Natural Resource Technology, Inc.
N R T

December 22, 2004
(1313)

Ms. Victoria Stovall
Wisconsin Department of Natural Resources
Southeast Region Headquarters
2300 N. Dr. Martin Luther King Jr. Drive
Milwaukee, Wisconsin 53212

RE: Transmittal, 2004 Annual Operation, Maintenance, and Monitoring Report
Campmarina, Former Manufactured Gas Plant Site
Wisconsin Public Service Corporation
Sheboygan, Wisconsin
DNR Activity #: 02-60-000095

Dear Ms. Stovall:

On behalf of the Wisconsin Public Service Corporation (WPS), enclosed is one copy of the 2004 Annual Operation, Maintenance, and Monitoring Report for the Campmarina, Former Manufactured Gas Plant Site located in Sheboygan, Wisconsin. Please forward this report to Mr. John Feeney at the Wisconsin Department of Natural Resources - Plymouth Service Center.

If you have any questions or if you require additional copies for your files, please contact Ms. Shirley Scharff of WPS at (920) 433-1396.

Sincerely,

NATURAL RESOURCE TECHNOLOGY

Heather M. Simon, E.I.T.
Environmental Engineer

Christopher A. Robb, P.E.
Project Manager

Enclosure: 2004 Annual Operation, Maintenance, and Monitoring Report (1 copy)

cc: Mr. John Feeney, WDNR (transmittal letter only)
Mr. Shirley Scharff, WPSC (1 copy)

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Natural Resource Technology, Inc.
N R T

December 22, 2004
(1313)

Mr. John Feeney
Wisconsin Department of Natural Resources
Richards Street Annex
4041 N. Richards Street
P.O. Box 12436
Milwaukee, Wisconsin 53212

RE: 2004 Annual Operation, Maintenance, and Monitoring Report
Former Wisconsin Public Service Corporation Manufactured Gas Plant Site,
Campmarina and Center Avenue Right-of-Way, Sheboygan, WI.
FID #: 460134950
DNR Activity #: 02-60-000095

Dear Mr. Feeney:

On behalf of Wisconsin Public Service Corporation (WPSC), enclosed is the Operation, Maintenance and Monitoring Report (O&M Report) for the period of November 1, 2003 through October 31, 2004 for the former WPSC Campmarina Manufactured Gas Plant (MGP) site in Sheboygan, Wisconsin (Figure 1). The report includes:

- Containment performance evaluation;
- Biosparge system performance evaluation; and
- Inspection results of institutional controls.

In addition, the WDNR Form 4400-194 (Operation, Maintenance, Monitoring and Optimization Reporting of Soil and Groundwater Remediation Systems) is included as Appendix A. Finally, a future monitoring schedule is included herein.

CONTAINMENT PERFORMANCE

The engineered components of the containment barrier consist of a sheet pile barrier wall surrounding the perimeter of the site and keyed into a clay aquitard, and a geosynthetic cap across the entire site. The primary objective of the remedy is to effectively contain the MGP residual remaining on-site. To demonstrate containment of the MGP residuals, two primary performance measures have been identified:

- Primary measure: Evaluation of groundwater elevation data; and
- Secondary measure: Evaluation of contaminant concentration trends in the shallow groundwater monitoring wells and deep piezometers.

Containment performance is summarized in Table 1 Groundwater Elevation and Vertical Gradients and Figures 2 and 3, showing shallow groundwater elevation contours before and during biosparge operation, respectively. Figures 4 and 5 indicate deeper aquifer potentiometric surface contours. Please note that Table 1, and Figures 2 and 4 are revised from the previous 2003 annual O&M Report to include updated groundwater elevations based on new survey data obtained in February 2004 at all of the wells. The survey was performed to confirm the top of casing elevation of all the groundwater monitoring wells at the site.

Containment of the plume has been achieved based on groundwater elevation data, the primary measure of containment performance. The increasing groundwater elevations in MW-708 outside the containment barrier compared to the lower groundwater elevations in MW-706 within the containment barrier demonstrate containment has been achieved. Recent groundwater elevations collected from the monitoring wells within the containment barrier, indicates shallow groundwater flow to the west towards the river, with a southerly flow component towards well MW-707R. Deeper groundwater appears to continue to flow to the southwest based on data collected prior to and during biosparge system operation.

Groundwater elevations have increased within the containment barrier since startup. If groundwater elevations increase to the elevation of the geosynthetic cap, the drainage/venting layer would convey the groundwater to flow to the perimeter drain and discharge to the sump located below the biosparge treatment building. The cause of the increasing groundwater elevations within the containment barrier has not been fully identified and will be further evaluated through future measurement of groundwater elevations.

The secondary measure of containment performance is contaminant concentration trends in shallow monitoring wells exterior to the containment barrier (MW-705, MW-708 and MW-709) and piezometers below the containment barrier (PZ-701, PZ-702 and PZ-703). Groundwater samples were collected from all the monitoring wells and piezometers in November 2003 and May 2004. An additional groundwater sample was collected from PZ-703 in August 2004 to better evaluate contaminant trends at this piezometer. Results of the most recent rounds of groundwater monitoring are presented in Appendix B, and summarized in Figure 6, and Tables 2 and 3.

Contaminant concentrations in shallow monitoring wells exterior to the containment barrier and deep piezometers PZ-701 and PZ-702 (below the containment barrier) including BTEX, PAHs and weak acid dissociable cyanide are below their respective NR 140 Preventive Action Limits (PAL) with the exception of benzo(a)pyrene detected at the NR 140 PAL at MW-705. At deep piezometer PZ-703, PAH and BTEX concentrations have increased, as evident on Tables 2 and 3.

In the 2003 Annual O&M report, the following statements were included with respect to the increase in contaminant concentrations at piezometer PZ-703.

> "One or more of the following lines of evidence may cause increased concentrations of contaminants in PZ-703 in the recent past:
>
> - Heavy equipment that damaged MW-707 during Phase I remediation activities may have also caused damage to PZ-703. MW-707R replaced MW-707 in February 2001. The concentration of benzene increased by one order of magnitude between groundwater sampling events in January 1999 and June 2002, however, variations in benzene

concentration of this magnitude between sampling rounds are not uncommon at PZ-703. A contributing factor may be the effect of purging PZ-703 prior to sampling, potentially causing contaminant drag down over time.

- Generally downward vertical gradient at PZ-703 may have contributed to contaminant migration, as concentrations of BTEX and PAH contaminants are relatively high at the nested water table well, MW-707/707R. Table 1 indicates a downward vertical gradient averaging 8.4 x 10^{-2} ft/ft since installation of PZ-703 in 1998.
- Biosparge well BW-09 is located within 20 feet of PZ-703 (radius of influence for each well is assumed to be 30 feet), and is screened at approximately 571 feet, USGS datum. BW-09 screen is at a significantly higher elevation than the piezometer screen for PZ-703. Biosparge pressures at BW-09 typically range from 4.0 to 4.5 psi (Appendix D), which is a lower pressure range than average across the site. It is unlikely, but possible that short-circuiting of pressurized air from the biosparge system is contributing to downward contaminant migration.

Additional evaluation of data may yield further possible lines of evidence."

Additional evaluation of the data has yielded the following comments:

- The site experienced an unusually wet Spring that may have contributed to further increases in concentrations observed at the piezometer. Additional data is required to further evaluate if unusually heavy precipitation influenced the concentrations observed at PZ-703 and if results observed in 2004 can be categorized as anomalous relative to the heavy rainfall totals. The data collection is discussed below in future monitoring section.
- Piezometer PZ-703 was constructed with a permanent steel casing installed into the clay to an elevation of approximately 569.9 feet. Based on this construction, it is unlikely that this well was damaged in such a way as to affect the annular space seal integrity. While surface damage might possibly affect the integrity as deep as 8 to 10 feet bgs (581.2 to 579.2 feet elevation), the steel casing and associated grout seals this well to at least 569.2 feet elevation. Therefore, it is unlikely that any damage to the well would be significant enough to allow contamination to migrate to the piezometer screen.
- On January 12, 2004, the valve was closed to BW-09 to determine whether or not BW-09 was contributing to downward contaminant migration at PZ-703. BW-09 was determined not to be contributing to the high contaminant concentrations at PZ-703 since contaminant concentrations continued to increase since January 12th and based on the evaluation of PZ-703 and BW-09 well construction. Air introduced through biosparge well BW-9 at the well screen, which extends from elevation 570.8 to 568.3 feet is at a depth slightly below the base of the steel casing around PZ-703 (569.2 feet elevation). It is unlikely that this would cause the entire annular seal to desiccate and significantly affect its integrity. Therefore, BW-9 valve was opened on September 21, 2004 to continue sparging in the vicinity of PZ-703.

BIOSPARGE SYSTEM PERFORMANCE

The low flow biosparge system consists of 18 biosparge wells that inject air at a relatively low pressure and flow rate to enhance aerobic microbial degradation of contaminants within the containment barrier, as shown on Figures 2 through 6. Passive venting is provided in the form of a perimeter drain and venting system within the containment barrier. The perimeter drain is pitched to a sump located below the biosparge treatment building, to collect water that may accumulate within the containment barrier. Water levels are measured regularly within the sump as an indicator of containment barrier integrity. A passive venting system stack is located above the treatment building, and enhanced by a wind powered exhaust turbine. The biosparge treatment building contains a compressor, manifold conveyance piping and control panel to inject air to six wells at a time, with adjustable manifold cycling intervals. Programmable logic controls will automatically trigger an alarm and cease biosparge compressor operation if pressure in the passive venting stack exceeds 1 psi. Nutrient feed lines are contained within the biosparge conveyance pipes and may be utilized in the future to provide nutrient injection if enhancement biodegradation is warranted.

Operation and Maintenance

System operation and maintenance included:

- Monitoring for accumulation of vapor phase benzene, ethylbenzene, toluene, and total xylenes (BTEX) in the sump;
- Monitoring for any fluctuations in sump water levels;
- Adjustments to manifold cycling intervals currently set at 4 hours per day per well;
- Compressor oil changes;
- Monitoring of biosparge pressure readings; and
- Inspection of perimeter drain cleanouts.

Routine system monitoring and inspections are performed by WPSC personnel periodically, as shown on operation and maintenance logs provided in Appendix C. Alarm conditions and routine system status checks from the PLC control system are periodically reviewed by Natural Resource Technology, Inc. (NRT). The groundwater biosparge system has operated approximately 88.5% of the time between November 1, 2003 and October 31, 2004. Details of operation, maintenance and monitoring are provided in the WDNR Form 4400-194 (Appendix A).

During this period, the system was not operational from March 5 through 9, 2004, May 8 through 10, 2004, May 21 through 25, 2004, May 30 through June 4, 2004, and June 11 through 28, 2004 due to high building sump alarm conditions. The highest water level observed in the building sump was 41.5 inches deep (approximate 584 feet elevation) on June 1, 2004. The system was shutdown during these periods of high water levels and the system was checked periodically during alarm condition to observe any changes. Plans were initiated to remove the water from the sump, however water levels eventually decreased below alarm conditions.

Shallow Groundwater Monitoring

Shallow groundwater monitoring was used to evaluate biosparge system performance based on the following:

- Contaminant Concentration Trends – decrease in contaminant concentrations over time in groundwater within the containment barrier (**Trend 1**);and
- Geochemical Trends – evidence of increasing geochemical trends (i.e. methane) or decreasing geochemical trends (i.e. sulfate, nitrate) associated with increased biological activity, and evaluate dissolved oxygen (DO) trends during operation of the biosparge system (**Trend 2**).

To evaluate these trends, enhanced biodegradation of contaminants in groundwater within the containment barrier was evaluated at shallow groundwater monitoring wells MW-701R, MW-706 and MW-707R using the following performance monitoring parameters:

- Analytical Contaminant Parameters: BTEX, PAHs and weak acid dissociable cyanide measured during groundwater monitoring (Tables 2 and 3);
- Analytical Geochemical Parameters: nitrate, sulfate, and methane (Table 4); and
- Field Geochemical Parameters: water levels, dissolved oxygen, alkalinity, pH, temperature, specific conductance, oxidation/reduction potential (Table 4).

Monitoring wells were sampled for contaminant parameters and geochemical parameters in November 2003 and May 2004. Groundwater levels and field parameters were collected quarterly in November 2003, February, May and August 2004. Groundwater elevations are summarized on Table 1 and evaluated above in the containment performance section. Groundwater quality data from shallow monitoring wells MW-701R, MW-706 and MW-707R within the zone of containment are presented in Appendix B, and summarized on Figure 6 and Tables 2 through 4.

For contaminant concentration trend data (Trend 1), the following observations are noted for this monitoring period:

- Naphthalene concentrations have decreased in monitoring wells MW-701R and MW-706 (within the zone of containment) since July 2003, as shown on Figure 7.
- Benzene and naphthalene concentrations in monitoring well MW-707R have fluctuated and the most recent sampling results are similar to June 2002.

For geochemical trend data (Trend 2), the following observations are noted for this monitoring period:

- In general, sulfate concentrations, an indicator of biological activity, have been decreasing or remaining stable within the containment barrier since June 2002.
- Methane concentrations, another indicator of biological activity (metabolic byproduct of methanogenesis) had decreased between July 2003 and November 2003 within the containment barrier. However, methane concentrations increased within the containment

barrier between November 2003 and May 2004 may be an indication that biological activity is occurring. Methane concentrations are higher within the containment barrier (methane ranges from <10 to 6,700 µg/L) compared to outside the containment barrier (methane ranges from <10 to 250 µg/L).

- Sulfate and methane concentrations at MW-707R had increased between November 2003 and August 2004. These increases may indicate that biological activity not occurring since BW-09, the nearest biosparge well to MW-707R, was turned off.
- In general, oxidation/reduction potential and pH at MW-701R within the containment barrier between July 2003 and August 2004 have decreased. These results may indicate biological activity may be occurring (Table 4).

