sample Date	Parameter	Qualifier	Value	Units	PAL	ES	Type of Exceedance	Type of Standard	QC 1	QC 2	QC 3	RL	LOD	LOQ	WDNR Lab Cert
Sample Point: OBS-1C **WDNR Point ID:** 017															
161107	OXIDATION REDUCTION POTENTIAL		181	MILLIVOLTS											
161107	P-DICHLOROBENZENE	N		UG/L	15	75		Table 1	M	M	M	1.0	0.84	2.8	998310390
161107	PH-FIELD		7.87	S.U.											
161107	SAMPLE COLOR	N		NONE											
161107	SAMPLE ODOR	N		NONE											
161107	SAMPLE TEMPERATURE		12.7	DEGREES C											
161107	SAMPLE TURBIDITY	N		NONE											
161107	SPECIFIC CONDUCTANCE-FIELD		818	UMHOS/CM											
161107	STYRENE	N		UG/L	10	100		Table 1	M	M	M	1.0	0.73	2.4	998310390
161107	SULFATE-DISSOLVED AS SO4		17.6	MG/L	125	250		Table 2	M	M	M	2.0	0.35	1.2	998310390
161107	TETRACHLOROETHYLENE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.36	1.2	998310390
161107	TETRAHYDROFURAN	N		UG/L	10	50		Table 1	M	M	M	5.0	1.3	4.2	998310390
161107	TOLUENE	N		UG/L	160	800		Table 1	M	M	M	1.0	0.51	1.7	998310390
161107	TRANS-1,2-DICHLOROETHENE (TOTAL)	N		UG/L	20	100		Table 1	M	M	M	1.0	0.90	3.0	998310390
161107	TRANS-1,3-DICHLOROPROPENE	N		UG/L	0.04	0.4		Table 1	M	M	M	1.0	0.37	1.2	998310390
161107	TRIBROMOMETHANE	N		UG/L	0.44	4.4		Table 1	M	M	M	1.0	0.26	0.87	998310390
161107	TRICHLOROETHYLENE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.46	1.5	998310390
161107	VINYL CHLORIDE	N		UG/L	0.02	0.2		Table 1	M	M	M	0.020	0.004	0.013	998310390
161107	VINYL CHLORIDE	N		UG/L	0.02	0.2		Table 1	M	M	M	1.0	0.90	3.0	998310390
161107	XYLENES-TOTAL	N		UG/L	400	2000		Table 1	M	M	M	2.0	0.66	2.2	998310390
Sample Point: OBS-2C **WDNR Point ID:** 022															
161107	1,1,1-TRICHLOROETHANE	N		UG/L	40	200		Table 1	M	M	M	1.0	0.82	2.7	998310390
161107	1,1,2,2-TETRACHLOROETHANE	N		UG/L	0.02	0.2		Table 1	M	M	M	1.0	0.21	0.70	998310390
161107	1,1,2-TRICHLOROETHANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.23	0.77	998310390
161107	1,1-DICHLOROETHANE	N		UG/L	85	850		Table 1	M	M	M	1.0	0.38	1.3	998310390
161107	1,1-DICHLOROETHYLENE	N		UG/L	0.7	7		Table 1	M	M	M	1.0	0.29	0.97	998310390
161107	1,2,4-TRICHLOROBENZENE	N		UG/L	14	70		Table 1	M	M	M	1.0	0.41	1.4	998310390
161107	1,2-DIBROMO-3-CHLOROPROPANE	N		UG/L	0.02	0.2		Table 1	M	M	M	1.0	0.39	1.3	998310390
161107	1,2-DIBROMOETHANE (EDB)	N		UG/L	0.005	0.05		Table 1	M	M	M	1.0	0.73	2.4	998310390
161107	1,2-DICHLOROETHANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.21	0.70	998310390
161107	1,2-DICHLOROPROPANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.72	2.4	998310390
161107	2-HEXANONE	N		UG/L					M	M	M	5.0	1.2	4.1	998310390
161107	4-METHYL-2-PENTANONE (MIBK)	N		UG/L	50	500		Table 1	M	M	M	5.0	2.1	7.0	998310390
161107	ACETONE	N		UG/L	1800	9000		Table 1	M	M	M	10	3.0	10	998310390

Sample Date	Parameter	Qualifier	Value	Units	PAL	ES	Type of Exceedance	Type of Standard	QC 1	QC 2	QC 3	RL	LOD	LOQ	WDNR Lab Cert
Sample Point: OBS-2C **WDNR Point ID:** 022															
161107	ALKALINITY-TOTAL AS CACO3 (FILT)		372	MG/L					M	M	M	50.0	20.0	66.7	998310390
161107	BENZENE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.41	1.4	998310390
161107	BROMODICHLOROMETHANE	N		UG/L	0.06	0.6		Table 1	M	M	M	1.0	0.39	1.3	998310390
161107	BROMOMETHANE	N		UG/L	1	10		Table 1	M	M	M	1.0	0.69	2.3	998310390
161107	CARBON DISULFIDE	N		UG/L	200	1000		Table 1	M	M	M	1.0	0.19	0.63	998310390
161107	CARBON TETRACHLORIDE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.27	0.90	998310390
161107	CHLOROBENZENE	N		UG/L	20	100		Table 1	M	M	M	1.0	0.75	2.5	998310390
161107	CHLOROETHANE	N		UG/L	80	400		Table 1	M	M	M	1.0	0.32	1.1	998310390
161107	CHLOROFORM	N		UG/L	0.6	6		Table 1	M	M	M	1.0	0.34	1.1	998310390
161107	CHLOROMETHANE	N		UG/L	3	30		Table 1	M	M	M	1.0	0.35	1.2	998310390
161107	CIS-1,2-DICHLOROETHENE	N		UG/L	7	70		Table 1	M	M	M	1.0	0.81	2.7	998310390
161107	CIS-1,3-DICHLOROPROPENE	N		UG/L	0.04	0.4		Table 1	M	M	M	1.0	0.36	1.2	998310390
161107	DIBROMOCHLOROMETHANE	N		UG/L	6	60		Table 1	M	M	M	1.0	0.32	1.1	998310390
161107	DIBROMOMETHANE	N		UG/L					M	M	M	1.0	0.41	1.4	998310390
161107	DICHLORODIFLUOROMETHANE	N		UG/L	200	1000		Table 1	M	M	M	1.0	0.68	2.3	998310390
161107	DICHLOROMETHANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.44	1.5	998310390
161107	DISSOLVED OXYGEN, FIELD BY PROBE		14.4	MG/L											
161107	ETHYLBENZENE	N		UG/L	140	700		Table 1	M	M	M	1.0	0.74	2.5	998310390
161107	FLUOROTRICHLOROMETHANE	N		UG/L	698	3490		Table 1	M	M	M	1.0	0.88	2.9	998310390
161107	GROUNDWATER ELEVATION		859.26	FT MSL											
161107	IRON-DISSOLVED AS FE	N		MG/L	0.15	0.3		Table 2	M	M	M	0.030	0.019	0.064	998310390
161107	MANGANESE-DISSOLVED AS MN	J	0.84	UG/L	60	300		Table 1	M	M	M	2.0	0.40	1.3	998310390
161107	MANGANESE-DISSOLVED AS MN	J	0.84	UG/L	25	50		Table 2	M	M	M	2.0	0.40	1.3	998310390
161107	M-DICHLOROBENZENE	N		UG/L	120	600		Table 1	M	M	M	1.0	0.78	2.6	998310390
161107	METHYL ETHYL KETONE (MEK)	N		UG/L	800	4000		Table 1	M	M	M	10	1.3	4.4	998310390
161107	METHYL TERT-BUTYL ETHER (MTBE)	N		UG/L	12	60		Table 1	M	M	M	1.0	0.16	0.53	998310390
161107	NAPHTHALENE	N		UG/L	10	100		Table 1	M	M	M	1.0	0.43	1.4	998310390
161107	NITRITE PLUS NITRATE-DISSOLVED AS N		2.8	MG/L AS N	2	10	P	Table 1	M	M	M	0.050	0.020	0.067	998310390
161107	O-DICHLOROBENZENE	N		UG/L	60	600		Table 1	M	M	M	1.0	0.79	2.6	998310390
161107	OXIDATION REDUCTION POTENTIAL		216	MILLIVOLTS											
161107	P-DICHLOROBENZENE	N		UG/L	15	75		Table 1	M	M	M	1.0	0.84	2.8	998310390
161107	PH-FIELD		7.76	S.U.											
161107	SAMPLE COLOR	N		NONE											
161107	SAMPLE ODOR	N		NONE											

Sample Date	Parameter	Qualifier	Value	Units	PAL	ES	Type of Exceedance	Type of Standard	QC 1	QC 2	QC 3	RL	LOD	LOQ	WDNR Lab Cert
Sample Point: OBS-2C	**WDNR Point ID:** 022														
161107	SAMPLE TEMPERATURE		14.3	DEGREES C											
161107	SAMPLE TURBIDITY	N		NONE											
161107	SPECIFIC CONDUCTANCE-FIELD		756	UMHOS/CM											
161107	STYRENE	N		UG/L	10	100		Table 1	M	M	M	1.0	0.73	2.4	998310390
161107	SULFATE-DISSOLVED AS SO4		22.1	MG/L	125	250		Table 2	M	M	M	2.0	0.35	1.2	998310390
161107	TETRACHLOROETHYLENE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.36	1.2	998310390
161107	TETRAHYDROFURAN	N		UG/L	10	50		Table 1	M	M	M	5.0	1.3	4.2	998310390
161107	TOLUENE	N		UG/L	160	800		Table 1	M	M	M	1.0	0.51	1.7	998310390
161107	TRANS-1,2-DICHLOROETHENE (TOTAL)	N		UG/L	20	100		Table 1	M	M	M	1.0	0.90	3.0	998310390
161107	TRANS-1,3-DICHLOROPROPENE	N		UG/L	0.04	0.4		Table 1	M	M	M	1.0	0.37	1.2	998310390
161107	TRIBROMOMETHANE	N		UG/L	0.44	4.4		Table 1	M	M	M	1.0	0.26	0.87	998310390
161107	TRICHLOROETHYLENE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.46	1.5	998310390
161107	VINYL CHLORIDE	N		UG/L	0.02	0.2		Table 1	M	M	M	0.020	0.004	0.013	998310390
161107	VINYL CHLORIDE	N		UG/L	0.02	0.2		Table 1	M	M	M	1.0	0.90	3.0	998310390
161107	XYLENES-TOTAL	N		UG/L	400	2000		Table 1	M	M	M	2.0	0.66	2.2	998310390
Sample Point: P17B	**WDNR Point ID:** 045														
161107	1,1,1-TRICHLOROETHANE	N		UG/L	40	200		Table 1	M	M	M	1.0	0.82	2.7	998310390
161107	1,1,2,2-TETRACHLOROETHANE	N		UG/L	0.02	0.2		Table 1	M	M	M	1.0	0.21	0.70	998310390
161107	1,1,2-TRICHLOROETHANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.23	0.77	998310390
161107	1,1-DICHLOROETHANE	N		UG/L	85	850		Table 1	M	M	M	1.0	0.38	1.3	998310390
161107	1,1-DICHLOROETHYLENE	N		UG/L	0.7	7		Table 1	M	M	M	1.0	0.29	0.97	998310390
161107	1,2,4-TRICHLOROBENZENE	N		UG/L	14	70		Table 1	M	M	M	1.0	0.41	1.4	998310390
161107	1,2-DIBROMO-3-CHLOROPROPANE	N		UG/L	0.02	0.2		Table 1	M	M	M	1.0	0.39	1.3	998310390
161107	1,2-DIBROMOETHANE (EDB)	N		UG/L	0.005	0.05		Table 1	M	M	M	1.0	0.73	2.4	998310390
161107	1,2-DICHLOROETHANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.21	0.70	998310390
161107	1,2-DICHLOROPROPANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.72	2.4	998310390
161107	2-HEXANONE	N		UG/L					M	M	M	5.0	1.2	4.1	998310390
161107	4-METHYL-2-PENTANONE (MIBK)	N		UG/L	50	500		Table 1	M	M	M	5.0	2.1	7.0	998310390
161107	ACETONE	N		UG/L	1800	9000		Table 1	M	M	M	10	3.0	10	998310390
161107	ALKALINITY-TOTAL AS CACO3 (FILT)		397	MG/L					M	M	M	50.0	20.0	66.7	998310390
161107	BENZENE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.41	1.4	998310390
161107	BROMODICHLOROMETHANE	N		UG/L	0.06	0.6		Table 1	M	M	M	1.0	0.39	1.3	998310390
161107	BROMOMETHANE	N		UG/L	1	10		Table 1	M	M	M	1.0	0.69	2.3	998310390
161107	CARBON DISULFIDE	N		UG/L	200	1000		Table 1	M	M	M	1.0	0.19	0.63	998310390

