NATURAL
RESOURCE
TECHNOLOGY

March 14, 2005
(1358)

Mr. John Feeney
Wisconsin Department of Natural Resources
PO Box 408
Plymouth WI 53073-0408

RE: Groundwater Monitoring/Site Status Update, Wisconsin Public Service Corporation (WPSC), Former Manufactured Gas Plant (MGP) Facility, 933 S. Wildwood Ave., Sheboygan, WI
FID #: 460027920
BRRTS #: 02-60-001016

Dear Mr. Feeney:

On behalf of Wisconsin Public Service Corporation (WPSC), Natural Resource Technology, Inc. (NRT) is providing this update, which includes the most recent groundwater sampling results for the former manufactured gas plant (MGP) site located on Wildwood Avenue in Sheboygan, Wisconsin (Figure 1). Pages GI-1, GI-2, GI-3, and GW-3 of Form 4400-194 for the continued monitoring are included in Appendix A. In addition to the discussion of groundwater analytical results, responses to your April 20, 2004 letter regarding the possibility of further site investigation activities at the site are also provided.

Site monitoring wells were sampled on November 23, 2004 in accordance with Wisconsin Department of Natural Resources (WDNR) guidelines as specified in *Groundwater Sampling Desk Reference (WDNR PUBL-DG-037 96)* and *Groundwater Sampling Field Manual (WDNR PUBL-DG-038 96)*. These samples were collected in accordance with the schedule established in the January 30, 2004 *Supplemental Investigation and Remedial Design Report* (NRT).

GROUNDWATER MONITORING RESULTS

Groundwater Flow Direction and Gradients

The groundwater elevation measurements (Table 1) have been plotted to evaluate the water table and piezometer surface contours and groundwater flow direction. Both the water table and piezometric surface contours indicate that flow is generally south-southeast across the site, in the direction of the Sheboygan River (Figures 2 and 3, respectively).

Horizontal and vertical hydraulic gradients were also assessed. Horizontal gradients across the site were calculated from the water table well contours and range from about 5×10^{-3} to 1×10^{-2} ft/ft. Upward vertical gradients were present in all three well nests (MW-501AR/B, MW-506A/B, and MW-514A/B). A slight upward gradient was present in nest MW-506A/B and steep upward gradients were present at nests MW-501AR/B and MW-514A/B, reflecting the influence of groundwater discharge to the river.

Analytical Results

The November 2004 groundwater samples were submitted for laboratory analysis of petroleum volatile organic compounds (PVOCs), polynuclear aromatic hydrocarbons (PAHs), dissociable cyanide, and a

variety of natural attenuation parameters. The samples were collected using bailers and the cyanide and metal samples were filtered and preserved accordingly. The groundwater samples were analyzed by En Chem, Inc. and the laboratory analytical reports are included in Appendix B.

Significant analytical results observed since completion of the interim remedial activities include the following:

- Benzene concentrations exceed the NR 140 Enforcement Standard (ES) in wells MW-502R and MW-506A (Table 2 and Figure 4), and both wells show some fluctuation. Concentrations in well MW-506A have decreased from historic highs, and are generally stable in well MW-502R. Benzene was not detected in wells MW-503 and MW-505, although well MW-505 has historically exhibited elevated benzene concentrations (Table 2). For the remaining monitoring wells, all other benzene results were low or below the detection limits;

- Benzene concentrations in the three piezometers remain below the NR 140 groundwater standards (Table 2);

- Other PVOC concentrations are below the NR 140 Preventive Action Limit (PAL) in all the water table wells and piezometers;

- Weak acid dissociable (WAD) cyanide concentrations remain stable and are below the NR 140 ES in all sampled wells (Table 2); and,

- A few PAHs exceeded the NR 140 ES in wells MW-504, MW-506A, and MW-508 (Table 3). Benzo(a)pyrene, benzo(b)fluoranthene, and chrysene exceeded the NR 140 ES at all three wells. Naphthalene also exceeded the NR 140 ES in MW-506A. Concentrations in well MW-504 were slightly higher in November 2004 and declined at MW-505. Very few locations had detectable PAH concentrations, and the results suggests that PAH impacts are generally limited across the site (Table 3).

Mann-Kendall analyses (Appendix C) have been completed for benzene, benzo(a)pyrene, chrysene, and naphthalene in monitoring wells MW-502 through MW-506A, and the results (for the 80% Confidence Level) are summarized below.

Mann-Kendall Trend Summary (80% Confidence Level)

Well	Benzene	Benzo(a)pyrene	Chrysene	Naphthalene
MW-502R	No Trend (Stable)	Decreasing	No Trend (Stable)	Decreasing
MW-503	Decreasing	Decreasing	Decreasing	Decreasing
MW-504	Non-Stable	Non-Stable	Non-Stable	Non-Stable
MW-505	Non-Stable	Decreasing	Non-Stable	Decreasing
MW-506A	Decreasing	Non-Stable	Non-Stable	Decreasing

Groundwater impacts are confined to the shallow monitoring wells, which may be a reflection of the upward vertical gradients at the site. Additionally, impacts above the NR 140 ES are generally limited to the central portion of the site. The Mann-Kendall results yielded non-stable trends and indicate that additional sampling is necessary for the wells in the central portion of the site. Continued sampling of monitoring wells MW-511, MW-512, MW-513, and MW-514 is necessary to evaluate whether groundwater impacts migrate from the site and assure WPSC and WDNR that natural attenuation is containing the residual impacts discussed above.

Natural attenuation parameters have also been analyzed as part of continued monitoring. The parameters analyzed by the laboratory include alkalinity, nitrate/nitrite, iron (total and dissolved) and methane, while the parameters measured in the field included pH, temperature, conductivity, dissolved oxygen, and the oxidation/reduction potential (Table 4). Additional data will be collected in order to evaluate statistically significant trends for these parameters.

The data suggest biological processes are resulting in methanogenesis, with increased iron concentrations as well as detectable levels of manganese. Dissolved oxygen concentrations are elevated across the site, but the data fluctuations from previous rounds complicate interpretation of the site data.

RESPONSE TO THE APRIL 20, 2004 WDNR LETTER

The items discussed in your April 20th letter are listed in italics below and followed by our response, which is based on the January 2004 report and updated site conditions described above. Our response is preceded by a discussion of some of the background issues pertinent to this site and the completed investigation.

The focus of the site investigation activities outlined in the January 30, 2004 *Supplemental Investigation and Remedial Design Report* developed over time. Significant consideration was given to the fact that this site is an active WPSC service center that will remain under WPSC ownership into the foreseeable future, and this became a key factor for developing a plan for the management of environmental impacts at the site.

Natural attenuation for the detected groundwater impacts was the remedial alternative recommended in the January 2004 report along with institutional and access controls (maintaining ownership and the existing site boundary fence). The magnitude and extent of groundwater impacts at the site have been defined in accordance with NR 716 requirements, and given the historic results to-date for the downgradient wells, we believe that site closure can be achieved through the use of natural attenuation at the site.

Specific Items from the April 20th Letter & Responses

1. *The source location(s) for the groundwater contamination is not clear. The groundwater contaminant plume maps have the plumes centered near the "tar tanks" and "liquor" tank location, but no soils samples were taken there. Please take any additional soil samples needed to make that determination. Submit a isoconcentration maps for soil contamination, including benzene, benzo(a)pyrene, chrysene and naphthalene.*

Based on our experience at other MGP sites, as well as at other historic industrial sites with subsurface contamination, soil impacts can generally be distributed across the site at disparate locations, not related to a specific source. As a result, the data distribution does not lend itself to developing isoconcentration contours for this site.

Attached Figures 3-1, 4-4, and 4-5 (Appendix D) were all included as part of the *Phase II Environmental Investigation Report*. Figure 3-1 shows the various soil sampling locations that were completed in the central portion of the site while Figures 4-4 and 4-5 show the extent of impacts from BTEX/benzene and PAHs/naphthalene, respectively.

Soil boring SB-502 was advanced in the vicinity of the tar tanks and the results indicated elevated concentrations of benzene, toluene, ethylbenzene, and xylenes (BTEX), as reported in the *Phase II Environmental Investigation Report* (NRT, July 25, 1996). However, no polynuclear aromatic hydrocarbons (PAHs) were detected at this location. Based on the relatively low BTEX concentrations detected relative to other site impacts, further investigation or removal was not warranted.

Approximately 1,100 tons of contaminated soil believed to contribute most to groundwater contamination was excavated during interim remedial actions in November and December 2000. Considering this and the future use of this site as a district office for WPSC, we believe that the investigation activities completed to-date have adequately assessed soil impacts as they may affect groundwater.

2. *No remedial soil excavation was done within the area of groundwater contamination. This will make closing the case more difficult because source control is a requirement under NR726.05(2)b for a natural attenuation closure (cases with remaining Enforcement Standard exceedances).*

The October 2003 groundwater sampling results justify using remedial natural attenuation (RNA) as a groundwater performance standard for the site, as identified in the Remedial Design report. Groundwater data indicate that benzene, benzo(a)pyrene, chrysene, and naphthalene are the contaminants of concern at the site. Based on the affinity of these three PAHs to adsorb to subsurface organic material and attenuate, the groundwater results indicate that PAH concentrations across the site, especially in downgradient wells, are decreasing. Further, the benzene analytical results show a similar trend. Outside of the central portion of the site, the results for monitoring well MW-502 show such trends, as the contaminants of concern are all either stable or decreasing.

Based on these groundwater sampling results and trends, the need for additional soil investigation work in the vicinity of the former tar and liquor tank locations is not warranted. If current trends in groundwater concentrations continue, the remaining groundwater will not pose an unmitigated threat to human health and the environment. Passive groundwater remedies (such as natural attenuation) can also serve as a basis for establishing a soil performance standard (page 2-7, 2004 *Remedial Design Report*). For this site, the natural attenuation evaluation followed interim remedial action of source area removal.

3. *A well should be put in at soil boring SB501 location that had a grab groundwater sample with the highest concentration of benzene recorded at the site, 790 ppb.*

Soil boring SB-501C (water sample GW-501) exhibited a benzene concentration of 790 µg/L. However, as you are aware, groundwater samples collected from soil borings typically yield analytical results that are significantly elevated compared with groundwater samples collected from NR 141 compliant monitoring wells. Downgradient monitoring well MW-502R exhibits a stable benzene plume and well MW-514A either has very low or non-detectable benzene concentrations (Table 2 and Figure 4). Based on the these two monitoring well results, we conclude that the impacts noted in soil boring SB-501C are being assessed through the additional monitoring performed to-date and will continue to be evaluated as long as monitoring is deemed necessary.

CONCLUSIONS AND SCHEDULE OF CONTINUING ACTIVITIES

The groundwater analytical results indicate that the extent of groundwater impacts have been defined and that trends of contaminant concentrations are either stable or decreasing in downgradient wells. Conclusions regarding site conditions include the following:

- The most significant groundwater impacts identified are centrally located on the site. Based on the historic isoconcentration maps (Figures 4-4 and 4-5), a portion of this area does appear to have elevated BTEX concentrations. However, PAH impacts are very low in this area, which suggests that impacts likely occur at disparate locations in this part of the site;

- Historic cyanide concentrations also indicate that this parameter is not a cause for concern at the site. Therefore, cyanide sampling will be discontinued at the site;

- Based on the southerly direction of groundwater flow downgradient well nests MW-501AR/B and MW-514A/B indicate that the extent of groundwater impacts has been identified on the site; and,

- Additional sampling, currently scheduled for May 2005, will facilitate further evaluation of groundwater impacts and trends on-site. All site monitoring wells will be sampled for the same target parameter list during the next round. Monitoring wells MW-512 could not be located for sampling in November 2004. NRT recommends that additional attempts be made to locate this well in advance of the next scheduled sampling event. If the well cannot be located, recommendation as to the need and location of a replacement well will be made.

CLOSURE CRITERIA ASSESSMENT

Following receipt of the May 2005 analytical results, WPSC and NRT will evaluate and make recommendations as to whether a site closure request is appropriate. In anticipation of this review, applicable NR 726 closure criteria as they apply to this site are summarized as follows:

- Adequate source control measures have been taken. About 1,100 tons of contaminated soil were excavated from the vicinity of the underground water line on the former MGP site and remediated using thermal treatment methods in November and December 2000 (*Supplemental Investigation and Remedial Design Report,* January 30, 2004);

- Institutional controls, as appropriate, will be implemented at the site to address residual soil and/or groundwater impacts at the time closure is requested. Remaining soil contamination primarily exists at isolated locations around the former MGP site. Adequate cover for protection from direct contact exists due to the surface soils and fence around the site. The former MGP site will be placed on the WDNR Geographic Information System Registry of Closed Remedial Sites (GIS Registry). In addition, there are no plans to change the property use and it will remain as a WPSC service center into the foreseeable future;

- Based on the available data and time period that has passed since MGP operations ceased, we believe natural attenuation to be an appropriate remedy for this site. Natural attenuation processes have been demonstrated with decreasing to stable trends for all compounds and locations with the exception of a few wells in the central portion of the site. However, the detected VOCs are readily degraded by biological processes while the PAHs have a high affinity for organic material in the subsurface that severely limits the migration potential. Collection of additional groundwater analytical data will provide further evaluation of concentration trends;

- The extents of groundwater impacts have been defined, and no additional monitoring well or piezometers are warranted at the site; and,

- There does not appear to be any existing or anticipated threat to public health, safety or welfare, or the environment. Potable water in the area is supplied by the City of Sheboygan and no municipal wells are located in the vicinity of the site. Also, underground utility corridors do not appear to be preferential migration pathways.

Please contact Shirley Scharff of WPSC at 920.433.1396 or either of the undersigned at 262.523.9000, if you have any questions or comments on the status of confirmed monitoring at this site.

Sincerely,

NATURAL RESOURCE TECHNOLOGY, INC.

Eric P. Kovatch, PG, PH
Senior Hydrogeologist

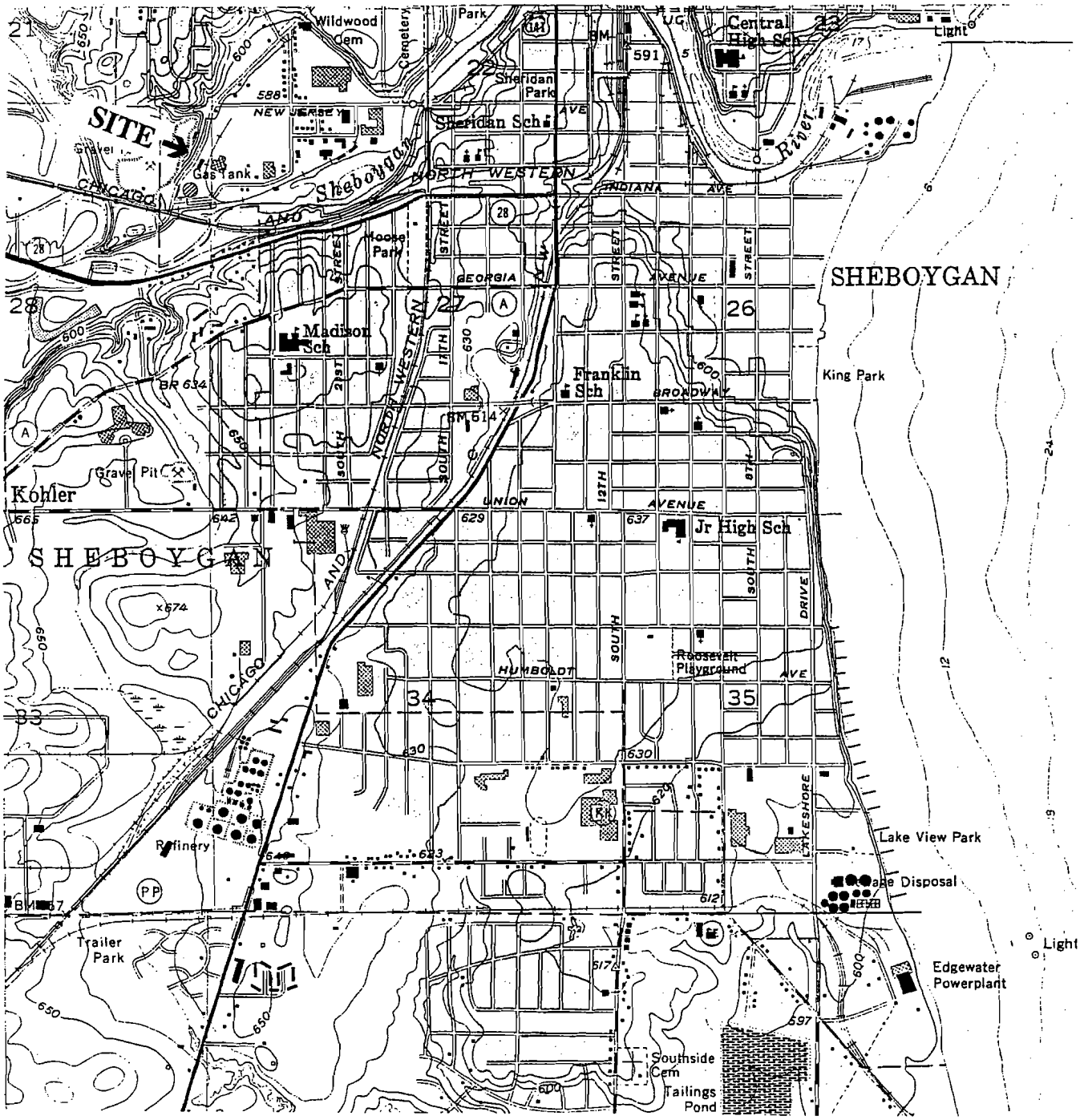
Laurie L. Parsons, PE, PH
Senior Engineer

cc: Ms. Shirley Scharff, Wisconsin Public Service Corporation (w/attach)

Attachments: Figures 1 through 4
Tables 1 through 4
Appendix A Form 4400 194 (Pages GI 1, GI 2, GI 3, and GW 3)
Appendix B Laboratory Analytical Reports
Appendix C Mann-Kendall Analyses
Appendix D Figures 3-1, 4-4, and 4-5 (*Phase II Report*)

[File:\1358 WDNR GW RPT 050314 Final]

FIGURES 1 THROUGH 4



QUADRANGLE LOCATION

N

0 2000 4000

SCALE IN FEET

CONTOUR INTERVAL 10 FEET

SOURCE: USGS 7.5 MINUTE QUADRANGLE, SHEBOYGAN SOUTH. DATED 1954. PHOTOREVISED 1973.

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N R T

SITE LOCATION MAP

933 SOUTH WILDWOOD AVENUE
FORMER WILDWOOD MANUFACTURED GAS PLANT SITE
WISCONSIN PUBLIC SERVICE CORPORATION
SHEBOYGAN, WISCONSIN

DRAWN BY: TAS APPROVED BY: SJF DATE: 01/29/04

PROJECT NO. 1358

DRAWING NO. 1358-A02

FIGURE NO. 1

WATER TABLE ELEVATION CONTOURS NOVEMBER 23, 2004

SUPPLEMENTAL INVESTIGATION AND REMEDIAL DESIGN REPORT
FORMER WILDWOOD MANUFACTURED GAS PLANT SITE
WISCONSIN PUBLIC SERVICE CORPORATION
SHEBOYGAN, WISCONSIN

DRAWN BY: RLH	DATE: 02/22/05	
CHECKED BY: EPK	DATE: 02/25/05	
APPROVED BY: LLP	DATE: 02/25/05	
CAD FILE: 1358-31-B02.DWG		
REF FILE: NONE		

Natural Resource Technology

PROJECT NO. 1358/3.1

FIGURE NO. 2

SOLD TO CITY OF SHEBOYGAN I.R. 1547-70

FORMER WPSC PROPERTY LINE

SOLD TO NEMSCHOFF CHAIRS INC. DEC. 7, 1983 -W.O. 1558-83 RESERVING GAS PIPELINE EASEMENT OVER SOUTHERLY 20 FEET.

1936 WPSC PROPERTY LINE

RETAINED PIPELINE EASEMENT

NEW JERSEY AVENUE

WILDWOOD AVENUE

CHAIRS, INC. NEMSCHOFF

SHEBOYGAN RIVER

PUBLIC AVENUE/JULSON COURT

WPSC PROPERTY

WISCONSIN CENTRAL RAILROAD

CITY OF SHEBOYGAN INCINERATOR ASH LANDFILL

FORMER TRIANGLE AUTO SALVAGE

ASPHALT PAVEMENT

OFFICES

STORAGE GARAGE

CONCRETE PAD

GARAGE/ WAREHOUSE

EXISTING GARAGE

FORMER WATER INTAKE INLET FOR MGP FEED WATER

FORMER INTAKE SCREEN

FORMER POND

ABANDONED FORMER 8" DIA. DEEP WELL

OW-3

MW-513 583.51

MW-512 NM

MW-501B OW-2 MW-501A 581.76

MW-501AR

MW-508 583.22

MW-509 583.33

MW-504 583.24

MW-505 583.20

MW-506A 583.25

MW-506B

MW-507 583.37

MW-514A 581.02

MW-514B

MW-502 MW-502R 582.65

MW-511 MW-511R 582.41

OW-1 MW-503 584.56

MW-510R 583.06

MW-510

DG-2

DG-3

DG-4

DG-5

BENCHMARK

582

583

584

0 50 100

SCALE IN FEET

LEGEND

- 582 — WATER TABLE ELEVATION CONTOURS, FT (NGVD)
- GROUNDWATER FLOW DIRECTION
- MW-501AR 581.76 — MONITORING WELL AND GROUNDWATER ELEVATION, FT (NGVD)
- DG-3 — MONITORING WELL (CITY OF SHEBOYGAN)
- MW-501B — PIEZOMETER
- OW-1 MW-511 — ABANDONED MONITORING WELL

APPROXIMATE LOCATION OF:

- FORMER MGP STRUCTURE
- EXISTING ABOVE GROUND BUILDING
- PROPERTY LINE
- FENCE
- RAILROAD TRACKS
- UTE — UNDERGROUND TELEPHONE CABLE
- GAS — NATURAL GAS
- SAN — SANITARY SEWER
- STM — STORM SEWER LINE
- WTR — WATER LINE
- PRO — PROPANE
- MGP — UNDERGROUND MANUFACTURED GAS PIPING
- LIGHT POLE
- ROUND MANHOLE
- SQUARE MANHOLE
- MGP — MANUFACTURED GAS PLANT
- NGVD — NATIONAL GEODETIC VERTICAL DATUM

SOURCE NOTES:

1. PORTIONS OF THIS DRAWING WERE DEVELOPED FROM A SURVEY BY HINZE & ASSOCIATES, INC., SHEBOYGAN, WISCONSIN, REGISTERED LAND SURVEYORS, JOB NO. D-2090, SEPTEMBER 19, 1995.
2. FORMER WPSC PROPERTY LINE AND RIVER LOCATIONS OBTAINED FROM WISCONSIN PUBLIC SERVICE CORPORATION, GAS PLANT PROPERTY MAP, DATED 5-16-56. SLOUGH, POND, INTAKE SCREEN, WATER LINE, AND YARD SEWER SYSTEM LOCATIONS ARE MODIFIED FROM DRAWINGS BY BYLLESBY ENGINEERING & MANAGEMENT CORPORATION, CHICAGO, "12" SEWER LINE & 8" WATER LINE CROSSINGS OF CHICAGO & NORTHWESTERN RAILWAY", CONT NO. 2949, NO. B-29899, DATED 9-18-29 AND "YARD SEWER SYSTEM", CONT NO. 2949, NO. A29257, DATED 7-22-29. FORMER STRUCTURES DEVELOPED FROM BYLLESBY ENGINEERING & MANAGEMENT CORPORATION, CHICAGO, "GENERAL ARRANGEMENT OF BY-PRODUCT COKE & GAS PLANT, CONT NO. 2949, NO. A28081, DATED 3-28-29. ALL DIMENSIONS TAKEN FROM EAST-WEST BUILDING REFERENCE LINE AND TRUE EAST-WEST, NORTH-SOUTH LINE. ALL CONT NO. 2949 DRAWINGS HAVE REVISIONS THROUGH 1930.
3. EDI SAMPLING LOCATIONS ARE REFERENCED IN AN EDI REPORT "SITE INVESTIGATION FORMER COAL GAS MANUFACTURING PLANT, WILDWOOD AVENUE, SHEBOYGAN, WISCONSIN" (1986).
4. CITY OF SHEBOYGAN ASH DISPOSAL LANDFILL SITE INFORMATION FROM MAP OBTAINED FROM WDNR FILE FID #460015930, WID 088879218, LANDFILL LICENSE #946. CITY OF SHEBOYGAN WELLS SURVEYED BY WPSC 1-27-00.
5. PORTIONS OF WPSC DRAWING "PLAN OF UNDERGROUND PIPING IN VICINITY OF COMPRESSOR BUILDING SHEBOYGAN GAS PLANT", DRAWING NO. 50-40030, DATED 9-12-56, REVISIONS THROUGH 1967.
6. PORTIONS OF WPSC DRAWING "GENERAL PLAN OF GAS PLANT PROPERTY AT SHEBOYGAN, WISCONSIN" DRAWING NO. 50-50029, FORMERLY DRAWING DD-84533, DATED 6-11-54, REVISIONS THROUGH 1979.
7. PORTIONS OF DRAWING BY EDGAR A STUBENRAUCH ARCHITECT, SHEBOYGAN, WISCONSIN, "STORAGE & OFFICE BUILDING WPSC SHEBOYGAN, WISCONSIN, SHEET NO. 1, DATED 12-20-31.
8. SB-515 THROUGH SB-519 WERE SURVEYED BY T.R. FOGARTY, WPSC SURVEY GROUP LETTER DATED AUGUST 8, 1996.
9. WELLS (MW-501 THROUGH MW-514) AND TEST PITS (TP-512A THROUGH TP-516) SURVEYED BY WPSC JANUARY 27, 2000. STORM SEWER, MANHOLE, AND CATCH BASIN LOCATIONS THAT COULD BE VISUALLY IDENTIFIED WERE SURVEYED BY WPSC 1-27-00, NOT ALL LOCATIONS COULD BE FOUND.
10. REPLACEMENT WELLS SURVEYED OCTOBER 7, 2003 BY WPSC, SHEBOYGAN COUNTY COORDINATE SYSTEM AND NGVD88.

SOLD TO CITY OF SHEBOYGAN I.R. 1547-70

FORMER WPSC PROPERTY LINE

SOLD TO NEMSCHOFF CHAIRS INC. DEC. 7, 1983 -W.O. 1558-83 RESERVING GAS PIPELINE EASEMENT OVER SOUTHERLY 20 FEET.

1956 WPSC PROPERTY LINE

RETAINED PIPELINE EASEMENT

NEW JERSEY AVENUE

CHAIRS, INC. NEMSCHOFF

MW-513

MW-512

ASPHALT PAVEMENT

OFFICES

STORAGE GARAGE

GARAGE/ WAREHOUSE

ASPHALT PAVEMENT

CONCRETE PAD

COAL TRACK

DOMESTIC COAL WELL

CONCRETE RAMP

TRACK DUMPER

WALK

MW-508

MW-509

ABANDONED LYONDELL D' DIA. DEEP WELL

ASPHALT PAVEMENT

MW-501B 582.55

MW-501AR

SHEBOYGAN RIVER

FORMER WATER INTAKE INLET FOR MGP FEED WATER

MW-514A

MW-514B 582.37

FORMER INTAKE SCREEN

FORMER POND

583

MW-504

MW-505

MW-502R

CONCRETE PUMP HOUSE

GAS CONTROL

MW-506A

MW-506B 583.25

MW-507

EXISTING GARAGE

PUBLIC AVENUE/JULSON COURT

WPSC PROPERTY

WISCONSIN CENTRAL RAILROAD

MW-511R

MW-503

MW-510R

BENCHMARK

DG-2

DG-3

DG-4

DG-5

WILDWOOD AVENUE

CITY OF SHEBOYGAN INCINERATOR ASH LANDFILL

FORMER TRIANGLE AUTO SALVAGE

0 50 100

SCALE IN FEET

LEGEND

582	PIEZOMETRIC SURFACE ELEVATION CONTOURS, FT (NGVD)
	GROUNDWATER FLOW DIRECTION
MW-501B 581.59	PIEZOMETER AND GROUNDWATER ELEVATION, FT (NGVD)
MW-501AR	MONITORING WELL
DG-3	MONITORING WELL (CITY OF SHEBOYGAN)
	APPROXIMATE LOCATION OF:
	FORMER MGP STRUCTURE
	EXISTING ABOVE GROUND BUILDING
	PROPERTY LINE
x	FENCE
	RAILROAD TRACKS
MGP	MANUFACTURED GAS PLANT
NGVD	NATIONAL GEODETIC VERTICAL DATUM

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7. PORTIONS OF DRAWING BY EDGAR A STUBENRAUCH ARCHITECT, SHEBOYGAN, WISCONSIN, "STORAGE & OFFICE BUILDING WPSC SHEBOYGAN, WISCONSIN, SHEET NO. 1, DATED 12-20-51.
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PIEZOMETRIC SURFACE ELEVATION CONTOURS NOVEMBER 23, 2004

SUPPLEMENTAL INVESTIGATION AND REMEDIAL DESIGN REPORT
FORMER WILDWOOD MANUFACTURED GAS PLANT SITE
WISCONSIN PUBLIC SERVICE CORPORATION
SHEBOYGAN, WISCONSIN

DRAWN BY:	RLH	DATE: 01/10/05
CHECKED BY:	EPK	DATE: 02/25/05
APPROVED BY:	LLP	DATE: 02/25/05
CAD FILE:	1358-31-B03.DWG	
REF FILE:	NONE	

Natural Resource Technology

PROJECT NO. 1358/3.1

FIGURE NO. 3

SOLD TO CITY OF SHEBOYGAN I.R. 1547-70

FORMER WPSC PROPERTY LINE

SOLD TO NEMSCHOFF CHAIRS INC.
DEC. 7, 1983 -W.O. 1558-83
RESERVING GAS PIPELINE EASEMENT
OVER SOUTHERLY 20 FEET.