Trend 1 data will continue to be evaluated for future monitoring rounds. Limited monitoring data will be collected to assess Trend 2 data. The use of a field groundwater quality probe may be limited by the presence of coal tar in monitoring wells within the containment barrier if encountered.

Sump/Vent Monitoring

In general, the system performed in accordance with anticipated design parameters. Air monitoring of stack emissions was conducted to evaluate the presence of hydrogen sulfide and BTEX in soil vapors emitted. In addition, water levels within the sump were monitored for potential increase in groundwater elevations beneath the geosynthetic cover.

On February 17, 2004, the sump was evaluated for the presence of H_2S using a multi-gas meter. The meter did not detect the presence of H_2S in the sump (0.0 ppm). The meter detected 2% LEL that was similar to detected background air. Oxygen detection was 20.8% and carbon monoxide detection was 0 ppm. No vapor phase volatile organics were detected in the vent during system operation, based on photoionization readings on February 17 and May 20, 2004. Two air samples (VENT) were collected from the sampling port on the sump's ventilation stack using an impinger on February 17 and August 26, 2004. The air BTEX concentration results, as shown in Appendix D, were below detection levels of 0.38 µg/L.

Water accumulated in the sump between May and June 2004. The highest water level observed in the building sump was 41.5 inches deep on June 1, 2004, as stated above. Since June 1, 2004 the water had decreased. On September 21, 2004, the water level observed in the sump was 24.5 inches deep. We can not determine the reasons why the increase in water levels at this time but will evaluate in 2005. NRT will continue to evaluate and monitor the water levels in the sump.

OTHER INSTITUTIONAL CONTROLS

In accordance with the WDNR approved record of decision (ROD), WPSC is responsible for long term performance monitoring of additional remedy components including surface covers for the monitoring wells, cleanouts and biosparge wells, the biosparge building, piping and equipment, and geosynthetic cap and perimeter venting system cleanouts. These features were most recently inspected in August 2004.

Overall, the site appeared in good condition and has maintained its integrity. The cover above the geosynthetic cap has remained stable and has not shown any problems due to erosion. The Park structures are also in good condition with no indication of settling or cracking. Also, the riprap along the

river appears to be in good condition. A field inspection form completed in August 2004 is included in Appendix C.

FUTURE GROUNDWATER MONTIORING AND BIOSPARGE SYSTEM OPERATION

Long-term trends in groundwater quality will continue to be evaluated with respect to groundwater elevations, groundwater quality and geochemical parameters, as shown on Table 5. Geochemical parameters not significantly affected by aeration will continue to be collected, including only sulfate, nitrate and methane at shallow monitoring wells exterior to the containment barrier (MW-705, 708 and 709R) and piezometers below the containment barrier (PZ-701, 702 and 703). Field geochemical parameters will not be measured at monitoring wells within the containment barrier (MW-701R, 706 and 707R) due to the presence of coal tar. Groundwater samples collected from all the monitoring wells will continue to be analyzed for PAHs, BTEX and weak acid dissociable (WAD) cyanide in Year 3 (November 2004 and May 2005), as indicated on Table 5. If WAD cyanide analyses continue to confirm that cyanide concentrations remain below NR 140 PALs in late 2004 and 2005, future analysis of WAD cyanide will be discontinued and removed from the long-term groundwater monitoring plan.

NRT will assess the groundwater data results from BW-15 and BW-06 collected in May 2004 and future samples to determine whether the data is representative of the groundwater at each well. The groundwater samples will be collected from the nutrient feed tubes using a peristaltic pump and tubing, as they were sampled in May 2004. The first groundwater monitoring event for Year 3 was collected in November 2004. An evaluation of ongoing groundwater quality will be provided in the next annual operation, maintenance and monitoring report, to be submitted in December 2005.

NRT will continue to evaluate and monitor PZ-703 and the performance of the containment barrier. Additional data is required to further evaluate containment and determine the lines of evidence for the increase of contaminant concentrations at PZ-703 including the following:

1. Determine if heavy precipitation at the site in Spring 2004 resulted in anomalous concentration increases at PZ-703 relative to the heavy rainfall totals.

To complete this evaluation, we recommend continued semi-annual monitoring at PZ-703 in accordance with the schedule presented on Table 5. If we determine that heavy precipitation has not influenced concentrations at PZ-703, additional evaluation and data collection may be proposed in 2006. We will continue to operate the biosparge system at the current frequency of 4 hours per day per well. At this time enhancements for the biosparge system such as nutrient addition will not be implemented until further evaluation of PZ-703 is complete, and trend data and lines of evidence are well established.

Please contact Ms. Shirley Scharff of WPSC at (920) 433-1396 or the undersigned if you have any questions or if you require additional copies for your files.

Sincerely,

NATURAL RESOURCE TECHNOLOGY, INC.

Heather M. Simon, EIT
Project Engineer

Christopher A. Robb, PE
Project Manager

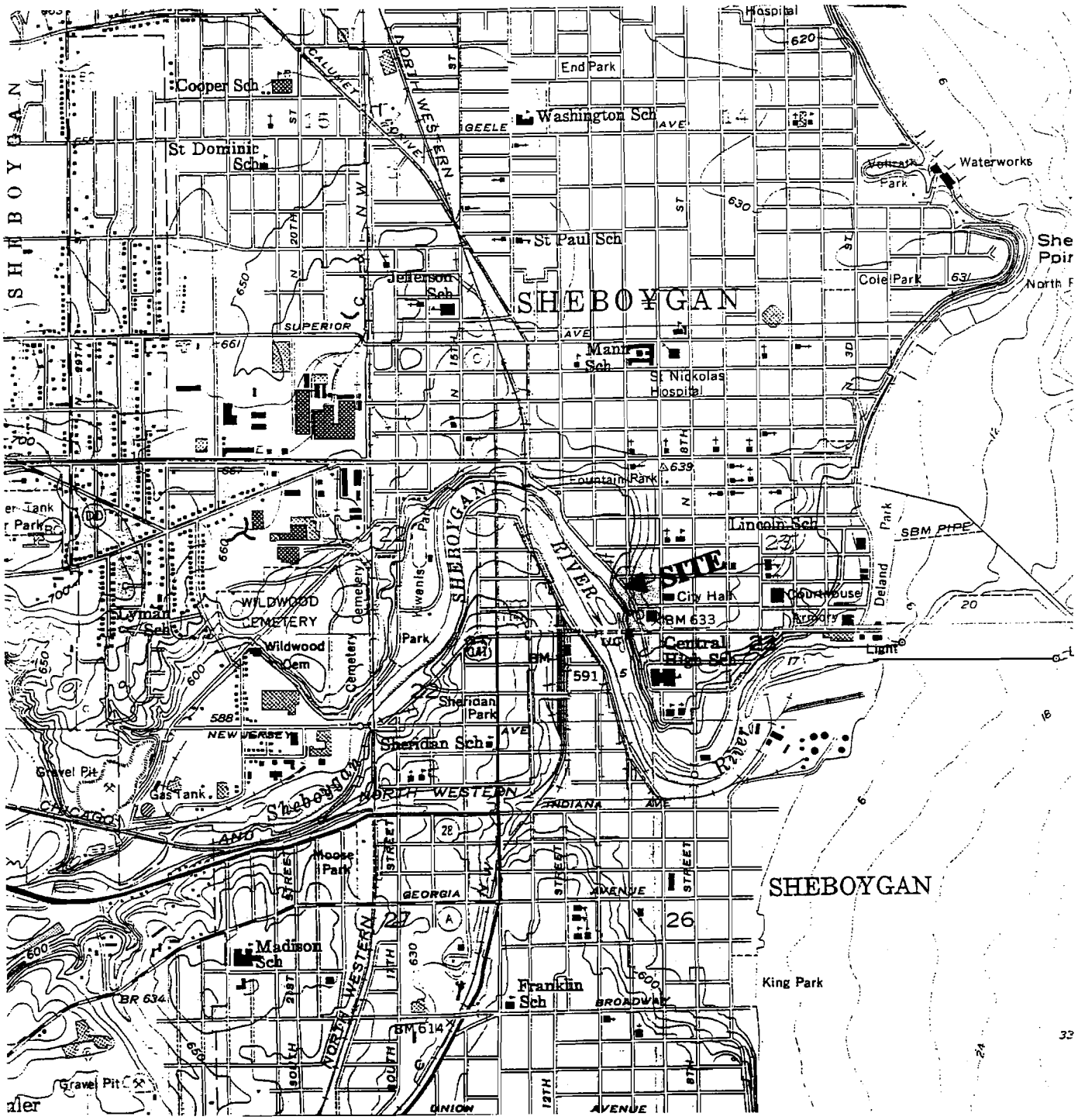
cc: Ms. Shirley Scharff, WPSC

Attachments:

Figure 1 – Site Location Map
Figure 2 – Revised Water Table Elevation Contours Before Biosparge System Operation – 11/7/02
Figure 3 – Water Table Elevation Contours During Biosparge System Operation – 5/20/04
Figure 4 – Revised Potentiometric Surface Contours Before Biosparge System Operation – 11/7/02
Figure 5 – Potentiometric Surface Contours During Biosparge System Operation – 5/20/04
Figure 6 – Groundwater Analytical Summary 2003-2004
Figure 7 – Contaminant Concentrations versus Time Graphs
Table 1 – Groundwater Elevation and Vertical Gradients
Table 2 – Groundwater Analytical Results - Cyanide and BTEX
Table 3 – Groundwater Analytical Results - Polynuclear Aromatic Hydrocarbons
Table 4 – Groundwater Analytical Results – Field & Laboratory RNA Analytical
Table 5 – Groundwater and Biosparge System Monitoring Schedule
Appendix A – Form 4400-194 with Explanations
Appendix B – Groundwater Analytical Reports
Appendix C – Field Forms
Appendix D – Air Sampling Analytical Reports

[1313 WDNR O&M Year 2.rpt]

FIGURES



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

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SITE LOCATION MAP

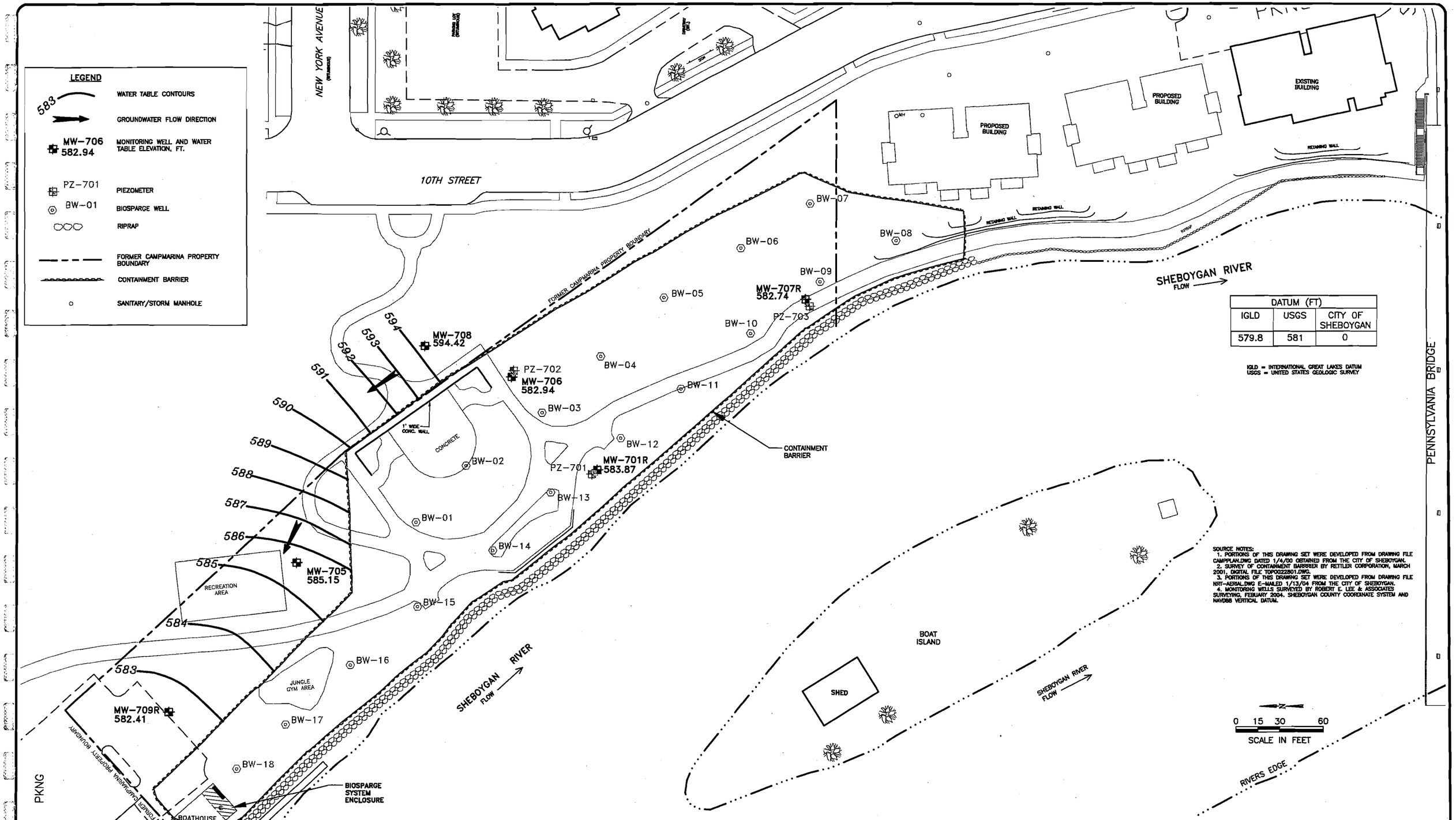
CAMPMARINA AND CENTER AVENUE RIGHT-OF-WAY
WISCONSIN PUBLIC SERVICE CORPORATION
SHEBOYGAN, WISCONSIN

