



ENVIRONMENTAL CONSULTANTS

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Report: **Weekly Progress Report**

Project: **Former Two Rivers MGP Site  
Removal Action Construction  
Two Rivers, Wisconsin**

Date: February 23, 2015

Prepared By: Natural Resource Technology, Inc.  
Mark D. Walter, PE  
Kenneth R. Mika, PE

Submitted To: Integrys Business Support, LLC  
Naren M. Prasad, PE  
Stacy A. Brault

Activity Period: February 9 through February 15, 2015

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Natural Resource Technology, Inc. Personnel on Site

- Mark Walter, **Field Engineer**
- Andrea Salus, **Field Engineer**
- Graham Fazio, **Environmental Scientist**
- Dan Vachon, **Remediation Coordinator**
- Ken Mika, **Project Manager**
- Todd Lewis, **Construction Manager**

Integrys/Wisconsin Public Service Corporation Personnel on Site

- Brian Bartoszek
- Stacy Brault

Geo-Solutions, Inc. Personnel on Site

- Keith Adamson
- Eric Shannon
- Jason Greggs
- Rob Kautchick
- Bob Lager
- John Scott
- Jesse Frederick
- Cliff Grass
- Tom Cook
- Stanley Smith
- Aaron Handel

- Donnie Wren

U.S. EPA Personnel on Site

- Raghu Nagam, **OTIE**

Subcontractors on Site

- Edler Brothers Trucking, Inc., **Trucking contractor for peat and debris hauling**
- Fred Radandt Sons, Inc., **Delivery of stone and general fill to site**

Others

- None

Visitors

- Tom Wentland, **WDNR**

This report summarizes field activities performed by NRT, GSI, and GSI's subcontractors, on behalf of IBS at the Two Rivers Former MGP Site Time Critical Removal Action:

**Site Activities**

Removal Action Totals:

- Soil Direct Disposal through 2/15/15: 29,894.96 Tons
- Debris Direct Disposal (Concrete and Wood) through 2/15/15: 1,166.40 Tons
- Asbestos-Wrapped Pipe Direct Disposal through 2/15/15: 12.79 Tons
- Solidified Pipe Grout Direct Disposal through 2/15/15: 13.68 Tons
- Total Direct Disposal through 2/15/15: 31,087.83 Tons
- In-Situ Solidification/Stabilization (ISS) through 2/15/15: 75,126.01 Cubic Yards

Site Perimeter Air Monitoring:

- Real-time site perimeter air monitoring for TVOCs and PM<sub>10</sub> was conducted 24 hours per day, all seven days of the week. The locations of the perimeter air monitoring stations are shown on Figure 1.
- A total of 12 SUMMA canister samples were collected, including two samples at each of the five air monitoring station locations, one duplicate sample, and one field blank sample. SUMMA canister samples were analyzed for BTEX compounds and naphthalene. A summary of the analytical results is presented in Table 1.
- A total of six PUF samples were collected, including one sample at each of the five air monitoring station locations and one field blank sample. PUF samples were analyzed for PAH compounds. A summary of the analytical results is presented in Table 1.

NRT

- Participated in daily safety meetings to evaluate potential safety concerns for the day's planned construction activities.
- Oversaw GSI's preparation of an ISS work pad.
- Oversaw GSI's ISS drilling.

- Collected and prepared three ISS Construction Quality Assurance (CQA) samples (ISS-AI27-M, ISS-AT26-B, ISS-BA27-T).
- Received and reviewed ISS CQA sample test results for UCS and hydraulic conductivity. Results are compared to ISS performance goals established in the Removal Action Work Plan (RAWP) Addendum 1 Construction Quality Assurance Project Plan (CQAPP).
- Oversaw GSI's management of ponded water.
- Oversaw GSI's test pit excavation in the WPS Excavation Area and collected and prepared one excavation limit base soil sample.
- Oversaw GSI's importing, placing, and grading of stone backfill in the portions of the WPS Excavation Area with verified final design base elevations.
- Surveyed stone backfill in the WPS Excavation Area to confirm final design grades.
- Oversaw GSI's weekly erosion control inspection on Tuesday (2/10).
- Oversaw GSI's ISS swell grading.
- Issued truck manifests for disposal of peat material and concrete and wood debris.
- Performed perimeter air monitoring and sampling.
- Monitored site conditions for traffic flow, fugitive dust, odors, and general overall safety.