1956 WPSC PROPERTY LINE

RETAINED PIPELINE EASEMENT

NEW JERSEY AVENUE

WILDWOOD AVENUE

SHEBOYGAN RIVER

PUBLIC AVENUE/JULSON COURT

WISCONSIN CENTRAL RAILROAD

CHAIRS, INC. NEMSCHOFF

WPSC PROPERTY

CITY OF SHEBOYGAN INCINERATOR ASH LANDFILL

FORMER TRIANGLE AUTO SALVAGE

ASPHALT PAVEMENT

STORAGE GARAGE

OFFICES

GARAGE/ WAREHOUSE

CONCRETE PAD

EXISTING GARAGE

FORMER WATER INTAKE INLET FOR MGP FEED WATER

FORMER INTAKE SCREEN

FORMER POND

ABANDONED FORMER 8" DIA. DEEP WELL

BENCHMARK

SCALE IN FEET
0 50 100

MW-513	BENZ	BAP	CHRYS	NAPH
02/03/00	<0.5	0.55	0.25	0.17
06/26/02	NA	NA	NA	NA
10/09/03	<0.30	0.058	0.072	<0.024
11/23/04	<0.14	0.13	0.13	0.034

MW-512	BENZ	BAP	CHRYS	NAPH
02/03/00	<0.5	<0.012	<0.056	<0.053
06/26/02	NA	NA	NA	NA
10/09/03	<0.30	NA	NA	NA
11/23/04	NA	NA	NA	NA

MW-508	BENZ	BAP	CHRYS	NAPH
02/03/00	<0.5	<0.013	0.5	1.2
06/26/02	NA	NA	NA	NA
10/09/03	<0.30	0.22	0.22	0.028
11/23/04	<0.14	0.35	0.29	0.037

MW-501A	BENZ	BAP	CHRYS	NAPH
02/03/00	<0.5	<0.012	<0.056	0.11
06/26/02	<0.45	0.014	<0.018	0.075
MW-501AR	BENZ	BAP	CHRYS	NAPH
10/09/03	<0.30	<0.014	<0.014	<0.024
11/23/04	0.15	<0.018	<0.017	<0.023

MW-514A	BENZ	BAP	CHRYS	NAPH
02/03/00	0.64	<0.013	<0.059	0.3
06/26/02	<0.45	0.039	<0.018	0.044
10/09/03	<0.30	<0.014	<0.014	<0.024
11/23/04	<0.14	<0.018	<0.016	0.024

MW-504	BENZ	BAP	CHRYS	NAPH
02/03/00	1.7	<0.012	<0.056	5.6
06/26/02	<0.45	<0.012	<0.018	0.076
10/09/03	5.9	0.042	0.045	22
11/23/04	0.40 Q	5	4.3	2.8

MW-505	BENZ	BAP	CHRYS	NAPH
02/03/00	82	2.1	12	6.0
06/26/02	17	0.24	0.45	0.66
10/09/03	57	0.76	1.8	3.0
11/23/04	<0.14	<0.018	<0.017	0.03

MW-509	BENZ	BAP	CHRYS	NAPH
02/03/00	<0.5	<0.012	<0.056	0.067
06/26/02	NA	NA	NA	NA
10/09/03	<0.30	<0.014	<0.014	<0.024
11/23/04	<0.14	<0.018	<0.016	0.027

MW-502	BENZ	BAP	CHRYS	NAPH
02/03/00	11	<0.012	<0.056	<0.053
06/26/02	NA	NA	NA	NA
MW-502R	BENZ	BAP	CHRYS	NAPH
10/09/03	0.86	0.044	0.080	0.37
11/23/04	30	0.035	0.045	0.11

MW-507	BENZ	BAP	CHRYS	NAPH
02/03/00	<0.5	<0.013	<0.059	0.21
06/26/02	<0.45	0.031	0.031	0.034
10/09/03	<0.30	0.028	0.038	0.047
11/23/04	<0.14	0.046	0.05	0.03

MW-506A	BENZ	BAP	CHRYS	NAPH
02/03/00	130	5.1	3.4	179
06/26/02	57	0.30	0.41	33
10/09/03	130	<28	<28	560
11/23/04	80	1	1.4	60

MW-511R	BENZ	BAP	CHRYS	NAPH
10/09/03	<0.30	<0.023	<0.023	<0.039
11/23/04	0.19	<0.018	0.018	0.03

MW-503	BENZ	BAP	CHRYS	NAPH
02/03/00	15	<0.013	<0.059	391
06/26/02	NA	NA	NA	NA
10/09/03	<0.30	0.040	10.13	2.5
11/23/04	<0.14	<0.018	0.029	0.17

MW-510	BENZ	BAP	CHRYS	NAPH
04/27/00	<0.5	<0.014	<0.064	<0.060
06/26/02	NA	NA	NA	NA
MW-510R	BENZ	BAP	CHRYS	NAPH
10/09/03	12	0.21	0.17	0.15
11/23/04	2.7	0.16	0.092	0.23

LEGEND

SAMPLE ID	BENZ	BAP	CHRYS	NAPH
DATE SAMPLED	BENZENE µg/L	BENZO(A)PYRENE µg/L	CHRYSENE µg/L	NAPHTHALENE µg/L

1) Concentrations that attain/exceed an NR 140 Preventive Action Limit (PAL) shown italicized/underlined.
2) Concentrations that attain/exceed an NR 140 Enforcement Standard (ES) are shown bold/underlined.
NA: Analysis was not performed
<0.30: Analyte was not detected above limit of detection (LOD) shown.

- BENZENE ES (5.0 µg/L) ISOCONCENTRATION CONTOUR
- BENZO(a)PYRENE ES (0.2 µg/L) ISOCONCENTRATION CONTOUR
- CHRYSENE ES (0.2 µg/L) ISOCONCENTRATION CONTOUR
- NAPHTHALENE ES (40 µg/L) ISOCONCENTRATION CONTOUR

NOTE: ISOCONCENTRATION CONTOURS BASED ON NOVEMBER 2004 DATA

- MW-501AR MONITORING WELL
- SB-501C (GW-501) SOIL BORING WITH GROUNDWATER SAMPLE
- DG-3 MONITORING WELL (CITY OF SHEBOYGAN)
- MW-501B PIEZOMETER

APPROXIMATE LOCATION OF:

- FORMER MGP STRUCTURE
- EXISTING ABOVE GROUND BUILDING
- PROPERTY LINE
- FENCE
- RAILROAD TRACKS
- MGP MANUFACTURED GAS PLANT

SOURCE NOTES:
1. PORTIONS OF THIS DRAWING WERE DEVELOPED FROM A SURVEY BY HINZZ & ASSOCIATES, INC., SHEBOYGAN, WISCONSIN, REGISTERED LAND SURVEYORS, JOB NO. D-2090, SEPTEMBER 19, 1995.
2. FORMER WPSC PROPERTY LINE AND RIVER LOCATIONS OBTAINED FROM WISCONSIN PUBLIC SERVICE CORPORATION, GAS PLANT PROPERTY MAP, DATED 5-16-56. SLOUGH, POND, INTAKE SCREEN, WATER LINE, AND YARD SEWER SYSTEM LOCATIONS ARE MODIFIED FROM DRAWINGS BY BYLLESBY ENGINEERING & MANAGEMENT CORPORATION, CHICAGO, "12" SEWER LINE & 8" WATER LINE CROSSINGS OF CHICAGO & NORTHWESTERN RAILWAY", CONT NO. 2948, NO. B-29899, DATED 9-18-29 AND "YARD SEWER SYSTEM", CONT NO. 2948, NO. A29257, DATED 7-22-29. FORMER STRUCTURES DEVELOPED FROM BYLLESBY ENGINEERING & MANAGEMENT CORPORATION, CHICAGO, "GENERAL ARRANGEMENT OF BY-PRODUCT COKE & GAS PLANT, CONT NO. 2948, NO. A28061, DATED 3-28-29. ALL DIMENSIONS TAKEN FROM EAST-WEST BUILDING REFERENCE LINE AND TRUE EAST-WEST, NORTH-SOUTH LINE. ALL CONT NO. 2948 DRAWINGS HAVE REVISIONS THROUGH 1930.
3. EDI SAMPLING LOCATIONS ARE REFERENCED IN AN EDI REPORT "SITE INVESTIGATION FORMER COAL GAS MANUFACTURING PLANT, WILDWOOD AVENUE, SHEBOYGAN, WISCONSIN" (1996).
4. CITY OF SHEBOYGAN ASH DISPOSAL LANDFILL SITE INFORMATION FROM MAP OBTAINED FROM WDNR FILE FID #460015930, WID 088579218, LANDFILL LICENSE #946. CITY OF SHEBOYGAN WELLS SURVEYED BY WPSC 1-27-00.
5. PORTIONS OF WPSC DRAWING "PLAN OF UNDERGROUND PIPING IN VICINITY OF COMPRESSOR BUILDING SHEBOYGAN GAS PLANT", DRAWING NO. 50-40030, DATED 9-12-54, REVISIONS THROUGH 1967.
6. PORTIONS OF WPSC DRAWING "GENERAL PLAN OF GAS PLANT PROPERTY AT SHEBOYGAN, WISCONSIN" DRAWING NO. 50-50029, FORMERLY DRAWING DD-84533, DATED 6-11-54, REVISIONS THROUGH 1979.
7. PORTIONS OF DRAWING BY EDGAR A STUBENRAUCH ARCHITECT, SHEBOYGAN, WISCONSIN, "STORAGE & OFFICE BUILDING WPSC SHEBOYGAN, WISCONSIN, SHEET NO. 1, DATED 12-20-51.
8. SB-515 THROUGH SB-518 WERE SURVEYED BY T.R. FOGARTY, WPSC SURVEY GROUP LETTER DATED AUGUST 8, 1998.
9. WELLS (MW-501 THROUGH MW-514) AND TEST PITS (TP-512A THROUGH TP-518) SURVEYED BY WPSC JANUARY 27, 2000. STORM SEWER, MANHOLE, AND CATCH BASIN LOCATIONS THAT COULD BE VISUALLY IDENTIFIED WERE SURVEYED BY WPSC 1-27-00, NOT ALL LOCATIONS COULD BE FOUND.
10. REPLACEMENT WELLS SURVEYED OCTOBER 7, 2003 BY WPSC, SHEBOYGAN COUNTY COORDINATE SYSTEM AND NGVD88.

DRAWN BY: RLH/TAS DATE: 02/22/05
CHECKED BY: EPK DATE: 02/25/05
APPROVED BY: LLP DATE: 02/25/05
CAD FILE: 1358-31-B04C.DWG
REF FILE: NONE

GROUNDWATER ISOCONCENTRATION MAP
NOVEMBER 2004
SUPPLEMENTAL INVESTIGATION AND REMEDIAL DESIGN REPORT
FORMER WILDWOOD MANUFACTURED GAS PLANT SITE
WISCONSIN PUBLIC SERVICE CORPORATION
SHEBOYGAN, WISCONSIN

Natural Resource Technology

PROJECT NO. 1358/3.1

FIGURE NO. 4

TABLES 1 THROUGH 4

Table 1. Groundwater Elevation Summary

Wisconsin Public Service - Former Sheboygan Manufactured Gas Plant Site
933 South Wildwood Avenue, Sheboygan, Wisconsin
BRRTS # 02-60-001016 / FID # 460027920

Well Construction Data	MW-501A		MW-501AR		MW-501B		MW-502		MW-502R		MW-503	
Well Depth from TOC (feet)	15.79				33.69		15.71				13.41	
Screen Length (feet)	10		10		5		10		10		10	
Surface Elev. (MSL)	588.6		588.5		588.5		589.3		589.12		589.93	
Top of Casing Elev. (MSL)	590.81		591.19		590.88		591.83		591.53		592.76	
Screen Top Elev. (MSL)	585.0		601.2		562.2		586.1		601.5		589.4	
Screen Bottom Elev. (MSL)	575.0		591.2		557.2		576.1		591.5		579.4	
Date	Depth to Water from TOC (feet)	Water Elevation (MSL)	Depth to Water from TOC (feet)	Water Elevation (MSL)	Depth to Water from TOC (feet)	Water Elevation (MSL)	Depth to Water from TOC (feet)	Water Elevation (MSL)	Depth to Water from TOC (feet)	Water Elevation (MSL)	Depth to Water from TOC (feet)	Water Elevation (MSL)
07/26/1995	8.34	582.47	--	--	8.14	582.74 *	8.82	583.01	--	--	6.48	586.28
08/15/1995	8.38	582.43	--	--	8.18	582.70 *	8.82	583.01	--	--	6.50	586.26
09/25/1995	9.12	581.69	--	--	8.57	582.31 *	9.43	582.40	--	--	7.31	585.45
05/05/1999	7.35	583.46	--	--	8.20	582.68 *	8.15	583.68	--	--	4.40	588.36
02/02/2000	9.38	581.43	--	--	9.31	581.57 *	9.67	582.16	--	--	7.38	585.38
05/03/2000	8.21	582.60	--	--	7.75	583.13 *	8.44	583.39	--	--	4.26	588.50
06/25/2002	8.28	582.53	Constructed 9/18/03		7.41	583.47 *	8.48	583.35	Constructed 9/18/03		Well couldn't be located	
10/09/2003	Abandoned 9/17/03		10.16	581.03	9.29	581.59 *	Abandoned 9/17/03		9.60	581.93	10.39	582.37
11/23/2004	--		9.43	581.76	8.33	582.55 *	--		8.88	582.65	8.20	584.56

Well Construction Data	MW-504		MW-505		MW-506A		MW-506B		MW-507		MW-508	
Well Depth from TOC (feet)	13.51		13.48		13.41		30.75		13.54		13.48	
Screen Length (feet)	10		10		10		5		10		10	
Surface Elev. (MSL)	590.6		589.6		589.13		589.11		589.4		589.09	
Top of Casing Elev. (MSL)	590.24		589.20		588.78		588.55		589.09		588.67	
Screen Top Elev. (MSL)	586.7		585.7		585.4		562.8		585.6		585.2	
Screen Bottom Elev. (MSL)	576.7		575.7		575.4		557.8		575.6		575.2	
Date	Depth to Water from TOC (feet)	Water Elevation (MSL)	Depth to Water from TOC (feet)	Water Elevation (MSL)	Depth to Water from TOC (feet)	Water Elevation (MSL)	Depth to Water from TOC (feet)	Water Elevation (MSL)	Depth to Water from TOC (feet)	Water Elevation (MSL)	Depth to Water from TOC (feet)	Water Elevation (MSL)
07/26/1995	6.65	583.59	5.66	583.54	5.09	583.69	5.09	583.46 *	5.65	583.44	5.43	583.24
08/15/1995	6.65	583.59	5.67	583.53	5.14	583.64	5.08	583.47 *	5.61	583.48	5.44	583.23
09/25/1995	7.37	582.87	6.31	582.89	5.74	583.04	5.68	582.87 *	6.16	582.93	5.94	582.73
05/05/1999	5.15	585.09	4.20	585.00	3.70	585.08	3.40	585.15 *	4.00	585.09	3.90	584.77
02/02/2000	7.22	583.02	8.39	580.81	6.00	582.78	5.71	582.84 *	6.20	582.89	6.15	582.52
05/03/2000	5.72	584.52	4.75	584.45	4.34	584.44	4.06	584.49 *	4.54	584.55	6.94	581.73
06/25/2002	5.35	584.89	4.44	584.76	4.00	584.78	3.42	585.13 *	4.17	584.92	4.19	584.48
10/09/2003	7.83	582.41	6.86	582.34	6.38	582.40	6.14	582.41 *	6.66	582.43	6.33	582.34
11/23/2004	7.00	583.24	6.00	583.20	5.55	583.23	5.30	583.25 *	5.72	583.37	5.45	583.22

Table 1. Groundwater Elevation Summary

Wisconsin Public Service - Former Sheboygan Manufactured Gas Plant Site
933 South Wildwood Avenue, Sheboygan, Wisconsin
BRRTS # 02-60-001016 / FID # 460027920

Well Construction Data	MW-509		MW-510		MW-510R		MW-511		MW-511R		MW-512	
Well Depth from TOC (feet)	13.57		13.41				17.96				13.13	
Screen Length (feet)	10		10		10		10		10		10	
Surface Elev. (MSL)	588.9		596.3		596.05		599.2		599.11		590.67	
Top of Casing Elev. (MSL)	588.58		596.10		598.61		601.72		601.91		590.25	
Screen Top Elev. (MSL)	585.0		592.7		608.6		593.8		611.9		587.1	
Screen Bottom Elev. (MSL)	575.0		582.7		598.6		583.8		601.9		577.1	
Date	Depth to Water from TOC (feet)	Water Elevation (MSL)	Depth to Water from TOC (feet)	Water Elevation (MSL)	Depth to Water from TOC (feet)	Water Elevation (MSL)	Depth to Water from TOC (feet)	Water Elevation (MSL)	Depth to Water from TOC (feet)	Water Elevation (MSL)	Depth to Water from TOC (feet)	Water Elevation (MSL)
07/26/1995	5.29	583.29	--	--	--	--	--	--	--	--	--	--
08/15/1995	5.23	583.35	--	--	--	--	--	--	--	--	--	--
09/25/1995	6.71	581.87	--	--	--	--	--	--	--	--	--	--
05/05/1999	3.15	585.43 *	Constructed 12/21/03		--	--	Constructed 12/21/03		--	--	Constructed 12/20/03	
02/02/2000	5.69	582.89	13.38	582.72	--	--	dry	< 583.8	--	--	11.38	578.87
05/03/2000	3.69	584.89	11.88	584.22	--	--	dry	< 583.8	--	--	Well couldn't be located	
06/25/2002	3.29	585.29 *	13.41	582.69	Constructed 9/18/ 03		dry	< 583.8	Constructed 9/18/ 03		Well couldn't be located	
10/09/2003	6.12	582.46	Abandoned 9/17/03		16.63	581.98	Abandoned 9/17/03		20.22	581.69	11.71	578.54
11/23/2004	5.25	583.33	--		15.55	583.06	--		19.50	582.41	Well couldn't be located	

Well Construction Data	MW-513		MW-514A		MW-514B	
Well Depth from TOC (feet)	16.62		17.05		37.39	
Screen Length (feet)	10		10		5	
Surface Elev. (MSL)	588.0		585.9		585.7	
Top of Casing Elev. (MSL)	590.69		588.42		588.17	
Screen Top Elev. (MSL)	584.1		581.4		555.8	
Screen Bottom Elev. (MSL)	574.1		571.4		550.8	
Date	Depth to Water from TOC (feet)	Water Elevation (MSL)	Depth to Water from TOC (feet)	Water Elevation (MSL)	Depth to Water from TOC (feet)	Water Elevation (MSL)
07/26/1995	--	--	--	--	--	--
08/15/1995	--	--	--	--	--	--
09/25/1995	--	--	--	--	--	--
05/05/1999	Constructed 12/21/99		Constructed 12/20/99		Constructed 12/20/99	
02/02/2000	7.93	582.76	7.58	580.84	7.58	580.59 *
05/03/2000	5.92	584.77 *	7.00	581.42 *	7.00	581.17 *
06/25/2002	5.85	584.84 *	6.49	581.93 *	6.49	581.68 *
10/09/2003	8.38	582.31	8.38	580.04	6.68	581.49 *
11/23/2004	7.18	583.51	7.40	581.02	5.80	582.37 *

[[I-PARAJII 1103][I-STB/2 12/04]

* : Water level elevation above top of screen elevation
TOC : Top of PVC well casing
-- : not measured
MW : Water table monitoring well
MSL: Elevations are referenced to feet above Mean Sea Level

Table 2. Groundwater Analytical Summary - PVOCs, Cyanide, and Sulfate

Wisconsin Public Service - Former Sheboygan Manufactured Gas Plant Site
933 South Wildwood Avenue, Sheboygan, Wisconsin
BRRTS # 02-60-001016 / FID # 460027920

Sample Location	Sample Date	PVOCs (µg/L)						Cyanide Species (mg/L)			(mg/L)
		Benzene	Ethylbenzene	Toluene	Xylenes	Trimethylbenzenes**	Methyl-tert-butyl-ether	Weak Acid Dissociable	Amenable	Total, dissolved	Sulfate (dissolved)
Wisconsin Groundwater Quality Standards (NR 140)											
Preventive Action Limit		0.5	140	200	1,000	96	12	0.04	ns	ns	125
Enforcement Standard		5	700	1,000	10,000	480	60	0.2	ns	ns	250
MW-501A	08/16/95	nd	nd	nd	nd	--	--	0.095	0.5	1.6	160
	09/26/95	nd	nd	nd	nd	--	--	0.43	0.13	3.1	200
	05/05/99	<0.13	<0.22	<0.20	<0.23	--	--	0.32	1.3	14	440
	02/03/00	<0.5	<0.6	<0.6	<1.7	--	--	0.051	1.2	1.2	82
	06/26/02	<0.45	<0.82	<0.68	<1.7	--	--	0.17 N	12	2.6 A	180
	10/09/03	Well Abandoned 9/17/2003									
MW-501AR	10/09/03	<0.30	<0.60	<0.58	<1.2	<0.66	<0.58	0.10	--	--	270
	11/23/04	0.15 Q	<0.40	<0.36	<0.74	<0.40	<0.36	0.19	--	--	--
Dup (QC-1)	11/23/04	0.14 Q	<0.40	<0.36	<0.74	<0.40	<0.36	0.11	--	--	270
MW-501B	08/16/95	nd	nd	nd	nd	--	--	0.014	0.037	0.037	37
	09/26/95	nd	nd	nd	nd	--	--	0.022	0.009	0.038	42
	05/05/99	<0.13	<0.22	<0.20	<0.23	--	--	0.013	<0.0077	0.023	35
	02/03/00	<0.5	<0.6	<0.6	<1.7	--	--	0.016	0.037	0.037	39
	06/26/02	--	--	--	--	--	--	0.0096 Q	0.033	0.044 A	--
	10/09/03	<0.30	<0.60	<0.58	<1.2	<0.66	<0.58	0.0090	--	--	--
	11/23/04	<0.14	<0.40	<0.36	<0.74	<0.40	<0.36	0.0075 Q	--	--	40
MW-502	08/16/95	11	nd	nd	nd	--	--	0.089	0.54	0.92	--
	09/26/95	1.4	nd	nd	nd	--	--	0.32	0.25	1.5	--
	05/05/99	35	0.23	0.22	0.56	--	--	0.16	0.1	1.1	580
	02/03/00	11	<0.6	<0.6	<1.7	--	--	0.21	1.5	1.5	862
	06/26/02	Not sampled or analyzed for these parameters during this event									
	10/09/03	Well Abandoned 9/17/2003									
MW-502R	10/09/03	0.86 Q	<0.60	<0.58	<1.2	<0.66	<0.58	0.039	--	--	910
	11/23/04	30	0.56 Q	1.0 Q	1.67 Q	<0.40	<0.36	0.021	--	--	410
dup (QC-2)	11/23/04	28	<0.40	0.59 Q	<0.74	<0.40	<0.36	0.023	--	--	430
MW-503	08/16/95	nd	370	200	2,000	--	--	0.25	0.4	1.4	--
	09/26/95	nd	1,800	1,200	6,300	--	--	0.74	2	3.3	--
	05/05/99	8.7	45	13	310	--	--	0.15	0.1	1.3	350
	02/03/00	15	73	13	255	--	--	0.42	1.5	1.5	1,710
	06/26/02	Not sampled or analyzed for these parameters during this event									
	10/09/03	<0.30	<0.60	<0.58	0.74 Q	<0.66	<0.58	0.017	--	--	1,000
	11/23/04	<0.14	<0.40	<0.36	<0.74	<0.40	<0.36	0.045	--	--	1,000
MW-504	08/16/95	1.2	nd	nd	nd	--	--	0.0063	0.032	0.081	20
	09/26/95	3.7	2.2	nd	6.3	--	--	0.079	0.052	0.17	34
	05/05/99	<0.13	<0.22	<0.20	<0.23	--	--	0.016	<0.0077	0.12	40
	02/03/00	1.7	<0.6	<0.6	<1.7	--	--	0.17	0.53	0.53	51
	06/26/02	<0.45	<0.82	<0.68	<1.7	--	--	<0.0084	0.15	0.15 A	--
	10/09/03	8.9	1.7 Q	1.5 Q	11.7	1.6 Q	<0.58	0.018	--	--	--
Dup (QC-2)	10/09/03	8.8	1.8 Q	1.4 Q	11.0 Q	1.5 Q	<0.58	0.010	--	--	--
	11/23/04	0.40 Q	<0.40	<0.36	<0.74	<0.40	<0.36	0.023	--	--	39
MW-505	08/16/95	17	15	nd	46	--	--	0.073	0.42	0.58	--
Dup (MW-598)	08/16/95	17	15	nd	47	--	--	0.063	0.31	0.31	--
	09/26/95	21	nd	nd	nd	--	--	0.29	0.14	0.66	--
Dup (MW-598)	09/26/95	20	nd	nd	nd	--	--	0.3	0.29	0.73	--
	05/05/99	5.0	0.28	<0.20	0.49	--	--	0.073	0.1	0.66	100
	02/03/00	82	<0.6	<0.6	<1.7	--	--	0.026	0.18	0.18	37
	06/26/02	17	<0.82	<0.68	<1.7	--	--	0.074	0.63	0.77	67
	10/09/03	57	1.4 Q	0.60 Q	0.90 Q	<0.66	<0.58	0.055	--	--	60
	11/23/04	<0.14	<0.40	<0.36	<0.74	<0.40	0.49 Q	0.063	--	--	59

Table 2. Groundwater Analytical Summary - PVOCs, Cyanide, and Sulfate

Wisconsin Public Service - Former Sheboygan Manufactured Gas Plant Site
933 South Wildwood Avenue, Sheboygan, Wisconsin
BRRTS # 02-60-001016 / FID # 460027920

Sample Location	Sample Date	PVOCs (µg/L)						Cyanide Species (mg/L)			(mg/L)
		Benzene	Ethylbenzene	Toluene	Xylenes	Trimethylbenzenes**	Methyl-tert-butyl-ether	Weak Acid Dissociable	Amenable	Total, dissolved	Sulfate (dissolved)
Wisconsin Groundwater Quality Standards (NR 140)											
Preventive Action Limit		0.5	140	200	1,000	96	12	0.04	ns	ns	125
Enforcement Standard		5	700	1,000	10,000	480	60	0.2	ns	ns	250
MW-506A	08/16/95	220	1,400	70	2,800	--	--	0.085	0.35	0.67	--
Dup (MW-599)	08/16/95	210	1,400	67	2,800	--	--	0.095	0.01	0.33	--
	09/26/95	150	900	24	1,100	--	--	0.59	0.32	0.99	--
Dup (MW-599)	09/26/95	150	870	nd	750	--	--	0.32	0.38	0.58	--
	05/05/99	31	16	1.8	9.1	--	--	0.11	0.047	0.97	240
	02/03/00	130	831	18	214	--	--	0.076	0.68	0.68	93
	06/26/02	57	63	1.1 Q	21.4	--	--	0.079	1.1	1.2	140
	10/09/03	130 K	86 K	<2.9 K	595 K	232 K	<2.9 K	0.015	--	--	64
	11/23/04	80 K	44 K	2.6 K	132 K	62 K	<0.72	0.048	--	--	71
MW-506B	08/16/95	nd	2.3	1.5	11	--	--	0.0065	0.042	0.042	--
	09/26/95	nd	nd	nd	nd	--	--	nd	nd	nd	--
	05/05/99	<0.13	<0.22	<0.20	<0.23	--	--	<0.0077	<0.0077	<0.0077	74
	02/03/00	<0.5	<0.6	<0.6	<1.7	--	--	<0.001	0.05	0.05	67
Dup (MW-99)	02/03/00	<0.5	<0.6	<0.6	<1.7	--	--	<0.001	<0.001	<0.001	66
	06/26/02	--	--	--	--	--	--	<0.0084	<0.0023	<0.0023	--
Dup (QA/QC 2)	06/26/02	--	--	--	--	--	--	<0.0084	<0.0023	<0.0023	--
	10/09/03	<0.30	<0.60	<0.58	<1.2	<0.66	0.60 Q	<0.0019	--	--	--
	11/23/04	<0.14	<0.40	<0.36	<0.74	<0.40	0.49 Q	<0.0053	--	--	51
MW-507	08/16/95	nd	nd	nd	nd	--	--	0.016	0.02	0.17	--
	09/26/95	nd	nd	nd	nd	--	--	0.085	0.003	0.13	--
	05/05/99	<0.13	<0.22	<0.20	<0.23	--	--	0.017	0.081	0.081	37
	02/03/00	<0.5	<0.6	<0.6	<1.7	--	--	0.004	0.045	0.045	27
	06/26/02	<0.45	<0.82	<0.68	<1.7	--	--	0.012 Q	0.071	0.19 A	72
	10/09/03	<0.30	<0.60	<0.58	<1.2	<0.66	<0.58	0.011	--	--	65
	11/23/04	<0.14	<0.40	<0.36	<0.74	<0.40	<0.36	0.0073 Q	--	--	44
MW-508	08/16/95	nd	nd	nd	nd	--	--	0.0089	0.07	0.07	1.9
	09/26/95	nd	nd	nd	nd	--	--	0.028	0.039	0.068	nd
	05/05/99	<0.13	<0.22	<0.20	<0.23	--	--	0.012	<0.0077	0.032	34
	02/03/00	<0.5	<0.6	<0.6	<1.7	--	--	0.005	0.029	0.029	<0.26
	06/26/02	--	--	--	--	--	--	0.010 Q	0.19	0.19 A	3.4 Q
	10/09/03	<0.30	<0.60	<0.58	<1.2	<0.66	<0.58	<0.0019 N	--	--	1.6 Q
	11/23/04	<0.14	<0.40	<0.36	<0.74	<0.40	<0.36	<0.0053	--	--	4.1
MW-509	08/16/95	nd	nd	nd	nd	--	--	nd	0.024	0.024	420
	09/26/95	nd	nd	nd	nd	--	--	0.015	0.01	0.029	370
	05/05/99	<0.13	<0.22	0.33	<0.23	--	--	<0.0077	<0.0077	0.012	600
	02/03/00	<0.5	<0.6	<0.6	<1.7	--	--	0.003	0.009	0.009	976
	06/26/02	--	--	--	--	--	--	<0.0084	0.0072 Q	0.0081	--
Dup (QA/QC 1)	06/26/02	--	--	--	--	--	--	<0.0084	0.0065 Q	0.0065 Q	--
	10/09/03	<0.30	<0.60	<0.58	<1.2	<0.66	<0.58	<0.0019	--	--	--
Dup (QC-01)	10/09/03	<0.30	<0.60	<0.58	<1.2	<0.66	<0.58	<0.0019	--	--	--
	11/23/04	<0.14	<0.40	<0.36	<0.74	<0.40	<0.36	<0.0053	--	--	290
MW-510	04/27/00	<0.5	<0.6	<0.6	<1.7	--	--	<0.001	<0.002	<0.002	228
	06/26/02	Not sampled or analyzed for these parameters during this event									
MW-510R	10/09/03	12	9.1	<0.58	2.19 Q	<0.66	<0.58	<0.0019	--	--	--
	11/23/04	2.7	1.1 Q	0.51 Q	2.9 Q	1.04 Q	<0.36	0.0094 Q	--	--	66
MW-511R	10/09/03	<0.30	<0.60	<0.58	<1.2	<0.66	<0.58	0.0026 Q	--	--	--
	11/23/04	0.19 Q	<0.40	<0.36	<0.74	<0.40	<0.36	0.0087 Q	--	--	50