DRAWN BY: TAS APPROVED BY: HMS DATE: 12/22/03

PROJECT NO. 1313

DRAWING NO. 1313-4-A01

FIGURE NO. 1



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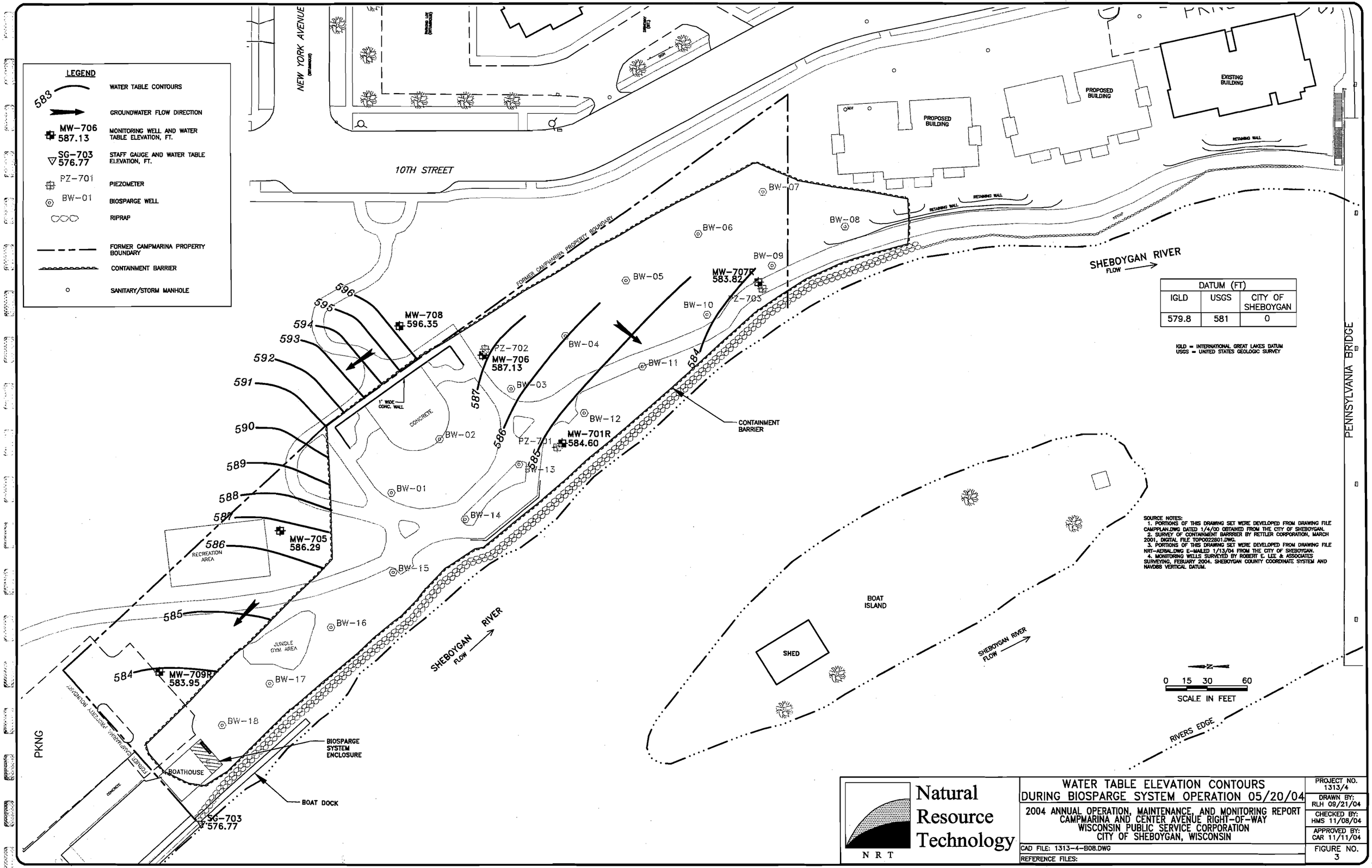
REVISED WATER TABLE ELEVATION CONTOURS BEFORE BIOSPARGE SYSTEM OPERATION 11/07/02

2004 ANNUAL OPERATION, MAINTENANCE, AND MONITORING REPORT
CAMPMARINA AND CENTER AVENUE RIGHT-OF-WAY
WISCONSIN PUBLIC SERVICE CORPORATION
CITY OF SHEBOYGAN, WISCONSIN

CAD FILE: 1313-4-B12.DWG

REFERENCE FILES:

PROJECT NO.	1313/4
DRAWN BY:	RLH 09/23/04
CHECKED BY:	HMS 11/08/04
APPROVED BY:	CAR 11/11/04
FIGURE NO.	2



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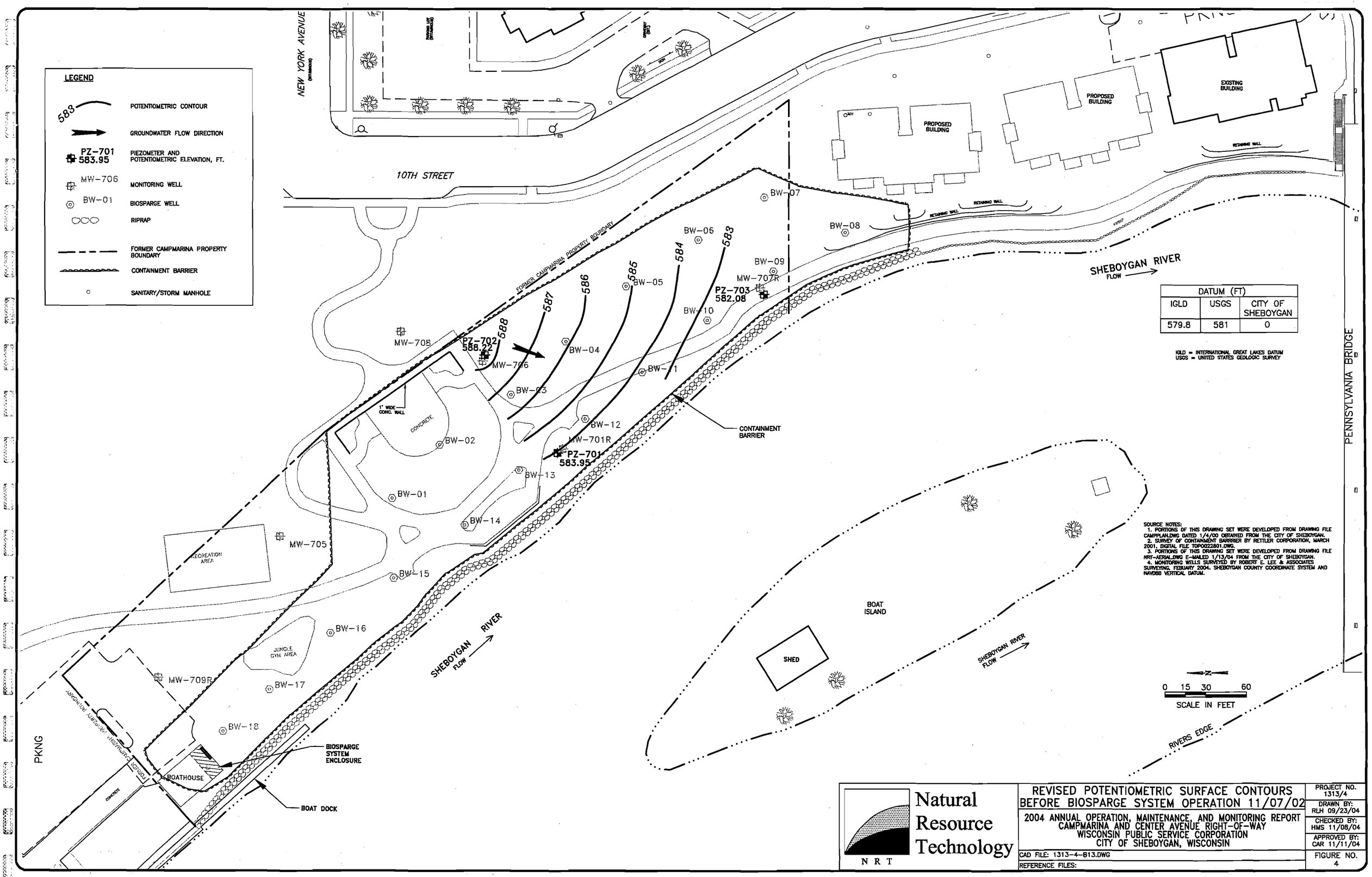
WATER TABLE ELEVATION CONTOURS DURING BIOSPARGE SYSTEM OPERATION 05/20/04

2004 ANNUAL OPERATION, MAINTENANCE, AND MONITORING REPORT
CAMPMARINA AND CENTER AVENUE RIGHT-OF-WAY
WISCONSIN PUBLIC SERVICE CORPORATION
CITY OF SHEBOYGAN, WISCONSIN

CAD FILE: 1313-4-B08.DWG

REFERENCE FILES:

PROJECT NO.	1313/4
DRAWN BY:	RLH 09/21/04
CHECKED BY:	HMS 11/08/04
APPROVED BY:	CAR 11/11/04
FIGURE NO.	3



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REVISED POTENTIOMETRIC SURFACE CONTOURS BEFORE BIOSPARGE SYSTEM OPERATION 11/07/02

2004 ANNUAL OPERATION, MAINTENANCE, AND MONITORING REPORT
CAMPMARINA AND CENTER AVENUE RIGHT-OF-WAY
WISCONSIN PUBLIC SERVICE CORPORATION
CITY OF SHEBOYGAN, WISCONSIN

CAD FILE: 1313-4-B13.DWG

REFERENCE FILES:

PROJECT NO.	1313/4
DRAWN BY:	RLH 09/23/04
CHECKED BY:	HMS 11/08/04
APPROVED BY:	CAR 11/11/04
FIGURE NO.	4

LEGEND

- 583 — POTENTIOMETRIC CONTOUR
- GROUNDWATER FLOW DIRECTION
- PZ-701 581.24 — PIEZOMETER AND POTENTIOMETRIC ELEVATION, FT.
- SG-703 576.77 — STAFF GAUGE AND WATER TABLE ELEVATION, FT.
- MW-706 — MONITORING WELL
- BW-01 — BIOSPARGE WELL
- RIPRAP
- FORMER CAMPMARINA PROPERTY BOUNDARY
- CONTAINMENT BARRIER
- SANITARY/STORM MANHOLE

NEW YORK AVENUE

10TH STREET

PKNG

PENNSYLVANIA BRIDGE

EXISTING BUILDING

PROPOSED BUILDING

PROPOSED BUILDING

RETAINING WALL

RETAINING WALL

RIPRAP

FORMER CAMPMARINA PROPERTY BOUNDARY

BW-07

BW-08

BW-06

BW-09

MW-707R

PZ-703
583.01

BW-05

BW-10

SHEBOYGAN RIVER
FLOW

MW-708

PZ-702
589.06

MW-706

BW-04

BW-11

588
587
586
585
584
583
582

BW-03

1' WIDE CONC. WALL

CONCRETE

BW-12

MW-701R

PZ-701
581.24

CONTAINMENT BARRIER

BW-02

BW-13

BW-01

BW-14

MW-705

RECREATION AREA

BW-15

BW-16

JUNGLE GYM AREA

MW-709R

SHEBOYGAN RIVER
FLOW

BW-17

ABANDONED RAILROAD RIGHT-OF-WAY

BW-18

BOATHOUSE

CONCRETE

BIOSPARGE SYSTEM ENCLOSURE

BOAT DOCK

SG-703
576.77

BOAT ISLAND

SHED

SHEBOYGAN RIVER
FLOW

RIVERS EDGE

DATUM (FT)		
IGLD	USGS	CITY OF SHEBOYGAN
579.8	581	0

IGLD = INTERNATIONAL GREAT LAKES DATUM
USGS = UNITED STATES GEOLOGIC SURVEY

SOURCE NOTES:
1. PORTIONS OF THIS DRAWING SET WERE DEVELOPED FROM DRAWING FILE CAMPPLAN.DWG DATED 1/4/00 OBTAINED FROM THE CITY OF SHEBOYGAN.
2. SURVEY OF CONTAINMENT BARRRIER BY RETTLER CORPORATION, MARCH 2001, DIGITAL FILE TOPO0222801.DWG.
3. PORTIONS OF THIS DRAWING SET WERE DEVELOPED FROM DRAWING FILE NRT-AERIAL.DWG E-MAILED 1/13/04 FROM THE CITY OF SHEBOYGAN.
4. MONITORING WELLS SURVEYED BY ROBERT E. LEE & ASSOCIATES SURVEYING, FEBUARY 2004. SHEBOYGAN COUNTY COORDINATE SYSTEM AND NAVD88 VERTICAL DATUM.