Sample Date	Parameter	Qualifier	Value	Units	PAL	ES	Type of Exceedance	Type of Standard	QC 1	QC 2	QC 3	RL	LOD	LOQ	WDNR Lab Cert
Sample Point: P17B	**WDNR Point ID:** 045														
161107	CARBON TETRACHLORIDE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.27	0.90	998310390
161107	CHLOROBENZENE	N		UG/L	20	100		Table 1	M	M	M	1.0	0.75	2.5	998310390
161107	CHLOROETHANE	N		UG/L	80	400		Table 1	M	M	M	1.0	0.32	1.1	998310390
161107	CHLOROFORM	N		UG/L	0.6	6		Table 1	M	M	M	1.0	0.34	1.1	998310390
161107	CHLOROMETHANE	N		UG/L	3	30		Table 1	M	M	M	1.0	0.35	1.2	998310390
161107	CIS-1,2-DICHLOROETHENE	N		UG/L	7	70		Table 1	M	M	M	1.0	0.81	2.7	998310390
161107	CIS-1,3-DICHLOROPROPENE	N		UG/L	0.04	0.4		Table 1	M	M	M	1.0	0.36	1.2	998310390
161107	DIBROMOCHLOROMETHANE	N		UG/L	6	60		Table 1	M	M	M	1.0	0.32	1.1	998310390
161107	DIBROMOMETHANE	N		UG/L					M	M	M	1.0	0.41	1.4	998310390
161107	DICHLORODIFLUOROMETHANE	N		UG/L	200	1000		Table 1	M	M	M	1.0	0.68	2.3	998310390
161107	DICHLOROMETHANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.44	1.5	998310390
161107	DISSOLVED OXYGEN, FIELD BY PROBE		5.4	MG/L											
161107	ETHYLBENZENE	N		UG/L	140	700		Table 1	M	M	M	1.0	0.74	2.5	998310390
161107	FLUOROTRICHLOROMETHANE	N		UG/L	698	3490		Table 1	M	M	M	1.0	0.88	2.9	998310390
161107	GROUNDWATER ELEVATION		859.05	FT MSL											
161107	IRON-DISSOLVED AS FE	J	0.040	MG/L	0.15	0.3		Table 2	M	M	M	0.030	0.019	0.064	998310390
161107	MANGANESE-DISSOLVED AS MN		50.4	UG/L	60	300		Table 1	M	M	M	2.0	0.40	1.3	998310390
161107	MANGANESE-DISSOLVED AS MN		50.4	UG/L	25	50	P*	Table 2	M	M	M	2.0	0.40	1.3	998310390
161107	M-DICHLOROBENZENE	N		UG/L	120	600		Table 1	M	M	M	1.0	0.78	2.6	998310390
161107	METHYL ETHYL KETONE (MEK)	N		UG/L	800	4000		Table 1	M	M	M	10	1.3	4.4	998310390
161107	METHYL TERT-BUTYL ETHER (MTBE)	N		UG/L	12	60		Table 1	M	M	M	1.0	0.16	0.53	998310390
161107	NAPHTHALENE	N		UG/L	10	100		Table 1	M	M	M	1.0	0.43	1.4	998310390
161107	NITRITE PLUS NITRATE-DISSOLVED AS N		1.0	MG/L AS N	2	10		Table 1	M	M	M	0.050	0.020	0.067	998310390
161107	O-DICHLOROBENZENE	N		UG/L	60	600		Table 1	M	M	M	1.0	0.79	2.6	998310390
161107	OXIDATION REDUCTION POTENTIAL		149	MILLIVOLTS											
161107	P-DICHLOROBENZENE	N		UG/L	15	75		Table 1	M	M	M	1.0	0.84	2.8	998310390
161107	PH-FIELD		7.67	S.U.											
161107	SAMPLE COLOR	N		NONE											
161107	SAMPLE ODOR	N		NONE											
161107	SAMPLE TEMPERATURE		13.5	DEGREES C											
161107	SAMPLE TURBIDITY	N		NONE											
161107	SPECIFIC CONDUCTANCE-FIELD		708	UMHOS/CM											
161107	STYRENE	N		UG/L	10	100		Table 1	M	M	M	1.0	0.73	2.4	998310390
161107	SULFATE-DISSOLVED AS SO4		15.8	MG/L	125	250		Table 2	M	M	M	2.0	0.35	1.2	998310390

Sample Date	Parameter	Qualifier	Value	Units	PAL	ES	Type of Exceedance	Type of Standard	QC 1	QC 2	QC 3	RL	LOD	LOQ	WDNR Lab Cert
Sample Point: P17B	**WDNR Point ID:** 045														
161107	TETRACHLOROETHYLENE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.36	1.2	998310390
161107	TETRAHYDROFURAN	N		UG/L	10	50		Table 1	M	M	M	5.0	1.3	4.2	998310390
161107	TOLUENE	N		UG/L	160	800		Table 1	M	M	M	1.0	0.51	1.7	998310390
161107	TRANS-1,2-DICHLOROETHENE (TOTAL)	N		UG/L	20	100		Table 1	M	M	M	1.0	0.90	3.0	998310390
161107	TRANS-1,3-DICHLOROPROPENE	N		UG/L	0.04	0.4		Table 1	M	M	M	1.0	0.37	1.2	998310390
161107	TRIBROMOMETHANE	N		UG/L	0.44	4.4		Table 1	M	M	M	1.0	0.26	0.87	998310390
161107	TRICHLOROETHYLENE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.46	1.5	998310390
161107	VINYL CHLORIDE	J	0.0090	UG/L	0.02	0.2		Table 1	M	M	M	0.020	0.004	0.013	998310390
161107	VINYL CHLORIDE	N		UG/L	0.02	0.2		Table 1	M	M	M	1.0	0.90	3.0	998310390
161107	XYLENES-TOTAL	N		UG/L	400	2000		Table 1	M	M	M	2.0	0.66	2.2	998310390
Sample Point: P17C	**WDNR Point ID:** 050														
161107	1,1,1-TRICHLOROETHANE	N		UG/L	40	200		Table 1	M	M	M	1.0	0.82	2.7	998310390
161107	1,1,2,2-TETRACHLOROETHANE	N		UG/L	0.02	0.2		Table 1	M	M	M	1.0	0.21	0.70	998310390
161107	1,1,2-TRICHLOROETHANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.23	0.77	998310390
161107	1,1-DICHLOROETHANE	N		UG/L	85	850		Table 1	M	M	M	1.0	0.38	1.3	998310390
161107	1,1-DICHLOROETHYLENE	N		UG/L	0.7	7		Table 1	M	M	M	1.0	0.29	0.97	998310390
161107	1,2,4-TRICHLOROBENZENE	N		UG/L	14	70		Table 1	M	M	M	1.0	0.41	1.4	998310390
161107	1,2-DIBROMO-3-CHLOROPROPANE	N		UG/L	0.02	0.2		Table 1	M	M	M	1.0	0.39	1.3	998310390
161107	1,2-DIBROMOETHANE (EDB)	N		UG/L	0.005	0.05		Table 1	M	M	M	1.0	0.73	2.4	998310390
161107	1,2-DICHLOROETHANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.21	0.70	998310390
161107	1,2-DICHLOROPROPANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.72	2.4	998310390
161107	2-HEXANONE	N		UG/L					M	M	M	5.0	1.2	4.1	998310390
161107	4-METHYL-2-PENTANONE (MIBK)	N		UG/L	50	500		Table 1	M	M	M	5.0	2.1	7.0	998310390
161107	ACETONE	N		UG/L	1800	9000		Table 1	M	M	M	10	3.0	10	998310390
161107	ALKALINITY-TOTAL AS CACO3 (FILT)		437	MG/L					M	M	M	50.0	20.0	66.7	998310390
161107	BENZENE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.41	1.4	998310390
161107	BROMODICHLOROMETHANE	N		UG/L	0.06	0.6		Table 1	M	M	M	1.0	0.39	1.3	998310390
161107	BROMOMETHANE	N		UG/L	1	10		Table 1	M	M	M	1.0	0.69	2.3	998310390
161107	CARBON DISULFIDE	N		UG/L	200	1000		Table 1	M	M	M	1.0	0.19	0.63	998310390
161107	CARBON TETRACHLORIDE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.27	0.90	998310390
161107	CHLOROBENZENE	N		UG/L	20	100		Table 1	M	M	M	1.0	0.75	2.5	998310390
161107	CHLOROETHANE	N		UG/L	80	400		Table 1	M	M	M	1.0	0.32	1.1	998310390
161107	CHLOROFORM	N		UG/L	0.6	6		Table 1	M	M	M	1.0	0.34	1.1	998310390
161107	CHLOROMETHANE	N		UG/L	3	30		Table 1	M	M	M	1.0	0.35	1.2	998310390

Hagen Farm Landfill

License Number: 02981
Facility ID Number: 113176030

Sample Date	Parameter	Qualifier	Value	Units	PAL	ES	Type of Exceedance	Type of Standard	QC 1	QC 2	QC 3	RL	LOD	LOQ	WDNR Lab Cert
Sample Point: P17C	**WDNR Point ID:** 050														
161107	CIS-1,2-DICHLOROETHENE	N		UG/L	7	70		Table 1	M	M	M	1.0	0.81	2.7	998310390
161107	CIS-1,3-DICHLOROPROPENE	N		UG/L	0.04	0.4		Table 1	M	M	M	1.0	0.36	1.2	998310390
161107	DIBROMOCHLOROMETHANE	N		UG/L	6	60		Table 1	M	M	M	1.0	0.32	1.1	998310390
161107	DIBROMOMETHANE	N		UG/L					M	M	M	1.0	0.41	1.4	998310390
161107	DICHLORODIFLUOROMETHANE	N		UG/L	200	1000		Table 1	M	M	M	1.0	0.68	2.3	998310390
161107	DICHLOROMETHANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.44	1.5	998310390
161107	DISSOLVED OXYGEN, FIELD BY PROBE		2.4	MG/L											
161107	ETHYLBENZENE	N		UG/L	140	700		Table 1	M	M	M	1.0	0.74	2.5	998310390
161107	FLUOROTRICHLOROMETHANE	N		UG/L	698	3490		Table 1	M	M	M	1.0	0.88	2.9	998310390
161107	GROUNDWATER ELEVATION		859.10	FT MSL											
161107	IRON-DISSOLVED AS FE		3.0	MG/L	0.15	0.3	P*	Table 2	M	M	M	0.030	0.019	0.064	998310390
161107	MANGANESE-DISSOLVED AS MN		261	UG/L	60	300	P	Table 1	M	M	M	2.0	0.40	1.3	998310390
161107	MANGANESE-DISSOLVED AS MN		261	UG/L	25	50	P*	Table 2	M	M	M	2.0	0.40	1.3	998310390
161107	M-DICHLOROBENZENE	N		UG/L	120	600		Table 1	M	M	M	1.0	0.78	2.6	998310390
161107	METHYL ETHYL KETONE (MEK)	N		UG/L	800	4000		Table 1	M	M	M	10	1.3	4.4	998310390
161107	METHYL TERT-BUTYL ETHER (MTBE)	N		UG/L	12	60		Table 1	M	M	M	1.0	0.16	0.53	998310390
161107	NAPHTHALENE	N		UG/L	10	100		Table 1	M	M	M	1.0	0.43	1.4	998310390
161107	NITRITE PLUS NITRATE-DISSOLVED AS N		0.37	MG/L AS N	2	10		Table 1	M	M	M	0.050	0.020	0.067	998310390
161107	O-DICHLOROBENZENE	N		UG/L	60	600		Table 1	M	M	M	1.0	0.79	2.6	998310390
161107	OXIDATION REDUCTION POTENTIAL		-101	MILLIVOLTS											
161107	P-DICHLOROBENZENE	N		UG/L	15	75		Table 1	M	M	M	1.0	0.84	2.8	998310390
161107	PH-FIELD		7.92	S.U.											
161107	SAMPLE COLOR	N		NONE											
161107	SAMPLE ODOR	N		NONE											
161107	SAMPLE TEMPERATURE		14.6	DEGREES C											
161107	SAMPLE TURBIDITY	N		NONE											
161107	SPECIFIC CONDUCTANCE-FIELD		790	UMHOS/CM											
161107	STYRENE	N		UG/L	10	100		Table 1	M	M	M	1.0	0.73	2.4	998310390
161107	SULFATE-DISSOLVED AS SO4		9.7	MG/L	125	250		Table 2	M	M	M	2.0	0.35	1.2	998310390
161107	TETRACHLOROETHYLENE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.36	1.2	998310390
161107	TETRAHYDROFURAN	N		UG/L	10	50		Table 1	M	M	M	5.0	1.3	4.2	998310390
161107	TOLUENE	N		UG/L	160	800		Table 1	M	M	M	1.0	0.51	1.7	998310390
161107	TRANS-1,2-DICHLOROETHENE (TOTAL)	N		UG/L	20	100		Table 1	M	M	M	1.0	0.90	3.0	998310390
161107	TRANS-1,3-DICHLOROPROPENE	N		UG/L	0.04	0.4		Table 1	M	M	M	1.0	0.37	1.2	998310390

Sample Date	Parameter	Qualifier	Value	Units	PAL	ES	Type of Exceedance	Type of Standard	QC 1	QC 2	QC 3	RL	LOD	LOQ	WDNR Lab Cert
Sample Point: P17C	**WDNR Point ID:** 050														
161107	TRIBROMOMETHANE	N		UG/L	0.44	4.4		Table 1	M	M	M	1.0	0.26	0.87	998310390
161107	TRICHLOROETHYLENE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.46	1.5	998310390
161107	VINYL CHLORIDE		0.42	UG/L	0.02	0.2	P*	Table 1	M	M	M	0.020	0.004	0.013	998310390
161107	VINYL CHLORIDE	N		UG/L	0.02	0.2		Table 1	M	M	M	1.0	0.90	3.0	998310390
161107	XYLENES-TOTAL	N		UG/L	400	2000		Table 1	M	M	M	2.0	0.66	2.2	998310390
Sample Point: P17DR	**WDNR Point ID:** 055														
161107	GROUNDWATER ELEVATION		858.91	FT MSL											
Sample Point: P22B	**WDNR Point ID:** 065														
161107	1,1,1-TRICHLOROETHANE	N		UG/L	40	200		Table 1	M	M	M	1.0	0.82	2.7	998310390
161107	1,1,2,2-TETRACHLOROETHANE	N		UG/L	0.02	0.2		Table 1	M	M	M	1.0	0.21	0.70	998310390
161107	1,1,2-TRICHLOROETHANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.23	0.77	998310390
161107	1,1-DICHLOROETHANE	N		UG/L	85	850		Table 1	M	M	M	1.0	0.38	1.3	998310390
161107	1,1-DICHLOROETHYLENE	N		UG/L	0.7	7		Table 1	M	M	M	1.0	0.29	0.97	998310390
161107	1,2,4-TRICHLOROBENZENE	N		UG/L	14	70		Table 1	M	M	M	1.0	0.41	1.4	998310390
161107	1,2-DIBROMO-3-CHLOROPROPANE	N		UG/L	0.02	0.2		Table 1	M	M	M	1.0	0.39	1.3	998310390
161107	1,2-DIBROMOETHANE (EDB)	N		UG/L	0.005	0.05		Table 1	M	M	M	1.0	0.73	2.4	998310390
161107	1,2-DICHLOROETHANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.21	0.70	998310390
161107	1,2-DICHLOROPROPANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.72	2.4	998310390
161107	2-HEXANONE	N		UG/L					M	M	M	5.0	1.2	4.1	998310390
161107	4-METHYL-2-PENTANONE (MIBK)	N		UG/L	50	500		Table 1	M	M	M	5.0	2.1	7.0	998310390
161107	ACETONE	N		UG/L	1800	9000		Table 1	M	M	M	10	3.0	10	998310390
161107	ALKALINITY-TOTAL AS CACO3 (FILT)		362	MG/L					M	M	M	50.0	20.0	66.7	998310390
161107	BENZENE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.41	1.4	998310390
161107	BROMODICHLOROMETHANE	N		UG/L	0.06	0.6		Table 1	M	M	M	1.0	0.39	1.3	998310390
161107	BROMOMETHANE	N		UG/L	1	10		Table 1	M	M	M	1.0	0.69	2.3	998310390
161107	CARBON DISULFIDE	N		UG/L	200	1000		Table 1	M	M	M	1.0	0.19	0.63	998310390
161107	CARBON TETRACHLORIDE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.27	0.90	998310390
161107	CHLOROBENZENE	N		UG/L	20	100		Table 1	M	M	M	1.0	0.75	2.5	998310390
161107	CHLOROETHANE	N		UG/L	80	400		Table 1	M	M	M	1.0	0.32	1.1	998310390
161107	CHLOROFORM	N		UG/L	0.6	6		Table 1	M	M	M	1.0	0.34	1.1	998310390
161107	CHLOROMETHANE	N		UG/L	3	30		Table 1	M	M	M	1.0	0.35	1.2	998310390
161107	CIS-1,2-DICHLOROETHENE	N		UG/L	7	70		Table 1	M	M	M	1.0	0.81	2.7	998310390
161107	CIS-1,3-DICHLOROPROPENE	N		UG/L	0.04	0.4		Table 1	M	M	M	1.0	0.36	1.2	998310390