Table 2. Groundwater Analytical Summary - PVOCs, Cyanide, and Sulfate

Wisconsin Public Service - Former Sheboygan Manufactured Gas Plant Site
933 South Wildwood Avenue, Sheboygan, Wisconsin
BRRTS # 02-60-001016 / FID # 460027920

Sample Location	Sample Date	PVOCs (µg/L)						Cyanide Species (mg/L)			(mg/L)
		Benzene	Ethylbenzene	Toluene	Xylenes	Trimethylbenzenes**	Methyl-tert-butyl-ether	Weak Acid Dissociable	Amenable	Total, dissolved	Sulfate (dissolved)
Wisconsin Groundwater Quality Standards (NR 140)											
Preventive Action Limit		*0.5*	*140*	*200*	*1,000*	*96*	*12*	*0.04*	ns	ns	*125*
Enforcement Standard		**5**	**700**	**1,000**	**10,000**	**480**	**60**	**0.2**	ns	ns	**250**
MW-512	12/21/99	*0.68*	<0.6	2.7	<1.7	--	--	--	--	--	--
	02/03/00	<0.5	<0.6	<0.6	<1.7	--	--	--	--	--	--
	06/26/02	Not sampled or analyzed for these parameters during this event									
	10/09/03	<0.30	<0.60	<0.58	<1.2	<0.66	<0.58	--	--	--	--
	11/23/04	Well could not be located during this sampling event.									
MW- 513	12/21/99	<0.5	<0.6	<0.6	<1.7	--	--	*0.14*	0.42	0.42	**816**
	02/03/00	<0.5	<0.6	<0.6	<1.7	--	--	*0.058*	0.43	0.43	**715**
	06/26/02	--	--	--	--	--	--	<0.0084	0.36	0.38 A	**400**
	10/09/03	<0.30	<0.60	<0.58	<1.2	<0.66	<0.58	0.0063 Q	--	--	*210*
	11/23/04	<0.14	<0.40	<0.36	<0.74	<0.40	<0.36	<0.0053	--	--	**400**
MW-514A	12/21/99	*0.5*	<0.6	<0.6	<1.7	--	--	nd	0.22	0.22	*138*
	02/03/00	*0.64*	<0.6	<0.6	<1.7	--	--	0.036	0.22	0.22	*128*
	06/26/02	<0.45	<0.82	<0.68	<1.7	--	--	<0.0084	0.0061 Q	0.0083	62
	10/09/03	<0.30	<0.60	<0.58	<1.2	<0.66	<0.58	0.0053 Q	--	--	*190*
	11/23/04	<0.14	<0.40	<0.36	<0.74	<0.40	<0.36	0.0097 Q	--	--	120
MW-514B	12/21/99	<0.5	<0.6	<0.6	<1.7	--	--	0.01	0.01	0.01	22
	02/03/00	<0.5	<0.6	<0.6	<1.7	--	--	0.012	0.005	0.005	13
Dup (MW-98)	02/03/00	<0.5	<0.6	<0.6	<1.7	--	--	--	--	--	--
	06/26/02	--	--	--	--	--	--	<0.0084	<0.0023	<0.0023	--
	10/09/03	<0.30	<0.60	<0.58	<1.2	<0.66	<0.58	<0.0019	--	--	--
	11/23/04	<0.14	<0.40	<0.36	<0.74	<0.40	<0.36	<0.0053	--	--	11

[JTB/JJC-10/02][C-PAR 10/03][U-PAR/LJH 11/03][JJT/JTB/? 12/04]

Notes/Qualifiers:

1) Concentrations that attain or exceed the NR 140 Preventive Action Limit (PAL) are italicized/underlined.
2) Concentrations that attain or exceed the NR 140 Enforcement Standard (ES) are bold/underlined.
PVOCs : Petroleum Volatile Organic Compounds.
-- : Analysis was not performed
< : Analyte was not detected above limit of detection (LOD) shown.
dup : Dup (MW-98): Field duplicate sample with field identification shown in parentheses.
nd : not detected
ns : NR 140 groundwater quality standard has not been established.
A : Laboratory note-Analyte detected in laboratory blank at 0.0029 mg/L.
K : Laboratory note-Detection limit may be elevated due to the presence of an unrequested analyte.
N : Laboratory note-Spiked sample recovery not within control limits.
Q : Laboratory note-Analyte was detected between the limit of detection (LOD) and the limit of quantitation (LOQ).

Table 3. Groundwater Analytical Summary - PAHs

Wisconsin Public Service - Former Sheboygan Manufactured Gas Plant Site
933 South Wildwood Avenue, Sheboygan, Wisconsin
BRRTS # 02-60-001016 / FID # 460027920

Sample Location	Sample Date	PAHs (ug/L) Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Benzo(ghi)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd) pyrene	1-Methyl naphthalene	2-Methyl naphthalene	Naphthalene	Phenanthrene	Pyrene	Total PAHs
Wisconsin Groundwater Quality Standards (NR 140)																				
Preventive Action Limit (PAL)		ns	ns	*600*	ns	*0.02*	ns	*0.02*	ns	*0.02*	ns	*80*	*80*	ns	ns	ns	*8*	ns	*50*	ns
Enforcement Standard (ES)		ns	ns	**3,000**	ns	**0.2**	ns	**0.2**	ns	**0.2**	ns	**400**	**400**	ns	ns	ns	**40**	ns	**250**	ns
Groundwater Monitoring Wells																				
MW-501A	08/16/95	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	--	--	nd	nd	nd	nd
	09/26/95	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	--	--	nd	nd	nd	nd
	05/05/99	<0.25	<0.62	<0.020	0.023	<0.048	<0.032	*0.053*	<0.11	*0.029*	<0.18	<0.11	<0.032	<0.093	<0.45	<0.67	<0.25	0.028	0.058	0.2
	02/03/00	<0.12	<0.14	<0.019	<0.11	<0.052	<0.11	<0.012	<0.069	<0.056	<0.064	<0.062	<0.11	<0.076	<0.077	<0.068	0.11	<0.043	<0.030	0.1
	06/26/02	0.076	0.036 Q	<0.020	<0.019	0.015 Q	0.013 Q	0.014 Q	<0.015	<0.018	<0.017	<0.028	<0.021	<0.014	<0.027	0.048 Q	0.075 Q	<0.019	<0.020	0.3
	10/09/03	Well Abandoned 9/17/2003																		
MW-501AR	10/09/03	0.064	0.047 Q	0.023 Q	<0.012	<0.013	<0.019	<0.014	<0.016	<0.014	<0.016	<0.013	<0.017	<0.021	0.022 Q	0.032 Q	<0.024	<0.016	<0.017	0.2
	11/23/04	<0.020	0.024 Q	0.037 Q	<0.020	<0.018	<0.020	<0.018	<0.021	<0.017	<0.022	0.025 Q	<0.022	<0.017	<0.020	<0.023	<0.023	<0.021	0.025 Q	0.1
Dup (QC-1)	11/23/04	<0.019	<0.019	0.033 Q	<0.020	<0.018	<0.019	<0.018	<0.021	<0.016	<0.022	<0.016	<0.022	<0.017	<0.020	<0.023	<0.022	<0.020	<0.016	0.0
MW-501B	08/16/95	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	--	--	nd	nd	nd	nd
	09/26/95	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	--	--	nd	nd	nd	nd
	05/05/99	<0.22	<0.56	<0.018	<0.017	<0.043	<0.029	<0.027	<0.010	<0.013	<0.16	<0.10	<0.029	<0.084	<0.40	<0.61	<0.22	<0.014	<0.047	nd
	02/03/00	<0.12	<0.13	<0.018	<0.10	<0.049	<0.10	<0.012	<0.065	<0.053	<0.060	<0.059	<0.10	<0.071	<0.073	<0.064	<0.050	<0.040	<0.029	nd
	06/26/02	Not sampled or analyzed for PAHs during this event																		
	10/09/03	<0.018	<0.019	<0.020	<0.012	<0.013	<0.019	<0.014	<0.016	<0.014	<0.016	<0.013	<0.017	<0.021	<0.018	<0.017	<0.024	<0.016	<0.017	nd
	11/23/04	<0.019	<0.019	<0.018	<0.020	<0.018	<0.019	<0.018	<0.021	<0.016	<0.022	<0.016	<0.022	<0.017	<0.020	<0.023	0.042 Q	<0.020	<0.016	0.04
MW-502	08/16/95	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	--	--	nd	nd	nd	nd
	09/26/95	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	--	--	nd	nd	nd	nd
	05/05/99	0.89	1.5	0.029	0.035	<0.044	<0.030	*0.079*	<0.10	*0.048*	<0.16	0.1	0.072	<0.085	<0.41	<0.61	<0.22	0.1	0.07	2.9
	02/03/00	<0.12	<0.14	<0.019	<0.11	<0.052	<0.11	<0.012	<0.069	<0.056	<0.064	<0.062	<0.11	<0.076	<0.077	<0.068	<0.053	<0.043	<0.030	nd
	06/26/02	Not sampled or analyzed for PAHs during this event																		
	10/09/03	Well Abandoned 9/17/2003																		
MW-502R	10/09/03	0.77	1.1	0.072 Q	0.070 Q	*0.077 Q*	0.068 Q	*0.044 Q*	0.063 Q	*0.080 Q*	<0.048	0.067 Q	0.20	<0.063	0.24	0.22	0.37	0.054 Q	0.090 Q	3.6
	11/23/04	0.91 D	2.2 D	0.070	0.046 Q	*0.042 Q*	0.048 Q	*0.035 Q*	0.035 Q	*0.045 Q*	<0.023	0.042 Q	0.075 Q	0.034 Q	0.36	0.034 Q	0.11	0.074	0.045 Q	4.2
Dup (QC-2)	11/23/04	0.84	2.3	<0.15	<0.17	<0.15	<0.16	<0.15	<0.17	<0.14	<0.19	<0.14	<0.18	<0.14	0.38 Q	<0.19	<0.19	<0.17	<0.14	3.5

Table 3. Groundwater Analytical Summary - PAHs

Wisconsin Public Service - Former Sheboygan Manufactured Gas Plant Site
933 South Wildwood Avenue, Sheboygan, Wisconsin
BRRTS # 02-60-001016 / FID # 460027920

Sample Location	Sample Date	PAHs (ug/L)																		
		Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Benzo(ghi)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd) pyrene	1-Methyl naphthalene	2-Methyl naphthalene	Naphthalene	Phenanthrene	Pyrene	Total PAHs
Wisconsin Groundwater Quality Standards (NR 140)																				
Preventive Action Limit (PAL)		ns	ns	*600*	ns	*0.02*	ns	*0.02*	ns	*0.02*	ns	*80*	*80*	ns	ns	ns	*8*	ns	*50*	ns
Enforcement Standard (ES)		ns	ns	**3,000**	ns	**0.2**	ns	**0.2**	ns	**0.2**	ns	**400**	**400**	ns	ns	ns	**40**	ns	**250**	ns
MW-503	08/16/95	nd	nd	0.5	1.4	*0.14*	0.18	**0.21**	0.4	**0.82**	nd	3.8	7.9	0.22	--	--	**3,500**	6.2	4.3	3,526
	09/26/95	nd	nd	0.42	1.7	*0.11*	0.31	**0.23**	0.53	**0.72**	nd	2.6	20	0.28	--	--	**5,900**	5.6	4.3	5,937
	05/05/99	3.0	<2.8	0.74	1.3	**0.2**	0.26	*0.12*	0.62	**0.48**	<0.16	4.1	14	0.43	280	300	**1,200**	11	1.3	1,818
	02/03/00	6.0	<0.15	<0.020	<0.11	**0.33**	<0.11	<0.013	<0.074	<0.059	<0.068	2.9	<0.11	<0.080	152	48	**391**	<0.045	2.5	603
	06/26/02	Not sampled or analyzed for PAHs during this event																		
	10/09/03	0.053 Q	0.063 Q	0.12	0.13	*0.092*	0.085	*0.040 Q*	0.083	*0.13*	0.021 Q	0.19	0.50 Q,D	0.087	2.4 D	0.49	2.5 D	0.22	0.31	7.5
	11/23/04	<0.019	0.027 Q	<0.018	0.031 Q	0.019 Q	0.021 Q	<0.018	<0.021	*0.029 Q*	<0.022	0.098	0.030 Q	<0.017	0.16	0.067 Q	0.17 B	0.069	0.086	0.8
MW-504	08/16/95	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	--	--	nd	nd	nd	nd
	09/26/95	nd	nd	nd	0.07	nd	nd	nd	nd	nd	nd	0.24	0.76	nd	--	--	6.3	0.46	0.24	8.1
	05/05/99	<0.22	<0.55	<0.018	<0.017	<0.043	<0.029	<0.027	<0.10	<0.013	<0.16	<0.10	<0.029	<0.083	<0.40	<0.60	<0.22	<0.014	<0.047	nd
	02/03/00	<0.12	<0.14	<0.019	<0.11	<0.052	<0.11	<0.012	<0.069	<0.056	<0.064	<0.062	<0.11	<0.076	0.47	<0.068	5.6	<0.043	<0.030	6.1
	06/26/02	<0.018	<0.023	0.036 Q	<0.019	<0.014	<0.013	<0.012	<0.015	<0.018	<0.017	<0.028	<0.021	<0.014	<0.027	<0.028	0.076 Q	<0.019	<0.020	0.1
	10/09/03	<1.8 D	<1.9 D	0.075	0.058	*0.033 Q*	0.032 Q	*0.042 Q*	0.024 Q	*0.045 Q*	<0.016	0.075	0.39	0.022 Q	4.2 Q,D	0.061	*25 D*	0.18	0.092	30
Dup (QC-02)	10/09/03	<1.8 D	<1.9 D	0.060 Q	0.026 Q	0.017 Q	<0.019	*0.020 Q*	<0.016	*0.022 Q*	<0.016	0.041 Q	0.39	<0.021	4.1 Q,D	0.068	*25 D*	0.14	0.043 Q	30
	11/23/04	6.8	9.1 D	6.5	6.9 Q	**3.0**	3.1	**5.0**	1.6	**4.3**	0.68 Q	18 D	10 D	1.7	4.0	<0.34	2.8	8.1 D	12 D	104
MW-505	08/16/95	nd	nd	19	2.9	nd	nd	nd	nd	nd	nd	48	*140*	nd	--	--	**1,100**	71	8.9	1,390
Dup (MW-598)	08/16/95	27	nd	3.5	1.2	**0.37**	0.31	**0.59**	0.64	**0.84**	nd	9.4	15	0.34	--	--	**1,100**	8.7	4.2	1,172
	09/26/95	nd	nd	23	4.6	*0.06*	0.15	**0.32**	nd	**0.98**	nd	33	*140*	nd	--	--	**750**	130	31	1,113
Dup (MW-598)	09/26/95	nd	nd	29	5.6	*0.08*	0.21	**0.46**	nd	**1.2**	nd	63	*180*	nd	--	--	**860**	160	8.8	1,308
	05/05/99	47	<11	120	100	**34**	22	**98**	63	**57**	11	*280*	64	50	8.4	190	*18*	180	*85*	1,427
	02/03/00	11	16	33	28	**13**	7.1	**2.1**	8.9	**12**	<0.64	54	36	3.2	16	8.8	6.0	64	43	362
	06/26/02	2.5	2.6	1.5	0.69 Q	<0.28	<0.26	**0.24 Q**	<0.30	**0.45 Q**	<0.34	3.5	4.5	<0.28	1.9	<0.56	0.66 Q	3.6	2.1	24
	10/09/03	6.3	4.8	4.6	2.4	<0.65	<0.95	**0.76 Q**	<0.80	**1.8 Q**	<0.80	10	14	<1.0	9.9	<0.85	5.0	17	8.3	85
	11/23/04	<0.020	0.044 Q	0.038 Q	0.020 Q	<0.018	<0.019	<0.018	<0.021	<0.017	<0.022	0.036 Q	0.022 Q	<0.017	<0.020	<0.023	0.030 Q, B	<0.21	0.031 Q	0.2

Table 3. Groundwater Analytical Summary - PAHs

Wisconsin Public Service - Former Sheboygan Manufactured Gas Plant Site
933 South Wildwood Avenue, Sheboygan, Wisconsin
BRRTS # 02-60-001016 / FID # 460027920

Sample Location	Sample Date	PAHs (ug/L)																		
		Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Benzo(ghi)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd) pyrene	1-Methyl naphthalene	2-Methyl naphthalene	Naphthalene	Phenanthrene	Pyrene	Total PAHs
Wisconsin Groundwater Quality Standards (NR 140)																				
Preventive Action Limit (PAL)		ns	ns	*600*	ns	*0.02*	ns	*0.02*	ns	*0.02*	ns	*80*	*80*	ns	ns	ns	*8*	ns	*50*	ns
Enforcement Standard (ES)		ns	ns	**3,000**	ns	**0.2**	ns	**0.2**	ns	**0.2**	ns	**400**	**400**	ns	ns	ns	**40**	ns	**250**	ns
MW-506A	08/16/95	nd	nd	3.7	1.0	**0.33**	0.29	**0.53**	0.56	**0.66**	nd	8.4	19	0.3	--	--	**2,300**	16	3.4	2,354
Dup (MW-599)	08/16/95	2.3	680	20	2.9	*0.15*	0.15	**0.34**	0.21	**0.73**	nd	43	*150*	0.13	--	--	**1,200**	100	8.9	2,209
	09/26/95	nd	nd	3.6	1.6	**0.24**	0.36	**0.6**	0.69	**0.71**	nd	9.1	7.6	0.41	--	--	**1,300**	16	3.4	1,344
Dup (MW-599)	09/26/95	nd	nd	3.1	0.89	*0.1*	0.2	**0.26**	nd	**0.36**	nd	6.6	7	nd	--	--	**1,200**	14	1.9	1,234
	05/05/99	21	<0.55	13	8.4	**2.6**	3.8	**5.9**	6.4	**4.4**	0.31	25	27	4.3	35	21	4.7	44	12	239
	02/03/00	11	<0.15	8.2	3.8	**4.5**	<0.11	**5.1**	1.2	**3.4**	<0.068	13	14	<0.080	55	0.46	**179**	17	8.9	325
	06/26/02	9.7	0.83 Q	2.4	0.60 Q	<0.28	<0.26	**0.30 Q**	<0.30	**0.41 Q**	<0.34	2.7	8.3 D	<0.28	13 D	<0.56	*33 D*	5.5	2.5	79
	10/09/03	<36	<38	<40	<24	<26	<38	<28	<32	<28	<32	<26	<34	<42	<36	<34	**560 N,D**	<32	<34	560
	11/23/04	3.0	1.2 Q	1.7	1.9	**0.79 Q**	0.97 Q	**1.0 Q**	0.53 Q	**1.4**	<0.44	4.2	3.5	0.52 Q	9.2 Q, D	1.6	**60 D**	4.4	3.7	100
MW-506B	08/16/95	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	--	--	nd	nd	nd	nd
	09/26/95	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	--	--	nd	nd	nd	nd
	05/05/99	<0.22	<0.55	<0.018	<0.017	<0.043	<0.029	<0.027	<0.10	<0.013	<0.16	<0.10	0.038	<0.083	0.18	<0.60	0.36	0.055	<0.047	0.6
	02/03/00	<0.12	<0.14	<0.019	<0.11	<0.052	<0.11	<0.012	<0.069	<0.056	<0.064	<0.062	<0.11	<0.076	<0.077	<0.068	<0.053	<0.043	<0.030	nd
Dup (MW-99)	02/03/00	<0.13	<0.15	<0.020	<0.11	<0.055	<0.11	<0.013	<0.074	*0.13*	<0.068	<0.066	<0.11	<0.080	<0.082	<0.072	0.24	0.08	<0.032	0.5
	06/26/02	Not sampled or analyzed for PAHs during this event																		
	10/09/03	<0.018	<0.019	<0.020	<0.012	<0.013	<0.019	<0.014	<0.016	<0.014	<0.016	<0.013	<0.017	<0.021	<0.018	<0.017	0.034 Q	<0.016	<0.017	0.03
	11/23/04	<0.019	<0.019	<0.018	<0.020	<0.018	<0.019	<0.018	<0.021	<0.016	<0.022	<0.016	<0.022	<0.017	<0.020	<0.023	0.036 Q, B	<0.020	<0.016	0.04
MW-507	08/16/95	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	--	--	nd	nd	nd	nd
	09/26/95	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	--	--	nd	nd	nd	nd
	05/05/99	0.66	<0.55	0.2	0.38	*0.14*	0.086	**0.33**	0.3	**0.23**	<0.16	0.89	0.096	0.24	<0.40	<0.60	<0.22	0.37	0.37	4.3
	02/03/00	<0.13	<0.15	0.16	1.5	**1.1**	0.14	<0.013	<0.074	<0.059	<0.068	1.0	<0.11	<0.080	<0.082	<0.072	0.21	0.31	0.46	4.9
	06/26/02	0.38	<0.023	0.027 Q	0.045 Q	*0.020 Q*	0.024 Q	*0.031 Q*	<0.015	*0.031 Q*	<0.017	0.082 Q	0.028 Q	0.016 Q	<0.027	<0.028	0.034 Q	0.038 Q	0.059 Q	0.8
	10/09/03	0.52 D	0.027 Q	0.030 Q	0.044	*0.022 Q*	0.027 Q	*0.028 Q*	0.017 Q	*0.038 Q*	<0.016	0.085	<0.017	<0.021	0.025 Q	<0.017	0.047 Q	0.044 Q	0.078	1.0
	11/23/04	0.13	0.028 Q	0.043 Q	0.069	*0.031 Q*	0.037 Q	*0.046 Q*	0.022 Q	*0.050 Q*	<0.022	0.15	<0.022	0.022 Q	<0.020	<0.023	0.030 Q, B	0.052 Q	0.11	0.8

Table 3. Groundwater Analytical Summary - PAHs

Wisconsin Public Service - Former Sheboygan Manufactured Gas Plant Site
933 South Wildwood Avenue, Sheboygan, Wisconsin
BRRTS # 02-60-001016 / FID # 460027920

Sample Location	Sample Date	PAHs (ug/L) Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Benzo(ghi)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd) pyrene	1-Methyl naphthalene	2-Methyl naphthalene	Naphthalene	Phenanthrene	Pyrene	Total PAHs
Wisconsin Groundwater Quality Standards (NR 140)																				
Preventive Action Limit (PAL)		ns	ns	*600*	ns	*0.02*	ns	*0.02*	ns	*0.02*	ns	*80*	*80*	ns	ns	ns	*8*	ns	*50*	ns
Enforcement Standard (ES)		ns	ns	**3,000**	ns	**0.2**	ns	**0.2**	ns	**0.2**	ns	**400**	**400**	ns	ns	ns	**40**	ns	**250**	ns
MW-508	08/16/95	nd	nd	nd	0.35	nd	nd	nd	nd	nd	nd	0.41	nd	nd	--	--	nd	nd	0.25	1.0
	09/26/95	nd	nd	nd	0.6	nd	nd	nd	nd	nd	nd	0.21	nd	nd	--	--	nd	nd	0.25	1.1
	05/05/99	0.39	<0.55	0.31	1.9	**0.53**	0.3	**1.7**	1.5	**0.7**	0.18	2.4	<0.029	1.2	<0.40	1.7	<0.22	0.89	1.0	15
	02/03/00	0.16	<0.15	0.91	<0.11	**2.4**	5.3	<0.013	1.8	**0.5**	0.35	4.7	<0.11	0.42	0.95	1.2	1.2	3.6	4.1	28
	06/26/02	Not sampled or analyzed for PAHs during this event																		
	10/09/03	0.022 Q	0.038 Q	0.064 Q	0.29	*0.19*	0.16	**0.22**	0.15	**0.22**	0.062	0.23	<0.017	0.15	0.024 Q	0.027 Q	0.028 Q	0.18	0.26	2.3
	11/23/04	<0.019	0.070	0.13	0.41	**0.25**	0.24	**0.35**	0.19	**0.29**	0.080	0.46	0.024 Q	0.19	0.037 Q	0.039 Q	0.037 Q, B	0.27	0.40	3.5
MW-509	08/16/95	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	--	--	nd	nd	nd	nd
	09/26/95	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	--	--	nd	nd	nd	nd
	05/05/99	<0.22	<0.55	<0.018	<0.017	<0.043	<0.029	<0.027	<0.10	<0.013	<0.16	<0.10	<0.029	<0.083	<0.40	<0.60	<0.22	<0.014	<0.047	nd
	02/03/00	<0.12	<0.14	<0.019	<0.11	<0.052	<0.11	<0.012	<0.069	<0.056	<0.064	<0.062	<0.11	<0.076	<0.077	<0.068	0.06	<0.043	<0.030	0.1
	06/26/02	Not sampled or analyzed for PAHs during this event																		
	10/09/03	<0.018	<0.019	<0.020	<0.012	<0.013	<0.019	<0.014	<0.016	<0.014	<0.016	<0.013	<0.017	<0.021	<0.018	<0.017	<0.024	<0.016	<0.017	nd
Dup (QC-01)	10/09/03	<0.018	<0.019	<0.020	<0.012	<0.013	<0.019	<0.014	<0.016	<0.014	<0.016	<0.013	<0.017	<0.021	<0.018	<0.017	<0.024	<0.016	<0.017	nd
	11/23/04	<0.019	<0.019	<0.018	<0.020	<0.018	<0.019	<0.018	<0.021	<0.016	<0.022	<0.016	<0.022	<0.017	<0.020	<0.023	0.027 Q, B	<0.020	<0.016	0.03
MW-510	04/27/00	<0.14	<0.16	<0.021	<0.12	<0.059	<0.12	<0.014	<0.080	<0.064	<0.073	<0.071	<0.12	<0.087	<0.089	<0.078	<0.060	<0.049	<0.035	nd
	06/26/02	Not sampled or analyzed for PAHs during this event																		
MW-510R	10/09/03	0.040 Q	0.36	<0.020	0.24	**0.21**	0.17	**0.21**	0.19	*0.17*	0.064	0.12	0.026 Q	0.20	0.20	0.027 Q	0.15	0.020 Q	0.17	2.6
	11/23/04	0.11	0.84 D	0.048 Q	0.12	*0.13*	0.13	*0.16*	0.18	*0.092*	0.065 Q	0.12	0.084	0.17	0.53 D	0.026 Q	0.23	0.031 Q	0.15	3.2
MW-511R	10/09/03	<0.029	<0.031	<0.032	<0.019	<0.021	<0.031	<0.023	<0.026	<0.023	<0.026	<0.021	<0.027	<0.034	0.071 Q	<0.027	<0.039	0.026 Q	<0.027	0.1
	11/23/04	<0.019	<0.019	0.019 Q	0.020 Q	<0.018	<0.019	<0.018	<0.021	0.018	<0.022	0.047 Q	<0.022	<0.017	<0.020	<0.023	0.030 Q, B	0.026 Q	0.039 Q	0.2
MW-512	02/03/00	<0.12	<0.14	<0.019	<0.11	<0.052	<0.11	<0.012	<0.069	<0.056	<0.064	<0.062	<0.11	<0.076	<0.077	<0.068	<0.053	<0.043	<0.030	nd
	06/26/02	Not sampled or analyzed for PAHs during this event																		
	10/09/03	Not enough water in well to collect PAH sample.																		
	11/23/04	Well could not be located during this sampling event.																		