N

0 15 30 60

SCALE IN FEET

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POTENTIOMETRIC SURFACE CONTOURS DURING BIOSPARGE SYSTEM OPERATION 05/20/04

2004 ANNUAL OPERATION, MAINTENANCE, AND MONITORING REPORT
CAMPMARINA AND CENTER AVENUE RIGHT-OF-WAY
WISCONSIN PUBLIC SERVICE CORPORATION
CITY OF SHEBOYGAN, WISCONSIN

CAD FILE: 1313-4-B10.DWG

REFERENCE FILES:

PROJECT NO.	1313/4
DRAWN BY:	RLH 09/21/04
CHECKED BY:	HMS 11/08/04
APPROVED BY:	CAR 11/11/04
FIGURE NO.	5

LEGEND

- MW-706 — MONITORING WELL
- PZ-701 — PIEZOMETER
- BW-01 — BIOSPARGE WELL
- RIPRAP
- FORMER CAMPMARINA PROPERTY BOUNDARY
- CONTAINMENT BARRIER
- SANITARY/STORM MANHOLE

SAMPLE ID	BENZ	BTEX	NAPH	PAHs
DATE SAMPLED	BENZENE µg/L	TOTAL BTEX µg/L	NAPHTHALENE µg/L	POLYNUCLEAR AROMATIC HYDROCARBONS µg/L

DATA QUALIFIERS:

- *d* CONCENTRATION ATTAINS OR EXCEEDS A PREVENTIVE ACTION LIMIT (PAL)
- **310** CONCENTRATION ATTAINS OR EXCEEDS AN ENFORCEMENT STANDARD (ES)
- * PARAMETER DETECTED ABOVE THE LIMIT OF DETECTION (LOD) BUT BELOW THE LIMIT OF QUANTITATON (LOQ)
- B ANALYTE PRESENT IN METHOD BANK
- D ANALYTE VALUE FROM DILUTED ANALYSIS
- & PRECISION NOT WITHIN CONTROL LIMITS
- <2.0 PARAMETER NOT DETECTED ABOVE THE LIMIT OF DETECTION INDICATED
- NA ANALYSIS WAS NOT PERFORMED
- ND NOT DETECTED
- µg/L MICROGRAMS PER LITER
- dup FIELD DUPLICATE SAMPLE

NEW YORK AVENUE (STH 42/57)

10TH STREET

PZ-702	BENZ	BTEX	NAPH	PAHs
6/25/2002	<0.45	nd	0.42	0.6
11/7/2002	<0.25	nd	0.087	0.4
4/15/2003	<0.41	nd	0.20	0.4
7/1/2003	<0.30	nd	0.045 *,&,B	0.3
9/30/2003	<0.30	nd	0.049 *	0.1
11/10/2003	<0.30	nd	0.13 &	1.2
5/20/2004	<0.41	nd	0.6 D	0.8

MW-706	BENZ	BTEX	NAPH	PAHs
6/25/2002	1,900	4,490	7,100 D	24,070
7/1/2003	6,500	10,930	2,200 D,&	4,109
11/10/2003	3,200	5,410	2,900 D,&	6,516
5/20/2004	1,100	2,600	680 D	1,937

MW-708	BENZ	BTEX	NAPH	PAHs
6/25/2002	<0.45	nd	<0.027	0.01
11/7/2002	<0.25	nd	<0.024	nd
4/15/2003	<0.41	nd	0.088	0.1
7/1/2003	<0.30	nd	1.5 D,&,B	2.0
9/30/2003	<0.30	nd	0.23	0.2
11/10/2003	<0.30	nd	0.38&	2.4
5/20/2004	<0.41	nd	0.29	0.4

MW-705	BENZ	BTEX	NAPH	PAHs
6/25/2002	<0.45	nd	<0.027	nd
11/7/2002	<0.25	nd	<0.024	0.05
4/15/2003	<0.41	nd	0.10	0.1
7/1/2003	<0.30	nd	0.029 *,&,B	0.1
9/30/2003	<0.30	nd	0.059 *	0.1
11/10/2003	<0.30	nd	0.25 &	0.6
5/20/2004	<0.41	nd	0.39	0.7

MW-707R	BENZ	BTEX	NAPH	PAHs
6/25/2002	1,100	4,211	1,600 D	1,634
7/1/2003	1,300	5,123	1,800 D,&	2,170
11/10/2003	1,500	5,626	2,000 D,&	2,474
5/20/2004	1,000	4,486	1,600 D	2,067

PZ-703	BENZ	BTEX	NAPH	PAHs
6/25/2002	570	820	190	192
11/7/2002	460	707	41	41
4/15/2003	880	1,308	*30*	31
7/1/2003	1,800	3,074	410 D,&	425
9/30/2003	2,000	3,495	350 D	370
11/10/2003	2,100	3,825	510 D,&	548
5/20/2004	1,000	2,171	1,900 D	1,993
8/24/2004	3,700	7,790	1,600 D	1,708

MW-701R	BENZ	BTEX	NAPH	PAHs
6/25/2002	2,700	3,388	9,400 D	21,713
7/1/2003	3,400	4,021	2,200 D,&	3,873
11/10/2003	3,400	4,008	2,000 D,&	4,729
5/20/2004	2,600	3,128	1,400 D	2,749

PZ-701	BENZ	BTEX	NAPH	PAHs
6/25/2002	<0.45	nd	0.18	1.5
11/7/2002	*0.90*	0.90	0.34	3.1
4/15/2003	<0.41	nd	0.067 *	0.4
7/1/2003	<0.30	nd	na	na
9/30/2003	0.35 *	0.35	0.22	4.9
11/10/2003	<0.30	0.70	1.3 D,*,&	2.5
5/20/2004	<0.41	nd	0.22	0.4

MW-709R	BENZ	BTEX	NAPH	PAHs
6/25/2002	<0.45	nd	1.8 D	2.2
11/7/2002	<0.25	nd	<0.024	nd
4/15/2003	<0.41	nd	0.12	0.2
7/1/2003	<0.30	nd	0.74 &,D,B	0.9
9/30/2003	<0.30	nd	0.025 *	nd
11/10/2003	<0.30	nd	0.05 *	0.23
5/20/2004	<0.41	nd	0.38	0.46

DATUM (FT)		
IGLD	USGS	CITY OF SHEBOYGAN
579.8	581	0

IGLD = INTERNATIONAL GREAT LAKES DATUM
USGS = UNITED STATES GEOLOGIC SURVEY

NOTE:
DUPLICATE SAMPLES WERE COLLECTED DURING EACH SAMPLING EVENT. CONCENTRATIONS SHOWN REFLECT THE HIGHER CONCENTRATION BETWEEN WELL SAMPLES AND DUPLICATE SAMPLES.

SOURCE NOTES:
1. PORTIONS OF THIS DRAWING SET WERE DEVELOPED FROM DRAWING FILE CAMPPLAN.DWG DATED 1/4/00 OBTAINED FROM THE CITY OF SHEBOYGAN.
2. SURVEY OF CONTAINMENT BARRIER BY RETTLER CORPORATION, MARCH 2001, DIGITAL FILE TOPO0229B01.DWG.
3. PORTIONS OF THIS DRAWING SET WERE DEVELOPED FROM DRAWING FILE NRT-AERIAL.DWG E-MAILED 1/13/04 FROM THE CITY OF SHEBOYGAN.
4. MONITORING WELLS SURVEYED BY ROBERT E. LEE & ASSOCIATES SURVEYING, FEBUARY 2004. SHEBOYGAN COUNTY COORDINATE SYSTEM AND NAVD88 VERTICAL DATUM.

0 15 30 60
SCALE IN FEET

Natural Resource Technology
N R T

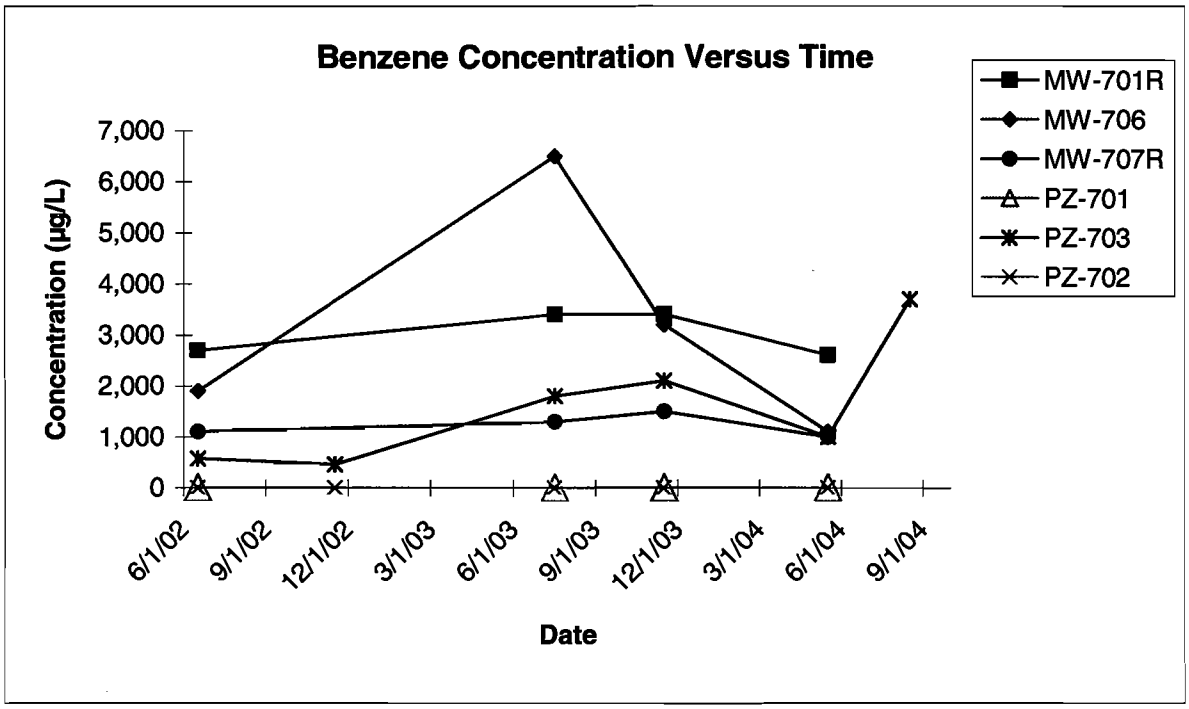
GROUNDWATER ANALYTICAL SUMMARY 2002–2004

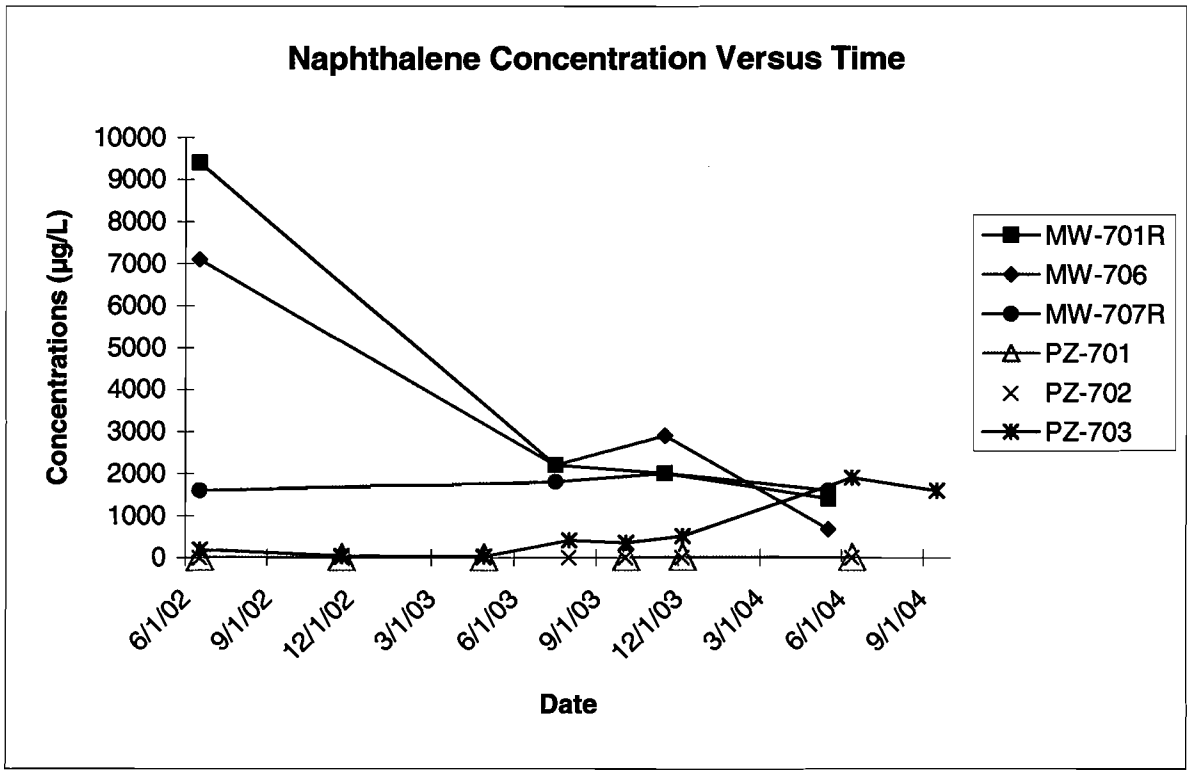
2004 ANNUAL OPERATION, MAINTENANCE, AND MONITORING REPORT
CAMPMARINA AND CENTER AVENUE RIGHT-OF-WAY
WISCONSIN PUBLIC SERVICE CORPORATION
CITY OF SHEBOYGAN, WISCONSIN

CAD FILE: 1313-4-B11.DWG
REFERENCE FILES:

PROJECT NO.	1313/4
DRAWN BY:	RLH 09/21/04
CHECKED BY:	HMS 11/08/04
APPROVED BY:	CAR 11/11/04
FIGURE NO.	6

Figure 7 - Contaminant Concentrations Versus Time Graphs
Wisconsin Public Service - Campmarina Former MGP Site
Sheboygan, WI





TABLES

Table 1. Groundwater Elevations and Vertical Gradients
Wisconsin Public Service Corporation - Campmarina Former Manufactured Gas Plant Site
Sheboygan, WI