#### Geo-Solutions Inc.

- Completed constructing an ISS work pad in the ISS Area.
- Completed full-scale ISS drilling in the ISS Area.
- Excavated a test pit in the WPS Excavation Area for excavation limit base soil sample collection by NRT.
- Continued importing, placing, and grading stone backfill in the portions of the WPS Excavation Area with verified final design base elevations.
- Continued off-site trucking and disposal of peat material and concrete and wood debris.
- Performed weekly erosion control inspection on Tuesday (2/10).
- Began grading the ISS swell surface.
- Began importing general fill for eventual backfill of the U.S. Oil Excavation Areas.
- Implemented fugitive emission controls, including sequencing of work to minimize material handling.
- Conducted periodic worker health and safety air monitoring in the work (exclusion) zone.

#### Changes to Scope of Work

- None.

#### Open/Outstanding Items

- None.

#### Work planned for the week of February 16 through February 22, 2015

- Continue off-site trucking and disposal of peat material.
- Begin off-site trucking and disposal of ISS swell material.
- Begin excavation and backfilling with general fill in the U.S. Oil Excavation Areas.
- Continue ISS swell grading.
- Continue perimeter air monitoring and sampling.
- Continue implementation of fugitive emission controls.



A Weekly Progress Report will be issued throughout the duration of field activities for this Time Critical Removal Action. A written report summarizing the results of the Removal Action will be provided following completion of all field activities.

Please contact us if you have any questions.

Sincerely,

NATURAL RESOURCE TECHNOLOGY, INC.

A handwritten signature in black ink that reads "Kenneth R. Mika".

Kenneth R. Mika, PE  
Environmental Engineer

Attachments:

Field Photos  
Figure 1: Air Monitoring Station Locations  
Table 1: Weekly Air Data Summary

[P:\1500\1569\Construction\Field Reports\Weekly Reports\1569 NRT Two Rivers MGP Weekly Report 2-9-15 To 2-15-15.Docx]



### Field Photos:



**Photo 1:** Placing and grading stone backfill in the WPS Excavation Area.

**Direction:** Facing south

**Photo Date:** 2/9/2015

**Photo Taken By:** ANS



**Photo 2:** ISS drilling.

**Direction:** Facing southwest

**Photo Date:** 2/11/2015

**Photo Taken By:** DJV



**Photo 3:** ISS swell grading along the southern portion of the ISS Area.

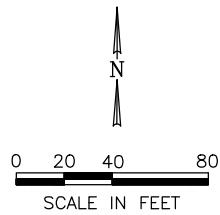
**Direction:** Facing west

**Photo Date:** 2/12/2015

**Photo Taken By:** DJV

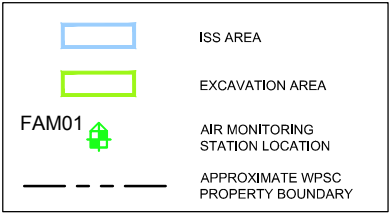


Oct 30, 2014 1:33pm PLOTTED BY: rhopkins SAVED BY: rhopkins  
I:\AcadData\Projects\15\1569 2riv\1569-148-B01.dwg Layout1  
XREFS: I:\GIS\Projects\15\1569 CAD\16\_CAD\Manitowoc\_Co\_Imagery\_2010\_v2.tif;  
XREFS:



SOURCE NOTES:

1. COORDINATE REFERENCE SYSTEM IS NAD 1983  
MANITOWOC COUNTY COORDINATE SYSTEM, FEET;  
VERTICAL DATUM IS NAVD 1988 (US SURVEY FEET).
2. AERIAL PHOTOGRAPHY COURTESY ESRI.