Table 3. Groundwater Analytical Summary - PAHs

Wisconsin Public Service - Former Sheboygan Manufactured Gas Plant Site
933 South Wildwood Avenue, Sheboygan, Wisconsin
BRRTS # 02-60-001016 / FID # 460027920

Sample Location	Sample Date	PAHs (ug/L) Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Benzo(ghi)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd) pyrene	1-Methyl naphthalene	2-Methyl naphthalene	Naphthalene	Phenanthrene	Pyrene	Total PAHs
Wisconsin Groundwater Quality Standards (NR 140)																				
Preventive Action Limit (PAL)		ns	ns	*600*	ns	*0.02*	ns	*0.02*	ns	*0.02*	ns	*80*	*80*	ns	ns	ns	*8*	ns	*50*	ns
Enforcement Standard (ES)		ns	ns	**3,000**	ns	**0.2**	ns	**0.2**	ns	**0.2**	ns	**400**	**400**	ns	ns	ns	**40**	ns	**250**	ns
MW-508	08/16/95	nd	nd	nd	0.35	nd	nd	nd	nd	nd	nd	0.41	nd	nd	--	--	nd	nd	0.25	1.0
	09/26/95	nd	nd	nd	0.6	nd	nd	nd	nd	nd	nd	0.21	nd	nd	--	--	nd	nd	0.25	1.1
	05/05/99	0.39	<0.55	0.31	1.9	**0.53**	0.3	**1.7**	1.5	**0.7**	0.18	2.4	<0.029	1.2	<0.40	1.7	<0.22	0.89	1.0	15
	02/03/00	0.16	<0.15	0.91	<0.11	**2.4**	5.3	<0.013	1.8	**0.5**	0.35	4.7	<0.11	0.42	0.95	1.2	1.2	3.6	4.1	28
	06/26/02	Not sampled or analyzed for PAHs during this event																		
	10/09/03	0.022 Q	0.038 Q	0.064 Q	0.29	*0.19*	0.16	**0.22**	0.15	**0.22**	0.062	0.23	<0.017	0.15	0.024 Q	0.027 Q	0.028 Q	0.18	0.26	2.3
	11/23/04	<0.019	0.070	0.13	0.41	**0.25**	0.24	**0.35**	0.19	**0.29**	0.080	0.46	0.024 Q	0.19	0.037 Q	0.039 Q	0.037 Q, B	0.27	0.40	3.5
MW-509	08/16/95	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	--	--	nd	nd	nd	nd
	09/26/95	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	--	--	nd	nd	nd	nd
	05/05/99	<0.22	<0.55	<0.018	<0.017	<0.043	<0.029	<0.027	<0.10	<0.013	<0.16	<0.10	<0.029	<0.083	<0.40	<0.60	<0.22	<0.014	<0.047	nd
	02/03/00	<0.12	<0.14	<0.019	<0.11	<0.052	<0.11	<0.012	<0.069	<0.056	<0.064	<0.062	<0.11	<0.076	<0.077	<0.068	0.06	<0.043	<0.030	0.1
	06/26/02	Not sampled or analyzed for PAHs during this event																		
	10/09/03	<0.018	<0.019	<0.020	<0.012	<0.013	<0.019	<0.014	<0.016	<0.014	<0.016	<0.013	<0.017	<0.021	<0.018	<0.017	<0.024	<0.016	<0.017	nd
Dup (QC-01)	10/09/03	<0.018	<0.019	<0.020	<0.012	<0.013	<0.019	<0.014	<0.016	<0.014	<0.016	<0.013	<0.017	<0.021	<0.018	<0.017	<0.024	<0.016	<0.017	nd
	11/23/04	<0.019	<0.019	<0.018	<0.020	<0.018	<0.019	<0.018	<0.021	<0.016	<0.022	<0.016	<0.022	<0.017	<0.020	<0.023	0.027 Q, B	<0.020	<0.016	0.03
MW-510	04/27/00	<0.14	<0.16	<0.021	<0.12	<0.059	<0.12	<0.014	<0.080	<0.064	<0.073	<0.071	<0.12	<0.087	<0.089	<0.078	<0.060	<0.049	<0.035	nd
	06/26/02	Not sampled or analyzed for PAHs during this event																		
MW-510R	10/09/03	0.040 Q	0.36	<0.020	0.24	**0.21**	0.17	**0.21**	0.19	*0.17*	0.064	0.12	0.026 Q	0.20	0.20	0.027 Q	0.15	0.020 Q	0.17	2.6
	11/23/04	0.11	0.84 D	0.048 Q	0.12	*0.13*	0.13	*0.16*	0.18	*0.092*	0.065 Q	0.12	0.084	0.17	0.53 D	0.026 Q	0.23	0.031 Q	0.15	3.2
MW-511R	10/09/03	<0.029	<0.031	<0.032	<0.019	<0.021	<0.031	<0.023	<0.026	<0.023	<0.026	<0.021	<0.027	<0.034	0.071 Q	<0.027	<0.039	0.026 Q	<0.027	0.1
	11/23/04	<0.019	<0.019	0.019 Q	0.020 Q	<0.018	<0.019	<0.018	<0.021	0.018	<0.022	0.047 Q	<0.022	<0.017	<0.020	<0.023	0.030 Q, B	0.026 Q	0.039 Q	0.2
MW-512	02/03/00	<0.12	<0.14	<0.019	<0.11	<0.052	<0.11	<0.012	<0.069	<0.056	<0.064	<0.062	<0.11	<0.076	<0.077	<0.068	<0.053	<0.043	<0.030	nd
	06/26/02	Not sampled or analyzed for PAHs during this event																		
	10/09/03	Not enough water in well to collect PAH sample.																		
	11/23/04	Well could not be located during this sampling event.																		

Table 3. Groundwater Analytical Summary - PAHs

Wisconsin Public Service - Former Sheboygan Manufactured Gas Plant Site
933 South Wildwood Avenue, Sheboygan, Wisconsin
BRRTS # 02-60-001016 / FID # 460027920

Sample Location	Sample Date	PAHs (ug/L)																		
		Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Benzo(ghi)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd) pyrene	1-Methyl naphthalene	2-Methyl naphthalene	Naphthalene	Phenanthrene	Pyrene	Total PAHs
Wisconsin Groundwater Quality Standards (NR 140)																				
Preventive Action Limit (PAL)		ns	ns	*600*	ns	*0.02*	ns	*0.02*	ns	*0.02*	ns	*80*	*80*	ns	ns	ns	*8*	ns	*50*	ns
Enforcement Standard (ES)		ns	ns	**3,000**	ns	**0.2**	ns	**0.2**	ns	**0.2**	ns	**400**	**400**	ns	ns	ns	**40**	ns	**250**	ns
MW-513	12/21/99	<0.14	<0.16	0.65	<0.12	**0.27**	<0.12	<0.014	<0.079	<0.064	<0.073	0.32	<0.12	<0.086	<0.088	<0.077	<0.060	0.35	0.46	2.1
	02/03/00	<0.13	<0.15	0.29	0.32	**0.24**	0.36	**0.55**	0.35	**0.25**	<0.068	0.63	<0.11	0.3	<0.082	<0.072	0.17	0.78	0.48	4.7
	06/26/02	Not sampled or analyzed for PAHs during this event																		
	10/09/03	<0.018	<0.019	0.025 Q	0.087	*0.057*	0.056 Q	*0.068*	0.048 Q	*0.072*	0.017 Q	0.12	<0.017	0.040 Q	<0.018	<0.017	<0.024	0.076	0.10	0.8
	11/23/04	<0.020	0.038 Q	0.066	0.17	*0.091*	0.099	*0.13*	0.071	*0.13*	0.029 Q	0.30	<0.022	0.070	<0.020	<0.023	0.034 Q, B	0.16	0.22	1.6
MW-514A	12/21/99	<0.14	<0.16	0.37	<0.12	<0.059	<0.12	<0.014	<0.079	<0.064	<0.073	<0.071	<0.12	<0.086	<0.088	<0.077	<0.060	<0.048	<0.034	0.4
	02/03/00	0.55	1.2	<0.020	<0.11	<0.055	<0.11	<0.013	<0.074	<0.059	<0.068	<0.066	<0.11	<0.080	<0.082	<0.072	0.3	<0.045	<0.032	2.1
	06/26/02	0.055 Q	0.13	<0.020	<0.019	<0.014	<0.013	*0.039*	<0.015	<0.018	<0.017	<0.028	<0.021	<0.014	0.031 Q	0.035 Q	0.044 Q	<0.019	<0.020	0.3
	10/09/03	0.058 Q	0.35	<0.020	<0.012	<0.013	<0.019	<0.014	<0.016	<0.014	<0.016	<0.013	<0.017	<0.021	<0.018	<0.017	<0.024	<0.016	<0.017	0.4
	11/23/04	0.037 Q	0.16	<0.018	<0.020	<0.018	<0.019	<0.018	<0.021	<0.016	<0.022	<0.016	<0.022	<0.017	<0.020	<0.023	0.024 Q	<0.020	<0.016	0.4
MW-514B	12/21/99	<0.4	<0.46	<0.060	<0.34	<0.17	<0.34	<0.040	<0.22	<0.18	<0.21	<0.2	<0.34	<0.24	<0.25	<0.22	<0.17	<0.14	<0.097	nd
	02/03/00	<0.13	<0.15	<0.020	<0.11	<0.055	<0.11	<0.013	<0.074	<0.059	<0.068	<0.066	<0.11	<0.080	<0.082	<0.072	<0.056	<0.045	<0.032	nd
	06/26/02	Not sampled or analyzed for PAHs during this event																		
	10/09/03	<0.018	<0.019	<0.020	<0.012	<0.013	<0.019	<0.014	<0.016	<0.014	<0.016	<0.013	<0.017	<0.021	<0.018	<0.017	<0.024	<0.016	<0.017	nd
	11/23/04	<0.019	<0.019	<0.018	<0.020	<0.018	<0.019	<0.018	<0.021	<0.016	<0.022	<0.016	<0.022	<0.017	<0.020	<0.023	0.032 Q	<0.020	<0.016	0.03

[JTB/RJC-10/08/02][C-PAR 10/03][U-PAR/LJH 11/03][U-JTB/ 12/04]

Notes/Qualifiers:

PAHs : Polynuclear Aromatic Hydrocarbons.
1) Concentrations that attain/exceed an NR 140 Preventive Action Limit (PAL) shown italicized/underlined.
2) Concentrations that attain/exceed an NR 140 Enforcement Standard are shown bold/underlined.
-- : Analysis was not performed
< : Analyte was not detected above limit of detection (LOD) shown.
nd : not detected
ns : NR 140 groundwater quality standard has not been established.
A : Analyte detected in laboratory blank at 0.0029 mg/L.
D : Laboratory note-Analyte value from diluted analysis
N : Laboratory note-Spiked sample recovery not within control limits.
Q : Laboratory note-Analyte was detected between the limit of detection (LOD) and the limit of quantitation (LOQ).

Table 4. Groundwater Analytical Summary - Natural Attenuation Parameters

Wisconsin Public Service - Former Sheboygan Manufactured Gas Plant Site
933 South Wildwood Avenue, Sheboygan, Wisconsin
BRRTS # 02-60-001016 / FID # 460027920

		Laboratory Analytical Parameters (mg/L)						Field Parameters				
Well	**Date**	**Alkalinity**	**N-Nitrate + Nitrite**	**Iron, total**	**Iron, dissolved**	**Manganese, dissolved**	**Methane**	**pH (s.u.)**	**Temperature (°C)**	**Conductivity (µmhos/cm)**	**Dissolved Oxygen (ppm)**	**Redox Potential (mV)**
Wisconsin Groundwater Quality Standards (NR 140)												
Preventive Action Limit (PAL)		*ns*	*2*	*ns*	*0.15*	*0.025*	*ns*	*ns*	*ns*	*ns*	*ns*	*ns*
Enforcement Standard (ES)		**ns**	**10**	**ns**	**0.3**	**0.05**	**ns**	**ns**	**ns**	**ns**	**ns**	**ns**
MW-501A	05/05/99	220	17	5.4	4.1	--	--	6.83	12.86	0.029	10.46	260
	02/03/00 *	--	0.25	--	0.62	--	0.105	6.81	6.46	0.654	0.59	175
	06/26/02	--	46	--	1.3	--	<0.01	8.02	11.60	0.779	4.66	271
	10/09/03	Well abandoned 9/17/2003.										
MW-501AR	10/09/03	--	11	--	23	--	<0.01	9.24	13.26	0.769	2.57	100
	11/23/04	--	12	--	2.5	0.88	<0.01	--	--	--	--	--
dup (QC-1)	11/23/04	410	11	--	2.6	0.81	<0.01	--	--	--	--	--
MW-501B	05/05/99	180	<0.017	0.45	<0.024	--	--	6.95	10.82	0.028	11.55	267
	06/26/02	--	--	--	--	--	--	8.37	10.85	0.312	3.76	259
	10/09/03	--	--	--	--	--	--	9.44	13.04	0.270	2.20	103
	11/23/04	230	<0.063	--	0.078	0.046	0.025	--	--	--	--	--
MW-502	05/05/99	410	1.2	48	11	--	--	5.80	11.25	0.027	8.83	235
	02/03/00 *	--	1.3	--	1.5	--	0.105	--	--	--	--	--
	06/26/02	Not sampled or analyzed for these parameters during this event										
	10/09/03	Well abandoned 9/17/2003.										
MW-502R	10/09/03	--	2.5	--	78	--	0.078	9.32	12.73	1.279	1.99	92
	11/23/04	490	<0.063	--	98	1.2	0.16	7.46	11.15	2.193	4.52	249.6
dup (QC-2)	11/23/04	560	0.075 Q	--	6.4	0.46	0.16	--	--	--	--	--
MW-503	05/05/99	<50	0.14	180	190	--	--	7.87	10.84	0.029	9.25	35
	02/03/00 *	--	<0.069	--	316	--	0.014	6.17	8.5	1.623	0.69	131
	06/26/02	Not sampled or analyzed for these parameters during this event										
	10/09/03	--	0.076 Q	--	11	--	<0.010	9.18	13.72	1.141	0.36	113
	11/23/04	140	0.57	--	1.8	0.12	<0.010	7.72	10.78	1.824	7.90	229.7
MW-504	05/05/99	390	1.6	13	0.038	--	--	6.21	9.84	0.027	9.45	244
	06/26/02	--	--	--	--	--	--	8.14	12.66	0.640	3.95	245
	10/09/03	--	--	--	--	--	--	9.33	15.29	0.720	1.93	84
	10/09/03	--	--	--	--	--	--	--	--	--	--	--
	11/23/04	610	<0.063	--	0.68	0.40	0.23	7.77	12.65	1.429	4.69	142.9
MW-505	05/05/99	520	<0.017	22	3.4	--	--	6.07	11.54	0.027	7.67	247
	02/03/00 *	--	0.083	--	0.17	--	3.48	6.74	8.62	0.968	0.67	150
	06/26/02	--	<0.023	--	1.7	--	0.25	8.14	11.75	0.769	2.88	257
	10/09/03	--	0.082 Q	--	11	--	0.46	9.26	14.90	0.815	1.48	76
	11/23/04	660	0.11 Q	--	2.9	0.20	0.97	7.55	12.54	1.236	1.53	102.5
MW-506A	05/05/99	750	0.19	28	0.95	--	--	6.06	12.17	0.028	8.07	230
	02/03/00 *	--	0.075	--	1.5	--	0.0075	7.00	8.45	1.132	0.58	125
	06/26/02	--	<0.023	--	0.56	--	0.46	7.80	16.25	1.031	1.94	273
	10/09/03	--	0.064 Q	--	25	--	2.10	9.05	16.83	1.060	0.25	99
	11/23/04	720	0.72	--	5.5	0.40	1.50	7.46	14.06	1.863	3.16	121.6
MW-506B	05/05/99	450	<0.017	0.33	0.082	--	--	--	--	--	--	--
	06/26/02	--	--	--	--	--	--	8.08	13.75	0.750	2.16	278
	10/09/03	--	--	--	--	--	--	9.20	16.82	0.729	0.29	115
	11/23/04	470	<0.063	--	<0.017	0.32	<0.010	7.73	13.42	1.470	5.05	188.9
MW-507	05/05/99	390	0.24	11	1.1	--	--	7.48	10.05	0.028	6.9	219
	06/26/02	--	0.38	--	0.35	--	0.085	8.10	12.29	0.68	2.14	300
	10/09/03	--	0.21	--	16	--	0.065	9.42	14.39	0.585	0.41	118
	11/23/04	450	<0.063	--	4.6	0.53	0.093	7.64	12.48	1.092	2.14	93.7
MW-508	05/05/99	450	<0.017	15	1.6	--	--	7.19	10.32	0.028	6.04	182
	06/26/02	--	<0.023	--	1.4	--	2.0	7.92	14.41	0.700	0.01	310
	10/09/03	--	0.050 Q	--	43	--	1.00	9.01	15.30	0.692	2.73	111
	11/23/04	670	<0.063	--	6.2	0.45	0.82	7.37	13.94	1.277	2.9	97.8

Table 4. Groundwater Analytical Summary - Natural Attenuation Parameters

Wisconsin Public Service - Former Sheboygan Manufactured Gas Plant Site
933 South Wildwood Avenue, Sheboygan, Wisconsin
BRRTS # 02-60-001016 / FID # 460027920

Well	Date	Laboratory Analytical Parameters (mg/L)						Field Parameters				
		Alkalinity	N-Nitrate + Nitrite	Iron, total	Iron, dissolved	Manganese, dissolved	Methane	pH (s.u.)	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (ppm)	Redox Potential (mV)
Wisconsin Groundwater Quality Standards (NR 140)												
Preventive Action Limit (PAL)		*ns*	*2*	*ns*	*0.15*	*0.025*	*ns*	*ns*	*ns*	*ns*	*ns*	*ns*
Enforcement Standard (ES)		**ns**	**10**	**ns**	**0.3**	**0.05**	**ns**	**ns**	**ns**	**ns**	**ns**	**ns**
MW-509	05/05/99	450	0.59	25	<0.024	--	--	7.80	10.90	0.027	5.81	141
	06/26/02	--	--	--	--	--	--	7.96	14.55	0.732	1.29	280
	10/09/03	--	--	--	--	--	--	8.99	13.26	0.949	0.41	116
	10/09/03	--	--	--	--	--	--	--	--	--	--	--
	11/23/04	810	<0.063	--	7.7	0.75	0.069	7.45	11.6	1.477	3.19	136.2
MW-510R	10/09/03	--	--	--	--	--	--	9.35	13.13	1.214	0.36	97
	11/23/04	730	0.14 Q	--	3.4	0.67	0.032	7.5	12.39	2.382	3.14	230.2
MW-511R	10/09/03	--	--	--	--	--	--	9.27	15.04	1.724	0.53	122
	11/23/04	490	<0.063	--	2.3	0.71	0.025	7.78	11.2	1.371	4.54	162.3
MW-512	02/02/00	--	--	--	--	--	--	7.16	9.45	1.293	3.53	264
	06/26/02	Not sampled or analyzed for these parameters during this event										
	10/09/03	Well dry										
	11/23/04	Well could not be located during this sampling event.										
MW-513	02/03/00 *	--	0.07	--	3	--	0.041	7.16	7.16	0.935	0.78	208
	06/26/02	--	<0.023	--	0.72	--	0.024	8.05	13.17	0.770	1.18	298
	10/09/03	--	<0.24 C	--	1.6	--	0.16	9.28	12.47	0.583	0.58	121
	11/23/04	490	<0.063	--	1.6	0.19	<0.010	--	--	--	--	--
MW-514A	02/03/00 *	--	<0.069	--	0.44	--	0.0074	7.38	7.28	1.276	0.33	209
	06/26/02	--	<0.023	--	0.12	--	0.058	8.43	10.05	1.217	0.058	326
	10/09/03	--	<0.047	--	3.1	--	0.011	9.36	11.86	1.431	0.30	112
	11/23/04	410	<0.063	--	0.87	0.15	0.016	8.17	10.56	2.045	8.39	193.6
MW-514B	06/26/02	--	--	--	--	--	--	8.91	14.12	0.193	0.059	296
	10/09/03	--	--	--	--	--	--	9.04	12.50	0.174	0.770	119
	11/23/04	140	0.23	--	0.12	0.0032	<0.010	8.58	10.58	0.368	8.480	168

(U-JTB/RJC 10/08/02 C-PAR 10/03)(U-PAR/LJH 11/03)(U-JTB/I 12/04)

Notes:

1) Concentrations that attain or exceed the NR 140 Preventive Action Limit (PAL) are italicized/underlined.
2) Concentrations that attain or exceed the NR 140 Enforcement Standard (ES) are bold/underlined.
3) Conductivity measurements from the 02/03/00 sampling event converted from mmhos/cm to µmhos/cm.
4) Naphthalene present in Extraction blank at 0.0241 µg/L for the November 2004 sampling event.
Q : Laboratory note-Analyte was detected between the limit of detection (LOD) and the limit of quantitation (LOQ).
C: Laboratory note-Elevated detection limit.
* =Field parameters for February 2000 sampling event taken on 02/02/00.
-- = not analyzed

°C = Degrees Celsius
s.u.= standard units
ppm = parts per million
mV = millivolts
Redox = Oxidation / Reduction Potential
µmhos/cm = microhm per centimeter

APPENDIX A

FORM 4400 194
(PAGES GI 1, GI 2, GI 3, AND GW 3)

State of Wisconsin
Department of
Natural Resources

OPERATION, MAINTENANCE, MONITORING AND OPTIMIZATION REPORTING OF SOIL AND GROUNDWATER REMEDIATION SYSTEMS

PURPOSE AND APPLICABILITY OF THIS FORM: Completion of this form is required under s. NR 724.13(e), Wis. Adm. Code. Use of this form is mandatory. Failure to submit this form as require is a violation of s. NR 724.13, Wis. Adm. Code, and is subject to the penalties in s. 144.99, Wis. Stats. This form must be submitted every six months for active soil and groundwater remediation projects and every twelve months for passive (natural attenuation) remediation projects that are regulated under the NR 700 series of Wis. Adm. Code. Specifically, for sites meeting any of the following criteria:

- Soil or groundwater remediation projects that report progress in accordance with s. NR 700.11(1), Wis. Adm. Code.
- Soil or groundwater remediation projects that report progress in accordance with s. NR 724.13(3), Wis. Adm. Code. (Note: s. NR 724.13(3) requires progress reports for operation and maintenance of active systems to be submitted every three months however the Department considers submittal of this form every six months to satisfy the requirements of the rules, unless otherwise directed by the Department on a site specific basis.)
- Soil or groundwater remediation projects that report progress in accordance with s. NR 724.17(3), Wis. Adm. Code. (Note: s. NR 724.17(3) requires progress reports every time that samples are collected however the Department considers submittal of this form every twelve months to satisfy the requirements of the rules for monitoring natural attenuation, unless otherwise directed by the Department on a site specific basis.)

Submittal of this form is not a substitute for reporting required by Department programs such as Wastewater or Air Management. Personally identifiable information on this form is not intended to be used for any other purpose than tracking progress of the remediation by the Bureau for Remediation and Redevelopment.

Please refer to the instructions that are attached to the back of these forms starting on page INS-1. In all cases, when asked to "explain," those explanations are to be included on separate sheets of paper. Explanations must include a title that refers to the page and item number, for example: Page GI-2, C.1.a.

A. GENERAL INFORMATION:

1. Site name: Wisconsin Public Service Corporation (WPSC)
2. Reporting period from: 1/01/04 To: 12/31/04 Days in period: 366
3. Regulatory agency (enter DNR, DCOM, DATCP and/or other): WDNR
4. DNR issued site number: BRRTS #02-60-001016
5. State reimbursement fund claim number and fund name (if not applicable, enter NA): NA
6. Site location:
   a. DNR region and county: Southeast - Sheboygan County
   b. Street address and municipality: 933 S. Wildwood Avenue, Sheboygan
   c. Township, range, section and quarter quarter section: Sections 27 and 28, T15N, R23E
7. Responsible party:
   a. Name: Wisconsin Public Service Corporation (WPSC)
   b. Mailing address: 700 North Adams Street, P.O. Box 19002
      Green Bay, WI 54307-9002
   c. Phone number: 920.433.1396 (Ms. Shirley Scharff)
8. Consultant:
   a. Company name: Natural Resource Technology, Inc.
   b. Mailing address: 23713 W. Paul Rd., Suite D
      Pewaukee, WI 53072
   c. Phone number: 262.523.9000
9. Contaminants: MGP residuals (Benzene, naphthalene, and selected PAHs)
10. Soil types (USCS or USDA): ML and CL
11. Hydraulic conductivity (cm/sec): 3.0 E-6 to 2.0E-3
12. Average linear velocity of groundwater (ft/yr): 0.1 to 83

GENERAL SITE INFORMATION, CONTINUED

SITE NAME AND REPORTING PERIOD:

Site name: Wisconsin Public Service Corporation (WPSC)

Reporting period from: 1/01/04 To: 12/31/04 Days in period: 366

A. GENERAL INFORMATION (CONTINUED):

13. If soil is treated ex situ, is the treatment location off site? (Y/N) If yes, give location:

    a. DNR region and county: _____

    b. Township, range, section and quarter quarter section: _____

B. REMEDIATION METHOD: Only submit pages that apply to an individual site. Check all that apply:

_____ Groundwater extraction (submit a completed page GW-1).
_____ Free product recovery (submit a completed page GW-1).
_____ In situ air sparging (submit a completed page GW-2).
X Groundwater natural attenuation (submit a completed page GW-3).
_____ Other groundwater remediation method (submit a completed page GW-4).
_____ Soil venting (including soil vapor extraction and bioventing, submit a completed page IS-1).
_____ Soil natural attenuation (submit a completed page IS-2).
_____ Other in situ soil remediation method (submit a completed page IS-3).
_____ Biopiles (submit a completed page ES-1).
_____ Landspreading/thinspreading of petroleum contaminated soil (submit a completed page ES-2).
_____ Other ex situ soil remediation method (submit a completed page ES-3).

C. GENERAL EFFECTIVENESS EVALUATION FOR ALL ACTIVE SYSTEMS: If the remediation is active (not natural attenuation), complete this subsection.

1. Is the system operating at design rates and specifications? (Y/N): NA
   If the answer is no, explain whether or not modifications are necessary to achieve the goal that was previously established in design.
2. Are modifications to the system warranted to improve effectiveness? (Y/N) If yes, explain: _____
3. Is natural attenuation an effective low cost option at this time? (Y/N): Yes
4. Is closure sampling warranted at this time? (Y/N): No
5. Are there any modifications that can be made to the remediation to improve cost effectiveness? (Y/N) If yes, explain: No

D. ECONOMIC AND COST DATA TO DATE:

1. Total investigation costs ($): Over $160,000
2. Implementation costs (design, capital and installation costs, excluding investigation costs) ($): Approx. $70,000
3. Total costs during the previous reporting period ($): Less than $30,000
4. Total costs during this reporting period ($): Approx. $50,000
5. Total anticipated costs for the next reporting period ($): Under $30,000
6. Are any unusual or one-time costs listed in the reporting periods covered by D.3., D.4. or D.5. above? (Y/N) If yes explain: No
7. If close out is anticipated within 12 months, estimated costs for project closeout ($): Unknown

GENERAL SITE INFORMATION, CONTINUED

SITE NAME AND REPORTING PERIOD:

Site name: Wisconsin Public Service Corporation (WPSC)

Reporting period from: 1/01/04 To: 12/31/04 Days in period: 366

E. NAME(S), SIGNATURE(S) AND DATE OF PERSON(S) SUBMITTING FORM: Legibly print name, date and sign. Only persons qualified to submit reports under ch. NR 712 Wis. Adm. Code are to sign this form.

Registered Professional Engineers:

I (print name) _____, hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Signature, title, P.E. number and date: _____

Hydrogeologists:

I (print name) Eric P. Kovatch, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03(1), Wis. Adm. Code, and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

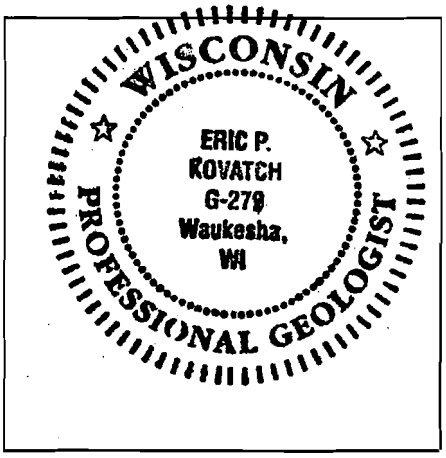
Signature, title and date: Eric P. Kovatch 3-14-05

Scientists:

I (print name) _____, hereby certify that I am a scientist as that term is defined in s. NR 712.03(3), Wis. Adm. Code, and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Signature, title and date: _____

Professional Seal(s), if applicable:



NATURAL ATTENUATION (PASSIVE BIOREMEDIATION) IN GROUNDWATER

SITE NAME AND REPORTING PERIOD:

Site name: Wisconsin Public Service Corporation (WPSC)

Reporting period from: 1/01/04 To: 12/31/04 Days in period: 366

A. EFFECTIVENESS EVALUATION:

1. If free product is not present, determine the single contaminant that requires the greatest percent reduction to achieve ch. NR 140 ES and PAL. Perform this calculation for all contaminants that were present at the site that have ch. NR 140 standards. Use the highest contaminant concentration measured in any sampling points during reporting period. If free product is present, write "FREE PRODUCT" in A.1.a.

   a. Contaminant: MGP residuals - Benzene, naphthalene, and few other PAHs (refer to page GI-1)

   b. Percent reduction necessary to reach ch. NR 140 ES and PAL: Benz - 94% to ES, 99% to PAL: Naph - 33% to ES, 87% to PAL

   c. Maximum contaminant concentration level in any monitoring well (µg/L): Benz @ 80, Naph @ 60 (well MW-506A)

2. Aquifer parameters:

   a. Hydraulic conductivity (cm/sec): 3.0 E-6 to 2.0E-3

   b. Groundwater average linear velocity (ft/yr): 0.01 to 83

3. Is there a downgradient monitoring well that meets ch. NR 140 standards (Y/N): Yes

4. Based on water chemistry results, is the plume expanding, stabilized or contracting: Generally Stable or Decreasing

5. If the answer in 4. (above) is "expanding," is natural attenuation still the best option? (Y/N) If yes, explain:

6. Biodegradation parameters:

   a. Upgradient (or other site specific background) DO level (mg/L): 2.1 & 3.2 (MW-507 & MW-509, Nov. 2004)

   b. DO levels in the part of the plume that is most heavily contaminated (mg/L): 1.5 & 3.2 (MW-505 & MW-506A, Nov. 2004)

7. Is site closure a viable option within 12 months from the date of this form? (Y/N): Yes (with further evaluation)

8. Are there any modifications that can improve cost effectiveness? (Y/N) If yes, explain: No

9. Have groundwater table fluctuations changed the contaminant level trends over time? (Y/N) If yes, explain): No

10. Has the direction of ground water flow changed during the reporting period? (Y/N) If yes, approximate change in degrees: No

B. ADDITIONAL ATTACHMENTS: Attach the following to this form:

- Groundwater contour map.
- Groundwater contaminant distribution map (may be combined with contour map).
- When contaminants are aerobically biodegradable, attach a dissolved oxygen in groundwater map (dissolved oxygen may be combined with the contaminant data on a single map).
- Graph of contaminant concentrations versus time for the contaminant listed in A.1.a. (above) for the monitoring point with the greatest level of contamination.
- Graph of contaminant concentrations versus distance.
- Groundwater contaminant chemistry table.
- Groundwater biological parameters.
- Groundwater elevations table.