Monitoring Location	Ground Surface Elevation (feet, MSL)	Top of PVC Elevation (feet, MSL)	Total Well Depth (feet)	Screen Length (feet)	Top of Screen Elevation (feet, MSL)	Middle of Screen Elevation (feet, MSL)	Monitoring Date	Depth to Water (feet)	Groundwater Elevation (feet, MSL)	Change in head (feet)	Change in distance (feet)	Vertical Gradient	Direction
MW-701	588.97	588.51	13.4	10	585.11		8/14/95	5.51	583.00	7.38	27.63	2.67E-01	downward
							8/20/95	5.63	582.88	9.14	27.51	3.32E-01	downward
							9/25/95	5.58	582.93	10.30	27.56	3.74E-01	downward
							12/21/98	5.72	582.79	0.60	27.42	2.19E-02	downward
							4/18/00	5.95	582.56	0.42	27.19	1.54E-02	downward
							6/19/00	5.62	582.89	0.78	27.52	2.83E-02	downward
							Well Replaced	--	--				
MW-701R		590.47	10.80	5	584.67		6/25/02	6.20	584.27	3.64	28.90	1.26E-01	downward
							11/7/02	6.60	583.87	-0.08	28.50	-2.81E-03	upward
							1/24/03	7.06	583.41	-0.06	28.04	-2.14E-03	upward
							4/15/03	6.21	584.26	0.19	28.89	6.58E-03	downward
							7/1/03	6.18	584.29	0.21	28.92	7.26E-03	downward
							11/10/03	6.31	584.16	0.32	28.79	1.11E-02	downward
	590.43	590.23	10.56	5	584.67		2/17/04	6.53	583.70	0.25	28.33	8.82E-03	downward
							4/20/04	6.02	584.21	0.36	28.84	1.25E-02	downward
							5/20/04	5.63	584.60	3.36	29.23	1.15E-01	downward
							8/24/04	5.98	584.25	0.15	28.88	5.19E-03	downward
PZ-701	589.28	588.89	36.02	5	557.87	555.37	8/14/95	13.27	575.62				
							8/20/95	15.15	573.74				
							9/25/95	16.26	572.63				
							12/21/98	6.70	582.19				
							4/18/00	6.75	582.14				
							6/19/00	6.78	582.11				
		590.53	37.66	5	557.87	555.37	6/25/02	9.90	580.63				
							11/7/02	6.58	583.95				
							1/24/03	7.06	583.47				
							4/15/03	6.46	584.07				
							7/1/03	6.45	584.08				
							9/30/03	6.61	583.92				
							11/10/03	6.69	583.84				
	590.45	590.25	37.38	5	557.87	555.37	2/17/04	6.80	583.45				
							4/20/04	6.40	583.85				
							5/20/04	9.01	581.24				
							8/24/04	6.15	584.10				

Table 1. Groundwater Elevations and Vertical Gradients
Wisconsin Public Service Corporation - Campmarina Former Manufactured Gas Plant Site
Sheboygan, WI

Monitoring Location	Ground Surface Elevation (feet, MSL)	Top of PVC Elevation (feet, MSL)	Total Well Depth (feet)	Screen Length (feet)	Top of Screen Elevation (feet, MSL)	Middle of Screen Elevation (feet, MSL)	Monitoring Date	Depth to Water (feet)	Groundwater Elevation (feet, MSL)	Change in head (feet)	Change in distance (feet)	Vertical Gradient	Direction
MW-702	590.39	590.09	13.40	10	586.69		8/14/95	4.86	585.23				
							8/20/95	4.69	585.40				
							9/25/95	4.88	585.21				
							12/21/98	4.83	585.26				
							4/18/00	4.52	585.57				
							6/19/00	2.68	587.41				
							Abandoned Monitoring Well						
MW-703	589.16	588.80	13.46	10	585.34		8/14/95	5.63	583.17				
							8/20/95	5.69	583.11				
							9/25/95	5.74	583.06				
							12/21/98	5.7	583.10				
							4/18/00	5.99	582.81				
							6/19/00	5.56	583.24				
							Abandoned Monitoring Well						
MW-704	589.43	589.05	13.20	10	585.85		8/14/95	5.93	583.12				
							8/20/95	5.96	583.09				
							9/25/95	6.00	583.05				
							12/21/98	5.63	583.42				
							4/18/00	5.64	583.41				
							6/19/00	5.62	583.43				
							Abandoned Monitoring Well						
MW-705	590.22	589.91	16.66	10	583.25		8/14/95	6.95	582.96				
							8/20/95	6.07	583.84				
							9/25/95	6.09	583.82				
							12/21/98	6.14	583.77				
							4/25/00	6.11	583.80				
							6/19/00	5.74	584.17				
	593.57	592.2	18.95	10	583.25		6/25/02	10.27	581.93				
							11/7/02	7.05	585.15				
							4/15/03	7.17	585.03				
							7/1/03	6.80	585.40				
							9/30/03	7.23	584.97				
							11/10/03	6.70	585.50				
							2/17/04	7.20	585.00				
							4/20/04	6.41	585.79				
							5/20/04	5.91	586.29				
							8/24/04	6.68	585.52				

Table 1. Groundwater Elevations and Vertical Gradients
Wisconsin Public Service Corporation - Campmarina Former Manufactured Gas Plant Site
Sheboygan, WI

Monitoring Location	Ground Surface Elevation (feet, MSL)	Top of PVC Elevation (feet, MSL)	Total Well Depth (feet)	Screen Length (feet)	Top of Screen Elevation (feet, MSL)	Middle of Screen Elevation (feet, MSL)	Monitoring Date	Depth to Water (feet)	Groundwater Elevation (feet, MSL)	Change in head (feet)	Change in distance (feet)	Vertical Gradient	Direction
MW-706	591.51	591.34	14.10	10	587.94		8/14/95	3.5 *	587.8 *				
							8/20/95	3.4 *	587.9 *				
							9/25/95	3.5 *	587.8 *				
							12/21/98	3.34	588.00	-1.15	29.34	-3.92E-02	upward
							4/18/00	2.98	588.36	-0.20	29.70	-6.73E-03	upward
							6/19/00	3.65	587.69	-0.15	29.03	-5.17E-03	upward
	595.2	594.54	16.60	10	587.94		6/25/02	8.40	586.14	1.27	27.48	4.62E-02	downward
							11/7/02	9.22	582.94	-5.28	24.28	-2.17E-01	upward
							1/24/03	--	--				
							4/15/03	8.25	586.29	-1.94	27.63	-7.02E-02	upward
							7/1/03	8.77	585.77	-2.47	27.11	-9.11E-02	upward
							11/10/03	8.78	585.76	-2.46	27.10	-9.08E-02	upward
							2/17/04	9.37	585.17	-2.86	26.51	-1.08E-01	upward
							4/20/04	8.25	586.29	-2.23	27.63	-8.07E-02	upward
							5/20/04	7.41	587.13	-1.93	28.47	-6.78E-02	upward
							8/24/04	8.51	586.03	-2.53	27.37	-9.24E-02	upward
PZ-702	591.62	591.16	38.62	5	561.2	558.7	12/21/98	2.01	589.15				
							4/18/00	2.60	588.56				
							6/19/00	3.32	587.84				
	596.16	595.34	39.14	5	561.2	558.7	6/25/02	10.47	584.87				
							11/7/02	7.12	588.22				
							1/24/03	7.58	587.76				
							4/15/03	7.11	588.23				
							7/1/03	7.10	588.24				
							9/30/03	7.18	588.16				
							11/10/03	7.12	588.22				
							2/17/04	7.31	588.03				
							4/20/04	6.82	588.52				
							5/20/04	6.28	589.06				
							8/24/04	6.78	588.56				

Table 1. Groundwater Elevations and Vertical Gradients
Wisconsin Public Service Corporation - Campmarina Former Manufactured Gas Plant Site
Sheboygan, WI

Monitoring Location	Ground Surface Elevation (feet, MSL)	Top of PVC Elevation (feet, MSL)	Total Well Depth (feet)	Screen Length (feet)	Top of Screen Elevation (feet, MSL)	Middle of Screen Elevation (feet, MSL)	Monitoring Date	Depth to Water (feet)	Groundwater Elevation (feet, MSL)	Change in head (feet)	Change in distance (feet)	Vertical Gradient	Direction
MW-707	590.29	590.08	13.35	10	586.73		8/14/95	7.48	582.60				
							8/20/95	7.71	582.37				
							9/25/95	7.67	582.41				
							12/21/98	6.65	583.43	2.84	26.71	1.06E-01	downward
							4/18/00	--	--				
							6/19/00	6.05	584.03	3.94	27.31	1.44E-01	downward
							Well Replaced	--	--				
MW-707R		587.78	11.97	10	585.81		6/25/02	4.57	583.21	4.48	26.49	1.69E-01	downward
							11/7/02	5.04	582.74	0.66	26.02	2.54E-02	downward
							1/24/03	--	--	--	--	--	--
							4/15/03	4.9	582.88	0.80	26.16	3.06E-02	downward
							7/1/03	4.99	582.79	5.09	26.07	1.95E-01	downward
							11/10/03	5.13	582.65	12.41	25.93	4.79E-01	downward
	588.9	588.57	12.76	10	585.81		2/17/04	5.30	583.27	2.59	26.55	9.76E-02	downward
							4/20/04	5.03	583.54	1.13	26.82	4.21E-02	downward
							5/20/04	4.75	583.82	0.81	27.10	2.99E-02	downward
							8/24/04	4.87	583.70	0.86	26.98	3.19E-02	downward
PZ-703	589.85	589.22	33.94	5	559.2	556.7	12/21/98	8.63	580.59				
							1/19/99	8.96	580.26				
							4/18/00	9.49	579.73				
							6/19/00	9.13	580.09				
	588.81	588.53	34.33	5	559.2	556.7	6/25/02	9.80	578.73				
							11/7/02	6.45	582.08				
							1/24/03	--	--				
							4/15/03	6.45	582.08				
							7/1/03	10.83	577.70				
							9/30/03	9.40	579.13				
							11/10/03	18.29	570.24				
							2/17/04	7.85	580.68				
							4/20/04	6.12	582.41				
							5/20/04	5.52	583.01				
							8/24/04	5.69	582.84				

Table 1. Groundwater Elevations and Vertical Gradients
Wisconsin Public Service Corporation - Campmarina Former Manufactured Gas Plant Site
Sheboygan, WI

Monitoring Location	Ground Surface Elevation (feet, MSL)	Top of PVC Elevation (feet, MSL)	Total Well Depth (feet)	Screen Length (feet)	Top of Screen Elevation (feet, MSL)	Middle of Screen Elevation (feet, MSL)	Monitoring Date	Depth to Water (feet)	Groundwater Elevation (feet, MSL)	Change in head (feet)	Change in distance (feet)	Vertical Gradient	Direction
MW-708	606.45	606.09	18.86	15	602.23		12/10/98	16.39	589.70				
							12/21/98	16.78	589.31				
							4/18/00	15.21	590.88				
							6/19/00	14.98	591.11				
	605.87	605.47	18.24	15	602.23		6/25/02	14.22	591.25				
							11/7/02	11.05	594.42				
							1/24/03	11.58	593.89				
							4/15/03	10.35	595.12				
							7/1/03	10.66	594.81				
							9/30/03	11.07	594.40				
							11/10/03	9.85	595.62				
							2/17/04	11.13	594.34				
							4/20/04	10.28	595.19				
							5/20/04	9.12	596.35				
							8/24/04	10.72	594.75				
MW-709	588.51	587.95	12.50	10	585.45		12/21/98	7.27	580.68				
							4/18/00	7.62	580.33				
							6/19/00	7.23	580.72				
							Well Replaced	--	--				
MW-709R	589.15	588.81	16.54	10	582.27		6/25/02	9.23	579.58				
							11/7/02	6.40	582.41				
							4/15/03	5.45	583.36				
							7/1/03	5.30	583.51				
							9/30/03	6.33	582.48				
							11/10/03	5.29	583.52				
	588.96	588.58	16.31	10	582.27		2/17/04	6.44	582.14				
							4/20/04	5.02	583.56				
							5/20/04	4.63	583.95				
							8/24/04	5.14	583.44				

Table 1. Groundwater Elevations and Vertical Gradients
Wisconsin Public Service Corporation - Campmarina Former Manufactured Gas Plant Site
Sheboygan, WI

Monitoring Location	Ground Surface Elevation (feet, MSL)	Top of PVC Elevation (feet, MSL)	Total Well Depth (feet)	Screen Length (feet)	Top of Screen Elevation (feet, MSL)	Middle of Screen Elevation (feet, MSL)	Monitoring Date	Depth to Water (feet)	Groundwater Elevation (feet, MSL)	Change in head (feet)	Change in distance (feet)	Vertical Gradient	Direction
SG-701	na	582.02	na	na	na		8/14/95	2.00	580.02				
							8/20/95	2.33	579.69				
							9/25/95	2.49	579.53				
							Abandoned						
SG-702	na	581.37	na	na	na		``````````	2.33	579.04				
							Abandoned						
SG-703	na	582.27	na	na	na		4/20/04	4.45	577.82				
							5/20/04	5.5	576.77				
							8/24/04	3.18	579.09				

[U-PAR/JTB 11/03 U-HMS 1/29/04 U-LJH/HMS 2/23/04 U-HMS 2/27/04 U-PAR/HMS 3/04 U-HMS/LJH 6/4/04 U-HMS/MJR 9/17/04]

Notes:

1. PZ-701, MW-701R and MW-707R were surveyed on 7/17/01 by Rettler Corporation from Stevens Point, Wisconsin.
   PZ-101 was extended from pre-remedial ground surface elevation to existing ground surface elevation.
2. Elevations are referenced to United States Geologic Survey Geodetic Sea Level Datum.
3. * Estimated value.
4. MW-709 was surveyed on 12/22/03 by NRT using MW-701R TOC as a bench mark and a laser level.
5. '-- Not Measured
6. On February 17, 2004, Robert E. Lee Associates surveyed top of casing and flushmount covers, and established a staff gauge located at the southwest corner,west face, of the Marina's concrete boat dock (chisel marked blue).
   Wells MW-705, MW-706, PZ-702, PZ-703, and MW-708 were extended or reduced to match final grades during remedial construction activities in 2002
   Consequently, the surveyed elevations for these wells were used in groundwater elevation calculations as of 2002.