Hagen Farm Landfill

License Number: 02981
Facility ID Number: 113176030

Sample Date	Parameter	Qualifier	Value	Units	PAL	ES	Type of Exceedance	Type of Standard	QC 1	QC 2	QC 3	RL	LOD	LOQ	WDNR Lab Cert
Sample Point: P22B	**WDNR Point ID:** 065														
161107	DIBROMOCHLOROMETHANE	N		UG/L	6	60		Table 1	M	M	M	1.0	0.32	1.1	998310390
161107	DIBROMOMETHANE	N		UG/L					M	M	M	1.0	0.41	1.4	998310390
161107	DICHLORODIFLUOROMETHANE	N		UG/L	200	1000		Table 1	M	M	M	1.0	0.68	2.3	998310390
161107	DICHLOROMETHANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.44	1.5	998310390
161107	DISSOLVED OXYGEN, FIELD BY PROBE		3.0	MG/L											
161107	ETHYLBENZENE	N		UG/L	140	700		Table 1	M	M	M	1.0	0.74	2.5	998310390
161107	FLUOROTRICHLOROMETHANE	N		UG/L	698	3490		Table 1	M	M	M	1.0	0.88	2.9	998310390
161107	GROUNDWATER ELEVATION		860.44	FT MSL											
161107	IRON-DISSOLVED AS FE		4.6	MG/L	0.15	0.3	P*	Table 2	M	M	M	0.030	0.019	0.064	998310390
161107	MANGANESE-DISSOLVED AS MN		108	UG/L	60	300	P	Table 1	M	M	M	2.0	0.40	1.3	998310390
161107	MANGANESE-DISSOLVED AS MN		108	UG/L	25	50	P*	Table 2	M	M	M	2.0	0.40	1.3	998310390
161107	M-DICHLOROBENZENE	N		UG/L	120	600		Table 1	M	M	M	1.0	0.78	2.6	998310390
161107	METHYL ETHYL KETONE (MEK)	N		UG/L	800	4000		Table 1	M	M	M	10	1.3	4.4	998310390
161107	METHYL TERT-BUTYL ETHER (MTBE)	N		UG/L	12	60		Table 1	M	M	M	1.0	0.16	0.53	998310390
161107	NAPHTHALENE	N		UG/L	10	100		Table 1	M	M	M	1.0	0.43	1.4	998310390
161107	NITRITE PLUS NITRATE-DISSOLVED AS N	N		MG/L AS N	2	10		Table 1	M	M	M	0.050	0.020	0.067	998310390
161107	O-DICHLOROBENZENE	N		UG/L	60	600		Table 1	M	M	M	1.0	0.79	2.6	998310390
161107	OXIDATION REDUCTION POTENTIAL		-83	MILLIVOLTS											
161107	P-DICHLOROBENZENE	N		UG/L	15	75		Table 1	M	M	M	1.0	0.84	2.8	998310390
161107	PH-FIELD		7.72	S.U.											
161107	SAMPLE COLOR	N		NONE											
161107	SAMPLE ODOR	N		NONE											
161107	SAMPLE TEMPERATURE		13.5	DEGREES C											
161107	SAMPLE TURBIDITY	N		NONE											
161107	SPECIFIC CONDUCTANCE-FIELD		734	UMHOS/CM											
161107	STYRENE	N		UG/L	10	100		Table 1	M	M	M	1.0	0.73	2.4	998310390
161107	SULFATE-DISSOLVED AS SO4		30.6	MG/L	125	250		Table 2	M	M	M	2.0	0.35	1.2	998310390
161107	TETRACHLOROETHYLENE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.36	1.2	998310390
161107	TETRAHYDROFURAN	N		UG/L	10	50		Table 1	M	M	M	5.0	1.3	4.2	998310390
161107	TOLUENE	N		UG/L	160	800		Table 1	M	M	M	1.0	0.51	1.7	998310390
161107	TRANS-1,2-DICHLOROETHENE (TOTAL)	N		UG/L	20	100		Table 1	M	M	M	1.0	0.90	3.0	998310390
161107	TRANS-1,3-DICHLOROPROPENE	N		UG/L	0.04	0.4		Table 1	M	M	M	1.0	0.37	1.2	998310390
161107	TRIBROMOMETHANE	N		UG/L	0.44	4.4		Table 1	M	M	M	1.0	0.26	0.87	998310390
161107	TRICHLOROETHYLENE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.46	1.5	998310390

Sample Date	Parameter	Qualifier	Value	Units	PAL	ES	Type of Exceedance	Type of Standard	QC 1	QC 2	QC 3	RL	LOD	LOQ	WDNR Lab Cert
Sample Point: P22B	**WDNR Point ID:** 065														
161107	VINYL CHLORIDE		N	UG/L	0.02	0.2		Table 1	M	M	M	0.020	0.004	0.013	998310390
161107	VINYL CHLORIDE		N	UG/L	0.02	0.2		Table 1	M	M	M	1.0	0.90	3.0	998310390
161107	XYLENES-TOTAL		N	UG/L	400	2000		Table 1	M	M	M	2.0	0.66	2.2	998310390
Sample Point: P26B	**WDNR Point ID:** 085														
161107	1,1,1-TRICHLOROETHANE		N	UG/L	40	200		Table 1	M	M	M	1.0	0.82	2.7	998310390
161107	1,1,2,2-TETRACHLOROETHANE		N	UG/L	0.02	0.2		Table 1	M	M	M	1.0	0.21	0.70	998310390
161107	1,1,2-TRICHLOROETHANE		N	UG/L	0.5	5		Table 1	M	M	M	1.0	0.23	0.77	998310390
161107	1,1-DICHLOROETHANE		N	UG/L	85	850		Table 1	M	M	M	1.0	0.38	1.3	998310390
161107	1,1-DICHLOROETHYLENE		N	UG/L	0.7	7		Table 1	M	M	M	1.0	0.29	0.97	998310390
161107	1,2,4-TRICHLOROBENZENE		N	UG/L	14	70		Table 1	M	M	M	1.0	0.41	1.4	998310390
161107	1,2-DIBROMO-3-CHLOROPROPANE		N	UG/L	0.02	0.2		Table 1	M	M	M	1.0	0.39	1.3	998310390
161107	1,2-DIBROMOETHANE (EDB)		N	UG/L	0.005	0.05		Table 1	M	M	M	1.0	0.73	2.4	998310390
161107	1,2-DICHLOROETHANE		N	UG/L	0.5	5		Table 1	M	M	M	1.0	0.21	0.70	998310390
161107	1,2-DICHLOROPROPANE		N	UG/L	0.5	5		Table 1	M	M	M	1.0	0.72	2.4	998310390
161107	2-HEXANONE		N	UG/L					M	M	M	5.0	1.2	4.1	998310390
161107	4-METHYL-2-PENTANONE (MIBK)		N	UG/L	50	500		Table 1	M	M	M	5.0	2.1	7.0	998310390
161107	ACETONE		N	UG/L	1800	9000		Table 1	M	M	M	10	3.0	10	998310390
161107	BENZENE		N	UG/L	0.5	5		Table 1	M	M	M	1.0	0.41	1.4	998310390
161107	BROMODICHLOROMETHANE		N	UG/L	0.06	0.6		Table 1	M	M	M	1.0	0.39	1.3	998310390
161107	BROMOMETHANE		N	UG/L	1	10		Table 1	M	M	M	1.0	0.69	2.3	998310390
161107	CARBON DISULFIDE		N	UG/L	200	1000		Table 1	M	M	M	1.0	0.19	0.63	998310390
161107	CARBON TETRACHLORIDE		N	UG/L	0.5	5		Table 1	M	M	M	1.0	0.27	0.90	998310390
161107	CHLOROBENZENE		N	UG/L	20	100		Table 1	M	M	M	1.0	0.75	2.5	998310390
161107	CHLOROETHANE		N	UG/L	80	400		Table 1	M	M	M	1.0	0.32	1.1	998310390
161107	CHLOROFORM		N	UG/L	0.6	6		Table 1	M	M	M	1.0	0.34	1.1	998310390
161107	CHLOROMETHANE		N	UG/L	3	30		Table 1	M	M	M	1.0	0.35	1.2	998310390
161107	CIS-1,2-DICHLOROETHENE		N	UG/L	7	70		Table 1	M	M	M	1.0	0.81	2.7	998310390
161107	CIS-1,3-DICHLOROPROPENE		N	UG/L	0.04	0.4		Table 1	M	M	M	1.0	0.36	1.2	998310390
161107	DIBROMOCHLOROMETHANE		N	UG/L	6	60		Table 1	M	M	M	1.0	0.32	1.1	998310390
161107	DIBROMOMETHANE		N	UG/L					M	M	M	1.0	0.41	1.4	998310390
161107	DICHLORODIFLUOROMETHANE		N	UG/L	200	1000		Table 1	M	M	M	1.0	0.68	2.3	998310390
161107	DICHLOROMETHANE		N	UG/L	0.5	5		Table 1	M	M	M	1.0	0.44	1.5	998310390
161107	ETHYLBENZENE		N	UG/L	140	700		Table 1	M	M	M	1.0	0.74	2.5	998310390
161107	FLUOROTRICHLOROMETHANE		N	UG/L	698	3490		Table 1	M	M	M	1.0	0.88	2.9	998310390

Sample Date	Parameter	Qualifier	Value	Units	PAL	ES	Type of Exceedance	Type of Standard	QC 1	QC 2	QC 3	RL	LOD	LOQ	WDNR Lab Cert
Sample Point: P26B	**WDNR Point ID:** 085														
161107	M-DICHLOROBENZENE	N		UG/L	120	600		Table 1	M	M	M	1.0	0.78	2.6	998310390
161107	METHYL ETHYL KETONE (MEK)	N		UG/L	800	4000		Table 1	M	M	M	10	1.3	4.4	998310390
161107	METHYL TERT-BUTYL ETHER (MTBE)	N		UG/L	12	60		Table 1	M	M	M	1.0	0.16	0.53	998310390
161107	NAPHTHALENE	N		UG/L	10	100		Table 1	M	M	M	1.0	0.43	1.4	998310390
161107	O-DICHLOROBENZENE	N		UG/L	60	600		Table 1	M	M	M	1.0	0.79	2.6	998310390
161107	P-DICHLOROBENZENE	N		UG/L	15	75		Table 1	M	M	M	1.0	0.84	2.8	998310390
161107	STYRENE	N		UG/L	10	100		Table 1	M	M	M	1.0	0.73	2.4	998310390
161107	TETRACHLOROETHYLENE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.36	1.2	998310390
161107	TETRAHYDROFURAN	N		UG/L	10	50		Table 1	M	M	M	5.0	1.3	4.2	998310390
161107	TOLUENE	N		UG/L	160	800		Table 1	M	M	M	1.0	0.51	1.7	998310390
161107	TRANS-1,2-DICHLOROETHENE (TOTAL)	N		UG/L	20	100		Table 1	M	M	M	1.0	0.90	3.0	998310390
161107	TRANS-1,3-DICHLOROPROPENE	N		UG/L	0.04	0.4		Table 1	M	M	M	1.0	0.37	1.2	998310390
161107	TRIBROMOMETHANE	N		UG/L	0.44	4.4		Table 1	M	M	M	1.0	0.26	0.87	998310390
161107	TRICHLOROETHYLENE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.46	1.5	998310390
161107	VINYL CHLORIDE		0.28	UG/L	0.02	0.2	P*	Table 1	M	M	M	0.020	0.004	0.013	998310390
161107	VINYL CHLORIDE	N		UG/L	0.02	0.2		Table 1	M	M	M	1.0	0.90	3.0	998310390
161107	XYLENES-TOTAL	N		UG/L	400	2000		Table 1	M	M	M	2.0	0.66	2.2	998310390
Sample Point: P32B	**WDNR Point ID:** 150														
161107	1,1,1-TRICHLOROETHANE	N		UG/L	40	200		Table 1	M	M	M	1.0	0.82	2.7	998310390
161107	1,1,2,2-TETRACHLOROETHANE	N		UG/L	0.02	0.2		Table 1	M	M	M	1.0	0.21	0.70	998310390
161107	1,1,2-TRICHLOROETHANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.23	0.77	998310390
161107	1,1-DICHLOROETHANE	N		UG/L	85	850		Table 1	M	M	M	1.0	0.38	1.3	998310390
161107	1,1-DICHLOROETHYLENE	N		UG/L	0.7	7		Table 1	M	M	M	1.0	0.29	0.97	998310390
161107	1,2,4-TRICHLOROBENZENE	N		UG/L	14	70		Table 1	M	M	M	1.0	0.41	1.4	998310390
161107	1,2-DIBROMO-3-CHLOROPROPANE	N		UG/L	0.02	0.2		Table 1	M	M	M	1.0	0.39	1.3	998310390
161107	1,2-DIBROMOETHANE (EDB)	N		UG/L	0.005	0.05		Table 1	M	M	M	1.0	0.73	2.4	998310390
161107	1,2-DICHLOROETHANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.21	0.70	998310390
161107	1,2-DICHLOROPROPANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.72	2.4	998310390
161107	2-HEXANONE	N		UG/L					M	M	M	5.0	1.2	4.1	998310390
161107	4-METHYL-2-PENTANONE (MIBK)	N		UG/L	50	500		Table 1	M	M	M	5.0	2.1	7.0	998310390
161107	ACETONE	N		UG/L	1800	9000		Table 1	M	M	M	10	3.0	10	998310390
161107	ALKALINITY-TOTAL AS CACO3 (FILT)		175	MG/L					M	M	M	20.0	8.0	26.7	998310390
161107	BENZENE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.41	1.4	998310390
161107	BROMODICHLOROMETHANE	N		UG/L	0.06	0.6		Table 1	M	M	M	1.0	0.39	1.3	998310390