APPENDIX B

LABORATORY ANALYTICAL REPORTS

En Chem
A Division of Pace Analytical Services, Inc.

Analytical Report Number: 853906

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : NATURAL RESOURCE TECHNOLOGY, INC.
Project Name : WPSC-WILDWOOD
Project Number : 1358
Field ID : TRIP BLANK

Matrix Type : WATER
Collection Date : 11/23/04
Report Date : 12/09/04
Lab Sample Number : 853906-019

PVOC — **Prep Date:** 11/30/04

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,2,4-Trimethylbenzene	<	0.39	0.39	1.3		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
1,3,5-Trimethylbenzene	<	0.40	0.40	1.3		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Benzene	<	0.14	0.14	0.46		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Ethylbenzene	<	0.40	0.40	1.3		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Methyl-tert-butyl-ether	<	0.36	0.36	1.2		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Toluene	<	0.36	0.36	1.2		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Xylene, o	<	0.36	0.36	1.2		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Xylenes, m + p	<	0.74	0.74	2.5		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
a,a,a-Trifluorotoluene		101				1	%Recov		11/30/04	SW846 5030B	SW846 M8021

En Chem

A Division of Pace Analytical Services, Inc.

Analytical Report Number: 853906

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : NATURAL RESOURCE TECHNOLOGY, INC.
Project Name : WPSC-WILDWOOD
Project Number : 1358
Field ID : QC-2

Matrix Type : WATER
Collection Date : 11/23/04
Report Date : 12/09/04
Lab Sample Number : 853906-018

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Iron - Dissolved	6400	17	55		1	ug/L		12/06/04	SW846 6010B	SW846 6010B
Manganese - Dissolved	460	0.14	0.48		1	ug/L		12/06/04	SW846 6010B	SW846 6010B
Alkalinity as CaCO3	560	17	56		2	mg/L		12/01/04	EPA 310.2	EPA 310.2
Cyanide, Weak & Dissociable -	0.023	0.0053	0.018		1	mg/L		12/06/04	SM 4500-CN	SM 4500-CN
Nitrogen, NO3 + NO2	0.075	0.063	0.21		1	mg/L	Q	12/07/04	EPA 353.2	EPA 353.2
Sulfate	430	3.6	12		10	mg/L		12/02/04	EPA 300.0	EPA 300.0

PVOC

Prep Date: 12/01/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,2,4-Trimethylbenzene	< 0.39	0.39	1.3		1	ug/L		12/01/04	SW846 5030B	SW846 M8021
1,3,5-Trimethylbenzene	< 0.40	0.40	1.3		1	ug/L		12/01/04	SW846 5030B	SW846 M8021
Benzene	28	0.14	0.46		1	ug/L		12/01/04	SW846 5030B	SW846 M8021
Ethylbenzene	< 0.40	0.40	1.3		1	ug/L		12/01/04	SW846 5030B	SW846 M8021
Methyl-tert-butyl-ether	< 0.36	0.36	1.2		1	ug/L		12/01/04	SW846 5030B	SW846 M8021
Toluene	0.59	0.36	1.2		1	ug/L	Q	12/01/04	SW846 5030B	SW846 M8021
Xylene, o	< 0.36	0.36	1.2		1	ug/L		12/01/04	SW846 5030B	SW846 M8021
Xylenes, m + p	< 0.74	0.74	2.5		1	ug/L		12/01/04	SW846 5030B	SW846 M8021
a,a,a-Trifluorotoluene	102				1	%Recov		12/01/04	SW846 5030B	SW846 M8021

METHANE

Prep Date: 12/02/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Methane	160			10	1	ug/L		12/02/04	SW846 M8015	SW846 M8015

PAH/ PNA

Prep Date: 11/30/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	0.38	0.17	0.56		8	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
2-Methylnaphthalene	< 0.19	0.19	0.64		8	ug/L		12/02/04	SW846 3510C	8270C-SIM
Acenaphthene	0.84	0.16	0.55		8	ug/L		12/02/04	SW846 3510C	8270C-SIM
Acenaphthylene	2.3	0.16	0.55		8	ug/L		12/02/04	SW846 3510C	8270C-SIM
Anthracene	< 0.15	0.15	0.50		8	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(a)anthracene	< 0.17	0.17	0.55		8	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(a)pyrene	< 0.15	0.15	0.51		8	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene	< 0.15	0.15	0.51		8	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(ghi)perylene	< 0.17	0.17	0.58		8	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene	< 0.16	0.16	0.55		8	ug/L		12/02/04	SW846 3510C	8270C-SIM
Chrysene	< 0.14	0.14	0.46		8	ug/L		12/02/04	SW846 3510C	8270C-SIM
Dibenz(a,h)anthracene	< 0.19	0.19	0.62		8	ug/L		12/02/04	SW846 3510C	8270C-SIM
Fluoranthene	< 0.14	0.14	0.47		8	ug/L		12/02/04	SW846 3510C	8270C-SIM
Fluorene	< 0.18	0.18	0.61		8	ug/L		12/02/04	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene	< 0.14	0.14	0.48		8	ug/L		12/02/04	SW846 3510C	8270C-SIM
Naphthalene	< 0.19	0.19	0.63		8	ug/L		12/02/04	SW846 3510C	8270C-SIM
Phenanthrene	< 0.17	0.17	0.58		8	ug/L		12/02/04	SW846 3510C	8270C-SIM
Pyrene	< 0.14	0.14	0.46		8	ug/L		12/02/04	SW846 3510C	8270C-SIM
Nitrobenzene-d5	108				8	%Recov		12/02/04	SW846 3510C	8270C-SIM
2-Fluorobiphenyl	84				8	%Recov		12/02/04	SW846 3510C	8270C-SIM
Terphenyl-d14	78				8	%Recov		12/02/04	SW846 3510C	8270C-SIM

En Chem

A Division of Pace Analytical Services, Inc.

Analytical Report Number: 853906

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : NATURAL RESOURCE TECHNOLOGY, INC.
Project Name : WPSC-WILDWOOD
Project Number : 1358
Field ID : QC-1

Matrix Type : WATER
Collection Date : 11/23/04
Report Date : 12/09/04
Lab Sample Number : 853906-017

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Iron - Dissolved	2600	17	55		1	ug/L		12/06/04	SW846 6010B	SW846 6010B
Manganese - Dissolved	810	0.14	0.48		1	ug/L		12/06/04	SW846 6010B	SW846 6010B
Alkalinity as CaCO3	410	8.3	28		1	mg/L		12/01/04	EPA 310.2	EPA 310.2
Cyanide, Weak & Dissociable -	0.11	0.0053	0.018		1	mg/L		12/06/04	SM 4500-CN	SM 4500-CN
Nitrogen, NO3 + NO2	11	0.31	1.0		5	mg/L		12/07/04	EPA 353.2	EPA 353.2
Sulfate	270	1.8	6.0		5	mg/L		12/02/04	EPA 300.0	EPA 300.0

PVOC

Prep Date: 12/01/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,2,4-Trimethylbenzene	< 0.39	0.39	1.3		1	ug/L		12/01/04	SW846 5030B	SW846 M8021
1,3,5-Trimethylbenzene	< 0.40	0.40	1.3		1	ug/L		12/01/04	SW846 5030B	SW846 M8021
Benzene	0.14	0.14	0.46		1	ug/L	Q	12/01/04	SW846 5030B	SW846 M8021
Ethylbenzene	< 0.40	0.40	1.3		1	ug/L		12/01/04	SW846 5030B	SW846 M8021
Methyl-tert-butyl-ether	< 0.36	0.36	1.2		1	ug/L		12/01/04	SW846 5030B	SW846 M8021
Toluene	< 0.36	0.36	1.2		1	ug/L		12/01/04	SW846 5030B	SW846 M8021
Xylene, o	< 0.36	0.36	1.2		1	ug/L		12/01/04	SW846 5030B	SW846 M8021
Xylenes, m + p	< 0.74	0.74	2.5		1	ug/L		12/01/04	SW846 5030B	SW846 M8021
a,a,a-Trifluorotoluene	102				1	%Recov		12/01/04	SW846 5030B	SW846 M8021

METHANE

Prep Date: 12/02/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Methane	< 10			10	1	ug/L		12/02/04	SW846 M8015	SW846 M8015

PAH/ PNA

Prep Date: 11/30/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	< 0.020	0.020	0.066		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
2-Methylnaphthalene	< 0.023	0.023	0.076		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Acenaphthene	< 0.019	0.019	0.065		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Acenaphthylene	< 0.019	0.019	0.064		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Anthracene	0.033	0.018	0.059		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Benzo(a)anthracene	< 0.020	0.020	0.065		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(a)pyrene	< 0.018	0.018	0.060		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene	< 0.018	0.018	0.060		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(ghi)perylene	< 0.021	0.021	0.069		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene	< 0.019	0.019	0.064		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Chrysene	< 0.016	0.016	0.055		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Dibenz(a,h)anthracene	< 0.022	0.022	0.073		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Fluoranthene	< 0.016	0.016	0.055		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Fluorene	< 0.022	0.022	0.073		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene	< 0.017	0.017	0.057		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Naphthalene	< 0.022	0.022	0.075		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Phenanthrene	< 0.020	0.020	0.068		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Pyrene	< 0.016	0.016	0.054		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Nitrobenzene-d5	108				1	%Recov		12/02/04	SW846 3510C	8270C-SIM
2-Fluorobiphenyl	76				1	%Recov		12/02/04	SW846 3510C	8270C-SIM
Terphenyl-d14	66				1	%Recov		12/02/04	SW846 3510C	8270C-SIM

En Chem
A Division of Pace Analytical Services, Inc.

Analytical Report Number: 853906

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : NATURAL RESOURCE TECHNOLOGY, INC.
Project Name : WPSC-WILDWOOD
Project Number : 1358
Field ID : MW-514B

Matrix Type : WATER
Collection Date : 11/23/04
Report Date : 12/09/04
Lab Sample Number : 853906-016

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Iron - Dissolved	120	17	55		1	ug/L		12/06/04	SW846 6010B	SW846 6010B
Manganese - Dissolved	3.2	0.14	0.48		1	ug/L		12/06/04	SW846 6010B	SW846 6010B
Alkalinity as CaCO3	140	8.3	28		1	mg/L		12/01/04	EPA 310.2	EPA 310.2
Cyanide, Weak & Dissociable -	< 0.0053	0.0053	0.018		1	mg/L		12/06/04	SM 4500-CN	SM 4500-CN
Nitrogen, NO3 + NO2	0.23	0.063	0.21		1	mg/L		12/07/04	EPA 353.2	EPA 353.2
Sulfate	11	0.36	1.2		1	mg/L		11/30/04	EPA 300.0	EPA 300.0

PVOC

Prep Date: 12/01/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,2,4-Trimethylbenzene	< 0.39	0.39	1.3		1	ug/L		12/01/04	SW846 5030B	SW846 M8021
1,3,5-Trimethylbenzene	< 0.40	0.40	1.3		1	ug/L		12/01/04	SW846 5030B	SW846 M8021
Benzene	< 0.14	0.14	0.46		1	ug/L		12/01/04	SW846 5030B	SW846 M8021
Ethylbenzene	< 0.40	0.40	1.3		1	ug/L		12/01/04	SW846 5030B	SW846 M8021
Methyl-tert-butyl-ether	< 0.36	0.36	1.2		1	ug/L		12/01/04	SW846 5030B	SW846 M8021
Toluene	< 0.36	0.36	1.2		1	ug/L		12/01/04	SW846 5030B	SW846 M8021
Xylene, o	< 0.36	0.36	1.2		1	ug/L		12/01/04	SW846 5030B	SW846 M8021
Xylenes, m + p	< 0.74	0.74	2.5		1	ug/L		12/01/04	SW846 5030B	SW846 M8021
a,a,a-Trifluorotoluene	102				1	%Recov		12/01/04	SW846 5030B	SW846 M8021

METHANE

Prep Date: 12/02/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Methane	< 10			10	1	ug/L		12/02/04	SW846 M8015	SW846 M8015

PAH/ PNA

Prep Date: 11/30/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	< 0.020	0.020	0.066		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
2-Methylnaphthalene	< 0.023	0.023	0.076		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Acenaphthene	< 0.019	0.019	0.065		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Acenaphthylene	< 0.019	0.019	0.064		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Anthracene	< 0.018	0.018	0.059		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(a)anthracene	< 0.020	0.020	0.065		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(a)pyrene	< 0.018	0.018	0.060		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene	< 0.018	0.018	0.060		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(ghi)perylene	< 0.021	0.021	0.069		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene	< 0.019	0.019	0.064		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Chrysene	< 0.016	0.016	0.055		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Dibenz(a,h)anthracene	< 0.022	0.022	0.073		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Fluoranthene	< 0.016	0.016	0.055		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Fluorene	< 0.022	0.022	0.073		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene	< 0.017	0.017	0.057		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Naphthalene	0.032	0.022	0.075		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Phenanthrene	< 0.020	0.020	0.068		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Pyrene	< 0.016	0.016	0.054		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Nitrobenzene-d5	85				1	%Recov		12/02/04	SW846 3510C	8270C-SIM
2-Fluorobiphenyl	68				1	%Recov		12/02/04	SW846 3510C	8270C-SIM
Terphenyl-d14	81				1	%Recov		12/02/04	SW846 3510C	8270C-SIM

En Chem

A Division of Pace Analytical Services, Inc.

Analytical Report Number: 853906

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : NATURAL RESOURCE TECHNOLOGY, INC.
Project Name : WPSC-WILDWOOD
Project Number : 1358
Field ID : MW-514A

Matrix Type : WATER
Collection Date : 11/23/04
Report Date : 12/09/04
Lab Sample Number : 853906-015

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Iron - Dissolved	870	17	55		1	ug/L		12/06/04	SW846 6010B	SW846 6010B
Manganese - Dissolved	150	0.14	0.48		1	ug/L		12/06/04	SW846 6010B	SW846 6010B
Alkalinity as CaCO3	410	8.3	28		1	mg/L		12/01/04	EPA 310.2	EPA 310.2
Cyanide, Weak & Dissociable -	0.0097	0.0053	0.018		1	mg/L	Q	12/06/04	SM 4500-CN	SM 4500-CN
Nitrogen, NO3 + NO2	< 0.063	0.063	0.21		1	mg/L		12/07/04	EPA 353.2	EPA 353.2
Sulfate	120	1.8	6.0		5	mg/L		11/30/04	EPA 300.0	EPA 300.0

PVOC

Prep Date: 11/30/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,2,4-Trimethylbenzene	< 0.39	0.39	1.3		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
1,3,5-Trimethylbenzene	< 0.40	0.40	1.3		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Benzene	< 0.14	0.14	0.46		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Ethylbenzene	< 0.40	0.40	1.3		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Methyl-tert-butyl-ether	< 0.36	0.36	1.2		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Toluene	< 0.36	0.36	1.2		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Xylene, o	< 0.36	0.36	1.2		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Xylenes, m + p	< 0.74	0.74	2.5		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
a,a,a-Trifluorotoluene	102				1	%Recov		11/30/04	SW846 5030B	SW846 M8021

METHANE

Prep Date: 12/02/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Methane	16			10	1	ug/L		12/02/04	SW846 M8015	SW846 M8015

PAH/ PNA

Prep Date: 11/30/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	< 0.020	0.020	0.066		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
2-Methylnaphthalene	< 0.023	0.023	0.076		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Acenaphthene	0.037	0.019	0.065		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Acenaphthylene	0.16	0.019	0.064		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Anthracene	< 0.018	0.018	0.059		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(a)anthracene	< 0.020	0.020	0.065		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(a)pyrene	< 0.018	0.018	0.060		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene	< 0.018	0.018	0.060		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(ghi)perylene	< 0.021	0.021	0.069		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene	< 0.019	0.019	0.064		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Chrysene	< 0.016	0.016	0.055		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Dibenz(a,h)anthracene	< 0.022	0.022	0.073		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Fluoranthene	< 0.016	0.016	0.055		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Fluorene	< 0.022	0.022	0.073		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene	< 0.017	0.017	0.057		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Naphthalene	0.024	0.022	0.075		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Phenanthrene	< 0.020	0.020	0.068		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Pyrene	< 0.016	0.016	0.054		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Nitrobenzene-d5	103				1	%Recov		12/02/04	SW846 3510C	8270C-SIM
2-Fluorobiphenyl	71				1	%Recov		12/02/04	SW846 3510C	8270C-SIM
Terphenyl-d14	51				1	%Recov		12/02/04	SW846 3510C	8270C-SIM

En Chem

A Division of Pace Analytical Services, Inc.

Analytical Report Number: 853906

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : NATURAL RESOURCE TECHNOLOGY, INC.
Project Name : WPSC-WILDWOOD
Project Number : 1358
Field ID : MW-501AR

Matrix Type : WATER
Collection Date : 11/23/04
Report Date : 12/09/04
Lab Sample Number : 853906-014

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Iron - Dissolved	2500	17	55		1	ug/L		12/06/04	SW846 6010B	SW846 6010B
Manganese - Dissolved	880	0.14	0.48		1	ug/L		12/06/04	SW846 6010B	SW846 6010B
Cyanide, Weak & Dissociable -	0.19	0.0053	0.018		1	mg/L		12/06/04	SM 4500-CN	SM 4500-CN
Nitrogen, NO3 + NO2	12	0.31	1.0		5	mg/L		12/07/04	EPA 353.2	EPA 353.2

PVOC

Prep Date: 11/30/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,2,4-Trimethylbenzene	< 0.39	0.39	1.3		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
1,3,5-Trimethylbenzene	< 0.40	0.40	1.3		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Benzene	0.15	0.14	0.46		1	ug/L	Q	11/30/04	SW846 5030B	SW846 M8021
Ethylbenzene	< 0.40	0.40	1.3		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Methyl-tert-butyl-ether	< 0.36	0.36	1.2		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Toluene	< 0.36	0.36	1.2		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Xylene, o	< 0.36	0.36	1.2		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Xylenes, m + p	< 0.74	0.74	2.5		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
a,a,a-Trifluorotoluene	102				1	%Recov		11/30/04	SW846 5030B	SW846 M8021

METHANE

Prep Date: 12/02/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Methane	< 10			10	1	ug/L		12/02/04	SW846 M8015	SW846 M8015

PAH/ PNA

Prep Date: 11/30/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	< 0.020	0.020	0.068		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
2-Methylnaphthalene	< 0.023	0.023	0.077		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Acenaphthene	< 0.020	0.020	0.066		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Acenaphthylene	0.024	0.020	0.066		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Anthracene	0.037	0.018	0.060		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Benzo(a)anthracene	< 0.020	0.020	0.067		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(a)pyrene	< 0.018	0.018	0.062		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene	< 0.018	0.018	0.061		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(ghi)perylene	< 0.021	0.021	0.070		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene	< 0.020	0.020	0.066		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Chrysene	< 0.017	0.017	0.056		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Dibenz(a,h)anthracene	< 0.022	0.022	0.075		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Fluoranthene	0.025	0.017	0.056		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Fluorene	< 0.022	0.022	0.074		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene	< 0.017	0.017	0.058		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Naphthalene	< 0.023	0.023	0.076		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Phenanthrene	< 0.021	0.021	0.069		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Pyrene	0.025	0.017	0.055		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Nitrobenzene-d5	104				1	%Recov		12/02/04	SW846 3510C	8270C-SIM
2-Fluorobiphenyl	77				1	%Recov		12/02/04	SW846 3510C	8270C-SIM
Terphenyl-d14	54				1	%Recov		12/02/04	SW846 3510C	8270C-SIM

En Chem

A Division of Pace Analytical Services, Inc.

Analytical Report Number: 853906

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : NATURAL RESOURCE TECHNOLOGY, INC.
Project Name : WPSC-WILDWOOD
Project Number : 1358
Field ID : MW-501B

Matrix Type : WATER
Collection Date : 11/23/04
Report Date : 12/09/04
Lab Sample Number : 853906-013

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Iron - Dissolved	78	17	55		1	ug/L		12/06/04	SW846 6010B	SW846 6010B
Manganese - Dissolved	46	0.14	0.48		1	ug/L		12/06/04	SW846 6010B	SW846 6010B
Alkalinity as CaCO3	230	8.3	28		1	mg/L		12/01/04	EPA 310.2	EPA 310.2
Cyanide, Weak & Dissociable -	0.0075	0.0053	0.018		1	mg/L	Q	12/06/04	SM 4500-CN	SM 4500-CN
Nitrogen, NO3 + NO2	< 0.063	0.063	0.21		1	mg/L		12/07/04	EPA 353.2	EPA 353.2
Sulfate	40	0.36	1.2		1	mg/L		11/30/04	EPA 300.0	EPA 300.0

PVOC

Prep Date: 11/30/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,2,4-Trimethylbenzene	< 0.39	0.39	1.3		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
1,3,5-Trimethylbenzene	< 0.40	0.40	1.3		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Benzene	< 0.14	0.14	0.46		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Ethylbenzene	< 0.40	0.40	1.3		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Methyl-tert-butyl-ether	< 0.36	0.36	1.2		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Toluene	< 0.36	0.36	1.2		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Xylene, o	< 0.36	0.36	1.2		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Xylenes, m + p	< 0.74	0.74	2.5		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
a,a,a-Trifluorotoluene	101				1	%Recov		11/30/04	SW846 5030B	SW846 M8021

METHANE

Prep Date: 12/02/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Methane	25			10	1	ug/L		12/02/04	SW846 M8015	SW846 M8015

PAH/ PNA

Prep Date: 11/30/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	< 0.020	0.020	0.066		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
2-Methylnaphthalene	< 0.023	0.023	0.076		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Acenaphthene	< 0.019	0.019	0.065		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Acenaphthylene	< 0.019	0.019	0.064		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Anthracene	< 0.018	0.018	0.059		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(a)anthracene	< 0.020	0.020	0.065		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(a)pyrene	< 0.018	0.018	0.060		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene	< 0.018	0.018	0.060		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(ghi)perylene	< 0.021	0.021	0.069		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene	< 0.019	0.019	0.064		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Chrysene	< 0.016	0.016	0.055		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Dibenz(a,h)anthracene	< 0.022	0.022	0.073		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Fluoranthene	< 0.016	0.016	0.055		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Fluorene	< 0.022	0.022	0.073		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene	< 0.017	0.017	0.057		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Naphthalene	0.042	0.022	0.075		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Phenanthrene	< 0.020	0.020	0.068		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Pyrene	< 0.016	0.016	0.054		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Nitrobenzene-d5	111				1	%Recov		12/02/04	SW846 3510C	8270C-SIM
2-Fluorobiphenyl	85				1	%Recov		12/02/04	SW846 3510C	8270C-SIM
Terphenyl-d14	90				1	%Recov		12/02/04	SW846 3510C	8270C-SIM

En Chem
A Division of Pace Analytical Services, Inc.

Analytical Report Number: 853906

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : NATURAL RESOURCE TECHNOLOGY, INC.
Project Name : WPSC-WILDWOOD
Project Number : 1358
Field ID : MW-502R

Matrix Type : WATER
Collection Date : 11/23/04
Report Date : 12/09/04
Lab Sample Number : 853906-012

INORGANICS

Test		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Iron - Dissolved		98000	180	610		10	ug/L		12/03/04	SW846 3010A	SW846 6010B
Manganese - Dissolved		1200	0.28	0.95		1	ug/L		12/03/04	SW846 3010A	SW846 6010B
Alkalinity as CaCO3		490	8.3	28		1	mg/L		12/01/04	EPA 310.2	EPA 310.2
Cyanide, Weak & Dissociable -		0.021	0.0053	0.018		1	mg/L		12/06/04	SM 4500-CN	SM 4500-CN
Nitrogen, NO3 + NO2	<	0.063	0.063	0.21		1	mg/L		12/07/04	EPA 353.2	EPA 353.2
Sulfate		410	3.6	12		10	mg/L		11/30/04	EPA 300.0	EPA 300.0

PVOC

Prep Date: 11/30/04

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,2,4-Trimethylbenzene	<	0.39	0.39	1.3		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
1,3,5-Trimethylbenzene	<	0.40	0.40	1.3		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Benzene		30	0.14	0.46		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Ethylbenzene		0.56	0.40	1.3		1	ug/L	Q	11/30/04	SW846 5030B	SW846 M8021
Methyl-tert-butyl-ether	<	0.36	0.36	1.2		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Toluene		1.0	0.36	1.2		1	ug/L	Q	11/30/04	SW846 5030B	SW846 M8021
Xylene, o		0.47	0.36	1.2		1	ug/L	Q	11/30/04	SW846 5030B	SW846 M8021
Xylenes, m + p		1.2	0.74	2.5		1	ug/L	Q	11/30/04	SW846 5030B	SW846 M8021
a,a,a-Trifluorotoluene		97				1	%Recov		11/30/04	SW846 5030B	SW846 M8021

METHANE

Prep Date: 12/02/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Methane	160			10	1	ug/L		12/02/04	SW846 M8015	SW846 M8015

PAH/ PNA

Prep Date: 11/30/04

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene		0.36	0.021	0.070		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
2-Methylnaphthalene		0.034	0.024	0.079		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Acenaphthene		0.91	0.16	0.54		8	ug/L	D	12/04/04	SW846 3510C	8270C-SIM
Acenaphthylene		2.2	0.16	0.54		8	ug/L	D	12/04/04	SW846 3510C	8270C-SIM
Anthracene		0.070	0.019	0.062		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(a)anthracene		0.046	0.021	0.069		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Benzo(a)pyrene		0.035	0.019	0.063		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene		0.042	0.019	0.063		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Benzo(ghi)perylene		0.035	0.022	0.072		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene		0.048	0.020	0.068		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Chrysene		0.045	0.017	0.057		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Dibenz(a,h)anthracene	<	0.023	0.023	0.077		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Fluoranthene		0.042	0.017	0.058		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Fluorene		0.075	0.023	0.076		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene		0.034	0.018	0.060		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Naphthalene		0.11	0.023	0.078		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Phenanthrene		0.074	0.021	0.071		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Pyrene		0.045	0.017	0.057		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Nitrobenzene-d5		126				1	%Recov		12/02/04	SW846 3510C	8270C-SIM
2-Fluorobiphenyl		84				1	%Recov		12/02/04	SW846 3510C	8270C-SIM
Terphenyl-d14		75				1	%Recov		12/02/04	SW846 3510C	8270C-SIM

En Chem

A Division of Pace Analytical Services, Inc.