Table 2. Groundwater Analytical Results - Cyanide and BTEX
Wisconsin Public Service Corporation - Campmarina Former Manufactured Gas Plant Site
Sheboygan, Wisconsin

Sampling Location	Sampling Date	Cyanide, dissolved (mg/L)			BTEX (µg/L)				
		Cyanide (amenable)	Cyanide (weak acid dissociable)	Cyanide (total)	Benzene	Toluene	Ethylbenzene	Xylene, total	Total BTEX
Wisconsin Groundwater Quality Standards (NR140)									
Preventive Action Limit		ns	*0.04*	ns	*0.5*	*200*	*140*	*1,000*	ns
Enforcement Standard		ns	**0.2**	ns	**5**	**1,000**	**700**	**10,000**	ns
MW-701	8/15/1995	<0.0050	0.025	0.11	**10,000**	96	**880**	820	11,796
	9/25/1995	<0.0050	0.020	0.088	**12,000**	53	**780**	680	13,513
	12/21/1998	0.05	*0.11*	0.17	**10,200**	77 *	**818**	717	11,812
MW-701R	6/25/2002	0.15	0.012	0.16	**2,700**	28	*330*	330	3,388
	11/7/2002	--	--	--	--	--	--	--	--
	7/1/2003	--	--	0.13	**3,400**	21 *	*340*	260	4,021
	11/10/2003	--	--	0.16	**3,400**	18*	*330*	260	4,008
	5/20/2004	--	--	0.15	**2,600**	17*	*300*	211	3,128
PZ-701	8/17/1995	0.02	<0.0050	0.02	**5**	6.3	3.6	11	25.9
	9/25/1995	0.014	<0.0050	0.014	*2.2*	6.6	1.7	6.8	17.3
	12/21/1998	--	--	--	*0.96* *	1.8 *	1.1 *	4.2 *	8.1
	6/25/2002	0.74	*0.19*	0.83	<0.45	<0.68	<0.82	<1.7	nd
	11/7/2002	0.042	*0.049*	0.18	*0.90*	<0.84	<0.53	<1.1	0.9
	4/15/2003	0.47	0.028	0.47	<0.41	<0.67	<0.54	<1.8	nd
	7/1/2003	--	--	0.34	<0.30	<0.58	<0.60	<1.2	nd
	9/30/2003	--	--	0.26	0.35 *	<0.58	<0.60	<1.2	0.4
	11/10/2003	--	--	0.21	<0.30	<0.58	0.7 *	<1.2	0.7
	5/20/2004	--	--	0.10	<0.41	<0.67	<0.54	<1.8	nd
MW-702	8/15/1995	<0.0050	*0.043*	0.20	**5,900**	**2,300**	**1,500**	*1,600*	11,300
	9/25/1995	<0.0050	0.032	0.072	**6,100**	**2,100**	**1,400**	*1,400*	11,000
		Abandoned Monitoring Well							
MW-703	8/15/1995	<0.0050	0.039	0.12	**1,300**	29	**980**	430	2,739
	9/25/1995	<0.0050	0.028	0.14	**1,300**	23	**1,100**	450	2,873
	12/21/1998	0.05	*0.074*	0.20	**1,190**	9.2 *	**973**	408	2,580
		Abandoned Monitoring Well							
MW-704	8/15/1995	<0.0050	*0.056*	0.31	**340**	*200*	*280*	430	1,250
dup(MW-799)	8/15/1995	0.190	0.022	0.29	**310**	190	*280*	440	1,220
	9/25/1995	<0.0050	*0.062*	0.28	**1,100**	*380*	*670*	970	3,120
dup(MW-799)	9/25/1995	0.02	*0.041*	0.36	**1,100**	*360*	*610*	900	2,970
	12/21/1998	0.22	0.017	0.31	**29**	1.6 *	13	11.3	55
dup(MW-B)	12/21/1998	0.29	0.023	0.29	**22**	1.2 *	9.5	8.7 *	41
		Abandoned Monitoring Well							

Table 2. Groundwater Analytical Results - Cyanide and BTEX
Wisconsin Public Service Corporation - Campmarina Former Manufactured Gas Plant Site
Sheboygan, Wisconsin

Sampling Location	Sampling Date	Cyanide, dissolved (mg/L)			BTEX (µg/L)				
		Cyanide (amenable)	Cyanide (weak acid dissociable)	Cyanide (total)	Benzene	Toluene	Ethylbenzene	Xylene, total	Total BTEX
Wisconsin Groundwater Quality Standards (NR140)									
Preventive Action Limit		ns	*0.04*	ns	*0.5*	*200*	*140*	*1,000*	ns
Enforcement Standard		ns	**0.2**	ns	**5**	**1,000**	**700**	**10,000**	ns
MW-705	8/15/1995	<0.0050	<0.0050	<0.0050	<1.0	<1.0	<1.0	<3.0	nd
	9/25/1995	<0.0050	<0.0050	<0.0050	<0.50	<1.0	<1.0	<3.0	nd
	12/21/1998	<0.001	<0.001	<0.001	<0.50	<0.60	<0.60	<2.2	nd
dup(MW-A)	12/21/1998	<0.001	0.004	<0.001	<0.50	<0.60	<0.60	<2.2	nd
	6/25/2002	0.076	0.013	0.080	<0.45	<0.68	<0.82	<1.7	nd
dup(QA/QC-1)	6/25/2002	0.088	0.008	0.10	<0.45	<0.68	<0.82	<1.7	nd
	11/7/2002	0.110	<0.0027	0.060	<0.25	<0.84	<0.53	<1.1	nd
	4/15/2003	0.10	0.0064	0.10	<0.41	<0.67	<0.54	<1.8	nd
	7/1/2003	--	--	0.14	<0.30	<0.58	<0.60	<1.2	nd
	9/30/2003	--	--	0.15	<0.30	<0.58	<0.60	<1.2	nd
	11/10/2003	--	--	0.17	<0.30	<0.58	<0.60	<1.2	nd
	5/20/2004	--	--	0.15	<0.41	<0.67	<0.54	<1.8	nd
MW-706	8/15/1995	<0.0050	<0.0050	<0.0050	**34,000**	**13,000**	*560*	*7,900*	55,460
	9/25/1995	<0.0050	<0.0050	<0.0050	**31,000**	**12,000**	<2,500	*7,700*	50,700
	6/25/2002	0.078	0.0099	0.081	**1,900**	**1,300**	*270*	*1,020*	4,490
	11/7/2002	--	--	--	--	--	--	--	--
	7/1/2003	--	--	0.099	**6,500**	**2,200**	*360*	*1,870*	10,930
	11/10/2003	--	--	0.086	**3,200**	**1,300**	*150*	760	5,410
	5/20/2004	--	--	0.15	**1,100**	*990*	110	400	2,600
PZ-702	12/21/1998	<0.002	<0.002	<0.002	<0.50	1.5 *	<0.60	<2.2	1.5
	6/25/2002	<0.0023	<0.00084	<0.0023	<0.45	<0.68	<0.82	<1.7	nd
	11/7/2002	<0.0027	<0.0027	<0.0027	<0.25	<0.84	<0.53	<1.1	nd
	4/15/2003	<0.0015	<0.0019	<0.0015	<0.41	<0.67	<0.54	<1.8	nd
dup(QA/QC-1)	4/15/2003	<0.0015	<0.0095 C	<0.0015	<0.41	<0.67	<0.54	<1.8	nd
	7/1/2003	--	--	<0.0015	<0.30	<0.58	<0.60	<1.2	nd
	9/30/2003	--	--	0.0033 *,B	<0.30	<0.58	<0.60	<1.2	nd
	11/10/2003	--	--	0.01	<0.30	<0.58	<0.60	<1.2	nd
dup(field)	11/10/2003	--	--	0.0032*	<0.30	<0.58	<0.60	<1.2	nd
	5/20/2004	--	--	<0.0016	<0.41	<0.67	<0.54	<1.8	nd
MW-707	8/15/1995	0.210	*0.042*	0.38	**1,500**	190	**3,600**	*1,400*	6,690
	9/25/1995	<0.0050	*0.058*	0.44	**1,200**	130	**3,500**	*1,200*	6,030
	12/21/1998	0.13	0.033	0.64	**830**	82 *	**3,110**	990 *	5,012
MW-707R	6/25/2002	0.76	0.010	0.78	**1,100**	51	**2,300**	760	4,211
	11/7/2002	--	--	--	--	--	--	--	--
	7/1/2003	--	--	0.26	**1,300**	73	**2,800**	950	5,123
	11/10/2003	--	--	0.30	**1,500**	76	**3,000**	*1,050*	5,626
	5/20/2004	--	--	--	**1,000**	76	**2,500**	910	4,486

Table 2. Groundwater Analytical Results - Cyanide and BTEX
Wisconsin Public Service Corporation - Campmarina Former Manufactured Gas Plant Site
Sheboygan, Wisconsin

Sampling Location	Sampling Date	Cyanide, dissolved (mg/L)			BTEX (µg/L)				
		Cyanide (amenable)	Cyanide (weak acid dissociable)	Cyanide (total)	Benzene	Toluene	Ethylbenzene	Xylene, total	Total BTEX
Wisconsin Groundwater Quality Standards (NR140)									
Preventive Action Limit		ns	*0.04*	ns	*0.5*	*200*	*140*	*1,000*	ns
Enforcement Standard		ns	**0.2**	ns	**5**	**1,000**	**700**	**10,000**	ns
PZ-703	12/21/98**	0.002 *	0.002 *	0.002 *	**960 ****	26 **	*429 **	301 **	1,716
	12/21/98***	--	--	--	**1,170 *****	26 ***	*527 ****	299 ***	2,022
	1/19/1999	--	--	--	**71**	9.6	12	15.2	108
	6/25/2002	<0.0023	0.0009 *	<0.0023	**570**	14	*150*	86	820
	11/7/2002	0.0080 *	<0.0027	0.0070 *	**460**	16	130	101	707
	4/15/2003	0.0025 *	<0.0019	0.0025 *	**880**	22	*260*	146	1,308
	7/1/2003	--	--	0.0019 *	**1,800**	64	**760**	450	3,074
	9/30/2003	--	--	0.0039 *,B,A	**2,000**	65	**910**	520	3,495
	11/10/2003	--	--	0.0051	**2,100**	65	**1,100**	560	3,825
	5/20/2004	--	--	0.039	**1,000**	31	**750**	390	2,171
	8/24/2004	--	<0.011 C,N	--	**3,700**	110	**2,800**	1,180	7,790
MW-708	12/21/1998	<0.001	<0.001	<0.001	<0.50	<0.60	<0.60	<2.2	nd
	6/25/2002	0.003 *	<0.00084	0.0036 *	<0.45	<0.68	<0.82	<1.7	nd
	11/7/2002	<0.0027	<0.0027	0.0060 *	<0.25	<0.84	<0.53	<1.1	nd
dup(QA/QC-1)	11/7/2002	0.0040 *	<0.0027	0.0040 *	<0.25	<0.84	<0.53	<1.1	nd
	4/15/2003	<0.0015	0.0022 *	<0.0015	<0.41	<0.67	<0.54	<1.8	nd
	7/1/2003	--	--	0.0046 *	<0.30	<0.58	<0.60	<1.2	nd
	9/30/2003	--	--	0.0034 *,B	<0.30	<0.58	<0.60	<1.2	nd
	11/10/2003	--	--	0.0046*	<0.30	<0.58	<0.60	<1.2	nd
	5/20/2004	--	--	0.0042 *	<0.41	<0.67	<0.54	<1.8	nd
MW-709	12/21/1998	0.03	0.014	0.030	<0.50	<0.60	<0.60	<2.2	nd
MW-709R	6/25/2002	0.45	0.027	0.480	<0.45	<0.68	<0.82	<1.7	nd
	11/7/2002	0.038	0.0070 *	0.16	<0.25	<0.84	<0.53	<1.1	nd
	4/15/2003	0.28	0.010	0.28	<0.41	<0.67	<0.54	<1.8	nd
	7/1/2003	--	--	0.25	<0.30	<0.58	<0.60	<1.2	nd
dup(M)	7/1/2003	--	--	0.24 N	<0.30	<0.58	<0.60	<1.2	nd
	9/30/2003	--	--	0.11	<0.30	<0.58	<0.60	<1.2	nd
dup(M)	9/30/2003	--	--	0.12	<0.30	<0.58	<0.60	<1.2	nd
	11/10/2003	--	--	0.10	<0.30	<0.58	<0.60	<1.2	nd
	5/20/2004	--	--	0.046	<0.41	<0.67	<0.54	<1.8	nd
dup(Field)	5/20/2004	--	--	0.041	<0.41	<0.67	<0.54	<1.8	nd

Table 2. Groundwater Analytical Results - Cyanide and BTEX
Wisconsin Public Service Corporation - Campmarina Former Manufactured Gas Plant Site
Sheboygan, Wisconsin

Sampling Location	Sampling Date	Cyanide, dissolved (mg/L)			BTEX (µg/L)				
		Cyanide (amenable)	Cyanide (weak acid dissociable)	Cyanide (total)	Benzene	Toluene	Ethylbenzene	Xylene, total	Total BTEX
Wisconsin Groundwater Quality Standards (NR140)									
Preventive Action Limit		ns	*0.04*	ns	*0.5*	*200*	*140*	*1,000*	ns
Enforcement Standard		ns	**0.2**	ns	**5**	**1,000**	**700**	**10,000**	ns
Biosparge Wells									
BW-6	5/20/2004	--	--	0.0032	<0.41	<0.67	<0.54	<1.8	nd
BW-15	5/20/2004	--	--	0.077	*2.8*	<0.67	2.5	2.6 *	**7.9**

[U-PAR/JTB 11/03 U-HMS 1/29/04 U-LJH/HMS 2/23/04 U-HMS/LJH 6/4/04 U-HMS/MJR 9/17/04]

Notes:

1) Concentrations that attain/exceed a preventive action limit (PAL) are *italics and underlined*.