Sample Date	Parameter	Qualifier	Value	Units	PAL	ES	Type of Exceedance	Type of Standard	QC 1	QC 2	QC 3	RL	LOD	LOQ	WDNR Lab Cert
Sample Point: P32B	**WDNR Point ID:** 150														
161107	BROMOMETHANE	N		UG/L	1	10		Table 1	M	M	M	1.0	0.69	2.3	998310390
161107	CARBON DISULFIDE	N		UG/L	200	1000		Table 1	M	M	M	1.0	0.19	0.63	998310390
161107	CARBON TETRACHLORIDE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.27	0.90	998310390
161107	CHLOROBENZENE	N		UG/L	20	100		Table 1	M	M	M	1.0	0.75	2.5	998310390
161107	CHLOROETHANE	N		UG/L	80	400		Table 1	M	M	M	1.0	0.32	1.1	998310390
161107	CHLOROFORM	N		UG/L	0.6	6		Table 1	M	M	M	1.0	0.34	1.1	998310390
161107	CHLOROMETHANE	N		UG/L	3	30		Table 1	M	M	M	1.0	0.35	1.2	998310390
161107	CIS-1,2-DICHLOROETHENE	N		UG/L	7	70		Table 1	M	M	M	1.0	0.81	2.7	998310390
161107	CIS-1,3-DICHLOROPROPENE	N		UG/L	0.04	0.4		Table 1	M	M	M	1.0	0.36	1.2	998310390
161107	DIBROMOCHLOROMETHANE	N		UG/L	6	60		Table 1	M	M	M	1.0	0.32	1.1	998310390
161107	DIBROMOMETHANE	N		UG/L					M	M	M	1.0	0.41	1.4	998310390
161107	DICHLORODIFLUOROMETHANE	N		UG/L	200	1000		Table 1	M	M	M	1.0	0.68	2.3	998310390
161107	DICHLOROMETHANE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.44	1.5	998310390
161107	DISSOLVED OXYGEN, FIELD BY PROBE		3.1	MG/L											
161107	ETHYLBENZENE	N		UG/L	140	700		Table 1	M	M	M	1.0	0.74	2.5	998310390
161107	FLUOROTRICHLOROMETHANE	N		UG/L	698	3490		Table 1	M	M	M	1.0	0.88	2.9	998310390
161107	GROUNDWATER ELEVATION		857.19	FT MSL											
161107	IRON-DISSOLVED AS FE	J	0.025	MG/L	0.15	0.3		Table 2	M	M	M	0.030	0.019	0.064	998310390
161107	MANGANESE-DISSOLVED AS MN		112	UG/L	60	300	P	Table 1	M	M	M	2.0	0.40	1.3	998310390
161107	MANGANESE-DISSOLVED AS MN		112	UG/L	25	50	E	Table 2	M	M	M	2.0	0.40	1.3	998310390
161107	M-DICHLOROBENZENE	N		UG/L	120	600		Table 1	M	M	M	1.0	0.78	2.6	998310390
161107	METHYL ETHYL KETONE (MEK)	N		UG/L	800	4000		Table 1	M	M	M	10	1.3	4.4	998310390
161107	METHYL TERT-BUTYL ETHER (MTBE)	N		UG/L	12	60		Table 1	M	M	M	1.0	0.16	0.53	998310390
161107	NAPHTHALENE	N		UG/L	10	100		Table 1	M	M	M	1.0	0.43	1.4	998310390
161107	NITRITE PLUS NITRATE-DISSOLVED AS N		0.17	MG/L AS N	2	10		Table 1	M	M	M	0.050	0.020	0.067	998310390
161107	O-DICHLOROBENZENE	N		UG/L	60	600		Table 1	M	M	M	1.0	0.79	2.6	998310390
161107	OXIDATION REDUCTION POTENTIAL		197	MILLIVOLTS											
161107	P-DICHLOROBENZENE	N		UG/L	15	75		Table 1	M	M	M	1.0	0.84	2.8	998310390
161107	PH-FIELD		7.75	S.U.											
161107	SAMPLE COLOR	N		NONE											
161107	SAMPLE ODOR	N		NONE											
161107	SAMPLE TEMPERATURE		14.3	DEGREES C											
161107	SAMPLE TURBIDITY	N		NONE											
161107	SPECIFIC CONDUCTANCE-FIELD		820	UMHOS/CM											

Sample Date	Parameter	Qualifier	Value	Units	PAL	ES	Type of Exceedance	Type of Standard	QC 1	QC 2	QC 3	RL	LOD	LOQ	WDNR Lab Cert
Sample Point: P32B	**WDNR Point ID:** 150														
161107	STYRENE	N		UG/L	10	100		Table 1	M	M	M	1.0	0.73	2.4	998310390
161107	SULFATE-DISSOLVED AS SO4		23.1	MG/L	125	250		Table 2	M	M	M	2.0	0.35	1.2	998310390
161107	TETRACHLOROETHYLENE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.36	1.2	998310390
161107	TETRAHYDROFURAN	N		UG/L	10	50		Table 1	M	M	M	5.0	1.3	4.2	998310390
161107	TOLUENE	N		UG/L	160	800		Table 1	M	M	M	1.0	0.51	1.7	998310390
161107	TRANS-1,2-DICHLOROETHENE (TOTAL)	N		UG/L	20	100		Table 1	M	M	M	1.0	0.90	3.0	998310390
161107	TRANS-1,3-DICHLOROPROPENE	N		UG/L	0.04	0.4		Table 1	M	M	M	1.0	0.37	1.2	998310390
161107	TRIBROMOMETHANE	N		UG/L	0.44	4.4		Table 1	M	M	M	1.0	0.26	0.87	998310390
161107	TRICHLOROETHYLENE	N		UG/L	0.5	5		Table 1	M	M	M	1.0	0.46	1.5	998310390
161107	VINYL CHLORIDE		0.029	UG/L	0.02	0.2	P	Table 1	F	M	M	0.020	0.004	0.013	998310390
161107	VINYL CHLORIDE	N		UG/L	0.02	0.2		Table 1	M	M	M	1.0	0.90	3.0	998310390
161107	XYLENES-TOTAL	N		UG/L	400	2000		Table 1	M	M	M	2.0	0.66	2.2	998310390

WASTE MANAGEMENT
Closed Sites Management Group
W124N9355 Boundary Road
Menomonee Falls, WI 53051
262 253 8626
262 255 3798 Fax

October 4, 2016

Mr. and Mrs. Scott Harried
2362 County Trunk A
Stoughton, WI 53589

Dear Mr. and Mrs. Harried:

As required by the Unilateral Administrative Order for clean-up of the Hagen Farm Landfill, Waste Management of Wisconsin, Inc. (WMWI) samples your well (PW05) on an annual basis. This letter transmits the analytical data for your water supply well, which was sampled on August 18, 2016. Analytical results for water samples collected from the well are also sent to the United States Environmental Protection Agency (USEPA) and the Wisconsin Department of Natural Resources (WDNR) for review.

A brief review of the recent laboratory results for water samples collected from your well indicates the water quality is typical of groundwater in the area, and does not indicate any affect from the Hagen Farm Landfill.

I would recommend that you contact Ms. Sheila Sullivan from the USEPA if you would like any additional information regarding this correspondence. Ms. Sullivan is USEPA's representative for the Hagen Farm Landfill and provides regulatory oversight at the site. Ms. Sullivan's telephone number is (312) 886-5251.

Thank you for your consideration of this matter.

Sincerely,
Waste Management of Wisconsin, Inc.

Michael L. Peterson

Michael L. Peterson, P.E.
District Manager – Closed Sites Management Group

cc: Sheila Sullivan, USEPA
Gary Edelstein, WDNR

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
^c	CCV Recovery is outside acceptance limits.
J	Reported value was between the limit of detection and the limit of quantitation.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Reported value was between the limit of detection and the limit of quantitation.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Reported value was between the limit of detection and the limit of quantitation.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Waste Management
Project/Site: Hagen Farms - Groundwater

TestAmerica Job ID: 480-104791-1

Job ID: 480-104791-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-104791-1

Comments
No additional comments.

Receipt
The samples were received on 8/19/2016 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.7° C and 3.0° C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-317079 recovered above the upper control limit for Chloromethane, Methylene Chloride and Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: PW02 (480-104791-1), PW03 (480-104791-2), PW04 (480-104791-3), PW05 (480-104791-4), PW09 (480-104791-5) and TB (480-104791-6).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC
Method(s) 300.0: The following sample was diluted to bring the concentration of target analytes within the calibration range: PW03 (480-104791-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6020A: The continuing calibration blank (CCB) for analytical batch 480-317506 contained Total Thallium above the method detection limit. All reported samples, PW02 (480-104791-1), PW03 (480-104791-2), PW04 (480-104791-3), PW05 (480-104791-4), PW09 (480-104791-5), (LCS 480-317092/2-A) and (MB 480-317092/1-A), associated with this CCB were either below the laboratory's standard reporting limit for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: PW05

Date Collected: 08/18/16 10:30
Date Received: 08/19/16 09:00

Lab Sample ID: 480-104791-4

Matrix: Water

Method: 8260C SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Vinyl chloride	ND		0.020	0.013	0.0040	ug/L		08/23/16 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
TBA-d9 (Surr)	*93*		*50 - 150*		*08/23/16 18:01*	*1*
Dibromofluoromethane (Surr)	*95*		*50 - 150*		*08/23/16 18:01*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	2.7	0.82	ug/L		08/22/16 15:41	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.70	0.21	ug/L		08/22/16 15:41	1
1,1,2-Trichloroethane	ND		1.0	0.77	0.23	ug/L		08/22/16 15:41	1
1,1-Dichloroethane	ND		1.0	1.3	0.38	ug/L		08/22/16 15:41	1
1,1-Dichloroethene	ND		1.0	0.97	0.29	ug/L		08/22/16 15:41	1
1,2,4-Trichlorobenzene	ND		1.0	1.4	0.41	ug/L		08/22/16 15:41	1
1,2-Dibromo-3-Chloropropane	ND		1.0	1.3	0.39	ug/L		08/22/16 15:41	1
1,2-Dibromoethane (EDB)	ND		1.0	2.4	0.73	ug/L		08/22/16 15:41	1
1,2-Dichlorobenzene	ND		1.0	2.6	0.79	ug/L		08/22/16 15:41	1
1,2-Dichloroethane	ND		1.0	0.70	0.21	ug/L		08/22/16 15:41	1
1,2-Dichloropropane	ND		1.0	2.4	0.72	ug/L		08/22/16 15:41	1
1,3-Dichlorobenzene	ND		1.0	2.6	0.78	ug/L		08/22/16 15:41	1
1,4-Dichlorobenzene	ND		1.0	2.8	0.84	ug/L		08/22/16 15:41	1
2-Butanone (MEK)	ND		10	4.4	1.3	ug/L		08/22/16 15:41	1
2-Hexanone	ND		5.0	4.1	1.2	ug/L		08/22/16 15:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	7.0	2.1	ug/L		08/22/16 15:41	1
Acetone	ND		10	10	3.0	ug/L		08/22/16 15:41	1
Benzene	ND		1.0	1.4	0.41	ug/L		08/22/16 15:41	1
Bromodichloromethane	ND		1.0	1.3	0.39	ug/L		08/22/16 15:41	1
Bromoform	ND		1.0	0.87	0.26	ug/L		08/22/16 15:41	1
Bromomethane	ND		1.0	2.3	0.69	ug/L		08/22/16 15:41	1
Carbon disulfide	ND		1.0	0.63	0.19	ug/L		08/22/16 15:41	1
Carbon tetrachloride	ND		1.0	0.90	0.27	ug/L		08/22/16 15:41	1
Chlorobenzene	ND		1.0	2.5	0.75	ug/L		08/22/16 15:41	1
Chloroethane	ND		1.0	1.1	0.32	ug/L		08/22/16 15:41	1
Chloroform	ND		1.0	1.1	0.34	ug/L		08/22/16 15:41	1
Chloromethane	ND	^c	1.0	1.2	0.35	ug/L		08/22/16 15:41	1
cis-1,2-Dichloroethene	ND		1.0	2.7	0.81	ug/L		08/22/16 15:41	1
cis-1,3-Dichloropropene	ND		1.0	1.2	0.36	ug/L		08/22/16 15:41	1
Dibromochloromethane	ND		1.0	1.1	0.32	ug/L		08/22/16 15:41	1
Dibromomethane	ND		1.0	1.4	0.41	ug/L		08/22/16 15:41	1
Dichlorodifluoromethane	ND		1.0	2.3	0.68	ug/L		08/22/16 15:41	1
Ethylbenzene	ND		1.0	2.5	0.74	ug/L		08/22/16 15:41	1
Methylene Chloride	ND	^c	1.0	1.5	0.44	ug/L		08/22/16 15:41	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.53	0.16	ug/L		08/22/16 15:41	1
Naphthalene	ND		1.0	1.4	0.43	ug/L		08/22/16 15:41	1
Styrene	ND		1.0	2.4	0.73	ug/L		08/22/16 15:41	1
Tetrachloroethene	ND		1.0	1.2	0.36	ug/L		08/22/16 15:41	1
Tetrahydrofuran	ND		5.0	4.2	1.3	ug/L		08/22/16 15:41	1
Toluene	ND		1.0	1.7	0.51	ug/L		08/22/16 15:41	1
trans-1,2-Dichloroethene	ND		1.0	3.0	0.90	ug/L		08/22/16 15:41	1
trans-1,3-Dichloropropene	ND		1.0	1.2	0.37	ug/L		08/22/16 15:41	1