Analytical Report Number: 853906

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : NATURAL RESOURCE TECHNOLOGY, INC.
Project Name : WPSC-WILDWOOD
Project Number : 1358
Field ID : MW-511R

Matrix Type : WATER
Collection Date : 11/23/04
Report Date : 12/09/04
Lab Sample Number : 853906-011

INORGANICS

Test		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Iron - Dissolved		2300	180	610		10	ug/L		12/03/04	SW846 3010A	SW846 6010B
Manganese - Dissolved		710	0.28	0.95		1	ug/L		12/02/04	SW846 3010A	SW846 6010B
Alkalinity as CaCO3		490	8.3	28		1	mg/L		12/01/04	EPA 310.2	EPA 310.2
Cyanide, Weak & Dissociable -		0.0087	0.0053	0.018		1	mg/L	Q	12/06/04	SM 4500-CN	SM 4500-CN
Nitrogen, NO3 + NO2	<	0.063	0.063	0.21		1	mg/L		12/07/04	EPA 353.2	EPA 353.2
Sulfate		50	0.36	1.2		1	mg/L		11/30/04	EPA 300.0	EPA 300.0

PVOC

Prep Date: 11/30/04

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,2,4-Trimethylbenzene	<	0.39	0.39	1.3		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
1,3,5-Trimethylbenzene	<	0.40	0.40	1.3		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Benzene		0.19	0.14	0.46		1	ug/L	Q	11/30/04	SW846 5030B	SW846 M8021
Ethylbenzene	<	0.40	0.40	1.3		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Methyl-tert-butyl-ether	<	0.36	0.36	1.2		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Toluene	<	0.36	0.36	1.2		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Xylene, o	<	0.36	0.36	1.2		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Xylenes, m + p	<	0.74	0.74	2.5		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
a,a,a-Trifluorotoluene		100				1	%Recov		11/30/04	SW846 5030B	SW846 M8021

METHANE

Prep Date: 12/02/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Methane	25			10	1	ug/L		12/02/04	SW846 M8015	SW846 M8015

PAH/ PNA

Prep Date: 11/29/04

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	<	0.020	0.020	0.066		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
2-Methylnaphthalene	<	0.023	0.023	0.076		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Acenaphthene	<	0.019	0.019	0.065		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Acenaphthylene	<	0.019	0.019	0.064		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Anthracene		0.019	0.018	0.059		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Benzo(a)anthracene		0.020	0.020	0.065		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Benzo(a)pyrene	<	0.018	0.018	0.060		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene	<	0.018	0.018	0.060		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(ghi)perylene	<	0.021	0.021	0.069		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene	<	0.019	0.019	0.064		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Chrysene		0.018	0.016	0.055		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Dibenz(a,h)anthracene	<	0.022	0.022	0.073		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Fluoranthene		0.047	0.016	0.055		1	ug/L	Q*	12/02/04	SW846 3510C	8270C-SIM
Fluorene	<	0.022	0.022	0.073		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene	<	0.017	0.017	0.057		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Naphthalene		0.030	0.022	0.075		1	ug/L	QB	12/02/04	SW846 3510C	8270C-SIM
Phenanthrene		0.026	0.020	0.068		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Pyrene		0.039	0.016	0.054		1	ug/L	Q*	12/02/04	SW846 3510C	8270C-SIM
Nitrobenzene-d5		116				1	%Recov		12/02/04	SW846 3510C	8270C-SIM
2-Fluorobiphenyl		83				1	%Recov		12/02/04	SW846 3510C	8270C-SIM
Terphenyl-d14		88				1	%Recov		12/02/04	SW846 3510C	8270C-SIM

En Chem

A Division of Pace Analytical Services, Inc.

Analytical Report Number: 853906

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : NATURAL RESOURCE TECHNOLOGY, INC.
Project Name : WPSC-WILDWOOD
Project Number : 1358
Field ID : MW-510R

Matrix Type : WATER
Collection Date : 11/23/04
Report Date : 12/09/04
Lab Sample Number : 853906-010

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Iron - Dissolved	3400	18	61		1	ug/L		12/02/04	SW846 3010A	SW846 6010B
Manganese - Dissolved	670	0.29	0.97		1	ug/L		12/02/04	SW846 3010A	SW846 6010B
Alkalinity as CaCO3	730	17	56		2	mg/L		12/01/04	EPA 310.2	EPA 310.2
Cyanide, Weak & Dissociable -	0.0094	0.0053	0.018		1	mg/L	QN	12/06/04	SM 4500-CN	SM 4500-CN
Nitrogen, NO3 + NO2	0.14	0.063	0.21		1	mg/L	Q	12/07/04	EPA 353.2	EPA 353.2
Sulfate	66	0.72	2.4		2	mg/L		11/30/04	EPA 300.0	EPA 300.0

PVOC

Prep Date: 11/30/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,2,4-Trimethylbenzene	0.62	0.39	1.3		1	ug/L	QM	11/30/04	SW846 5030B	SW846 M8021
1,3,5-Trimethylbenzene	0.42	0.40	1.3		1	ug/L	QM	11/30/04	SW846 5030B	SW846 M8021
Benzene	2.7	0.14	0.46		1	ug/L	M	11/30/04	SW846 5030B	SW846 M8021
Ethylbenzene	1.1	0.40	1.3		1	ug/L	QM	11/30/04	SW846 5030B	SW846 M8021
Methyl-tert-butyl-ether	< 0.36	0.36	1.2		1	ug/L	M	11/30/04	SW846 5030B	SW846 M8021
Toluene	0.51	0.36	1.2		1	ug/L	QM	11/30/04	SW846 5030B	SW846 M8021
Xylene, o	1.2	0.36	1.2		1	ug/L	M	11/30/04	SW846 5030B	SW846 M8021
Xylenes, m + p	1.7	0.74	2.5		1	ug/L	QM	11/30/04	SW846 5030B	SW846 M8021
a,a,a-Trifluorotoluene	105				1	%Recov	M	11/30/04	SW846 5030B	SW846 M8021

METHANE

Prep Date: 12/02/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Methane	32			10	1	ug/L		12/02/04	SW846 M8015	SW846 M8015

PAH/ PNA

Prep Date: 11/29/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	0.53	0.040	0.13		2	ug/L	D	12/03/04	SW846 3510C	8270C-SIM
2-Methylnaphthalene	0.026	0.023	0.076		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Acenaphthene	0.11	0.020	0.065		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Acenaphthylene	0.84	0.039	0.13		2	ug/L	D	12/03/04	SW846 3510C	8270C-SIM
Anthracene	0.048	0.018	0.059		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Benzo(a)anthracene	0.12	0.020	0.066		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(a)pyrene	0.16	0.018	0.061		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene	0.13	0.018	0.060		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(ghi)perylene	0.18	0.021	0.069		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene	0.13	0.019	0.065		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Chrysene	0.092	0.017	0.055		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Dibenz(a,h)anthracene	0.065	0.022	0.074		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Fluoranthene	0.12	0.017	0.055		1	ug/L	*	12/02/04	SW846 3510C	8270C-SIM
Fluorene	0.084	0.022	0.073		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene	0.17	0.017	0.057		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Naphthalene	0.23	0.023	0.075		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Phenanthrene	0.031	0.021	0.069		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Pyrene	0.15	0.016	0.055		1	ug/L	*	12/02/04	SW846 3510C	8270C-SIM
Nitrobenzene-d5	132				1	%Recov		12/02/04	SW846 3510C	8270C-SIM
2-Fluorobiphenyl	64				1	%Recov		12/02/04	SW846 3510C	8270C-SIM
Terphenyl-d14	80				1	%Recov		12/02/04	SW846 3510C	8270C-SIM

En Chem

A Division of Pace Analytical Services, Inc.

Analytical Report Number: 853906

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : NATURAL RESOURCE TECHNOLOGY, INC.
Project Name : WPSC-WILDWOOD
Project Number : 1358
Field ID : MW-503

Matrix Type : WATER
Collection Date : 11/23/04
Report Date : 12/09/04
Lab Sample Number : 853906-009

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Iron - Dissolved	1800	17	55		1	ug/L		12/06/04	SW846 6010B	SW846 6010B
Manganese - Dissolved	120	0.14	0.48		1	ug/L		12/06/04	SW846 6010B	SW846 6010B
Alkalinity as CaCO3	140	8.3	28		1	mg/L		12/01/04	EPA 310.2	EPA 310.2
Cyanide, Weak & Dissociable -	0.045	0.0053	0.018		1	mg/L		12/06/04	SM 4500-CN	SM 4500-CN
Nitrogen, NO3 + NO2	0.57	0.063	0.21		1	mg/L		12/07/04	EPA 353.2	EPA 353.2
Sulfate	1000	7.2	24		20	mg/L		11/30/04	EPA 300.0	EPA 300.0

PVOC

Prep Date: 11/30/04

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,2,4-Trimethylbenzene	<	0.39	0.39	1.3		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
1,3,5-Trimethylbenzene	<	0.40	0.40	1.3		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Benzene	<	0.14	0.14	0.46		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Ethylbenzene	<	0.40	0.40	1.3		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Methyl-tert-butyl-ether	<	0.36	0.36	1.2		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Toluene	<	0.36	0.36	1.2		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Xylene, o	<	0.36	0.36	1.2		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Xylenes, m + p	<	0.74	0.74	2.5		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
a,a,a-Trifluorotoluene		102				1	%Recov		11/30/04	SW846 5030B	SW846 M8021

METHANE

Prep Date: 12/02/04

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Methane	<	10			10	1	ug/L		12/02/04	SW846 M8015	SW846 M8015

PAH/ PNA

Prep Date: 11/29/04

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene		0.16	0.020	0.066		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
2-Methylnaphthalene		0.067	0.023	0.076		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Acenaphthene	<	0.019	0.019	0.065		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Acenaphthylene		0.027	0.019	0.064		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Anthracene	<	0.018	0.018	0.059		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(a)anthracene		0.031	0.020	0.065		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Benzo(a)pyrene	<	0.018	0.018	0.060		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene		0.019	0.018	0.060		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Benzo(ghi)perylene	<	0.021	0.021	0.069		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene		0.021	0.019	0.064		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Chrysene		0.029	0.016	0.055		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Dibenz(a,h)anthracene	<	0.022	0.022	0.073		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Fluoranthene		0.098	0.016	0.055		1	ug/L	*	12/02/04	SW846 3510C	8270C-SIM
Fluorene		0.030	0.022	0.073		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene	<	0.017	0.017	0.057		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Naphthalene		0.17	0.022	0.075		1	ug/L	B	12/02/04	SW846 3510C	8270C-SIM
Phenanthrene		0.069	0.020	0.068		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Pyrene		0.086	0.016	0.054		1	ug/L	*	12/02/04	SW846 3510C	8270C-SIM
Nitrobenzene-d5		69				1	%Recov		12/02/04	SW846 3510C	8270C-SIM
2-Fluorobiphenyl		49				1	%Recov		12/02/04	SW846 3510C	8270C-SIM
Terphenyl-d14		54				1	%Recov		12/02/04	SW846 3510C	8270C-SIM

En Chem
A Division of Pace Analytical Services, Inc.

Analytical Report Number: 853906

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : NATURAL RESOURCE TECHNOLOGY, INC.
Project Name : WPSC-WILDWOOD
Project Number : 1358
Field ID : MW-506B

Matrix Type : WATER
Collection Date : 11/23/04
Report Date : 12/09/04
Lab Sample Number : 853906-008

INORGANICS

Test		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Iron - Dissolved	<	17	17	55		1	ug/L		12/06/04	SW846 6010B	SW846 6010B
Manganese - Dissolved		320	0.14	0.48		1	ug/L		12/06/04	SW846 6010B	SW846 6010B
Alkalinity as CaCO3		470	8.3	28		1	mg/L		12/01/04	EPA 310.2	EPA 310.2
Cyanide, Weak & Dissociable -	<	0.0053	0.0053	0.018		1	mg/L		12/06/04	SM 4500-CN	SM 4500-CN
Nitrogen, NO3 + NO2	<	0.063	0.063	0.21		1	mg/L		12/07/04	EPA 353.2	EPA 353.2
Sulfate		51	0.36	1.2		1	mg/L		11/30/04	EPA 300.0	EPA 300.0

PVOC

Prep Date: 11/30/04

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,2,4-Trimethylbenzene	<	0.39	0.39	1.3		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
1,3,5-Trimethylbenzene	<	0.40	0.40	1.3		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Benzene	<	0.14	0.14	0.46		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Ethylbenzene	<	0.40	0.40	1.3		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Methyl-tert-butyl-ether		0.49	0.36	1.2		1	ug/L	Q	11/30/04	SW846 5030B	SW846 M8021
Toluene	<	0.36	0.36	1.2		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Xylene, o	<	0.36	0.36	1.2		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Xylenes, m + p	<	0.74	0.74	2.5		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
a,a,a-Trifluorotoluene		101				1	%Recov		11/30/04	SW846 5030B	SW846 M8021

METHANE

Prep Date: 12/02/04

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Methane	<	10			10	1	ug/L		12/02/04	SW846 M8015	SW846 M8015

PAH/ PNA

Prep Date: 11/29/04

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	<	0.020	0.020	0.066		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
2-Methylnaphthalene	<	0.023	0.023	0.076		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Acenaphthene	<	0.019	0.019	0.065		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Acenaphthylene	<	0.019	0.019	0.064		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Anthracene	<	0.018	0.018	0.059		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(a)anthracene	<	0.020	0.020	0.065		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(a)pyrene	<	0.018	0.018	0.060		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene	<	0.018	0.018	0.060		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(ghi)perylene	<	0.021	0.021	0.069		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene	<	0.019	0.019	0.064		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Chrysene	<	0.016	0.016	0.055		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Dibenz(a,h)anthracene	<	0.022	0.022	0.073		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Fluoranthene	<	0.016	0.016	0.055		1	ug/L	*	12/02/04	SW846 3510C	8270C-SIM
Fluorene	<	0.022	0.022	0.073		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene	<	0.017	0.017	0.057		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Naphthalene		0.036	0.022	0.075		1	ug/L	QB	12/02/04	SW846 3510C	8270C-SIM
Phenanthrene	<	0.020	0.020	0.068		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Pyrene	<	0.016	0.016	0.054		1	ug/L	*	12/02/04	SW846 3510C	8270C-SIM
Nitrobenzene-d5		105				1	%Recov		12/02/04	SW846 3510C	8270C-SIM
2-Fluorobiphenyl		81				1	%Recov		12/02/04	SW846 3510C	8270C-SIM
Terphenyl-d14		87				1	%Recov		12/02/04	SW846 3510C	8270C-SIM

En Chem

A Division of Pace Analytical Services, Inc.

Analytical Report Number: 853906

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : NATURAL RESOURCE TECHNOLOGY, INC.
Project Name : WPSC-WILDWOOD
Project Number : 1358
Field ID : MW-506A

Matrix Type : WATER
Collection Date : 11/23/04
Report Date : 12/09/04
Lab Sample Number : 853906-007

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Iron - Dissolved	5500	170	550		10	ug/L		12/08/04	SW846 6010B	SW846 6010B
Manganese - Dissolved	400	0.14	0.48		1	ug/L		12/06/04	SW846 6010B	SW846 6010B
Alkalinity as CaCO3	720	17	56		2	mg/L	N	12/01/04	EPA 310.2	EPA 310.2
Cyanide, Weak & Dissociable -	0.048	0.0053	0.018		1	mg/L		12/06/04	SM 4500-CN	SM 4500-CN
Nitrogen, NO3 + NO2	0.72	0.063	0.21		1	mg/L		12/07/04	EPA 353.2	EPA 353.2
Sulfate	71	0.36	1.2		1	mg/L		11/30/04	EPA 300.0	EPA 300.0

PVOC

Prep Date: 11/30/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,2,4-Trimethylbenzene	50	0.78	2.6		2	ug/L	K	11/30/04	SW846 5030B	SW846 M8021
1,3,5-Trimethylbenzene	12	0.79	2.6		2	ug/L	K	11/30/04	SW846 5030B	SW846 M8021
Benzene	80	0.28	0.92		2	ug/L	K	11/30/04	SW846 5030B	SW846 M8021
Ethylbenzene	44	0.80	2.7		2	ug/L	K	11/30/04	SW846 5030B	SW846 M8021
Methyl-tert-butyl-ether	< 0.72	0.72	2.4		2	ug/L	K	11/30/04	SW846 5030B	SW846 M8021
Toluene	2.6	0.71	2.4		2	ug/L	K	11/30/04	SW846 5030B	SW846 M8021
Xylene, o	37	0.72	2.4		2	ug/L	K	11/30/04	SW846 5030B	SW846 M8021
Xylenes, m + p	95	1.5	4.9		2	ug/L	K	11/30/04	SW846 5030B	SW846 M8021
a,a,a-Trifluorotoluene	101				1	%Recov		11/30/04	SW846 5030B	SW846 M8021

METHANE

Prep Date: 12/02/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Methane	1500			100	10	ug/L		12/02/04	SW846 M8015	SW846 M8015

PAH/ PNA

Prep Date: 11/29/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	9.2	4.0	13		200	ug/L	QD	12/02/04	SW846 3510C	8270C-SIM
2-Methylnaphthalene	1.6	0.45	1.5		20	ug/L		12/02/04	SW846 3510C	8270C-SIM
Acenaphthene	3.0	0.39	1.3		20	ug/L		12/02/04	SW846 3510C	8270C-SIM
Acenaphthylene	1.2	0.39	1.3		20	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Anthracene	1.7	0.35	1.2		20	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(a)anthracene	1.9	0.39	1.3		20	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(a)pyrene	1.0	0.36	1.2		20	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene	0.79	0.36	1.2		20	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Benzo(ghi)perylene	0.53	0.41	1.4		20	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene	0.97	0.39	1.3		20	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Chrysene	1.4	0.33	1.1		20	ug/L		12/02/04	SW846 3510C	8270C-SIM
Dibenz(a,h)anthracene	< 0.44	0.44	1.5		20	ug/L		12/02/04	SW846 3510C	8270C-SIM
Fluoranthene	4.2	0.33	1.1		20	ug/L		12/02/04	SW846 3510C	8270C-SIM
Fluorene	3.5	0.44	1.5		20	ug/L		12/02/04	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene	0.52	0.34	1.1		20	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Naphthalene	60	4.5	15		200	ug/L	D	12/02/04	SW846 3510C	8270C-SIM
Phenanthrene	4.4	0.41	1.4		20	ug/L		12/02/04	SW846 3510C	8270C-SIM
Pyrene	3.7	0.33	1.1		20	ug/L		12/02/04	SW846 3510C	8270C-SIM
Nitrobenzene-d5	0				20	%Recov	D	12/02/04	SW846 3510C	8270C-SIM
2-Fluorobiphenyl	0				20	%Recov	D	12/02/04	SW846 3510C	8270C-SIM
Terphenyl-d14	0				20	%Recov	D	12/02/04	SW846 3510C	8270C-SIM

En Chem

A Division of Pace Analytical Services, Inc.

Analytical Report Number: 853906

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : NATURAL RESOURCE TECHNOLOGY, INC.
Project Name : WPSC-WILDWOOD
Project Number : 1358
Field ID : MW-505

Matrix Type : WATER
Collection Date : 11/23/04
Report Date : 12/09/04
Lab Sample Number : 853906-006

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Iron - Dissolved	2900	17	55		1	ug/L		12/01/04	SW846 6010B	SW846 6010B
Manganese - Dissolved	200	0.14	0.48		1	ug/L		12/01/04	SW846 6010B	SW846 6010B
Alkalinity as CaCO3	660	17	56		2	mg/L		12/01/04	EPA 310.2	EPA 310.2
Cyanide, Weak & Dissociable -	0.063	0.0053	0.018		1	mg/L		12/06/04	SM 4500-CN	SM 4500-CN
Nitrogen, NO3 + NO2	0.11	0.063	0.21		1	mg/L	Q	12/07/04	EPA 353.2	EPA 353.2
Sulfate	59	0.36	1.2		1	mg/L		11/30/04	EPA 300.0	EPA 300.0

PVOC

Prep Date: 11/30/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,2,4-Trimethylbenzene	< 0.39	0.39	1.3		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
1,3,5-Trimethylbenzene	< 0.40	0.40	1.3		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Benzene	< 0.14	0.14	0.46		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Ethylbenzene	< 0.40	0.40	1.3		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Methyl-tert-butyl-ether	0.49	0.36	1.2		1	ug/L	Q	11/30/04	SW846 5030B	SW846 M8021
Toluene	< 0.36	0.36	1.2		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Xylene, o	< 0.36	0.36	1.2		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Xylenes, m + p	< 0.74	0.74	2.5		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
a,a,a-Trifluorotoluene	102				1	%Recov		11/30/04	SW846 5030B	SW846 M8021

METHANE

Prep Date: 12/02/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Methane	970			100	10	ug/L		12/02/04	SW846 M8015	SW846 M8015

PAH/ PNA

Prep Date: 11/29/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	< 0.020	0.020	0.067		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
2-Methylnaphthalene	< 0.023	0.023	0.076		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Acenaphthene	< 0.020	0.020	0.065		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Acenaphthylene	0.044	0.020	0.065		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Anthracene	0.038	0.018	0.059		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Benzo(a)anthracene	0.020	0.020	0.066		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Benzo(a)pyrene	< 0.018	0.018	0.061		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene	< 0.018	0.018	0.060		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(ghi)perylene	< 0.021	0.021	0.069		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene	< 0.019	0.019	0.065		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Chrysene	< 0.017	0.017	0.055		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Dibenz(a,h)anthracene	< 0.022	0.022	0.074		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Fluoranthene	0.036	0.017	0.055		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Fluorene	0.022	0.022	0.073		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene	< 0.017	0.017	0.057		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Naphthalene	0.030	0.023	0.075		1	ug/L	QB	12/02/04	SW846 3510C	8270C-SIM
Phenanthrene	< 0.021	0.021	0.069		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Pyrene	0.031	0.016	0.055		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Nitrobenzene-d5	91				1	%Recov		12/02/04	SW846 3510C	8270C-SIM
2-Fluorobiphenyl	69				1	%Recov		12/02/04	SW846 3510C	8270C-SIM
Terphenyl-d14	57				1	%Recov		12/02/04	SW846 3510C	8270C-SIM

En Chem

A Division of Pace Analytical Services, Inc.

Analytical Report Number: 853906

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : NATURAL RESOURCE TECHNOLOGY, INC.
Project Name : WPSC-WILDWOOD
Project Number : 1358
Field ID : MW-504

Matrix Type : WATER
Collection Date : 11/23/04
Report Date : 12/09/04
Lab Sample Number : 853906-005

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Iron - Dissolved	680	17	55		1	ug/L		12/01/04	SW846 6010B	SW846 6010B
Manganese - Dissolved	400	0.14	0.48		1	ug/L		12/01/04	SW846 6010B	SW846 6010B
Alkalinity as CaCO3	610	17	56		2	mg/L		12/01/04	EPA 310.2	EPA 310.2
Cyanide, Weak & Dissociable -	0.023	0.0053	0.018		1	mg/L		12/05/04	SM 4500-CN	SM 4500-CN
Nitrogen, NO3 + NO2	< 0.063	0.063	0.21		1	mg/L		12/07/04	EPA 353.2	EPA 353.2
Sulfate	39	0.36	1.2		1	mg/L		11/30/04	EPA 300.0	EPA 300.0

PVOC

Prep Date: 11/30/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,2,4-Trimethylbenzene	< 0.39	0.39	1.3		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
1,3,5-Trimethylbenzene	< 0.40	0.40	1.3		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Benzene	0.40	0.14	0.46		1	ug/L	Q	11/30/04	SW846 5030B	SW846 M8021
Ethylbenzene	< 0.40	0.40	1.3		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Methyl-tert-butyl-ether	< 0.36	0.36	1.2		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Toluene	< 0.36	0.36	1.2		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Xylene, o	< 0.36	0.36	1.2		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Xylenes, m + p	< 0.74	0.74	2.5		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
a,a,a-Trifluorotoluene	101				1	%Recov		11/30/04	SW846 5030B	SW846 M8021

METHANE

Prep Date: 12/02/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Methane	230			10	1	ug/L		12/02/04	SW846 M8015	SW846 M8015

PAH/ PNA

Prep Date: 11/29/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	4.0	0.30	1.0		15	ug/L		12/02/04	SW846 3510C	8270C-SIM
2-Methylnaphthalene	< 0.34	0.34	1.1		15	ug/L		12/02/04	SW846 3510C	8270C-SIM
Acenaphthene	6.8	0.29	0.97		15	ug/L		12/02/04	SW846 3510C	8270C-SIM
Acenaphthylene	9.1	1.2	3.9		60	ug/L	D	12/03/04	SW846 3510C	8270C-SIM
Anthracene	6.5	0.26	0.88		15	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(a)anthracene	6.9	1.2	3.9		60	ug/L	D	12/03/04	SW846 3510C	8270C-SIM
Benzo(a)pyrene	5.0	0.27	0.91		15	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene	3.0	0.27	0.89		15	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(ghi)perylene	1.6	0.31	1.0		15	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene	3.1	0.29	0.97		15	ug/L		12/02/04	SW846 3510C	8270C-SIM
Chrysene	4.3	0.25	0.82		15	ug/L		12/02/04	SW846 3510C	8270C-SIM
Dibenz(a,h)anthracene	0.68	0.33	1.1		15	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Fluoranthene	18	0.99	3.3		60	ug/L	*D	12/03/04	SW846 3510C	8270C-SIM
Fluorene	10	1.3	4.4		60	ug/L	D	12/03/04	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene	1.7	0.26	0.85		15	ug/L		12/02/04	SW846 3510C	8270C-SIM
Naphthalene	2.8	0.34	1.1		15	ug/L		12/02/04	SW846 3510C	8270C-SIM
Phenanthrene	8.1	1.2	4.1		60	ug/L	D	12/03/04	SW846 3510C	8270C-SIM
Pyrene	12	0.98	3.3		60	ug/L	*D	12/03/04	SW846 3510C	8270C-SIM
Nitrobenzene-d5	0				15	%Recov	D	12/02/04	SW846 3510C	8270C-SIM
2-Fluorobiphenyl	0				15	%Recov	D	12/02/04	SW846 3510C	8270C-SIM
Terphenyl-d14	0				15	%Recov	D	12/02/04	SW846 3510C	8270C-SIM

En Chem

A Division of Pace Analytical Services, Inc.

Analytical Report Number: 853906

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : NATURAL RESOURCE TECHNOLOGY, INC.
Project Name : WPSC-WILDWOOD
Project Number : 1358
Field ID : MW-507

Matrix Type : WATER
Collection Date : 11/23/04
Report Date : 12/09/04
Lab Sample Number : 853906-004

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Iron - Dissolved	4600	17	55		1	ug/L		12/01/04	SW846 6010B	SW846 6010B
Manganese - Dissolved	530	0.14	0.48		1	ug/L		12/01/04	SW846 6010B	SW846 6010B
Alkalinity as CaCO3	450	8.3	28		1	mg/L		12/01/04	EPA 310.2	EPA 310.2
Cyanide, Weak & Dissociable -	0.0073	0.0053	0.018		1	mg/L	Q	12/06/04	SM 4500-CN	SM 4500-CN
Nitrogen, NO3 + NO2	< 0.063	0.063	0.21		1	mg/L		12/07/04	EPA 353.2	EPA 353.2
Sulfate	44	0.36	1.2		1	mg/L		11/30/04	EPA 300.0	EPA 300.0

PVOC

Prep Date: 11/30/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,2,4-Trimethylbenzene	< 0.39	0.39	1.3		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
1,3,5-Trimethylbenzene	< 0.40	0.40	1.3		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Benzene	< 0.14	0.14	0.46		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Ethylbenzene	< 0.40	0.40	1.3		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Methyl-tert-butyl-ether	< 0.36	0.36	1.2		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Toluene	< 0.36	0.36	1.2		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Xylene, o	< 0.36	0.36	1.2		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Xylenes, m + p	< 0.74	0.74	2.5		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
a,a,a-Trifluorotoluene	101				1	%Recov		11/30/04	SW846 5030B	SW846 M8021

METHANE

Prep Date: 12/02/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Methane	93			10	1	ug/L		12/02/04	SW846 M8015	SW846 M8015

PAH/ PNA

Prep Date: 11/29/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	< 0.020	0.020	0.066		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
2-Methylnaphthalene	< 0.023	0.023	0.076		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Acenaphthene	0.13	0.019	0.065		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Acenaphthylene	0.028	0.019	0.064		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Anthracene	0.043	0.018	0.059		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Benzo(a)anthracene	0.069	0.020	0.065		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(a)pyrene	0.046	0.018	0.060		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene	0.031	0.018	0.060		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Benzo(ghi)perylene	0.022	0.021	0.069		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene	0.037	0.019	0.064		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Chrysene	0.050	0.016	0.055		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Dibenz(a,h)anthracene	< 0.022	0.022	0.073		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Fluoranthene	0.15	0.016	0.055		1	ug/L	*	12/02/04	SW846 3510C	8270C-SIM
Fluorene	< 0.022	0.022	0.073		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene	0.022	0.017	0.057		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Naphthalene	0.030	0.022	0.075		1	ug/L	QB	12/02/04	SW846 3510C	8270C-SIM
Phenanthrene	0.052	0.020	0.068		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Pyrene	0.11	0.016	0.054		1	ug/L	*	12/02/04	SW846 3510C	8270C-SIM
Nitrobenzene-d5	84				1	%Recov		12/02/04	SW846 3510C	8270C-SIM
2-Fluorobiphenyl	61				1	%Recov		12/02/04	SW846 3510C	8270C-SIM
Terphenyl-d14	86				1	%Recov		12/02/04	SW846 3510C	8270C-SIM

En Chem

A Division of Pace Analytical Services, Inc.