2) Concentrations that attain/exceed an enforcement standard (ES) are **underlined and bold**.

<0.0050 : Parameter not detected above the Limit of Detection indicated.
-- : Analysis was not performed
nd : Analyte not detected
ns : NR 140 standard not established
dup(QA/QC-1): Field duplicate sample (field identity shown in parentheses).

Laboratory Notes:

* : Laboratory note - Parameter detected above the limit of detection (LOD) but below the limit of Quantitation (LOQ).
** : Laboratory note - The original analysis contained concentrations above the calibration curve.
*** : Laboratory note - The sample was reanalyzed past hold time, concentrations were within the calibration curve.
A : Laboratory note-Laboratory Control Spike recovery not within control limits.
B : Laboratory note-Analyte present in method blank.
C : Laboratory note- Elevated detection limit.
N : Laboratory note-Spiked sample recovery not within control limits.
M : Field duplicate identity was erroneously identified (field duplicate or field blank)

Table 3. Groundwater Analytical Results - Polynuclear Aromatic Hydrocarbons
Wisconsin Public Service Corporation - Campmarina Former Manufactured Gas Plant Site
Sheboygan, Wisconsin

Sampling Location	Sampling Date	POLYNUCLEAR AROMATIC HYDROCARBONS - PAHs (µg/L)																		
		Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (ghi) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene	Total PAHs
Wisconsin Groundwater Quality Standards (NR 140)																				
Preventive Action Limit		ns	ns	*600*	ns	*0.02*	*0.02*	ns	ns	*0.02*	ns	*80*	*80*	ns	ns	ns	*8*	ns	*50*	ns
Enforcement Standard		ns	ns	**3,000**	ns	**0.2**	**0.2**	ns	ns	**0.2**	ns	**400**	**400**	ns	ns	ns	**40**	ns	**250**	ns
MW-701	8/15/1995	800	<2.0	23	3.4	**1.8**	**0.6**	1.2	0.54	**1.7**	0.25	49	*130*	0.76	--	--	**220**	100	20	1,352
	9/25/1995	680	1,100	17	2	**1**	**0.24**	0.67	0.3	**1.0**	0.4	29	*100*	0.36	--	--	**3,800**	81	11	5,824
	12/21/1998	420	<1.3	32	15	**7.7**	**5.4**	4.5	2.5	**7.6**	6.7	56	*92*	4.3	367	188	**3,740**	129	*98*	5,176
MW-701R	6/25/2002	2,500 D	<770 D	*1,300 D, **	<630	**420 D, ***	<470 D	<500 D	<430 D	**640 D, ***	63	**1,300 D, ***	**790 D, ***	<470 D	--	--	**9,400 D**	3,500 D	**1,800 D, ***	21,713
	11/7/2002	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/1/2003	310 D,*,&	17 &	<200 D	45	**35**	**16**	15	19	**42**	3.5 *	<130 D	<170 D	10	420 D,A,*,&	480 D,*,&	**2,200 D,&**	260 D, *	<170 D	3,873
	11/10/2003	400 D,&	25	120 D, *	100	**66**	**28**	24	30	**72**	6.2 *	*140 *,D*	*110 *,D*	18	420D	480D	**2,000 D,&**	420D	**270 *,D**	4,729
	5/20/2004	250 D,*	10	<94 D	30	**21**	**9.4**	8.7	11	**24**	1.9 *	67 *,D	<80 D	6 *	270 D,*	280 D	**1,400 D**	240 D, *	*120 *,D*	2,749
PZ-701	8/17/1995	<1.0	<2.0	1.5	0.89	**0.43**	**0.21**	0.24	0.18	**0.61**	<0.10	3.3	1.0	<0.10	--	--	<1.0	6.6	2.1	17
	9/26/1995	<1.0	<2.0	0.25	0.13	<0.20	<0.050	<0.10	<0.050	*0.13*	<0.10	0.70	<0.40	<0.10	--	--	<1.0	0.8	0.77	2.8
	12/21/1998	<1.4	<1.3	0.23 *	0.25 *	<0.21	<0.12	<0.23	<0.23	<0.092	<0.25	0.60 *	0.42	<0.11	<0.94	<0.92	7.3	0.80	1.1 *	11
	6/25/2002	0.040 *	0.059 *	0.073	0.13	*0.100*	*0.084*	0.059	0.065	*0.092*	0.018 *	0.23	<0.021	0.058	--	--	0.18	0.10	0.19	1.5
	11/7/2002	0.11 *	0.087 *	0.15 *	0.19 *	*0.16*	*0.17*	0.16	0.14 *	*0.16*	<0.048	0.44 *	0.053	0.13 *	0.076 *	<0.051	0.34	0.38	0.38	3.1
	4/15/2003	<0.018	<0.019	0.023 *	0.019 *	0.017 *	0.017 *	0.017 *	<0.019	0.015 *	<0.016	0.029 *	<0.017	<0.021	0.045 *	0.045 *	0.067 *	0.032 *	0.034 *	0.4
	9/30/2003	0.043 *	0.13	0.23	0.42	**0.24**	*0.19*	0.15	0.17 &	**0.27**	0.067	0.82 D	0.056 *	0.14	0.046 *	0.042 *	0.22	0.89 D	0.82 D	4.9
	11/10/2003	0.28&	0.68 D,*	1.2 D,*	2.4D	**1.5D**	*1.1D*	0.65 D,*	1.1 D,*	**1.5D**	0.240	4.4D	0.34	0.60 D,*	0.27	0.17	1.3 D,*,&	4.6D	4.2D	26.5
	5/24/2004	0.055 *	<0.018	0.022*	<0.011	<0.013	<0.012	<0.015	<0.018	<0.013	<0.015	0.014*	0.018*	<0.02	0.05*	0.017*	0.22	0.029*	0.017*	0.44
MW-702	8/15/1995	390	<2.0	19	2.9	**1.4**	**0.32**	0.93	0.48	**1.5**	0.23	41	*150*	0.55	--	--	**7,300**	96	35	8,039
	9/25/1995	400	1,400	17	3.7	**1.8**	**0.66**	1.6	0.73	**1.9**	0.28	32	*140*	0.76	--	--	**6,400**	90	13	8,503
	Abandoned Monitoring Well																			
MW-703	8/15/1995	180	<2.0	17	1.4	**0.46**	*0.1*	0.24	0.16	**0.55**	0.17	28	70	0.16	--	--	**2,400**	74	9.2	2,781
	9/25/1995	220	430	14	1.2	**0.37**	*0.05*	0.34	0.12	**0.51**	0.23	19	54	0.19	--	--	**2,700**	58	5.9	3,504
	12/21/1998	262	<1.3	5.9	8.7	**2.4**	**1.7**	1.6	0.91	<0.092	<0.25	10	45	1.4	408	<0.92	**3,080**	24	16	3,868
	Abandoned Monitoring Well																			
MW-704	8/15/1995	770	<2.0	44	26	**22**	**8.9**	17	7.9	**19**	<0.10	*150*	*180*	10	--	--	**5,200**	220	*56*	6,731
dup(MW-799)	8/15/1995	660	<2.0	44	25	**21**	**8.7**	16	7.3	**19**	<0.10	*140*	*190*	9.2	--	--	**3,600**	220	*55*	5,015
	9/25/1995	440	1,400	20	5.0	**3.1**	**2.7**	<0.10	2.3	**3.5**	<0.10	36	*120*	<0.10	--	--	**4,200**	120	13	6,366
dup(MW-799)	9/25/1995	420	1,100	64	46	**38**	**14**	31	15	**31**	3.2	*210*	*170*	20	--	--	**3,100**	310	*83*	5,655
	12/21/1998	1.6 *	5.9	6.0	8.9	**9.5**	**8.1**	7.0	3.5	**4.4**	<0.25	21	10	7.7	14	3.6	*22*	19	26	178
dup(MW-B)	12/21/1998	1.6 *	<1.3	4.9	6.6	**7.6**	**6.0**	5.3	2.4	**3.0**	<0.25	16	6.8	5.8	9.5	<0.92	*17*	16	20	129
	Abandoned Monitoring Well																			

Table 3. Groundwater Analytical Results - Polynuclear Aromatic Hydrocarbons
Wisconsin Public Service Corporation - Campmarina Former Manufactured Gas Plant Site
Sheboygan, Wisconsin

Sampling Location	Sampling Date	POLYNUCLEAR AROMATIC HYDROCARBONS - PAHs (µg/L)																		
		Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (ghi) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene	Total PAHs
Wisconsin Groundwater Quality Standards (NR 140)																				
Preventive Action Limit		ns	ns	*600*	ns	*0.02*	*0.02*	ns	ns	*0.02*	ns	*80*	*80*	ns	ns	ns	*8*	ns	*50*	ns
Enforcement Standard		ns	ns	**3,000**	ns	**0.2**	**0.2**	ns	ns	**0.2**	ns	**400**	**400**	ns	ns	ns	**40**	ns	**250**	ns
MW-705	8/15/1995	<1.0	<2.0	<0.20	<0.050	<0.20	<0.050	<0.10	<0.050	<0.10	<0.10	<0.20	<0.40	<0.10	--	--	<1.0	<0.40	<0.20	nd
	9/25/1995	<1.0	<2.0	<0.20	<0.050	<0.20	<0.050	<0.10	<0.050	<0.10	<0.10	<0.20	<0.40	<0.10	--	--	<1.0	<0.40	<0.20	nd
	12/21/1998	<1.4	<1.3	<0.10	<0.10	<0.21	<0.12	<0.23	<0.23	<0.092	<0.25	<0.23	<0.056	<0.11	<0.94	<0.92	<0.73	<0.11	<0.39	nd
dup(MW-A)	12/21/1998	<1.4	<1.3	<0.10	<0.10	<0.21	<0.12	<0.23	<0.23	<0.092	<0.25	<0.23	<0.056	<0.11	<0.94	<0.92	<0.73	<0.11	<0.39	nd
	6/25/2002	<0.018	<0.023	<0.020	<0.019	<0.012	<0.014	<0.015	<0.013	<0.018	<0.017	<0.028	<0.021	<0.014	--	--	<0.027	<0.019	<0.020	nd
dup(QA/QC-1)	6/25/2002	<0.018	<0.023	<0.020	<0.019	<0.012	<0.014	<0.015	<0.013	<0.018	<0.017	<0.028	<0.021	<0.014	--	--	<0.027	<0.019	<0.020	nd
	11/7/2002	<0.018	<0.019	<0.020	<0.012	0.017 *	0.013 *	<0.016	<0.019	<0.014	<0.016	0.016 *	<0.017	<0.021	<0.017	<0.017	<0.024	<0.016	<0.017	0.05
	4/15/2003	<0.018	<0.019	<0.020	<0.012	<0.014	<0.013	<0.016	<0.019	<0.014	<0.016	<0.013	<0.017	<0.021	<0.018	0.031 *	0.10	<0.016	<0.017	0.1
	7/1/2003	<0.018 &	<0.019 &	<0.020	<0.012	<0.014	<0.013	<0.016	<0.019	<0.014	<0.016	0.015 *	<0.017	<0.021	<0.018 A,&	<0.017 &	0.029 *,&,B	<0.016	0.018 *	0.1
	9/30/2003	<0.018	<0.019	<0.020	0.016 *	0.014 *	<0.013	<0.016	<0.019 &	0.014 *	<0.016	0.014 *	<0.017	<0.021	<0.018	<0.017	0.059 *	<0.016	0.020 *	0.1
	11/10/2003	<0.018 &	0.044*	0.024*	0.021 *	0.017 *	<0.013	<0.016	<0.019	0.014 *	<0.016	0.028 *	0.019*	<0.021	0.044*	0.053*	0.25&	0.071	0.039 *	0.6
	5/20/2004	0.019*	<0.018	<0.019	0.017 *	*0.02 **	0.015 *	<0.015	<0.018	0.016 *	<0.015	0.025 *	<0.016	<0.02	0.082	0.04	0.39	0.022*	0.029 *	0.7
MW-706	8/15/1995	197,000	1,480,000	**177,000**	129,000	**83,000**	**31,000**	62,000	29,000	**82,000**	13,000	**266,000**	**640,000**	32,000	--	--	**1,900,000**	730,000	**142,000**	5,993,000
	9/25/1995	9,400	82,000	**15,000**	11,000	**6,700**	**2,400**	4,900	980	**5,400**	<10	**8,400**	**57,000**	2,700	--	--	**166,000**	56,000	**9,700**	437,580
	6/25/2002	<290 D	2,700 D	*1,400 D*	1,000 D	**830 D**	**270 D, ***	270 D, *	460 D, *	**920 D**	<270 D	**2,200 D**	**1,200**	320 D, *	--	--	**7,100 D**	3,200 D	**2,200**	24,070
	11/7/2002	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/1/2003	34 &	370 D,*,&	<200 D	<120 D	<140 D	**29**	21	31	<140 D	6.4	<130 D	<170 D	18	510 D,A,*,&	640 D,&	**2,200 D,&**	250 D, *	<170 D	4,109
	11/10/2003	41 &	400D	140	190	**130**	**70**	43	70	**130**	14*	*280*	*150*	38*	510D	640D	**2,900 D,&**	410D	**360D**	6,516
	5/20/2004	16	220 D	43	65 *,D	**87 *,D**	**44**	31	36	**47**	11	*80 *,D*	40	27	130 D	140 D	**680 D**	110 D	*130 D*	1,937
PZ-702	12/21/1998	<1.4	<1.3	0.44	0.90	<0.21	**0.20 ***	<0.23	<0.23	**0.27 ***	<0.25	1.5	0.50	<0.11	<0.94	<0.92	1.2 *	1.5	2.3	8.8
	6/25/2002	<0.018	0.059*	<0.020	<0.019	<0.012	<0.014	<0.015	<0.013	<0.018	<0.017	<0.028	0.030*	<0.014	--	--	0.42	0.063	0.021 *	0.6
	11/7/2002	<0.018	0.023 *	<0.020	0.015 *	<0.014	<0.013	0.016 *	<0.019	*0.023 **	<0.016	0.039 *	0.020 *	<0.021	0.031 *	0.032 *	0.087	0.084	0.046 *	0.4
	4/15/2003	<0.018	<0.019	<0.020	0.013 *	<0.014	<0.013	<0.016	<0.019	<0.014	<0.016	0.013	0.017	<0.021	0.054 *	0.045 *	0.12	0.042 *	0.018 *	0.3
dup(QA/QC-1)	4/15/2003	<0.018	<0.019	<0.020	0.012 *	<0.014	<0.013	<0.016	<0.019	<0.014	<0.016	<0.013	<0.017	<0.021	0.042 *	0.072	0.20	0.026 *	<0.017	0.4
	7/1/2003	<0.018 &	0.037 *,&,B	<0.020	<0.012	<0.014	<0.013	<0.016	<0.019	0.014 *	<0.016	0.022 *	<0.017	<0.021	0.029 *,&,A,B	0.022 *,&,B	0.045 *,&,B	0.058 B	0.033 *	0.3
	9/30/2003	<0.018	<0.019	<0.020	<0.012	<0.014	<0.013	<0.016	<0.019 &	<0.014	<0.016	<0.013	<0.017	<0.021	<0.018	<0.017	0.049 *	0.019 *	<0.017	0.1
	11/10/2003	0.027 &,*	0.03*	0.025*	0.038*	*0.034**	0.019*	0.019*	<0.019	*0.033**	<0.016	0.046	0.02*	<0.021	0.030*	0.032 *	0.13&	0.082	0.080	0.6
dup(field)	11/10/2003	<0.018	0.22*	<0.02	0.025*	*0.021**	0.014*	<0.016	<0.019	*0.028**	<0.016	0.034*	<0.017	<0.021	0.022*	0.025 *	0.110	0.068	0.054*	1.2
	5/20/2004	<0.017	0.031*	<0.019	<0.011	<0.013	<0.012	<0.015	<0.018	0.015*	<0.015	0.017*	<0.016	<0.02	0.029*	0.034 *	0.6 D	0.028 *	0.027*	0.8
MW-707	8/15/1995	430	<2.0	12	2.2	**1.6**	**0.38**	1.3	0.52	**1.3**	0.25	27	*93*	0.74	--	--	**3,100**	60	12	3,742
	9/25/1995	240	1,400	10	0.4	**0.66**	**0.23**	0.83	0.19	**0.64**	0.40	21	*81*	0.35	--	--	**3,400**	60	5	5,221
	12/21/1998	221	<1.3	15	<0.10	**2.1**	<0.12	1.7	0.76	**2.2**	<0.25	28	64	1.3	454	<0.92	**3,470**	69	*58*	4,387