## AIR MONITORING STATION LOCATIONS

FORMER TWO RIVERS MANUFACTURED GAS PLANT  
WISCONSIN PUBLIC SERVICE CORPORATION  
TWO RIVERS, WISCONSIN

DRAWN BY:	RLH	DATE:	10/30/14
CHECKED BY:	KRM	DATE:	10/30/14
APPROVED BY:	KRM	DATE:	12/12/14
DRAWING NO:		15691-148-B01	
REFERENCE:			

PROJECT NO.  
1569.1/14.8

FIGURE NO.  
1

Table 1 - Analytical Air Summary

Weekly Progress Report  
Former Two Rivers MGP Site  
Two Rivers, WI

Sample Location	Sample Date	Sample Type	Benzo(a)anthracene (ug/m3)	Benzo(a)pyrene (ug/m3)	Benzo(b)fluoranthene (ug/m3)	Benzo(k)fluoranthene (ug/m3)	Chrysene (ug/m3)	Dibenz(a,h)anthracene (ug/m3)	Indeno(1,2,3-cd)pyrene (ug/m3)
Site-Specific Air SL (1E-04)			160	16	160	160	1600	15	160
Site-Specific Air SL (1E-05)			16	1.6	16	16	160	1.5	16
Site-Specific Air SL (1E-06)			1.6	0.16	1.6	1.6	16	0.15	1.6
FAM01	2/10/2015	PUF	< 0.0009	< 0.0011	< 0.0012	< 0.0013	< 0.0007	< 0.0014	< 0.0014
FAM02	2/10/2015	PUF	< 0.0009	< 0.0012	< 0.0013	< 0.0013	< 0.0007	< 0.0015	< 0.0015
FAM03	2/10/2015	PUF	< 0.001	< 0.0013	< 0.0014	< 0.0015	< 0.0008	< 0.0017	< 0.0017
FAM04	2/10/2015	PUF	< 0.001	< 0.0013	< 0.0014	< 0.0014	< 0.0008	< 0.0016	< 0.0016
FAM05	2/10/2015	PUF	< 0.0009	< 0.0012	< 0.0013	< 0.0013	< 0.0007	< 0.0015	< 0.0015
Field Blank	2/10/2015	PUF	< 0.0009	< 0.0012	< 0.0013	< 0.0013	< 0.0007	< 0.0015	< 0.0015
Average 09/09/14 - 02/10/15			0.0014	0.0017	0.0013	0.0020	0.0016	0.0017	0.0015

Sample Location	Sample Date	Sample Type	Benzene (ug/m3)	Ethylbenzene (ug/m3)	Naphthalene (ug/m3)	Toluene (ug/m3)	Xylene (total) (ug/m3)
Site-Specific Air SL (1E-04)			110	7100	42	7000	560
Site-Specific Air SL (1E-05)			110	710	42	7000	560
Site-Specific Air SL (1E-06)			23	71	5.2	7000	560
FAM01	2/10/2015	SUMMA	0.79	0.29	< 0.2	0.6	< 0.2
FAM02	2/10/2015	SUMMA	0.76	< 0.1	< 0.2	< 0.1	< 0.2
FAM03	2/10/2015	SUMMA	1.33	0.83	< 0.2	0.9	1.27
FAM04	2/10/2015	SUMMA	1.26	0.78	< 0.2	0.81	0.73
FAM05	2/10/2015	SUMMA	0.68	< 0.1	< 0.2	0.6	< 0.2
QC01 (FAM03)	2/10/2015	SUMMA	2.19	0.83	5.55	1.57	1.32
FAM01	2/11/2015	SUMMA	0.42	< 0.1	< 0.2	0.3	< 0.2
FAM02	2/11/2015	SUMMA	0.6	0.12	< 0.2	0.3	< 0.2
FAM03	2/11/2015	SUMMA	1.2	1.06	1.2	0.8	1.25
FAM04	2/11/2015	SUMMA	1.06	1.35	1.6	1.71	1.35
FAM05	2/11/2015	SUMMA	0.46	0.11	< 0.2	0.2	< 0.2
Field Blank	2/11/2015	SUMMA	< 0.1	< 0.1	< 0.17	< 0.1	< 0.2
Average 09/09/14 - 02/11/15			1.98	2.12	1.95	2.06	2.65

- Notes:
- 1) Site-Specific Air Sample Levels (SL) were developed by Exponent and were provided in the *Site-Specific Perimeter Air Monitoring Acceptable Air Concentrations Technical Memorandum* June 4, 2014. SLs are based on acceptable air concentrations for target cancer risks.
  - 2) Sample date listed is the start date of the 24-hour sampling period.
  - 3)   Parameter level was below the method detection limit.
  - 4) Averages do not include field blanks and duplicates.
  - 5) Results below the method detection limit are average with the method detection limit level.
  - 6) ug/m3 - micrograms per cubic meter adjusted to standard temperature and pressure.