Client Sample ID: PW05
Date Collected: 08/18/16 10:30
Date Received: 08/19/16 09:00

Lab Sample ID: 480-104791-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Trichloroethene	ND		1.0	1.5	0.46	ug/L		08/22/16 15:41	1
Trichlorofluoromethane	ND		1.0	2.9	0.88	ug/L		08/22/16 15:41	1
Vinyl chloride	ND	^c	1.0	3.0	0.90	ug/L		08/22/16 15:41	1
Xylenes, Total	ND		2.0	2.2	0.66	ug/L		08/22/16 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*08/22/16 15:41*	*1*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*08/22/16 15:41*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*08/22/16 15:41*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Aluminum	ND		80.0	200	60.0	ug/L		08/22/16 23:48	1
Barium	**24.5**		6.0	2.3	0.70	ug/L		08/22/16 23:48	1
Calcium	**69.8**	B	5.0	0.33	0.10	mg/L		08/22/16 23:48	1
Chromium	**1.4**	J	5.0	3.3	1.0	ug/L		08/22/16 23:48	1
Cobalt	ND		6.0	2.1	0.63	ug/L		08/22/16 23:48	1
Copper	**7.4**		25.0	5.3	1.6	ug/L		08/22/16 23:48	1
Iron	**0.12**		0.10	0.064	0.019	mg/L		08/22/16 23:48	1
Magnesium	**38.7**		5.0	0.14	0.043	mg/L		08/22/16 23:48	1
Manganese	**1.6**	B	3.0	1.3	0.40	ug/L		08/22/16 23:48	1
Nickel	ND		4.0	4.2	1.3	ug/L		08/22/16 23:48	1
Potassium	**1.4**		5.0	0.33	0.10	mg/L		08/22/16 23:48	1
Silver	ND		3.0	5.7	1.7	ug/L		08/22/16 23:48	1
Sodium	**2.9**		5.0	1.1	0.32	mg/L		08/22/16 23:48	1
Vanadium	ND		5.0	5.0	1.5	ug/L		08/22/16 23:48	1
Zinc	**32.1**	B	4.0	5.0	1.5	ug/L		08/22/16 23:48	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Antimony	ND		0.50	1.2	0.35	ug/L		08/23/16 08:10	1
Arsenic	ND		2.0	0.90	0.27	ug/L		08/23/16 08:10	1
Beryllium	ND		0.20	0.10	0.030	ug/L		08/23/16 08:10	1
Cadmium	ND		0.20	0.24	0.071	ug/L		08/23/16 08:10	1
Selenium	**0.86**	J	5.0	1.5	0.44	ug/L		08/23/16 08:10	1
Thallium	ND		0.20	0.063	0.019	ug/L		08/23/16 19:01	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Mercury	ND		0.20	0.40	0.12	ug/L		08/22/16 12:32	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Calcium and Magnesium Hardness	**334**		0.50	0.33	0.10	mg/L		08/25/16 13:15	1

General Chemistry

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Chloride	**3.2**		0.50	0.94	0.28	mg/L		08/22/16 11:51	1
Sulfate	**17.9**		2.0	1.2	0.35	mg/L		08/22/16 11:51	1
Alkalinity, Total	**308**		50.0	66.7	20.0	mg/L		08/23/16 12:15	5
Total Cyanide	ND		0.020	0.017	0.0050	mg/L		08/25/16 14:46	1

Client: Waste Management
Project/Site: Hagen Farms - Groundwater

TestAmerica Job ID: 480-104791-1

Client Sample ID: PW05
Date Collected: 08/18/16 10:30
Date Received: 08/19/16 09:00

Lab Sample ID: 480-104791-4
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Ammonia (as N)	0.19	J	0.20	0.33	0.10	mg/L		08/22/16 15:31	1
Total Kjeldahl Nitrogen	ND		0.20	0.50	0.15	mg/L as N		08/23/16 11:48	1
Nitrate Nitrite as N	1.0		0.050	0.067	0.020	mg/L as N		08/22/16 21:27	1
Chemical Oxygen Demand	ND		10.0	16.7	5.0	mg/L		08/22/16 16:53	1
Total Dissolved Solids	318	B	10.0	13.3	4.0	mg/L		08/24/16 06:36	1
Total Suspended Solids	2.0	J B	2.0	6.7	2.0	mg/L		08/23/16 19:54	1
Phosphorus, Total	ND		0.20	0.016	0.0050	mg/L as P		08/24/16 11:15	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Color	No					NONE		08/18/16 11:30	1
Dissolved Oxygen, Field	2.7					mg/L		08/18/16 11:30	1
Field EH/ORP	202.0					millivolts		08/18/16 11:30	1
Odor	No					NONE		08/18/16 11:30	1
pH, Field	8.02					SU		08/18/16 11:30	1
Specific Conductance, Field	598					umhos/cm		08/18/16 11:30	1
Temperature, Field (C)	14.8					Degrees C		08/18/16 11:30	1
Turbidity, Field	No					NONE		08/18/16 11:30	1

WASTE MANAGEMENT
Closed Sites Management Group
W124N9355 Boundary Road
Menomonee Falls, WI 53051
262 253 8626
262 255 3798 Fax

October 4, 2016

Mr. R. Gullickson
1036 Collins Road
Stoughton, WI 53589

Dear Mr. Gullickson:

As required by the Unilateral Administrative Order for clean-up of the Hagen Farm Landfill, Waste Management of Wisconsin, Inc. (WMWI) samples your well (PW04) on an annual basis. This letter transmits the analytical data for your water supply well, which was sampled on August 18, 2016. Analytical results for water samples collected from the well are also sent to the United States Environmental Protection Agency (USEPA) and the Wisconsin Department of Natural Resources (WDNR) for review.

A brief review of the recent laboratory results for water samples collected from your well indicates the water quality is typical of groundwater in the area, and does not indicate any affect from the Hagen Farm Landfill. Nitrate-nitrite was present in the sample at a concentration consistent with previous samples and is generally associated with, or related to, farming activities.

I would recommend that you contact Ms. Sheila Sullivan from the USEPA if you would like any additional information regarding this correspondence. Ms. Sullivan is USEPA's representative for the Hagen Farm Landfill and provides regulatory oversight at the site. Ms. Sullivan's telephone number is (312) 886-5251.

Thank you for your consideration of this matter.

Sincerely,
Waste Management of Wisconsin, Inc.

Michael L. Peterson

Michael L. Peterson, P.E.
District Manager – Closed Sites Management Group

cc: Sheila Sullivan, USEPA
Gary Edelstein, WDNR

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
^c	CCV Recovery is outside acceptance limits.
J	Reported value was between the limit of detection and the limit of quantitation.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Reported value was between the limit of detection and the limit of quantitation.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Reported value was between the limit of detection and the limit of quantitation.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Waste Management
Project/Site: Hagen Farms - Groundwater

TestAmerica Job ID: 480-104791-1

Job ID: 480-104791-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-104791-1

Comments
No additional comments.

Receipt
The samples were received on 8/19/2016 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.7° C and 3.0° C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-317079 recovered above the upper control limit for Chloromethane, Methylene Chloride and Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: PW02 (480-104791-1), PW03 (480-104791-2), PW04 (480-104791-3), PW05 (480-104791-4), PW09 (480-104791-5) and TB (480-104791-6).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC
Method(s) 300.0: The following sample was diluted to bring the concentration of target analytes within the calibration range: PW03 (480-104791-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6020A: The continuing calibration blank (CCB) for analytical batch 480-317506 contained Total Thallium above the method detection limit. All reported samples, PW02 (480-104791-1), PW03 (480-104791-2), PW04 (480-104791-3), PW05 (480-104791-4), PW09 (480-104791-5), (LCS 480-317092/2-A) and (MB 480-317092/1-A), associated with this CCB were either below the laboratory's standard reporting limit for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Waste Management
Project/Site: Hagen Farms - Groundwater

TestAmerica Job ID: 480-104791-1

Client Sample ID: PW04
Date Collected: 08/18/16 12:10
Date Received: 08/19/16 09:00

Lab Sample ID: 480-104791-3
Matrix: Water

Method: 8260C SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Vinyl chloride	ND		0.020	0.013	0.0040	ug/L		08/19/16 21:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
TBA-d9 (Surr)	*83*		*50 - 150*		*08/19/16 21:00*	*1*
Dibromofluoromethane (Surr)	*98*		*50 - 150*		*08/19/16 21:00*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	2.7	0.82	ug/L		08/22/16 15:14	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.70	0.21	ug/L		08/22/16 15:14	1
1,1,2-Trichloroethane	ND		1.0	0.77	0.23	ug/L		08/22/16 15:14	1
1,1-Dichloroethane	ND		1.0	1.3	0.38	ug/L		08/22/16 15:14	1
1,1-Dichloroethene	ND		1.0	0.97	0.29	ug/L		08/22/16 15:14	1
1,2,4-Trichlorobenzene	ND		1.0	1.4	0.41	ug/L		08/22/16 15:14	1
1,2-Dibromo-3-Chloropropane	ND		1.0	1.3	0.39	ug/L		08/22/16 15:14	1
1,2-Dibromoethane (EDB)	ND		1.0	2.4	0.73	ug/L		08/22/16 15:14	1
1,2-Dichlorobenzene	ND		1.0	2.6	0.79	ug/L		08/22/16 15:14	1
1,2-Dichloroethane	ND		1.0	0.70	0.21	ug/L		08/22/16 15:14	1
1,2-Dichloropropane	ND		1.0	2.4	0.72	ug/L		08/22/16 15:14	1
1,3-Dichlorobenzene	ND		1.0	2.6	0.78	ug/L		08/22/16 15:14	1
1,4-Dichlorobenzene	ND		1.0	2.8	0.84	ug/L		08/22/16 15:14	1
2-Butanone (MEK)	ND		10	4.4	1.3	ug/L		08/22/16 15:14	1
2-Hexanone	ND		5.0	4.1	1.2	ug/L		08/22/16 15:14	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	7.0	2.1	ug/L		08/22/16 15:14	1
Acetone	ND		10	10	3.0	ug/L		08/22/16 15:14	1
Benzene	ND		1.0	1.4	0.41	ug/L		08/22/16 15:14	1
Bromodichloromethane	ND		1.0	1.3	0.39	ug/L		08/22/16 15:14	1
Bromoform	ND		1.0	0.87	0.26	ug/L		08/22/16 15:14	1
Bromomethane	ND		1.0	2.3	0.69	ug/L		08/22/16 15:14	1
Carbon disulfide	ND		1.0	0.63	0.19	ug/L		08/22/16 15:14	1
Carbon tetrachloride	ND		1.0	0.90	0.27	ug/L		08/22/16 15:14	1
Chlorobenzene	ND		1.0	2.5	0.75	ug/L		08/22/16 15:14	1
Chloroethane	ND		1.0	1.1	0.32	ug/L		08/22/16 15:14	1
Chloroform	ND		1.0	1.1	0.34	ug/L		08/22/16 15:14	1
Chloromethane	ND	^c	1.0	1.2	0.35	ug/L		08/22/16 15:14	1
cis-1,2-Dichloroethene	ND		1.0	2.7	0.81	ug/L		08/22/16 15:14	1
cis-1,3-Dichloropropene	ND		1.0	1.2	0.36	ug/L		08/22/16 15:14	1
Dibromochloromethane	ND		1.0	1.1	0.32	ug/L		08/22/16 15:14	1
Dibromomethane	ND		1.0	1.4	0.41	ug/L		08/22/16 15:14	1
Dichlorodifluoromethane	ND		1.0	2.3	0.68	ug/L		08/22/16 15:14	1
Ethylbenzene	ND		1.0	2.5	0.74	ug/L		08/22/16 15:14	1
Methylene Chloride	ND	^c	1.0	1.5	0.44	ug/L		08/22/16 15:14	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.53	0.16	ug/L		08/22/16 15:14	1
Naphthalene	ND		1.0	1.4	0.43	ug/L		08/22/16 15:14	1
Styrene	ND		1.0	2.4	0.73	ug/L		08/22/16 15:14	1
Tetrachloroethene	ND		1.0	1.2	0.36	ug/L		08/22/16 15:14	1
Tetrahydrofuran	ND		5.0	4.2	1.3	ug/L		08/22/16 15:14	1
Toluene	ND		1.0	1.7	0.51	ug/L		08/22/16 15:14	1
trans-1,2-Dichloroethene	ND		1.0	3.0	0.90	ug/L		08/22/16 15:14	1
trans-1,3-Dichloropropene	ND		1.0	1.2	0.37	ug/L		08/22/16 15:14	1