Analytical Report Number: 853906

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : NATURAL RESOURCE TECHNOLOGY, INC.
Project Name : WPSC-WILDWOOD
Project Number : 1358
Field ID : MW-508

Matrix Type : WATER
Collection Date : 11/23/04
Report Date : 12/09/04
Lab Sample Number : 853906-003

INORGANICS

Test		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Iron - Dissolved		6200	17	55		1	ug/L		12/01/04	SW846 6010B	SW846 6010B
Manganese - Dissolved		450	0.14	0.48		1	ug/L		12/01/04	SW846 6010B	SW846 6010B
Alkalinity as CaCO3		670	17	56		2	mg/L		12/01/04	EPA 310.2	EPA 310.2
Cyanide, Weak & Dissociable -	<	0.0053	0.0053	0.018		1	mg/L		12/06/04	SM 4500-CN	SM 4500-CN
Nitrogen, NO3 + NO2	<	0.063	0.063	0.21		1	mg/L		12/07/04	EPA 353.2	EPA 353.2
Sulfate		4.1	0.36	1.2		1	mg/L		11/30/04	EPA 300.0	EPA 300.0

PVOC

Prep Date: 11/30/04

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,2,4-Trimethylbenzene	<	0.39	0.39	1.3		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
1,3,5-Trimethylbenzene	<	0.40	0.40	1.3		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Benzene	<	0.14	0.14	0.46		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Ethylbenzene	<	0.40	0.40	1.3		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Methyl-tert-butyl-ether	<	0.36	0.36	1.2		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Toluene	<	0.36	0.36	1.2		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Xylene, o	<	0.36	0.36	1.2		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Xylenes, m + p	<	0.74	0.74	2.5		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
a,a,a-Trifluorotoluene		102				1	%Recov		11/30/04	SW846 5030B	SW846 M8021

METHANE

Prep Date: 12/02/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Methane	820			50	5	ug/L		12/02/04	SW846 M8015	SW846 M8015

PAH/ PNA

Prep Date: 11/29/04

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene		0.037	0.020	0.066		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
2-Methylnaphthalene		0.039	0.023	0.076		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Acenaphthene	<	0.019	0.019	0.065		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Acenaphthylene		0.070	0.019	0.064		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Anthracene		0.13	0.018	0.059		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(a)anthracene		0.41	0.020	0.065		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(a)pyrene		0.35	0.018	0.060		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene		0.25	0.018	0.060		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(ghi)perylene		0.19	0.021	0.069		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene		0.24	0.019	0.064		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Chrysene		0.29	0.016	0.055		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Dibenz(a,h)anthracene		0.080	0.022	0.073		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Fluoranthene		0.46	0.016	0.055		1	ug/L	*	12/02/04	SW846 3510C	8270C-SIM
Fluorene		0.024	0.022	0.073		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene		0.19	0.017	0.057		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Naphthalene		0.037	0.022	0.075		1	ug/L	QB	12/02/04	SW846 3510C	8270C-SIM
Phenanthrene		0.27	0.020	0.068		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Pyrene		0.40	0.016	0.054		1	ug/L	*	12/02/04	SW846 3510C	8270C-SIM
Nitrobenzene-d5		101				1	%Recov		12/02/04	SW846 3510C	8270C-SIM
2-Fluorobiphenyl		71				1	%Recov		12/02/04	SW846 3510C	8270C-SIM
Terphenyl-d14		80				1	%Recov		12/02/04	SW846 3510C	8270C-SIM

En Chem

A Division of Pace Analytical Services, Inc.

Analytical Report Number: 853906

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : NATURAL RESOURCE TECHNOLOGY, INC.
Project Name : WPSC-WILDWOOD
Project Number : 1358
Field ID : MW-509

Matrix Type : WATER
Collection Date : 11/23/04
Report Date : 12/09/04
Lab Sample Number : 853906-002

INORGANICS

Test		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Iron - Dissolved		7700	18	61		1	ug/L		12/02/04	SW846 3010A	SW846 6010B
Manganese - Dissolved		750	0.29	0.97		1	ug/L		12/02/04	SW846 3010A	SW846 6010B
Alkalinity as CaCO3		810	17	56		2	mg/L		12/01/04	EPA 310.2	EPA 310.2
Cyanide, Weak & Dissociable -	<	0.0053	0.0053	0.018		1	mg/L		12/06/04	SM 4500-CN	SM 4500-CN
Nitrogen, NO3 + NO2	<	0.063	0.063	0.21		1	mg/L		12/07/04	EPA 353.2	EPA 353.2
Sulfate		290	3.6	12		10	mg/L		11/30/04	EPA 300.0	EPA 300.0

PVOC

Prep Date: 11/30/04

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,2,4-Trimethylbenzene	<	0.39	0.39	1.3		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
1,3,5-Trimethylbenzene	<	0.40	0.40	1.3		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Benzene	<	0.14	0.14	0.46		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Ethylbenzene	<	0.40	0.40	1.3		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Methyl-tert-butyl-ether	<	0.36	0.36	1.2		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Toluene	<	0.36	0.36	1.2		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Xylene, o	<	0.36	0.36	1.2		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Xylenes, m + p	<	0.74	0.74	2.5		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
a,a,a-Trifluorotoluene		102				1	%Recov		11/30/04	SW846 5030B	SW846 M8021

METHANE

Prep Date: 12/02/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Methane	69			10	1	ug/L		12/02/04	SW846 M8015	SW846 M8015

PAH/ PNA

Prep Date: 11/29/04

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	<	0.020	0.020	0.066		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
2-Methylnaphthalene	<	0.023	0.023	0.076		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Acenaphthene	<	0.019	0.019	0.065		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Acenaphthylene	<	0.019	0.019	0.064		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Anthracene	<	0.018	0.018	0.059		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(a)anthracene	<	0.020	0.020	0.065		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(a)pyrene	<	0.018	0.018	0.060		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene	<	0.018	0.018	0.060		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(ghi)perylene	<	0.021	0.021	0.069		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene	<	0.019	0.019	0.064		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Chrysene	<	0.016	0.016	0.055		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Dibenz(a,h)anthracene	<	0.022	0.022	0.073		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Fluoranthene	<	0.016	0.016	0.055		1	ug/L	*	12/02/04	SW846 3510C	8270C-SIM
Fluorene	<	0.022	0.022	0.073		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene	<	0.017	0.017	0.057		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Naphthalene		0.027	0.022	0.075		1	ug/L	QB	12/02/04	SW846 3510C	8270C-SIM
Phenanthrene	<	0.020	0.020	0.068		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Pyrene	<	0.016	0.016	0.054		1	ug/L	*	12/02/04	SW846 3510C	8270C-SIM
Nitrobenzene-d5		130				1	%Recov		12/02/04	SW846 3510C	8270C-SIM
2-Fluorobiphenyl		72				1	%Recov		12/02/04	SW846 3510C	8270C-SIM
Terphenyl-d14		76				1	%Recov		12/02/04	SW846 3510C	8270C-SIM

En Chem

A Division of Pace Analytical Services, Inc.

Analytical Report Number: 853906

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : NATURAL RESOURCE TECHNOLOGY, INC.
Project Name : WPSC-WILDWOOD
Project Number : 1358
Field ID : MW-513

Matrix Type : WATER
Collection Date : 11/23/04
Report Date : 12/09/04
Lab Sample Number : 853906-001

INORGANICS

Test		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Iron - Dissolved		1600	17	55		1	ug/L		12/01/04	SW846 6010B	SW846 6010B
Manganese - Dissolved		190	0.14	0.48		1	ug/L		12/01/04	SW846 6010B	SW846 6010B
Alkalinity as CaCO3		490	8.3	28		1	mg/L		12/01/04	EPA 310.2	EPA 310.2
Cyanide, Weak & Dissociable -	<	0.0053	0.0053	0.018		1	mg/L		12/06/04	SM 4500-CN	SM 4500-CN
Nitrogen, NO3 + NO2	<	0.063	0.063	0.21		1	mg/L		12/07/04	EPA 353.2	EPA 353.2
Sulfate		400	3.6	12		10	mg/L		11/30/04	EPA 300.0	EPA 300.0

PVOC

Prep Date: 11/30/04

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,2,4-Trimethylbenzene	<	0.39	0.39	1.3		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
1,3,5-Trimethylbenzene	<	0.40	0.40	1.3		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Benzene	<	0.14	0.14	0.46		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Ethylbenzene	<	0.40	0.40	1.3		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Methyl-tert-butyl-ether	<	0.36	0.36	1.2		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Toluene	<	0.36	0.36	1.2		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Xylene, o	<	0.36	0.36	1.2		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
Xylenes, m + p	<	0.74	0.74	2.5		1	ug/L		11/30/04	SW846 5030B	SW846 M8021
a,a,a-Trifluorotoluene		101				1	%Recov		11/30/04	SW846 5030B	SW846 M8021

METHANE

Prep Date: 12/02/04

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Methane	<	10			10	1	ug/L		12/02/04	SW846 M8015	SW846 M8015

PAH/ PNA

Prep Date: 11/29/04

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	<	0.020	0.020	0.066		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
2-Methylnaphthalene	<	0.023	0.023	0.077		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Acenaphthene	<	0.020	0.020	0.066		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Acenaphthylene		0.038	0.020	0.066		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Anthracene		0.066	0.018	0.060		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(a)anthracene		0.17	0.020	0.067		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(a)pyrene		0.13	0.018	0.062		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene		0.091	0.018	0.061		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(ghi)perylene		0.071	0.021	0.070		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene		0.099	0.020	0.066		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Chrysene		0.13	0.017	0.056		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Dibenz(a,h)anthracene		0.029	0.022	0.075		1	ug/L	Q	12/02/04	SW846 3510C	8270C-SIM
Fluoranthene		0.30	0.017	0.056		1	ug/L	*	12/02/04	SW846 3510C	8270C-SIM
Fluorene	<	0.022	0.022	0.074		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene		0.070	0.017	0.058		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Naphthalene		0.034	0.023	0.076		1	ug/L	QB	12/02/04	SW846 3510C	8270C-SIM
Phenanthrene		0.16	0.021	0.069		1	ug/L		12/02/04	SW846 3510C	8270C-SIM
Pyrene		0.22	0.017	0.055		1	ug/L	*	12/02/04	SW846 3510C	8270C-SIM
Nitrobenzene-d5		106				1	%Recov		12/02/04	SW846 3510C	8270C-SIM
2-Fluorobiphenyl		74				1	%Recov		12/02/04	SW846 3510C	8270C-SIM
Terphenyl-d14		78				1	%Recov		12/02/04	SW846 3510C	8270C-SIM

EN CHEM

A Division of Pace Analytical Services, Inc.

1241 Bellevue Street, Suite 9
Green Bay, WI 54302
920-469-2436, Fax: 920-469-8827

Analytical Report Number: 853906

Client: NATURAL RESOURCE TECHNOLOGY, INC. **Lab Contact:** Tom Trainor

Project Name: WPSC-WILDWOOD

Project Number: 1358

Lab Sample Number	Field ID	Matrix	Collection Date
853906-001	MW-513	WATER	11/23/04
853906-002	MW-509	WATER	11/23/04
853906-003	MW-508	WATER	11/23/04
853906-004	MW-507	WATER	11/23/04
853906-005	MW-504	WATER	11/23/04
853906-006	MW-505	WATER	11/23/04
853906-007	MW-506A	WATER	11/23/04
853906-008	MW-506B	WATER	11/23/04
853906-009	MW-503	WATER	11/23/04
853906-010	MW-510R	WATER	11/23/04
853906-011	MW-511R	WATER	11/23/04
853906-012	MW-502R	WATER	11/23/04
853906-013	MW-501B	WATER	11/23/04
853906-014	MW-501AR	WATER	11/23/04
853906-015	MW-514A	WATER	11/23/04
853906-016	MW-514B	WATER	11/23/04
853906-017	QC-1	WATER	11/23/04
853906-018	QC-2	WATER	11/23/04
853906-019	TRIP BLANK	WATER	11/23/04

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. Reported results shall not be reproduced, except in full, without the written approval of the lab. The sample results relate only to the analytes of interest tested.

Tom Trainor

Approval Signature

12-10-04

Date

Qualifier Codes

Flag	Applies To	Explanation
A	Inorganic	Analyte is detected in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
B	Inorganic	The analyte has been detected between the method detection limit and the reporting limit.
B	Organic	Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
C	All	Elevated detection limit.
D	All	Analyte value from diluted analysis or surrogate result not applicable due to sample dilution.
E	Inorganic	Estimated concentration due to matrix interferences. During the metals analysis the serial dilution failed to meet the established control limits of 0-10%. The sample concentration is greater than 50 times the IDL for analysis done on the ICP or 100 times the IDL for analysis done on the ICP-MS. The result was flagged with the E qualifier to indicate that a physical interference was observed.
E	Organic	Analyte concentration exceeds calibration range.
F	Inorganic	Due to potential interferences for this analysis by Inductively Coupled Plasma techniques (SW-846 Method 6010), this analyte has been confirmed by and reported from an alternate method.
F	Organic	Surrogate results outside control criteria.
H	All	Preservation, extraction or analysis performed past holding time.
HF	Inorganic	This test is considered a field parameter, and the recommended holding time is 15 minutes from collection. The analysis was performed in the laboratory beyond the recommended holding time.
J	Inorganic	The analyte has been detected between the method detection limit and the reporting limit.
J	Organic	Concentration detected is greater than the method detection limit but less than the reporting limit.
K	Inorganic	Sample received unpreserved. Sample was either preserved at the time of receipt or at the time of sample preparation.
K	Organic	Detection limit may be elevated due to the presence of an unrequested analyte.
L	All	Elevated detection limit due to low sample volume.
M	Organic	Sample pH was greater than 2
N	All	Spiked sample recovery not within control limits.
O	Organic	Sample received overweight.
P	Organic	The relative percent difference between the two columns for detected concentrations was greater than 40%.
Q	All	The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
S	Organic	The relative percent difference between quantitation and confirmation columns exceeds internal quality control criteria. Because the result is unconfirmed, it has been reported as a non-detect with an elevated detection limit.
U	All	The analyte was not detected at or above the reporting limit.
V	All	Sample received with headspace.
W	All	A second aliquot of sample was analyzed from a container with headspace.
X	All	See Sample Narrative.
&	All	Laboratory Control Spike recovery not within control limits.
*	All	Precision not within control limits.
<	All	The analyte was not detected at or above the reporting limit.
1	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses passed QC based on precision criteria.
2	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses failed QC based on precision criteria.
3	Inorganic	BOD result is estimated due to the BOD blank exceeding the allowable oxygen depletion.
4	Inorganic	BOD duplicate precision not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
5	Inorganic	BOD result is estimated due to insufficient oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
6	Inorganic	BOD laboratory control sample not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
7	Inorganic	BOD result is estimated due to complete oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.

En Chem
A Division of Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436
Fax: 920-469-8827

Lab Number	TestGroupID	Field ID	Comment
853906-001	PAH+-W	MW-513	B - Naphthalene present in Extraction blank at 0.0241ug/l.
853906-002	PAH+-W	MW-509	B - Naphthalene present in Extraction blank at 0.0241ug/l.
853906-003	PAH+-W	MW-508	B - Naphthalene present in Extraction blank at 0.0241ug/l.
853906-004	PAH+-W	MW-507	B - Naphthalene present in Extraction blank at 0.0241ug/l.
853906-006	PAH+-W	MW-505	B - Naphthalene present in Extraction blank at 0.0241ug/l.
853906-008	PAH+-W	MW-506B	B - Naphthalene present in Extraction blank at 0.0241ug/l.
853906-009	PAH+-W	MW-503	B - Naphthalene present in Extraction blank at 0.0241ug/l.
853906-010	PAH+-W	MW-510R	B - Naphthalene present in Extraction blank at 0.0241ug/l.
853906-011	PAH+-W	MW-511R	B - Naphthalene present in Extraction blank at 0.0241ug/l.

En Chem, Inc. Cooler Receipt Log

Batch No. 853906

Project Name or ID WPSC - Wildwood No. of Coolers: 3 Temps: R01

A. Receipt Phase: Date cooler was opened: 11/24/04 **By:** AB

1: Were samples received on ice? (Must be ≤ 6 C)	YES	NO[2]	NA
2. Was there a Temperature Blank?	YES	NO	
3: Were custody seals present and intact on cooler? (Record on COC)	YES	NO	
4: Are COC documents present?	YES	NO[2]	
5: Does this Project require quick turn around analysis?	YES	NO	
6: Is there any sub-work?	YES	NO	
7: Are there any short hold time tests?	YES	~~NO~~ 11/24/04 AB	
8: Are any samples nearing expiration of hold-time? (Within 2 days)	YES[1]	NO	Contacted by/Who
9: Do any samples need to be Filtered or Preserved in the lab?	YES[1]	NO	Contacted by/Who

B. Check-in Phase: Date samples were Checked-in: 11/24/04 **By:** AB

1: Were all sample containers listed on the COC received and intact?	YES	NO[2]	NA
2: Sign the COC as received by En Chem. Completed	YES	NO	
3: Do sample labels match the COC?	YES	NO[2]	
4: Completed pH check on preserved samples. *(This statement does not apply to water: VOC, O&G, TOC, DRO, Total Rec. Phenolics)*	YES	NO	NA
5: Do samples have correct chemical preservation? *(This statement does not apply to water: VOC, O&G, TOC, DRO, Total Rec. Phenolics)*	YES	NO[2]	NA
6: Are dissolved parameters field filtered?	YES	NO[2]	NA
7: Are sample volumes adequate for tests requested?	YES	NO[2]	
8: Are VOC samples free of bubbles >6mm	YES	NO[2]	NA
9: Enter samples into logbook. Completed	YES	NO	
10: Place laboratory sample number on all containers and COC. Completed	YES	NO	
11: Complete Laboratory Tracking Sheet (LTS). Completed	YES	NO	NA
12: Start Nonconformance form.	YES	NO	NA
13: Initiate Subcontracting procedure. Completed	YES	NO	NA
14: Check laboratory sample number on all containers and COC. 11/24/04	YES	NO	NA

Short Hold-time tests:

24 Hours or less	48 Hours	7 days	Footnotes
Coliform	BOD	~~Ash~~	1 Notify proper lab group immediately.
Corrosivity = pH	Color	Aqueous Extractable Organics- ALL	2 Complete nonconformance memo.
Dissolved Oxygen	Nitrite or Nitrate	Flashpoint	
Hexavalent Chromium	Ortho Phosphorus	Free Liquids	
HPC	Surfactants	Sulfide	
Ferrous Iron	Turbidity	TDS	
Eh	En Core Preservation	TSS	
Odor	Power stop preservation	Total Solids	
Residual Chlorine		TVS	
Sulfite		TVSS	
		Unpreserved VOC's	

Rev. 2/05/04, Attachment to 1-REC-5.
Subject to QA Audit.

Reviewed by/date TAT 11/29/04

p:/everyone/forms/samplereceiving/crl.doc

En Chem

A Division of Pace Analytical Services, Inc.

Analysis Summary by Laboratory

1241 Bellevue Street
Green Bay, WI 54302

1090 Kennedy Avenue
Kimberly, WI 54136

Test Group Name	853906-001	853906-002	853906-003	853906-004	853906-005	853906-006	853906-007	853906-008	853906-009	853906-010	853906-011	853906-012	853906-013	853906-014	853906-015	853906-016	853906-017	853906-018	853906-019
ALKALINITY AS CACO3	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	G	G	
CYANIDE, WEAK & DISSOCIABLE -DI	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
IRON - DISSOLVED	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
MANGANESE - DISSOLVED	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
METHANE	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
NITROGEN, NO3 + NO2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
PAH/ PNA	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
PVOC	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
SULFATE	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	G	G	

Wisconsin Certification	
G = En Chem Green Bay	405132750 / DATCP: 105 000444
K = En Chem Kimberly	445134030
S = En Chem Superior	Not Applicable
C = Subcontracted Analysis	

(Please Print Legibly)
Company Name: Natural Resource Technology
Branch or Location: Pewaukee, WI
Project Contact: Jodi Barbeau
Telephone: 262-522-1204
Project Number: 1358
Project Name: WPSC - Wildwood
Project State: WI
Sampled By (Print): Jodi Barbeau
PO #:

EN CHEM INC.
1241 Bellevue St., Suite 9
Green Bay, WI 54302
920-469-2436
FAX 920-469-8827

CHAIN OF CUSTODY

103501

Quote #:
Mail Report To: Rebecca Cundell
Company: Natural Resource Technology
Address: 2371S W. Paul Road, Suite D
Pewaukee, WI 53072
Invoice To: Rebecca Cundell
Company: - as above -
Address: - as above -
Mail Invoice To: Rebecca Cundell

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=EnCore F=Methanol G=NaOH
H = Sodium Bisulfate Solution I = Sodium Thiosulfate J = Other

Data Package Options - (please circle if requested)
Sample Results Only (no QC)
EPA Level II (Subject to Surcharge)
EPA Level III (Subject to Surcharge)
EPA Level IV (Subject to Surcharge)

Regulatory Program: UST, RCRA, SDWA, NPDES, CERCLA

Matrix Codes: W=Water, S=Soil, A=Air, C=Charcoal, B=Biota, Sl=Sludge

LABORATORY ID (Lab Use Only)	FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO)	PRESERVATION (CODE)*	ANALYSES REQUESTED: RVOCs (8021B)	RAHs (8310)	Cyanide - Total & Amenable (SM4500CN)	Nitrate + Nitrite (EPA 300.0)	Sulfate (EPA 300.0) Alkalinity (EPA 310.2)	Methane (RSK175) Dissolved Iron Dissolved Manganese (6010)	TOTAL # OF BOTTLES SENT	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)
					N	D									
					N	A									
					Yes	G									
					N	C									
					N	A									
					N	B									
					Yes	D									
012	MW-502R	11-23-04	10:45	W			X	X	X	X	X	X	X		1 Amber A-250ml ACID, G-40ml
013	MW-501B		10:15				X	X	X	X	X	X	X		
014	MW-501AR		10:05				X	X	X	X	X	X	X		
015	MW-514A		11:35				X	X	X	X	X	X	X		
016	MW-514B		11:40				X	X	X	X	X	X	X		
017	QC-1						X	X	X	X	X	X	X		
018	QC-2						X	X	X	X	X	X	X		
	~~Trip Blank~~						X							5713 11/24/04	
019	Trip Blank						X								1-40ml TB

Rush Turnaround Time Requested (TAT) - Prelim
(Rush TAT subject to approval/surcharge)
Date Needed:
Transmit Prelim Rush Results by (circle):
Phone Fax E-Mail
Phone #:
Fax #:
E-Mail Address:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	11/24/04	Hague	11-24-04 1030
Hague	11-24-04 1400	Ashley Brumby	11/24/04 1400

En Chem Project No. 8539061
Sample Receipt Temp. R01
Sample Receipt pH (Wet/Metals) See COC
Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 3.0: 03/03

(Please Print Legibly)
Company Name: Natural Resource Technology
Branch or Location: Pewaukee, WI
Project Contact: Jody Barbeau
Telephone: 262-522-1206
Project Number: 1358
Project Name: WPSC - Willwood
Project State: WI
Sampled By (Print): Jody Barbeau
PO #:

EN CHEM INC.

1241 Bellevue St., Suite 9
Green Bay, WI 54302
920-469-2436
FAX 920-469-8827

VG1

CHAIN OF CUSTODY

103502

Page 1 of 2

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=EnCore F=Methanol G=NaOH
H = Sodium Bisulfate Solution I = Sodium Thiosulfate J = Other

Quote #:
Mail Report To: Rebecca Caudill
Company: Natural Resource Technology
Address: 23713 W. Paul Road, Suite D
Pewaukee, WI 53072
Invoice To: Rebecca Caudill
Company: Natural Resource Technology
Address: 23713 W. Paul Road, Suite D
Pewaukee, WI 53072
Mail Invoice To: Rebecca Caudill

Data Package Options - (please circle if requested)
Sample Results Only (no QC)
EPA Level II (Subject to Surcharge)
EPA Level III (Subject to Surcharge)
EPA Level IV (Subject to Surcharge)

Regulatory Program: UST, RCRA, SDWA, NPDES, CERCLA

Matrix Codes: W=Water, S=Soil, A=Air, C=Charcoal, B=Biota, Sl=Sludge

LABORATORY ID (Lab Use Only)	FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO)	PRESERVATION (CODE)*	ANALYSES REQUESTED: PVOCs (8021B)	PAHs (8310)	Cyanide - dissolvable with CSM450.01	Nitrate + Nitrite (EPA 300.0)	Sulfate (EPA 300.0)	Alkalinity (EPA 310.2)	Methane (8015 mod)	Dissolved Iron Dissolved Manganese (6010)	TOTAL # OF BOTTLES SENT	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)
					N	B											
					N	A											
					Yes	G											
					N	C											
					N	A											
					N	B											
					Yes	D											
001	MW-513	11-23-04	12:40	W			X	X	X	X	X	X	X			Cyanide + metals (field filtered)	1-Lamber 4-250ml ACDG, 6-40ml
002	MW-509		08:10				X	X	X	X	X	X	X				
003	MW-508		0800				X	X	X	X	X	X	X				
004	MW-507		0910				X	X	X	X	X	X	X				
005	MW-504		0830				X	X	X	X	X	X	X				
006	MW-505		0830				X	X	X	X	X	X	X				
007	MW-506A		0846				X	X	X	X	X	X	X				
008	MW-506B		0850				X	X	X	X	X	X	X				
009	MW-503		11:30				X	X	X	X	X	X	X				
010	MW-510R		11:50				X	X	X	X	X	X	X				
011	MW-511R		11:50				X	X	X	X	X	X	X				
	~~MW-512~~						X	X	X	X	X	X	X			JTB 11/25/04	

Rush Turnaround Time Requested (TAT) - Prelim
(Rush TAT subject to approval/surcharge)
Date Needed:
Transmit Prelim Rush Results by (circle):
Phone Fax E-Mail
Phone #:
Fax #:
E-Mail Address:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]		[signature] 11-24-04	1030
[signature] 11-24-04	1400	Ashley Bunkley 11/24/04	1400

En Chem Project No. 8539060
Sample Receipt Temp. R01
Sample Receipt pH (Wet/Metals) See COC
Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 3.0:

APPENDIX C

MANN-KENDALL ANALYSES

State of Wisconsin — **Mann-Kendall Statistical Test**

Department of Natural Resources — **Form 4400-215 (2/2001)**

Remediation and Redevelopment Program

Notice: This form is the DNR supplied spreadsheet referenced in Appendices A of Comm 46 and NR 746, Wis. Adm. Code. It is provided to consultants as an optional tool for groundwater contaminant trend analysis to support site closure requests under s. Comm 46.07, Comm 46.08, NR 746.07, NR 746.08, Wis. Adm. Code. Use this form or a manual method when seeking case closure under those rules. Earlier versions of this form should not be used.

Instructions: Do not change formulas or other information in cells with a blue background, only cells with a yellow background are used for data entry. To use the spreadsheet, provide at least four rounds and not more than ten rounds of data that is not seasonally affected. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" or "DATE ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at both 80 percent and 90 percent confidence levels. If a declining trend is present at 80 percent but not at 90 percent, a site is still eligible for closure under Comm 46 and NR 746 provided that other conditions in those rules are met. If an increasing or decreasing trend is not present, an additional coefficient of variation test is used to test for stability, as proposed by Wiedemeier et al, 1999. For additional information, refer to the Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.

Site Name = Former Sheboygan I MGP Site (Wildwood Ave.) | BRRTS No. = 02-60-001016 | Well Number = MW-502/502R

	Compound ->	Benzene	Benzo(a)pyrene	Chrysene	Naphthalene		
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	16-Aug-95	11.00	nd - 0.10	nd - 0.05	nd - 0.5		
2	26-Sep-95	1.40	nd - 0.10	nd - 0.05	nd - 0.5		
3	5-May-99	35.00	0.079	0.048	nd - 0.11		
4	3-Feb-00	11.00	nd - 0.06	nd - 0.028	nd - 0.0265		
5	9-Oct-03	0.86	0.044	0.08	0.37		
6	23-Nov-04	30.00	0.035	0.045	0.11		
7							
8							
9							
10							
	Mann Kendall Statistic (S) =	0.0	-14.0	-4.0	-7.0	0.0	0.0
	Number of Rounds (n) =	6	6	6	6	0	0
	Average =	14.88	0.07	0.05	0.27	#DIV/0!	#DIV/0!
	Standard Deviation =	14.435	0.028	0.017	0.213	#DIV/0!	#DIV/0!
	Coefficient of Variation(CV)=	0.970	0.400	0.335	0.790	#DIV/0!	#DIV/0!
Error Check, Blank if No Errors Detected						n<4	n<4
Trend ≥ 80% Confidence Level		No Trend	**DECREASING**	No Trend	**DECREASING**	n<4	n<4
Trend ≥ 90% Confidence Level		No Trend	**DECREASING**	No Trend	No Trend	n<4	n<4
Stability Test, If No Trend Exists at 80% Confidence Level		**CV <= 1 STABLE**	NA	**CV <= 1 STABLE**	NA	n<4 n<4	n<4 n<4

Data Entry By = JTB | Date = 18-Jan-05 | Checked By = EPK

Notes: non-detect value's are shown with "nd -" with a value that is 1/2 the value of the minimum detection limit.

State of Wisconsin — **Mann-Kendall Statistical Test**

Department of Natural Resources — **Form 4400-215 (2/2001)**

Remediation and Redevelopment Program

Notice: This form is the DNR supplied spreadsheet referenced in Appendices A of Comm 46 and NR 746, Wis. Adm. Code. It is provided to consultants as an optional tool for groundwater contaminant trend analysis to support site closure requests under s. Comm 46.07, Comm 46.08, NR 746.07, NR 746.08, Wis. Adm. Code. Use this form or a manual method when seeking case closure under those rules. Earlier versions of this form should not be used.