Client Sample ID: PW04

Lab Sample ID: 480-104791-3
Matrix: Water

Date Collected: 08/18/16 12:10
Date Received: 08/19/16 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Trichloroethene	ND		1.0	1.5	0.46	ug/L		08/22/16 15:14	1
Trichlorofluoromethane	ND		1.0	2.9	0.88	ug/L		08/22/16 15:14	1
Vinyl chloride	ND	^c	1.0	3.0	0.90	ug/L		08/22/16 15:14	1
Xylenes, Total	ND		2.0	2.2	0.66	ug/L		08/22/16 15:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*08/22/16 15:14*	*1*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*08/22/16 15:14*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*08/22/16 15:14*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Aluminum	ND		80.0	200	60.0	ug/L		08/22/16 23:45	1
Barium	**34.5**		6.0	2.3	0.70	ug/L		08/22/16 23:45	1
Calcium	**87.5**	B	5.0	0.33	0.10	mg/L		08/22/16 23:45	1
Chromium	**1.3**	J	5.0	3.3	1.0	ug/L		08/22/16 23:45	1
Cobalt	ND		6.0	2.1	0.63	ug/L		08/22/16 23:45	1
Copper	**26.0**		25.0	5.3	1.6	ug/L		08/22/16 23:45	1
Iron	**0.11**		0.10	0.064	0.019	mg/L		08/22/16 23:45	1
Magnesium	**46.2**		5.0	0.14	0.043	mg/L		08/22/16 23:45	1
Manganese	**2.7**	B	3.0	1.3	0.40	ug/L		08/22/16 23:45	1
Nickel	ND		4.0	4.2	1.3	ug/L		08/22/16 23:45	1
Potassium	**1.1**		5.0	0.33	0.10	mg/L		08/22/16 23:45	1
Silver	ND		3.0	5.7	1.7	ug/L		08/22/16 23:45	1
Sodium	**7.8**		5.0	1.1	0.32	mg/L		08/22/16 23:45	1
Vanadium	ND		5.0	5.0	1.5	ug/L		08/22/16 23:45	1
Zinc	**548**	B	4.0	5.0	1.5	ug/L		08/22/16 23:45	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Antimony	ND		0.50	1.2	0.35	ug/L		08/23/16 08:04	1
Arsenic	**0.28**	J	2.0	0.90	0.27	ug/L		08/23/16 08:04	1
Beryllium	ND		0.20	0.10	0.030	ug/L		08/23/16 08:04	1
Cadmium	ND		0.20	0.24	0.071	ug/L		08/23/16 08:04	1
Selenium	**0.64**	J	5.0	1.5	0.44	ug/L		08/23/16 08:04	1
Thallium	**0.075**		0.20	0.063	0.019	ug/L		08/23/16 18:43	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Mercury	ND		0.20	0.40	0.12	ug/L		08/22/16 12:31	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Calcium and Magnesium Hardness	409		0.50	0.33	0.10	mg/L		08/25/16 13:15	1

General Chemistry

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Chloride	**22.4**		0.50	0.94	0.28	mg/L		08/22/16 11:43	1
Sulfate	**24.7**		2.0	1.2	0.35	mg/L		08/22/16 11:43	1
Alkalinity, Total	**326**		50.0	66.7	20.0	mg/L		08/23/16 12:15	5
Total Cyanide	ND		0.020	0.017	0.0050	mg/L		08/25/16 14:41	1

Client Sample ID: PW04
Date Collected: 08/18/16 12:10
Date Received: 08/19/16 09:00

Lab Sample ID: 480-104791-3
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Ammonia (as N)	ND		0.20	0.33	0.10	mg/L		08/22/16 15:30	1
Total Kjeldahl Nitrogen	ND		0.20	0.50	0.15	mg/L as N		08/25/16 11:43	1
Nitrate Nitrite as N	**10.6**		0.50	0.67	0.20	mg/L as N		08/22/16 21:25	10
Chemical Oxygen Demand	**6.7**	**J**	10.0	16.7	5.0	mg/L		08/22/16 16:53	1
Total Dissolved Solids	**449**	**B**	10.0	13.3	4.0	mg/L		08/24/16 06:36	1
Total Suspended Solids	ND		2.0	6.7	2.0	mg/L		08/23/16 19:54	1
Phosphorus, Total	ND		0.20	0.016	0.0050	mg/L as P		08/24/16 11:15	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Color	**No**					NONE		08/18/16 13:10	1
Dissolved Oxygen, Field	**3.1**					mg/L		08/18/16 13:10	1
Field EH/ORP	**207.0**					millivolts		08/18/16 13:10	1
Odor	**No**					NONE		08/18/16 13:10	1
pH, Field	**7.48**					SU		08/18/16 13:10	1
Specific Conductance, Field	**766**					umhos/cm		08/18/16 13:10	1
Temperature, Field (C)	**17.5**					Degrees C		08/18/16 13:10	1
Turbidity, Field	**No**					NONE		08/18/16 13:10	1

WASTE MANAGEMENT
Closed Sites Management Group
W124N9355 Boundary Road
Menomonee Falls, WI 53051
262 253 8626
262 255 3798 Fax

October 4, 2016

Mr. Greg Sundby
Safety and Health Manager
Wingra Redi-Mix, Inc.
P.O. Box 44284
Madison, WI 53744-4284

Dear Mr. Sundby:

As required by the Unilateral Administrative Order for clean-up of the Hagen Farm Landfill, Waste Management of Wisconsin, Inc. (WMWI) samples the well (PW03) at the above referenced facility on an annual basis. This letter transmits the analytical data for that water supply well, which was sampled on August 18, 2016. Analytical results for water samples collected from the well are also sent to the United States Environmental Protection Agency (USEPA) and the Wisconsin Department of Natural Resources (WDNR) for review.

A brief review of the recent laboratory results for water samples collected from that well indicates the water quality is typical of groundwater in the area, and does not indicate any adverse effect from the Hagen Farm Landfill. Iron and manganese are present in the sample and groundwater throughout this area at concentrations consistent with historical data. Chloride was again reported in the sample at a concentration slightly greater than the state of Wisconsin groundwater criteria. The presence of these elements at the identified concentrations may cause staining and taste concerns.

I would recommend that you contact Ms. Sheila Sullivan from the USEPA if you would like any additional information regarding this correspondence. Ms. Sullivan is USEPA's representative for the Hagen Farm Landfill and provides regulatory oversight at the site. Ms. Sullivan's telephone number is (312) 886-5251.

Thank you for your consideration of this matter.

Sincerely,
Waste Management of Wisconsin, Inc.

Michael L. Peterson

Michael L. Peterson, P.E.
District Manager – Closed Sites Management Group

cc: Sheila Sullivan, USEPA
Gary Edelstein, WDNR

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
^c	CCV Recovery is outside acceptance limits.
J	Reported value was between the limit of detection and the limit of quantitation.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Reported value was between the limit of detection and the limit of quantitation.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Reported value was between the limit of detection and the limit of quantitation.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Waste Management
Project/Site: Hagen Farms - Groundwater

TestAmerica Job ID: 480-104791-1

Job ID: 480-104791-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-104791-1

Comments
No additional comments.

Receipt
The samples were received on 8/19/2016 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.7° C and 3.0° C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-317079 recovered above the upper control limit for Chloromethane, Methylene Chloride and Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: PW02 (480-104791-1), PW03 (480-104791-2), PW04 (480-104791-3), PW05 (480-104791-4), PW09 (480-104791-5) and TB (480-104791-6).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC
Method(s) 300.0: The following sample was diluted to bring the concentration of target analytes within the calibration range: PW03 (480-104791-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6020A: The continuing calibration blank (CCB) for analytical batch 480-317506 contained Total Thallium above the method detection limit. All reported samples, PW02 (480-104791-1), PW03 (480-104791-2), PW04 (480-104791-3), PW05 (480-104791-4), PW09 (480-104791-5), (LCS 480-317092/2-A) and (MB 480-317092/1-A), associated with this CCB were either below the laboratory's standard reporting limit for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: PW03

Date Collected: 08/18/16 11:15
Date Received: 08/19/16 09:00

Lab Sample ID: 480-104791-2

Matrix: Water

Method: 8260C SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Vinyl chloride	ND		0.020	0.013	0.0040	ug/L		08/19/16 20:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
TBA-d9 (Surr)	*82*		*50 - 150*		*08/19/16 20:35*	*1*
Dibromofluoromethane (Surr)	*99*		*50 - 150*		*08/19/16 20:35*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	2.7	0.82	ug/L		08/22/16 14:47	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.70	0.21	ug/L		08/22/16 14:47	1
1,1,2-Trichloroethane	ND		1.0	0.77	0.23	ug/L		08/22/16 14:47	1
1,1-Dichloroethane	ND		1.0	1.3	0.38	ug/L		08/22/16 14:47	1
1,1-Dichloroethene	ND		1.0	0.97	0.29	ug/L		08/22/16 14:47	1
1,2,4-Trichlorobenzene	ND		1.0	1.4	0.41	ug/L		08/22/16 14:47	1
1,2-Dibromo-3-Chloropropane	ND		1.0	1.3	0.39	ug/L		08/22/16 14:47	1
1,2-Dibromoethane (EDB)	ND		1.0	2.4	0.73	ug/L		08/22/16 14:47	1
1,2-Dichlorobenzene	ND		1.0	2.6	0.79	ug/L		08/22/16 14:47	1
1,2-Dichloroethane	ND		1.0	0.70	0.21	ug/L		08/22/16 14:47	1
1,2-Dichloropropane	ND		1.0	2.4	0.72	ug/L		08/22/16 14:47	1
1,3-Dichlorobenzene	ND		1.0	2.6	0.78	ug/L		08/22/16 14:47	1
1,4-Dichlorobenzene	ND		1.0	2.8	0.84	ug/L		08/22/16 14:47	1
2-Butanone (MEK)	ND		10	4.4	1.3	ug/L		08/22/16 14:47	1
2-Hexanone	ND		5.0	4.1	1.2	ug/L		08/22/16 14:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	7.0	2.1	ug/L		08/22/16 14:47	1
Acetone	ND		10	10	3.0	ug/L		08/22/16 14:47	1
Benzene	ND		1.0	1.4	0.41	ug/L		08/22/16 14:47	1
Bromodichloromethane	ND		1.0	1.3	0.39	ug/L		08/22/16 14:47	1
Bromoform	ND		1.0	0.87	0.26	ug/L		08/22/16 14:47	1
Bromomethane	ND		1.0	2.3	0.69	ug/L		08/22/16 14:47	1
Carbon disulfide	ND		1.0	0.63	0.19	ug/L		08/22/16 14:47	1
Carbon tetrachloride	ND		1.0	0.90	0.27	ug/L		08/22/16 14:47	1
Chlorobenzene	ND		1.0	2.5	0.75	ug/L		08/22/16 14:47	1
Chloroethane	ND		1.0	1.1	0.32	ug/L		08/22/16 14:47	1
Chloroform	ND		1.0	1.1	0.34	ug/L		08/22/16 14:47	1
Chloromethane	ND	^c	1.0	1.2	0.35	ug/L		08/22/16 14:47	1
cis-1,2-Dichloroethene	ND		1.0	2.7	0.81	ug/L		08/22/16 14:47	1
cis-1,3-Dichloropropene	ND		1.0	1.2	0.36	ug/L		08/22/16 14:47	1
Dibromochloromethane	ND		1.0	1.1	0.32	ug/L		08/22/16 14:47	1
Dibromomethane	ND		1.0	1.4	0.41	ug/L		08/22/16 14:47	1
Dichlorodifluoromethane	ND		1.0	2.3	0.68	ug/L		08/22/16 14:47	1
Ethylbenzene	ND		1.0	2.5	0.74	ug/L		08/22/16 14:47	1
Methylene Chloride	ND	^c	1.0	1.5	0.44	ug/L		08/22/16 14:47	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.53	0.16	ug/L		08/22/16 14:47	1
Naphthalene	ND		1.0	1.4	0.43	ug/L		08/22/16 14:47	1
Styrene	ND		1.0	2.4	0.73	ug/L		08/22/16 14:47	1
Tetrachloroethene	ND		1.0	1.2	0.36	ug/L		08/22/16 14:47	1
Tetrahydrofuran	ND		5.0	4.2	1.3	ug/L		08/22/16 14:47	1
Toluene	ND		1.0	1.7	0.51	ug/L		08/22/16 14:47	1
trans-1,2-Dichloroethene	ND		1.0	3.0	0.90	ug/L		08/22/16 14:47	1
trans-1,3-Dichloropropene	ND		1.0	1.2	0.37	ug/L		08/22/16 14:47	1

Client Sample ID: PW03

Date Collected: 08/18/16 11:15
Date Received: 08/19/16 09:00

Lab Sample ID: 480-104791-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Trichloroethene	ND		1.0	1.5	0.46	ug/L		08/22/16 14:47	1
Trichlorofluoromethane	ND		1.0	2.9	0.88	ug/L		08/22/16 14:47	1
Vinyl chloride	ND	^c	1.0	3.0	0.90	ug/L		08/22/16 14:47	1
Xylenes, Total	ND		2.0	2.2	0.66	ug/L		08/22/16 14:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*08/22/16 14:47*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*08/22/16 14:47*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*08/22/16 14:47*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Aluminum	ND		80.0	200	60.0	ug/L		08/22/16 23:42	1
Barium	**48.1**		6.0	2.3	0.70	ug/L		08/22/16 23:42	1
Calcium	**100**	**B**	5.0	0.33	0.10	mg/L		08/22/16 23:42	1
Chromium	ND		5.0	3.3	1.0	ug/L		08/22/16 23:42	1
Cobalt	ND		6.0	2.1	0.63	ug/L		08/22/16 23:42	1
Copper	ND		25.0	5.3	1.6	ug/L		08/22/16 23:42	1
Iron	**0.79**		0.10	0.064	0.019	mg/L		08/22/16 23:42	1
Magnesium	**45.7**		5.0	0.14	0.043	mg/L		08/22/16 23:42	1
Manganese	**147**	**B**	3.0	1.3	0.40	ug/L		08/22/16 23:42	1
Nickel	**1.6**	**J**	4.0	4.2	1.3	ug/L		08/22/16 23:42	1
Potassium	**2.0**		5.0	0.33	0.10	mg/L		08/22/16 23:42	1
Silver	ND		3.0	5.7	1.7	ug/L		08/22/16 23:42	1
Sodium	**64.4**		5.0	1.1	0.32	mg/L		08/22/16 23:42	1
Vanadium	ND		5.0	5.0	1.5	ug/L		08/22/16 23:42	1
Zinc	**248**	**B**	4.0	5.0	1.5	ug/L		08/22/16 23:42	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Antimony	ND		0.50	1.2	0.35	ug/L		08/23/16 07:59	1
Arsenic	ND		2.0	0.90	0.27	ug/L		08/23/16 07:59	1
Beryllium	ND		0.20	0.10	0.030	ug/L		08/23/16 07:59	1
Cadmium	ND		0.20	0.24	0.071	ug/L		08/23/16 07:59	1
Selenium	ND		5.0	1.5	0.44	ug/L		08/23/16 07:59	1
Thallium	**0.092**		0.20	0.063	0.019	ug/L		08/23/16 18:38	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Mercury	ND		0.20	0.40	0.12	ug/L		08/22/16 12:29	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Calcium and Magnesium Hardness	**439**		0.50	0.33	0.10	mg/L		08/25/16 13:15	1

General Chemistry

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Chloride	**142**		1.0	1.9	0.56	mg/L		08/22/16 10:46	2
Sulfate	**13.1**		4.0	2.3	0.70	mg/L		08/22/16 10:46	2
Alkalinity, Total	**355**		50.0	66.7	20.0	mg/L		08/23/16 12:13	5
Total Cyanide	ND		0.020	0.017	0.0050	mg/L		08/25/16 14:24	1

Client: Waste Management
Project/Site: Hagen Farms - Groundwater

TestAmerica Job ID: 480-104791-1

Client Sample ID: PW03
Date Collected: 08/18/16 11:15
Date Received: 08/19/16 09:00

Lab Sample ID: 480-104791-2
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Ammonia (as N)	**0.16**	J	0.20	0.33	0.10	mg/L		08/22/16 15:19	1
Total Kjeldahl Nitrogen	ND		0.20	0.50	0.15	mg/L as N		08/23/16 11:48	1
Nitrate Nitrite as N	**0.083**		0.050	0.067	0.020	mg/L as N		08/22/16 21:21	1
Chemical Oxygen Demand	ND		10.0	16.7	5.0	mg/L		08/22/16 16:53	1
Total Dissolved Solids	**619**	B	10.0	13.3	4.0	mg/L		08/24/16 06:36	1
Total Suspended Solids	ND		2.0	6.7	2.0	mg/L		08/23/16 19:54	1
Phosphorus, Total	**0.0077**	J	0.20	0.016	0.0050	mg/L as P		08/25/16 11:06	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Color	**No**					NONE		08/18/16 12:15	1
Dissolved Oxygen, Field	**3.9**					mg/L		08/18/16 12:15	1
Field EH/ORP	**201.0**					millivolts		08/18/16 12:15	1
Odor	**No**					NONE		08/18/16 12:15	1
pH, Field	**7.56**					SU		08/18/16 12:15	1
Specific Conductance, Field	**1104**					umhos/cm		08/18/16 12:15	1
Temperature, Field (C)	**17.2**					Degrees C		08/18/16 12:15	1
Turbidity, Field	**No**					NONE		08/18/16 12:15	1

WASTE MANAGEMENT

October 4, 2016

WASTE MANAGEMENT
Closed Sites Management Group
W124N9355 Boundary Road
Menomonee Falls, WI 53051
262 253 8626
262 255 3798 Fax

Mr. Dale Alme
FoamTech Insulation
2259 County Trunk A
Stoughton, WI 53589

Dear Mr. Alme:

As required by the Unilateral Administrative Order for clean-up of the Hagen Farm Landfill, Waste Management of Wisconsin, Inc. (WMWI) samples the well (PW02) at the above referenced facility on an annual basis. This letter transmits the analytical data for that water supply well, which was sampled on August 18, 2016. Analytical results for water samples collected from the well are also sent to the United States Environmental Protection Agency (USEPA) and the Wisconsin Department of Natural Resources (WDNR) for review.

A brief review of the recent laboratory results for water samples collected from that well indicates the water quality is typical of groundwater in the area, and does not indicate any affect from the Hagen Farm Landfill. Nitrate-nitrite was present in the sample at a concentration consistent with previous samples and is generally associated with, or related to, farming activities.

I would recommend that you contact Ms. Sheila Sullivan from the USEPA if you would like any additional information regarding this correspondence. Ms. Sullivan is USEPA's representative for the Hagen Farm Landfill and provides regulatory oversight at the site. Ms. Sullivan's telephone number is (312) 886-5251.

Thank you for your consideration of this matter.

Sincerely,
Waste Management of Wisconsin, Inc.

Michael L. Peterson

Michael L. Peterson, P.E.
District Manager – Closed Sites

cc: Sheila Sullivan, USEPA
Gary Edelstein, WDNR

Definitions/Glossary

Client: Waste Management
Project/Site: Hagen Farms - Groundwater

TestAmerica Job ID: 480-104791-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
^c	CCV Recovery is outside acceptance limits.
J	Reported value was between the limit of detection and the limit of quantitation.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Reported value was between the limit of detection and the limit of quantitation.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Reported value was between the limit of detection and the limit of quantitation.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Waste Management
Project/Site: Hagen Farms - Groundwater

TestAmerica Job ID: 480-104791-1

Job ID: 480-104791-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-104791-1

Comments
No additional comments.

Receipt
The samples were received on 8/19/2016 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.7° C and 3.0° C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-317079 recovered above the upper control limit for Chloromethane, Methylene Chloride and Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: PW02 (480-104791-1), PW03 (480-104791-2), PW04 (480-104791-3), PW05 (480-104791-4), PW09 (480-104791-5) and TB (480-104791-6).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC
Method(s) 300.0: The following sample was diluted to bring the concentration of target analytes within the calibration range: PW03 (480-104791-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6020A: The continuing calibration blank (CCB) for analytical batch 480-317506 contained Total Thallium above the method detection limit. All reported samples, PW02 (480-104791-1), PW03 (480-104791-2), PW04 (480-104791-3), PW05 (480-104791-4), PW09 (480-104791-5), (LCS 480-317092/2-A) and (MB 480-317092/1-A), associated with this CCB were either below the laboratory's standard reporting limit for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: PW02

Date Collected: 08/18/16 10:35
Date Received: 08/19/16 09:00

Lab Sample ID: 480-104791-1

Matrix: Water

Method: 8260C SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Vinyl chloride	ND		0.020	0.013	0.0040	ug/L		08/19/16 20:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
TBA-d9 (Surr)	*85*		*50 - 150*		*08/19/16 20:11*	*1*
Dibromofluoromethane (Surr)	*96*		*50 - 150*		*08/19/16 20:11*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	2.7	0.82	ug/L		08/22/16 14:20	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.70	0.21	ug/L		08/22/16 14:20	1
1,1,2-Trichloroethane	ND		1.0	0.77	0.23	ug/L		08/22/16 14:20	1
1,1-Dichloroethane	ND		1.0	1.3	0.38	ug/L		08/22/16 14:20	1
1,1-Dichloroethene	ND		1.0	0.97	0.29	ug/L		08/22/16 14:20	1
1,2,4-Trichlorobenzene	ND		1.0	1.4	0.41	ug/L		08/22/16 14:20	1
1,2-Dibromo-3-Chloropropane	ND		1.0	1.3	0.39	ug/L		08/22/16 14:20	1
1,2-Dibromoethane (EDB)	ND		1.0	2.4	0.73	ug/L		08/22/16 14:20	1
1,2-Dichlorobenzene	ND		1.0	2.6	0.79	ug/L		08/22/16 14:20	1
1,2-Dichloroethane	ND		1.0	0.70	0.21	ug/L		08/22/16 14:20	1
1,2-Dichloropropane	ND		1.0	2.4	0.72	ug/L		08/22/16 14:20	1
1,3-Dichlorobenzene	ND		1.0	2.6	0.78	ug/L		08/22/16 14:20	1
1,4-Dichlorobenzene	ND		1.0	2.8	0.84	ug/L		08/22/16 14:20	1
2-Butanone (MEK)	ND		10	4.4	1.3	ug/L		08/22/16 14:20	1
2-Hexanone	ND		5.0	4.1	1.2	ug/L		08/22/16 14:20	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	7.0	2.1	ug/L		08/22/16 14:20	1
Acetone	ND		10	10	3.0	ug/L		08/22/16 14:20	1
Benzene	ND		1.0	1.4	0.41	ug/L		08/22/16 14:20	1
Bromodichloromethane	ND		1.0	1.3	0.39	ug/L		08/22/16 14:20	1
Bromoform	ND		1.0	0.87	0.26	ug/L		08/22/16 14:20	1
Bromomethane	ND		1.0	2.3	0.69	ug/L		08/22/16 14:20	1
Carbon disulfide	ND		1.0	0.63	0.19	ug/L		08/22/16 14:20	1
Carbon tetrachloride	ND		1.0	0.90	0.27	ug/L		08/22/16 14:20	1
Chlorobenzene	ND		1.0	2.5	0.75	ug/L		08/22/16 14:20	1
Chloroethane	ND		1.0	1.1	0.32	ug/L		08/22/16 14:20	1
Chloroform	ND		1.0	1.1	0.34	ug/L		08/22/16 14:20	1
Chloromethane	ND	^c	1.0	1.2	0.35	ug/L		08/22/16 14:20	1
cis-1,2-Dichloroethene	ND		1.0	2.7	0.81	ug/L		08/22/16 14:20	1
cis-1,3-Dichloropropene	ND		1.0	1.2	0.36	ug/L		08/22/16 14:20	1
Dibromochloromethane	ND		1.0	1.1	0.32	ug/L		08/22/16 14:20	1
Dibromomethane	ND		1.0	1.4	0.41	ug/L		08/22/16 14:20	1
Dichlorodifluoromethane	ND		1.0	2.3	0.68	ug/L		08/22/16 14:20	1
Ethylbenzene	ND		1.0	2.5	0.74	ug/L		08/22/16 14:20	1
Methylene Chloride	ND	^c	1.0	1.5	0.44	ug/L		08/22/16 14:20	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.53	0.16	ug/L		08/22/16 14:20	1
Naphthalene	ND		1.0	1.4	0.43	ug/L		08/22/16 14:20	1
Styrene	ND		1.0	2.4	0.73	ug/L		08/22/16 14:20	1
Tetrachloroethene	ND		1.0	1.2	0.36	ug/L		08/22/16 14:20	1
Tetrahydrofuran	ND		5.0	4.2	1.3	ug/L		08/22/16 14:20	1
Toluene	ND		1.0	1.7	0.51	ug/L		08/22/16 14:20	1
trans-1,2-Dichloroethene	ND		1.0	3.0	0.90	ug/L		08/22/16 14:20	1
trans-1,3-Dichloropropene	ND		1.0	1.2	0.37	ug/L		08/22/16 14:20	1

Client Sample ID: PW02

Date Collected: 08/18/16 10:35
Date Received: 08/19/16 09:00

Lab Sample ID: 480-104791-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Trichloroethene	ND		1.0	1.5	0.46	ug/L		08/22/16 14:20	1
Trichlorofluoromethane	ND		1.0	2.9	0.88	ug/L		08/22/16 14:20	1
Vinyl chloride	ND	^c	1.0	3.0	0.90	ug/L		08/22/16 14:20	1
Xylenes, Total	ND		2.0	2.2	0.66	ug/L		08/22/16 14:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*08/22/16 14:20*	*1*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*08/22/16 14:20*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*08/22/16 14:20*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Aluminum	ND		80.0	200	60.0	ug/L		08/22/16 23:38	1
Barium	**43.7**		6.0	2.3	0.70	ug/L		08/22/16 23:38	1
Calcium	**90.1**	**B**	5.0	0.33	0.10	mg/L		08/22/16 23:38	1
Chromium	**1.4**	**J**	5.0	3.3	1.0	ug/L		08/22/16 23:38	1
Cobalt	ND		6.0	2.1	0.63	ug/L		08/22/16 23:38	1
Copper	**29.6**		25.0	5.3	1.6	ug/L		08/22/16 23:38	1
Iron	**0.068**		0.10	0.064	0.019	mg/L		08/22/16 23:38	1
Magnesium	**46.6**		5.0	0.14	0.043	mg/L		08/22/16 23:38	1
Manganese	**1.3**	**B**	3.0	1.3	0.40	ug/L		08/22/16 23:38	1
Nickel	ND		4.0	4.2	1.3	ug/L		08/22/16 23:38	1
Potassium	**0.89**		5.0	0.33	0.10	mg/L		08/22/16 23:38	1
Silver	ND		3.0	5.7	1.7	ug/L		08/22/16 23:38	1
Sodium	**7.4**		5.0	1.1	0.32	mg/L		08/22/16 23:38	1
Vanadium	ND		5.0	5.0	1.5	ug/L		08/22/16 23:38	1
Zinc	**160**	**B**	4.0	5.0	1.5	ug/L		08/22/16 23:38	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Antimony	ND		0.50	1.2	0.35	ug/L		08/23/16 07:53	1
Arsenic	**0.27**	**J**	2.0	0.90	0.27	ug/L		08/23/16 07:53	1
Beryllium	ND		0.20	0.10	0.030	ug/L		08/23/16 07:53	1
Cadmium	ND		0.20	0.24	0.071	ug/L		08/23/16 07:53	1
Selenium	**0.69**	**J**	5.0	1.5	0.44	ug/L		08/23/16 07:53	1
Thallium	ND		0.20	0.063	0.019	ug/L		08/23/16 18:32	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Mercury	ND		0.20	0.40	0.12	ug/L		08/22/16 12:18	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Calcium and Magnesium Hardness	**417**		0.50	0.33	0.10	mg/L		08/25/16 13:15	1

General Chemistry

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Chloride	**20.5**		0.50	0.94	0.28	mg/L		08/22/16 10:38	1
Sulfate	**22.5**		2.0	1.2	0.35	mg/L		08/22/16 10:38	1
Alkalinity, Total	**323**		50.0	66.7	20.0	mg/L		08/23/16 12:13	5
Total Cyanide	ND	F1	0.020	0.017	0.0050	mg/L		08/25/16 14:21	1

Client: Waste Management
Project/Site: Hagen Farms - Groundwater

TestAmerica Job ID: 480-104791-1

Client Sample ID: PW02
Date Collected: 08/18/16 10:35
Date Received: 08/19/16 09:00