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Site Name = Former Sheboygan I MGP Site (Wildwood Ave.) | BRRTS No. = 02-60-001016 | Well Number = MW-503

	Compound ->	Benzene Concentration (leave blank if no data)	Benzo(a)pyrene Concentration (leave blank if no data)	Chrysene Concentration (leave blank if no data)	Naphthalene Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
Event Number	Sampling Date (most recent last)						
1	16-Aug-95	nd - 50	0.21	0.82	3,500		
2	26-Sep-95	nd - 50	0.23	0.72	5,900		
3	5-May-99	8.70	0.12	0.48	1,200		
4	3-Feb-00	15.00	nd - 0.065	nd - 0.0295	391		
5	9-Oct-03	nd - 0.15	0.04	0.13	2.50		
6	23-Nov-04	nd - 0.07	nd - 0.009	0.029	0.17		
7							
8							
9							
10							
	Mann Kendall Statistic (S) =	-12.0	-13.0	-13.0	-13.0	0.0	0.0
	Number of Rounds (n) =	6	6	6	6	0	0
	Average =	20.65	0.11	0.37	1832.28	#DIV/0!	#DIV/0!
	Standard Deviation =	23.415	0.091	0.354	2387.862	#DIV/0!	#DIV/0!
	Coefficient of Variation(CV)=	1.134	0.802	0.962	1.303	#DIV/0!	#DIV/0!
Error Check, Blank if No Errors Detected						n<4	n<4
Trend ≥ 80% Confidence Level		DECREASING	DECREASING	DECREASING	DECREASING	n<4	n<4
Trend ≥ 90% Confidence Level		DECREASING	DECREASING	DECREASING	DECREASING	n<4	n<4
Stability Test, If No Trend Exists at 80% Confidence Level		NA	NA	NA	NA	n<4 n<4	n<4 n<4

Data Entry By = JTB | Date = 18-Jan-05 | Checked By = EPK

Notes: non-detect value's are shown with "nd -" with a value that is 1/2 the value of the minimum detection limit.

State of Wisconsin — **Mann-Kendall Statistical Test**

Department of Natural Resources — **Form 4400-215 (2/2001)**

Remediation and Redevelopment Program

Notice: This form is the DNR supplied spreadsheet referenced in Appendices A of Comm 46 and NR 746, Wis. Adm. Code. It is provided to consultants as an optional tool for groundwater contaminant trend analysis to support site closure requests under s. Comm 46.07, Comm 46.08, NR 746.07, NR 746.08, Wis. Adm. Code. Use this form or a manual method when seeking case closure under those rules. Earlier versions of this form should not be used.

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Site Name = Former Sheboygan I MGP Site (Wildwood Ave.) | BRRTS No. = 02-60-001016 | Well Number = MW-504

Event Number	Compound -> Sampling Date (most recent last)	Benzene Concentration (leave blank if no data)	Benzo(a)pyrene Concentration (leave blank if no data)	Chrysene Concentration (leave blank if no data)	Naphthalene Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	16-Aug-95	1.20	nd - 0.10	nd - 0.05	nd - 0.5		
2	26-Sep-95	3.70	nd - 0.10	nd - 0.05	6.3		
3	5-May-99	nd - 0.065	nd - 0.0135	nd - 0.007	nd - 0.11		
4	3-Feb-00	1.70	nd - 0.060	nd - 0.028	5.6		
5	26-Jun-02	nd - 0.225	nd - 0.060	nd - 0.009	0.076		
6	9-Oct-03	8.9	0.042	0.045	25.0		
7	23-Nov-04	0.4	5.0	4.3	2.8		
8							
9							
10							
	Mann Kendall Statistic (S) =	1.0	-1.0	2.0	1.0	0.0	0.0
	Number of Rounds (n) =	7	7	7	7	0	0
	Average =	2.31	0.77	0.64	5.77	#DIV/0!	#DIV/0!
	Standard Deviation =	3.162	1.866	1.613	8.861	#DIV/0!	#DIV/0!
	Coefficient of Variation(CV)=	1.367	2.430	2.516	1.536	#DIV/0!	#DIV/0!
Error Check, Blank if No Errors Detected						n<4	n<4
Trend ≥ 80% Confidence Level		No Trend	No Trend	No Trend	No Trend	n<4	n<4
Trend ≥ 90% Confidence Level		No Trend	No Trend	No Trend	No Trend	n<4	n<4
Stability Test, If No Trend Exists at 80% Confidence Level		**CV > 1 NON-STABLE**	**CV > 1 NON-STABLE**	**CV > 1 NON-STABLE**	**CV > 1 NON-STABLE**	n<4 n<4	n<4 n<4

Data Entry By = JTB | Date = 18-Jan-05 | Checked By = EPK

Notes: non-detect value's are shown with "nd -" with a value that is 1/2 the value of the minimum detection limit.

State of Wisconsin — **Mann-Kendall Statistical Test**

Department of Natural Resources — **Form 4400-215 (2/2001)**

Remediation and Redevelopment Program

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Site Name = Former Sheboygan I MGP Site (Wildwood Ave.) | BRRTS No. = 02-60-001016 | Well Number = MW-505

Event Number	Sampling Date (most recent last)	Benzene Concentration (leave blank if no data)	Benzo(a)pyrene Concentration (leave blank if no data)	Chrysene Concentration (leave blank if no data)	Naphthalene Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
	Compound ->						
1	16-Aug-95	17	0.59	0.84	1,100		
2	26-Sep-95	21	0.46	1.2	860		
3	5-May-99	5.0	98	57	18		
4	3-Feb-00	82	2.1	12	6.0		
5	26-Jun-02	17	0.24	0.45	0.66		
6	9-Oct-03	57	0.76	1.80	5.0		
7	23-Nov-04	nd - 0.07	nd - 0.009	nd - 0.009	0.03		
8							
9							
10							
	Mann Kendall Statistic (S) =	-2.0	-7.0	-5.0	-19.0	0.0	0.0
	Number of Rounds (n) =	7	7	7	7	0	0
	Average =	28.44	14.59	10.47	284.24	#DIV/0!	#DIV/0!
	Standard Deviation =	29.877	36.785	20.941	480.353	#DIV/0!	#DIV/0!
	Coefficient of Variation(CV)=	1.051	2.521	2.000	1.690	#DIV/0!	#DIV/0!
Error Check, Blank if No Errors Detected						n<4	n<4
Trend ≥ 80% Confidence Level		No Trend	**DECREASING**	No Trend	**DECREASING**	n<4	n<4
Trend ≥ 90% Confidence Level		No Trend	No Trend	No Trend	**DECREASING**	n<4	n<4
Stability Test, If No Trend Exists at		**CV > 1**		**CV > 1**		n<4	n<4
80% Confidence Level		**NON-STABLE**	NA	**NON-STABLE**	NA	n<4	n<4

Data Entry By = JTB | Date = 18-Jan-05 | Checked By = EPK

Notes: non-detect value's are shown with "nd -" with a value that is 1/2 the value of the minimum detection limit.

State of Wisconsin — **Mann-Kendall Statistical Test**

Department of Natural Resources — **Form 4400-215 (2/2001)**

Remediation and Redevelopment Program

Notice: This form is the DNR supplied spreadsheet referenced in Appendices A of Comm 46 and NR 746, Wis. Adm. Code. It is provided to consultants as an optional tool for groundwater contaminant trend analysis to support site closure requests under s. Comm 46.07, Comm 46.08, NR 746.07, NR 746.08, Wis. Adm. Code. Use this form or a manual method when seeking case closure under those rules. Earlier versions of this form should not be used.

Instructions: Do not change formulas or other information in cells with a blue background, only cells with a yellow background are used for data entry. To use the spreadsheet, provide at least four rounds and not more than ten rounds of data that is not seasonally affected. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" or "DATE ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at both 80 percent and 90 percent confidence levels. If a declining trend is present at 80 percent but not at 90 percent, a site is still eligible for closure under Comm 46 and NR 746 provided that other conditions in those rules are met. If an increasing or decreasing trend is not present, an additional coefficient of variation test is used to test for stability, as proposed by Wiedemeier et al, 1999. For additional information, refer to the Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.

Site Name = Former Sheboygan I MGP Site (Wildwood Ave.) | BRRTS No. = 02-60-001016 | Well Number = MW-506A

Event Number	Sampling Date (most recent last)	Benzene Concentration (leave blank if no data)	Benzo(a)pyrene Concentration (leave blank if no data)	Chrysene Concentration (leave blank if no data)	Naphthalene Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
	Compound ->						
1	16-Aug-95	220	0.53	0.73	2,300		
2	26-Sep-95	150	0.6	0.71	1,300		
3	5-May-99	31	5.9	4.4	4.7		
4	3-Feb-00	130	5.1	3.4	179		
5	26-Jun-02	57	0.30	0.41	33		
6	9-Oct-03	130	nd - 14	nd - 14	560		
7	23-Nov-04	80	1.0	1.4	60		
8							
9							
10							
	Mann Kendall Statistic (S) =	-8.0	5.0	3.0	-7.0	0.0	0.0
	Number of Rounds (n) =	7	7	7	7	0	0
	Average =	114.00	3.92	3.58	633.81	#DIV/0!	#DIV/0!
	Standard Deviation =	63.689	5.018	4.838	867.785	#DIV/0!	#DIV/0!
	Coefficient of Variation(CV)=	0.559	1.280	1.352	1.369	#DIV/0!	#DIV/0!
Error Check, Blank if No Errors Detected						n<4	n<4
Trend ≥ 80% Confidence Level		**DECREASING**	No Trend	No Trend	**DECREASING**	n<4	n<4
Trend ≥ 90% Confidence Level		No Trend	No Trend	No Trend	No Trend	n<4	n<4
Stability Test, If No Trend Exists at 80% Confidence Level		NA	**CV > 1 NON-STABLE**	**CV > 1 NON-STABLE**	NA	n<4 n<4	n<4 n<4

Data Entry By = JTB | Date = 18-Jan-05 | Checked By = EPK

Notes: non-detect value's are shown with "nd -" with a value that is 1/2 the value of the minimum detection limit.

APPENDIX D

FIGURES 3-1, 4-4, AND 4-5
(PHASE II REPORT)

PHASE II SAMPLING LOCATIONS

WPSC SHEBOYGAN I
WILDWOOD AVENUE
SHEBOYGAN, WISCONSIN

DRAWN BY: TAS	DATE: 11/7/95	
CHECKED BY: SAG	DATE: 2/28/96	
APPROVED BY: SAG	DATE: 6/28/96	
AUTOCAD FILE: 1058-B10.DWG		

Natural Resource Technology

PROJECT NO. 1058/7

DRAWING NO. 1058-B10

FIGURE NO. 3-1

NEW JERSEY AVENUE

WILDWOOD AVENUE

PUBLIC AVENUE

BENCHMARK

BENCHMARK

BITUMINOUS

OFFICES

GARAGE/ WAREHOUSE

GARAGE

PIPE STORAGE AREA

CONCRETE PAD

QUENCHED TRACK

QUENCHING HOUSE

COKE SCRAPING PUMP HOUSE

OVEN

GATE

COOLER

FLARE PILE

FORMER STACK

BOILER HOUSE

PUMP ROOM

CONDENSER BUILDING

WATER TANK CONTAINER

GAS CONTROL

BOILER ROOM

PURIFIER

CONDENSERS

EDUCATOR TANK

TAR TANKS

WATER TANK AND SCALE

TAR STORAGE TANK

GAS HOLDER

PUMP HOUSE

CONCRETE

SPUR

TRACK

SB-512
SB-514
TP-509
SB-511
SB-513
FUEL STILL CAP
OW-3
TP-512
SS-505
TP-510
SB-506
TP-511
MW-508
TP-508
MW-509
SS-504
SB-505
SB-504
SB-504B
SB-504C (GW-502)
SS-503
MW-504
SS-2
SB-507
SB-503
MW-505
SB-508
SB-510
SB-509
TP-505
SB-502
MW-507
MW-506A
MW-506B
AS-1
SB-1
SS-502
AS-2
AS-3
AS-4
MW-501A
OW-2
MW-501B
TP-501
TP-502
MW-502
TP-503
TP-506
SB-2
SS-4
SB-501B
SB-501
SB-501C (GW-501)
TP-507
SS-501
TP-504
OW-1
MW-503

LEGEND

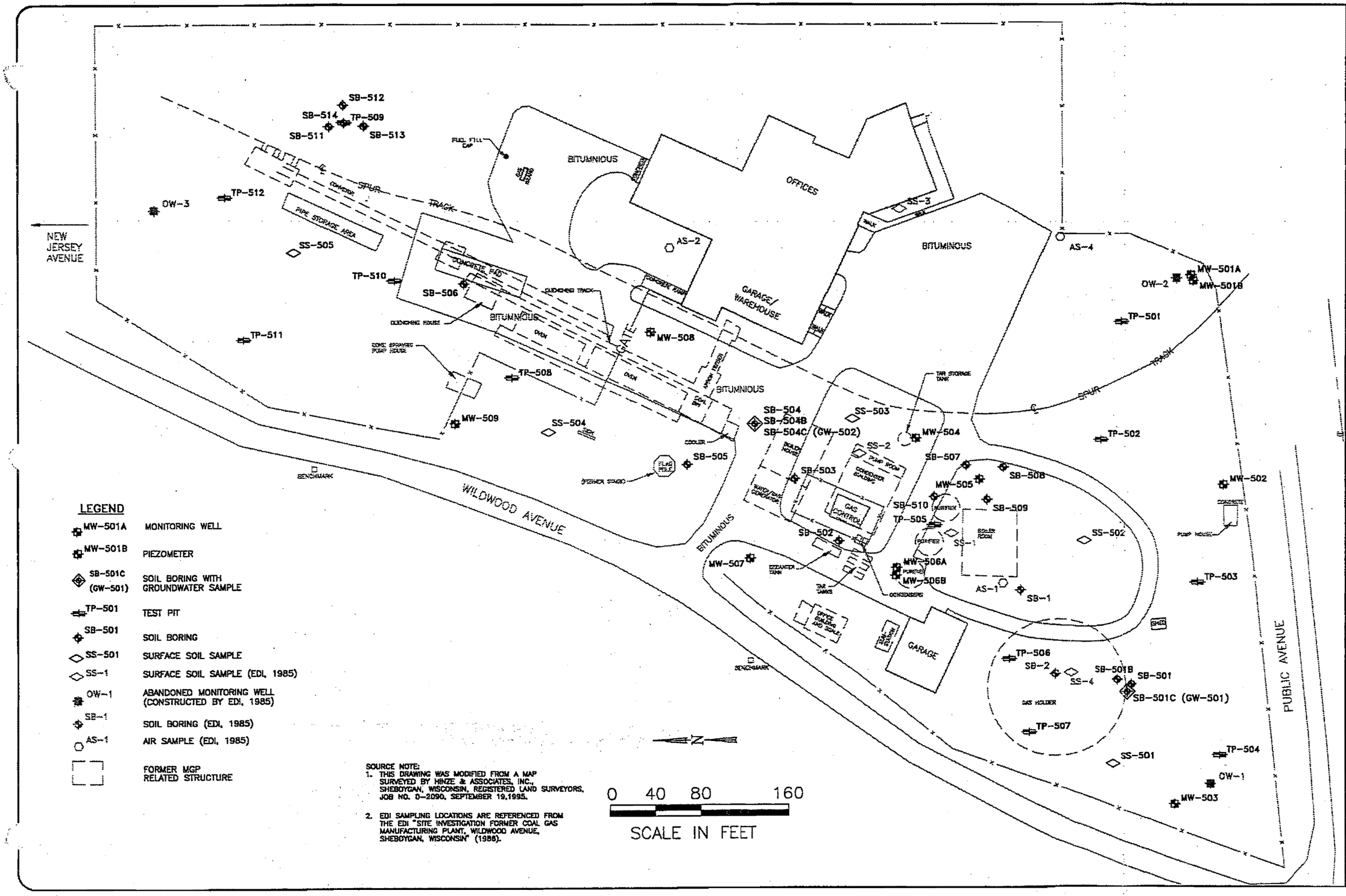
MW-501A	MONITORING WELL
MW-501B	PIEZOMETER
SB-501C (GW-501)	SOIL BORING WITH GROUNDWATER SAMPLE
TP-501	TEST PIT
SB-501	SOIL BORING
SS-501	SURFACE SOIL SAMPLE
SS-1	SURFACE SOIL SAMPLE (EDI, 1985)
OW-1	ABANDONED MONITORING WELL (CONSTRUCTED BY EDI, 1985)
SB-1	SOIL BORING (EDI, 1985)
AS-1	AIR SAMPLE (EDI, 1985)
	FORMER MGP RELATED STRUCTURE

SOURCE NOTE:
1. THIS DRAWING WAS MODIFIED FROM A MAP SURVEYED BY HINZE & ASSOCIATES, INC., SHEBOYGAN, WISCONSIN, REGISTERED LAND SURVEYORS. JOB NO. D-2090, SEPTEMBER 19,1995.
2. EDI SAMPLING LOCATIONS ARE REFERENCED FROM THE EDI "SITE INVESTIGATION FORMER COAL GAS MANUFACTURING PLANT, WILDWOOD AVENUE, SHEBOYGAN, WISCONSIN" (1986).

N

0 40 80 160

SCALE IN FEET



LEGEND

MW-501A	MONITORING WELL
MW-501B	PIEZOMETER
SB-501C (GW-501)	SOIL BORING WITH GROUNDWATER SAMPLE
TP-501	TEST PIT
SB-501	SOIL BORING
SS-501	SURFACE SOIL SAMPLE
SS-1	SURFACE SOIL SAMPLE (EDI, 1985)
OW-1	ABANDONED MONITORING WELL (CONSTRUCTED BY EDI, 1985)
SB-1	SOIL BORING (EDI, 1985)
AS-1	AIR SAMPLE (EDI, 1985)
	FORMER MGP RELATED STRUCTURE

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2. EDI SAMPLING LOCATIONS ARE REFERENCED FROM THE EDI "SITE INVESTIGATION FORMER COAL GAS MANUFACTURING PLANT, WILDWOOD AVENUE, SHEBOYGAN, WISCONSIN" (1988).

0 40 80 160
SCALE IN FEET

DRAWN BY: TAS DATE: 11/7/95
CHECKED BY: SAG DATE: 2/28/96
APPROVED BY: SAG DATE: 6/28/96
AUTOCAD FILE: 1058-B10.DWG

PHASE II SAMPLING LOCATIONS

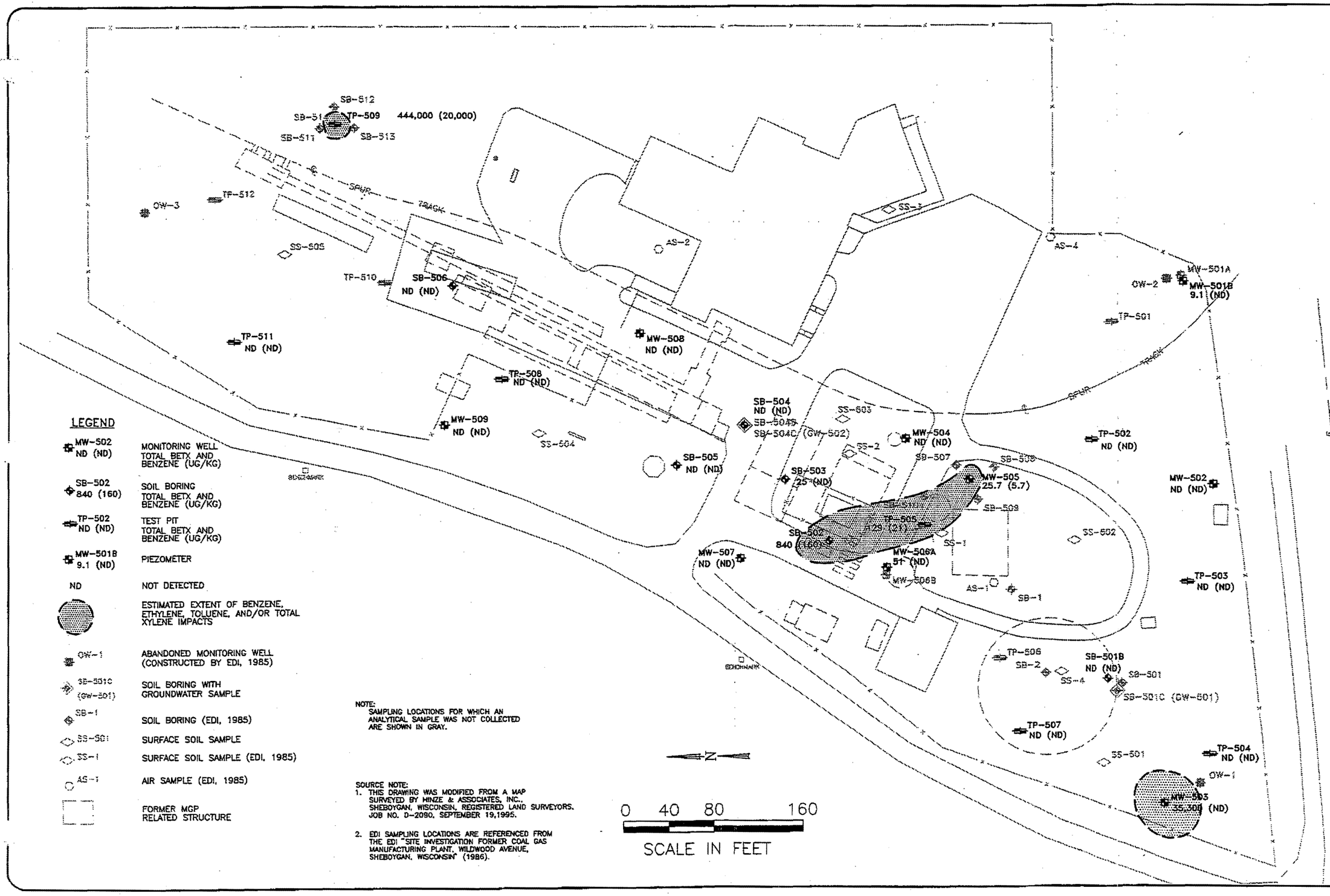
WPSC SHEBOYGAN I
WILDWOOD AVENUE
SHEBOYGAN, WISCONSIN

Natural Resource Technology

PROJECT NO. 1058/7

DRAWING NO. 1058-B10

FIGURE NO. 3-1



LEGEND

MW-502 ND (ND)	MONITORING WELL TOTAL BETX AND BENZENE (UG/KG)
SB-502 840 (160)	SOIL BORING TOTAL BETX AND BENZENE (UG/KG)
TP-502 ND (ND)	TEST PIT TOTAL BETX AND BENZENE (UG/KG)
MW-501B 9.1 (ND)	PIEZOMETER
ND	NOT DETECTED
	ESTIMATED EXTENT OF BENZENE, ETHYLENE, TOLUENE, AND/OR TOTAL XYLENE IMPACTS
OW-1	ABANDONED MONITORING WELL (CONSTRUCTED BY EDI, 1985)
SB-501C (GW-501)	SOIL BORING WITH GROUNDWATER SAMPLE
SB-1	SOIL BORING (EDI, 1985)
SS-501	SURFACE SOIL SAMPLE
SS-1	SURFACE SOIL SAMPLE (EDI, 1985)
AS-1	AIR SAMPLE (EDI, 1985)
	FORMER MGP RELATED STRUCTURE

NOTE:
SAMPLING LOCATIONS FOR WHICH AN ANALYTICAL SAMPLE WAS NOT COLLECTED ARE SHOWN IN GRAY.

SOURCE NOTE:
1. THIS DRAWING WAS MODIFIED FROM A MAP SURVEYED BY MINZE & ASSOCIATES, INC., SHEBOYGAN, WISCONSIN, REGISTERED LAND SURVEYORS. JOB NO. D-2090, SEPTEMBER 19,1995.
2. EDI SAMPLING LOCATIONS ARE REFERENCED FROM THE EDI "SITE INVESTIGATION FORMER COAL GAS MANUFACTURING PLANT, WILDWOOD AVENUE, SHEBOYGAN, WISCONSIN" (1986).

N

0 40 80 160
SCALE IN FEET

TOTAL BETX AND BENZENE CONCENTRATIONS IN SOIL (UG/KG)

WPSC SHEBOYGAN I
WILDWOOD AVENUE
SHEBOYGAN, WISCONSIN

DRAWN BY: TAS	CHECKED BY: SAG	APPROVED BY: SAG
DATE: 11/2/95	DATE: 2/28/96	DATE: 6/28/96

AUTOCAD FILE: 1058-B06.DWG

Natural Resource Technology

PROJECT NO. 1058/7

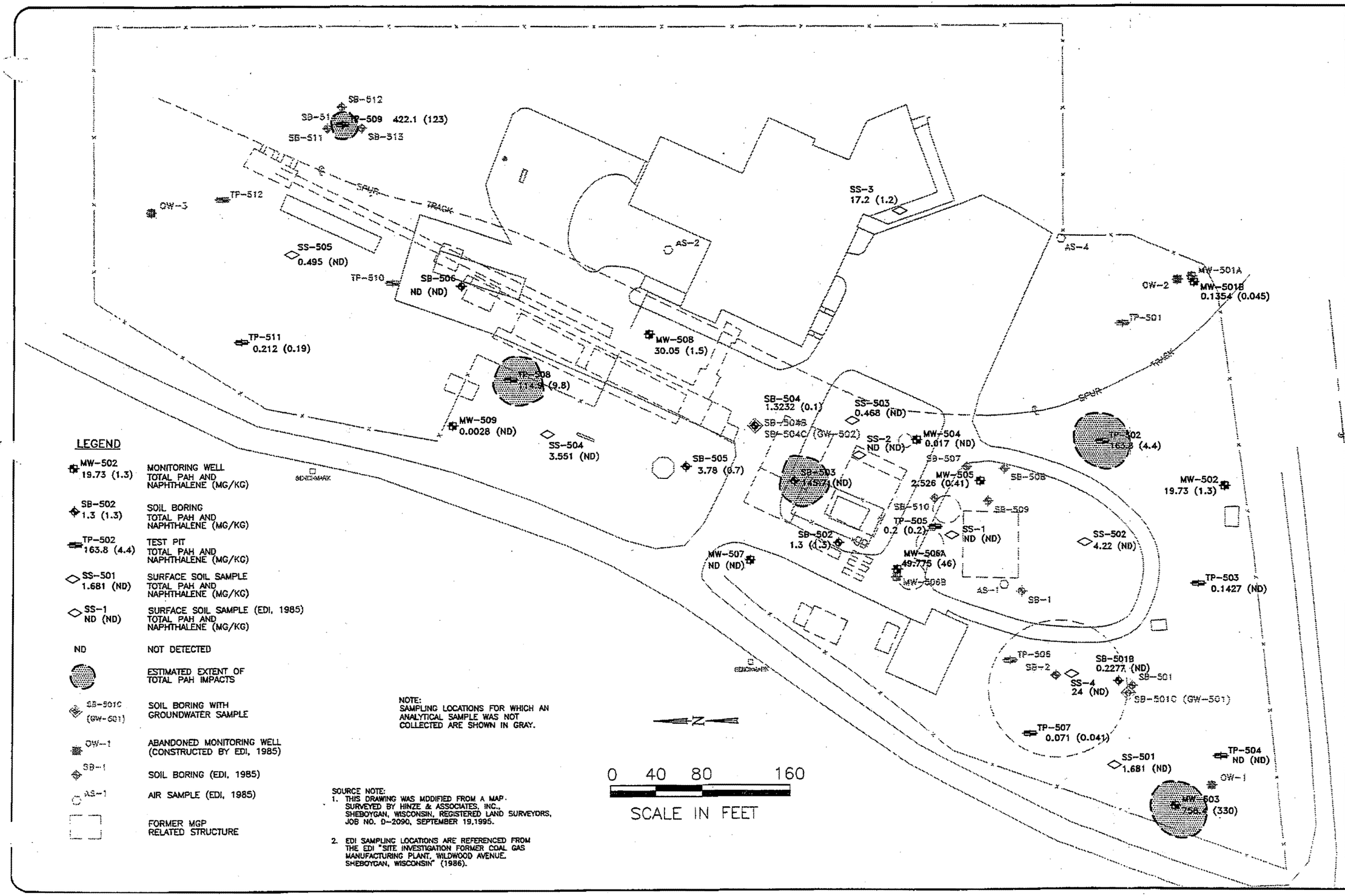
DRAWING NO. 1058-B06

FIGURE NO. 4-4

TOTAL PAH AND NAPHTHALENE CONCENTRATIONS IN SOIL (MG/KG)

WPSC SHEBOYGAN I
WILDWOOD AVENUE
SHEBOYGAN, WISCONSIN

DRAWN BY: TAS	DATE: 11/2/95	
CHECKED BY: SAG	DATE: 2/28/96	
APPROVED BY: SAG	DATE: 6/28/96	
AUTOCAD FILE: 1058-B05.DWG		



LEGEND

MW-502 19.73 (1.3)	MONITORING WELL TOTAL PAH AND NAPHTHALENE (MG/KG)
SB-502 1.3 (1.3)	SOIL BORING TOTAL PAH AND NAPHTHALENE (MG/KG)
TP-502 163.8 (4.4)	TEST PIT TOTAL PAH AND NAPHTHALENE (MG/KG)
SS-501 1.681 (ND)	SURFACE SOIL SAMPLE TOTAL PAH AND NAPHTHALENE (MG/KG)
SS-1 ND (ND)	SURFACE SOIL SAMPLE (EDI, 1985) TOTAL PAH AND NAPHTHALENE (MG/KG)
ND	NOT DETECTED
	ESTIMATED EXTENT OF TOTAL PAH IMPACTS
SB-501C (GW-501)	SOIL BORING WITH GROUNDWATER SAMPLE
GW-1	ABANDONED MONITORING WELL (CONSTRUCTED BY EDI, 1985)
SB-1	SOIL BORING (EDI, 1985)
AS-1	AIR SAMPLE (EDI, 1985)
	FORMER MGP RELATED STRUCTURE

NOTE:
SAMPLING LOCATIONS FOR WHICH AN ANALYTICAL SAMPLE WAS NOT COLLECTED ARE SHOWN IN GRAY.

SOURCE NOTE:
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2. EDI SAMPLING LOCATIONS ARE REFERENCED FROM THE EDI "SITE INVESTIGATION FORMER COAL GAS MANUFACTURING PLANT, WILDWOOD AVENUE, SHEBOYGAN, WISCONSIN" (1986).

Natural Resource Technology

PROJECT NO. 1058/7

DRAWING NO. 1058-B05

FIGURE NO. 4-5