Lab Sample ID: 480-104791-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Ammonia (as N)	ND		0.20	0.33	0.10	mg/L		08/22/16 15:21	1
Total Kjeldahl Nitrogen	ND		0.20	0.50	0.15	mg/L as N		08/23/16 11:48	1
Nitrate Nitrite as N	**12.4**		0.50	0.67	0.20	mg/L as N		08/22/16 21:20	10
Chemical Oxygen Demand	ND		10.0	16.7	5.0	mg/L		08/22/16 16:53	1
Total Dissolved Solids	**433**	B	10.0	13.3	4.0	mg/L		08/24/16 06:36	1
Total Suspended Solids	ND		2.0	6.7	2.0	mg/L		08/23/16 19:54	1
Phosphorus, Total	ND		0.20	0.016	0.0050	mg/L as P		08/24/16 11:15	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Color	**No**					NONE		08/18/16 11:35	1
Dissolved Oxygen, Field	**3.7**					mg/L		08/18/16 11:35	1
Field EH/ORP	**204.0**					millivolts		08/18/16 11:35	1
Odor	**No**					NONE		08/18/16 11:35	1
pH, Field	**7.88**					SU		08/18/16 11:35	1
Specific Conductance, Field	**775**					umhos/cm		08/18/16 11:35	1
Temperature, Field (C)	**16.0**					Degrees C		08/18/16 11:35	1
Turbidity, Field	**No**					NONE		08/18/16 11:35	1

WASTE MANAGEMENT
Closed Sites Management Group
W124N9355 Boundary Road
Menomonee Falls, WI 53051
262 253 8626
262 255 3798 Fax

October 4, 2016

Stoughton Conservation Club
984 Collins Road
Stoughton, WI 53589

To whom it may concern:

As required by the Unilateral Administrative Order for clean-up of the Hagen Farm Landfill, Waste Management of Wisconsin, Inc. (WMWI) samples the well at the above referenced facility (PW09) on an annual basis. This letter transmits the analytical data for that water supply well, which was sampled on August 18, 2016. Analytical results for water samples collected from the well are also sent to the United States Environmental Protection Agency (USEPA) and the Wisconsin Department of Natural Resources (WDNR) for review.

A brief review of the recent laboratory results for water samples collected from that well indicates the water quality is typical of groundwater in the area, and does not indicate any affect from the Hagen Farm Landfill. Manganese is present in the sample and groundwater throughout this area at concentrations consistent with historical data. The presence of manganese at the identified concentrations may cause staining and taste concerns.

Vinyl Chloride was detected at a trace level in the sample, well below the State of Wisconsin Enforcement Standard of 0.2 ug/l and the Preventive Action Level of 0.02 ug/l.

I would recommend that you contact Ms. Sheila Sullivan from the USEPA if you would like any additional information regarding this correspondence. Ms. Sullivan is USEPA's representative for the Hagen Farm Landfill and provides regulatory oversight at the site. Ms. Sullivan's telephone number is (312) 886-5251.

Thank you for your consideration of this matter.

Sincerely,
Waste Management of Wisconsin, Inc.

Michael L. Peterson

Michael L. Peterson, P.E.
District Manager – Closed Sites Management Group

cc: Sheila Sullivan, USEPA
Gary Edelstein, WDNR

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
^c	CCV Recovery is outside acceptance limits.
J	Reported value was between the limit of detection and the limit of quantitation.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Reported value was between the limit of detection and the limit of quantitation.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Reported value was between the limit of detection and the limit of quantitation.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-104791-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-104791-1

Comments
No additional comments.

Receipt
The samples were received on 8/19/2016 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.7° C and 3.0° C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-317079 recovered above the upper control limit for Chloromethane, Methylene Chloride and Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: PW02 (480-104791-1), PW03 (480-104791-2), PW04 (480-104791-3), PW05 (480-104791-4), PW09 (480-104791-5) and TB (480-104791-6).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC
Method(s) 300.0: The following sample was diluted to bring the concentration of target analytes within the calibration range: PW03 (480-104791-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6020A: The continuing calibration blank (CCB) for analytical batch 480-317506 contained Total Thallium above the method detection limit. All reported samples, PW02 (480-104791-1), PW03 (480-104791-2), PW04 (480-104791-3), PW05 (480-104791-4), PW09 (480-104791-5), (LCS 480-317092/2-A) and (MB 480-317092/1-A), associated with this CCB were either below the laboratory's standard reporting limit for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: PW09

Date Collected: 08/18/16 11:45
Date Received: 08/19/16 09:00

Lab Sample ID: 480-104791-5

Matrix: Water

Method: 8260C SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Vinyl chloride	0.0090	J	0.020	0.013	0.0040	ug/L		08/23/16 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
TBA-d9 (Surr)	*99*		*50 - 150*		*08/23/16 18:26*	*1*
Dibromofluoromethane (Surr)	*94*		*50 - 150*		*08/23/16 18:26*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	2.7	0.82	ug/L		08/22/16 16:08	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.70	0.21	ug/L		08/22/16 16:08	1
1,1,2-Trichloroethane	ND		1.0	0.77	0.23	ug/L		08/22/16 16:08	1
1,1-Dichloroethane	ND		1.0	1.3	0.38	ug/L		08/22/16 16:08	1
1,1-Dichloroethene	ND		1.0	0.97	0.29	ug/L		08/22/16 16:08	1
1,2,4-Trichlorobenzene	ND		1.0	1.4	0.41	ug/L		08/22/16 16:08	1
1,2-Dibromo-3-Chloropropane	ND		1.0	1.3	0.39	ug/L		08/22/16 16:08	1
1,2-Dibromoethane (EDB)	ND		1.0	2.4	0.73	ug/L		08/22/16 16:08	1
1,2-Dichlorobenzene	ND		1.0	2.6	0.79	ug/L		08/22/16 16:08	1
1,2-Dichloroethane	ND		1.0	0.70	0.21	ug/L		08/22/16 16:08	1
1,2-Dichloropropane	ND		1.0	2.4	0.72	ug/L		08/22/16 16:08	1
1,3-Dichlorobenzene	ND		1.0	2.6	0.78	ug/L		08/22/16 16:08	1
1,4-Dichlorobenzene	ND		1.0	2.8	0.84	ug/L		08/22/16 16:08	1
2-Butanone (MEK)	ND		10	4.4	1.3	ug/L		08/22/16 16:08	1
2-Hexanone	ND		5.0	4.1	1.2	ug/L		08/22/16 16:08	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	7.0	2.1	ug/L		08/22/16 16:08	1
Acetone	ND		10	10	3.0	ug/L		08/22/16 16:08	1
Benzene	ND		1.0	1.4	0.41	ug/L		08/22/16 16:08	1
Bromodichloromethane	ND		1.0	1.3	0.39	ug/L		08/22/16 16:08	1
Bromoform	ND		1.0	0.87	0.26	ug/L		08/22/16 16:08	1
Bromomethane	ND		1.0	2.3	0.69	ug/L		08/22/16 16:08	1
Carbon disulfide	ND		1.0	0.63	0.19	ug/L		08/22/16 16:08	1
Carbon tetrachloride	ND		1.0	0.90	0.27	ug/L		08/22/16 16:08	1
Chlorobenzene	ND		1.0	2.5	0.75	ug/L		08/22/16 16:08	1
Chloroethane	ND		1.0	1.1	0.32	ug/L		08/22/16 16:08	1
Chloroform	ND		1.0	1.1	0.34	ug/L		08/22/16 16:08	1
Chloromethane	ND	^c	1.0	1.2	0.35	ug/L		08/22/16 16:08	1
cis-1,2-Dichloroethene	ND		1.0	2.7	0.81	ug/L		08/22/16 16:08	1
cis-1,3-Dichloropropene	ND		1.0	1.2	0.36	ug/L		08/22/16 16:08	1
Dibromochloromethane	ND		1.0	1.1	0.32	ug/L		08/22/16 16:08	1
Dibromomethane	ND		1.0	1.4	0.41	ug/L		08/22/16 16:08	1
Dichlorodifluoromethane	ND		1.0	2.3	0.68	ug/L		08/22/16 16:08	1
Ethylbenzene	ND		1.0	2.5	0.74	ug/L		08/22/16 16:08	1
Methylene Chloride	ND	^c	1.0	1.5	0.44	ug/L		08/22/16 16:08	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.53	0.16	ug/L		08/22/16 16:08	1
Naphthalene	ND		1.0	1.4	0.43	ug/L		08/22/16 16:08	1
Styrene	ND		1.0	2.4	0.73	ug/L		08/22/16 16:08	1
Tetrachloroethene	ND		1.0	1.2	0.36	ug/L		08/22/16 16:08	1
Tetrahydrofuran	ND		5.0	4.2	1.3	ug/L		08/22/16 16:08	1
Toluene	ND		1.0	1.7	0.51	ug/L		08/22/16 16:08	1
trans-1,2-Dichloroethene	ND		1.0	3.0	0.90	ug/L		08/22/16 16:08	1
trans-1,3-Dichloropropene	ND		1.0	1.2	0.37	ug/L		08/22/16 16:08	1

Client Sample ID: PW09
Date Collected: 08/18/16 11:45
Date Received: 08/19/16 09:00

Lab Sample ID: 480-104791-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Trichloroethene	ND		1.0	1.5	0.46	ug/L		08/22/16 16:08	1
Trichlorofluoromethane	ND		1.0	2.9	0.88	ug/L		08/22/16 16:08	1
Vinyl chloride	ND	^c	1.0	3.0	0.90	ug/L		08/22/16 16:08	1
Xylenes, Total	ND		2.0	2.2	0.66	ug/L		08/22/16 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*08/22/16 16:08*	*1*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*08/22/16 16:08*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*08/22/16 16:08*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Aluminum	ND		80.0	200	60.0	ug/L		08/22/16 23:52	1
Barium	**44.6**		6.0	2.3	0.70	ug/L		08/22/16 23:52	1
Calcium	**85.0**	**B**	5.0	0.33	0.10	mg/L		08/22/16 23:52	1
Chromium	ND		5.0	3.3	1.0	ug/L		08/22/16 23:52	1
Cobalt	ND		6.0	2.1	0.63	ug/L		08/22/16 23:52	1
Copper	**52.9**		25.0	5.3	1.6	ug/L		08/22/16 23:52	1
Iron	ND		0.10	0.064	0.019	mg/L		08/22/16 23:52	1
Magnesium	**40.0**		5.0	0.14	0.043	mg/L		08/22/16 23:52	1
Manganese	**76.2**	**B**	3.0	1.3	0.40	ug/L		08/22/16 23:52	1
Nickel	ND		4.0	4.2	1.3	ug/L		08/22/16 23:52	1
Potassium	**1.3**		5.0	0.33	0.10	mg/L		08/22/16 23:52	1
Silver	ND		3.0	5.7	1.7	ug/L		08/22/16 23:52	1
Sodium	**4.2**		5.0	1.1	0.32	mg/L		08/22/16 23:52	1
Vanadium	ND		5.0	5.0	1.5	ug/L		08/22/16 23:52	1
Zinc	**10.5**	**B**	4.0	5.0	1.5	ug/L		08/22/16 23:52	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Antimony	ND		0.50	1.2	0.35	ug/L		08/23/16 08:33	1
Arsenic	**0.57**	**J**	2.0	0.90	0.27	ug/L		08/23/16 08:33	1
Beryllium	ND		0.20	0.10	0.030	ug/L		08/23/16 08:33	1
Cadmium	ND		0.20	0.24	0.071	ug/L		08/23/16 08:33	1
Selenium	ND		5.0	1.5	0.44	ug/L		08/23/16 08:33	1
Thallium	ND		0.20	0.063	0.019	ug/L		08/23/16 19:07	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Mercury	ND		0.20	0.40	0.12	ug/L		08/22/16 12:34	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Calcium and Magnesium Hardness	377		0.50	0.33	0.10	mg/L		08/25/16 13:15	1

General Chemistry

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Chloride	**22.0**		0.50	0.94	0.28	mg/L		08/22/16 11:59	1
Sulfate	**4.4**		2.0	1.2	0.35	mg/L		08/22/16 11:59	1
Alkalinity, Total	**333**		50.0	66.7	20.0	mg/L		08/23/16 12:10	5
Total Cyanide	ND		0.020	0.017	0.0050	mg/L		08/25/16 14:47	1

Client: Waste Management
Project/Site: Hagen Farms - Groundwater

TestAmerica Job ID: 480-104791-1

Client Sample ID: PW09
Date Collected: 08/18/16 11:45
Date Received: 08/19/16 09:00

Lab Sample ID: 480-104791-5
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Ammonia (as N)	0.13	J F1	0.20	0.33	0.10	mg/L		08/24/16 11:28	1
Total Kjeldahl Nitrogen	0.28	J	0.20	0.50	0.15	mg/L as N		08/23/16 11:48	1
Nitrate Nitrite as N	0.023	J	0.050	0.067	0.020	mg/L as N		08/22/16 21:28	1
Chemical Oxygen Demand	7.3	J	10.0	16.7	5.0	mg/L		08/22/16 16:53	1
Total Dissolved Solids	381	B	10.0	13.3	4.0	mg/L		08/24/16 06:36	1
Total Suspended Solids	ND		2.0	6.7	2.0	mg/L		08/23/16 19:54	1
Phosphorus, Total	ND		0.20	0.016	0.0050	mg/L as P		08/24/16 11:15	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	LOQ	LOD	Unit	D	Analyzed	Dil Fac
Color	No					NONE		08/18/16 12:45	1
Dissolved Oxygen, Field	2.9					mg/L		08/18/16 12:45	1
Field EH/ORP	211.0					millivolts		08/18/16 12:45	1
Odor	No					NONE		08/18/16 12:45	1
pH, Field	7.42					SU		08/18/16 12:45	1
Specific Conductance, Field	685					umhos/cm		08/18/16 12:45	1
Temperature, Field (C)	19.4					Degrees C		08/18/16 12:45	1
Turbidity, Field	No					NONE		08/18/16 12:45	1