Table 3. Groundwater Analytical Results - Polynuclear Aromatic Hydrocarbons
Wisconsin Public Service Corporation - Campmarina Former Manufactured Gas Plant Site
Sheboygan, Wisconsin

Sampling Location	Sampling Date	POLYNUCLEAR AROMATIC HYDROCARBONS - PAHs (µg/L)																		
		Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (ghi) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene	Total PAHs
Wisconsin Groundwater Quality Standards (NR 140)																				
Preventive Action Limit		ns	ns	*600*	ns	*0.02*	*0.02*	ns	ns	*0.02*	ns	*80*	*80*	ns	ns	ns	*8*	ns	*50*	ns
Enforcement Standard		ns	ns	**3,000**	ns	**0.2**	**0.2**	ns	ns	**0.2**	ns	**400**	**400**	ns	ns	ns	**40**	ns	**250**	ns
MW-707R	6/25/2002	< 120 D	6.4	6.2	1.8	**1.2**	**0.73 ***	0.61 *	0.51 *	**1.2**	<0.34	7.5	<130 D	0.48 *	--	--	**1,600 D**	<120 D	7.3	1,634
	11/7/2002	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/1/2003	<180 D,&	6.8 &	9	1.8 *	**1.5 ***	<1.3	<1.6	<1.9	**1.8 ***	<1.6	9.6	39	<2.1	270 D,A,*,&	18 &	**1,800 D,&**	<160 D	12	2,170
	11/10/2003	<180 &,D	11	13	6,80	**5.20**	**2.7***	2.3*	2.6*	**5.6**	<1.6	18	47	<2.1	310 D, *	21	**2,000 D, &**	<160D	29	2,474
	5/20/2004	43	6.1	12	5.2	**4.1***	**2.0***	2.2*	2.3*	**4.4**	<1.5	15	31	<2.0	230 *,D	14	**1,600 D**	77 *,D	19	2,067
PZ-703	12/21/1998	<1.4	<1.3	0.20 *	0.22 *	<0.21	<0.12	<0.23	<0.23	<0.092	<0.25	0.25 *	0.44	<0.11	2.8 *	<0.92	**86**	0.53	0.64 *	91
	6/25/2002	1.2	<0.46	0.45 *	<0.38	<0.24	<0.28	<0.30	<0.26	<0.36	<0.34	<0.56	<0.42	<0.28	--	--	**190**	0.38 *	<0.40	192
	11/7/2002	<1.8	<1.9	<2.0	<1.2	<1.4	<1.3	<1.6	<1.9	<1.4	<1.6	<1.3	<1.7	<2.1	<1.7	<1.7	**41**	<1.6	<1.7	41
	4/15/2003	<1.4	<1.5	<1.6	<0.96	<1.1	<1.0	<1.3	<1.5	<1.1	<1.3	<1.0	<1.4	<1.7	<1.4	<1.4	*30*	1.4 *	<1.4	31
	7/1/2003	2.8 &,*	<1.9 &	<2.0	<1.2	<1.4	<1.3	<1.6	<1.9	<1.4	<1.6	<1.3	<1.7	<2.1	7.0 &,A	5.0 &,*	**410 D,&**	<1.6	<1.7	425
	9/30/2003	3.9	0.47 *	<0.40	<0.24	<0.28	<0.26	<0.32	<0.38 &	<0.28	<0.32	<0.26	0.41 *	<0.42	8.4	7.2	**350 D**	0.41 *	<0.34	371
	11/10/2003	7.4&	<1.9	<2.0	<1.2	<1.4	<1.3	<1.6	<1.9	<1.4	<1.6	<1.3	<1.7	<2.1	13	12	**510 D, &**	4.2 *	1.8 *	548
	5/20/2004	15	<1.8	<1.9	<1.1	<1.3	<1.2	<1.5	<1.8	<1.3	<1.5	<1.2	<1.6	<2.0	38	40	**1,900 D**	<1.5	<1.6	1,993
	8/24/2004	21 *	<7.7	<7.1	<7.8	<7.2	<7.2	<8.3	<7.7	<6.6	<8.8	<6.6	<8.7	<6.8	45	42	**1,600 D**	<8.2	<6.5	1,708
MW-708	12/21/1998	<1.4	<1.3	<0.10	<0.10	<0.21	<0.12	<0.23	<0.23	<0.092	<0.25	<0.23	<0.056	<0.11	<0.94	<0.92	<0.73	<0.11	<0.39	nd
	6/25/2002	<0.018	<0.023	<0.020	<0.019	0.014 *	<0.014	<0.015	<0.013	<0.018	<0.017	<0.028	<0.021	<0.014	--	--	<0.027	<0.019	<0.020	0.01
	11/7/2002	<0.018	<0.019	<0.020	<0.012	<0.014	<0.013	<0.016	<0.019	<0.014	<0.016	<0.013	<0.017	<0.021	<0.017	<0.017	<0.024	<0.016	<0.017	nd
dup(QA/QC-1)	11/7/2002	<0.018	<0.019	<0.020	<0.012	<0.014	<0.013	<0.016	<0.019	<0.014	<0.016	<0.013	<0.017	<0.021	<0.017	<0.017	<0.024	<0.016	<0.017	nd
	4/15/2003	<0.018	<0.019	<0.020	<0.012	<0.014	<0.013	<0.016	<0.019	<0.014	<0.016	<0.013	<0.017	<0.021	0.019 *	0.026 *	0.088	<0.016	<0.017	0.1
	7/1/2003	0.056 *,&,B	0.032 *,&,B	<0.020	<0.012	<0.014	<0.013	<0.016	<0.019	<0.014	<0.016	<0.013	0.020 *,B	<0.021	0.20 A,&,B	0.20 B,&	1.5 B,D,&	0.024 *,B	<0.017	2.0
	9/30/2003	<0.018	<0.019	<0.020	<0.012	<0.014	<0.013	<0.016	<0.019 &	<0.014	<0.016	<0.013	<0.017	<0.021	<0.018	<0.017	0.23	<0.016	<0.017	0.2
	11/10/2003	0.031 *,&	0.27	0.11	0.11	*0.068*	*0.033**	0.026*	0.038*	*0.071*	<0.016	0.15	0.11	0.022*	0.16	0.19	0.38&	0.36	0.22	2.4
	5/20/2004	<0.017	<0.018	<0.019	<0.011	<0.013	<0.012	<0.015	<0.018	<0.013	<0.015	<0.012	<0.016	<0.02	0.048*	0.02*	0.29	<0.015	<0.016	0.36

Table 3. Groundwater Analytical Results - Polynuclear Aromatic Hydrocarbons
Wisconsin Public Service Corporation - Campmarina Former Manufactured Gas Plant Site
Sheboygan, Wisconsin

Sampling Location	Sampling Date	POLYNUCLEAR AROMATIC HYDROCARBONS - PAHs (µg/L)																		
		Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (ghi) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene	Total PAHs
Wisconsin Groundwater Quality Standards (NR 140)																				
Preventive Action Limit		ns	ns	*600*	ns	*0.02*	*0.02*	ns	ns	*0.02*	ns	*80*	*80*	ns	ns	ns	*8*	ns	*50*	ns
Enforcement Standard		ns	ns	**3,000**	ns	**0.2**	**0.2**	ns	ns	**0.2**	ns	**400**	**400**	ns	ns	ns	**40**	ns	**250**	ns
MW-709	12/21/1998	3.4 *	<1.3	2.9	1.3	**0.30 ***	**0.51**	<0.23	<0.23	**0.66**	<0.25	6.6	3.3	<0.11	<0.94	<0.92	4.6	8.4	10	42
MW-709R	6/25/2002	0.13	<0.023	0.032*	<0.019	*0.10*	<0.014	<0.015	<0.013	<0.018	<0.017	<0.028	0.041 *	<0.014	--	--	1.8 D	0.084	0.027*	2.2
	11/7/2002	<0.018	<0.019	<0.020	<0.012	<0.014	<0.013	<0.016	<0.019	<0.014	<0.016	<0.013	<0.017	<0.021	<0.017	<0.017	<0.024	<0.016	<0.017	nd
	4/15/2003	<0.018	<0.019	<0.020	<0.012	<0.014	<0.013	<0.016	<0.019	<0.014	<0.016	<0.013	<0.017	<0.021	0.020 *	0.034 *	0.12	<0.016	<0.017	0.2
	7/1/2003	<0.018	<0.019	<0.020	<0.012	<0.014	<0.013	<0.016	<0.019	<0.014	<0.016	<0.013	<0.017	<0.021	0.020 *	0.019 *	0.040 *	<0.016	<0.017	0.1
dup(M)	7/1/2003	0.023 *,&,B	0.019 *	<0.020	<0.012	<0.014	<0.013	<0.016	<0.019	<0.014	<0.016	<0.013	<0.017	<0.021	0.084 A,&,B	0.044 *,&,B	0.74 B,D,&	<0.016	<0.017	0.9
	9/30/2003	<0.018	<0.019	<0.020	<0.012	<0.014	<0.013	<0.016	<0.019 &	<0.014	<0.016	<0.013	<0.017	<0.021	<0.018	<0.017	<0.024	<0.016	<0.017	nd
dup(M)	9/30/2003	<0.018	<0.019	<0.020	0.065	*0.059*	*0.066*	0.098	0.056 *,&	*0.057*	0.093	<0.013	<0.017	0.094	<0.018	<0.017	0.025*	<0.016	<0.017	0.6
	11/10/2003	<0.018	<0.019	0.022*	0.016*	<0.014	<0.013	<0.016	<0.019	0.015*	<0.016	0.027*	<0.017	<0.021	<0.018	<0.017	0.050*	0.064	0.033*	0.2
	5/20/2004	<0.017	<0.018	<0.019	<0.011	<0.013	<0.012	<0.015	<0.018	<0.013	<0.015	<0.012	<0.016	<0.02	0.057	0.023*	0.38	<0.015	<0.016	0.5
dup(Field)	5/20/2004	<0.017	<0.018	<0.019	<0.011	<0.013	<0.012	<0.015	<0.018	<0.013	<0.015	<0.012	<0.016	<0.02	0.031*	0.044*	0.15	<0.015	<0.016	0.23
Biosparge Well																				
BW-6	5/20/2004	<0.017	<0.018	<0.019	<0.011	<0.013	<0.012	<0.015	<0.018	<0.013	<0.015	<0.012	<0.016	<0.02	<0.017	<0.016	0.075*	<0.015	<0.016	0.1
BW-15	5/20/2004	0.22	<0.018	<0.019	<0.011	<0.013	<0.012	<0.015	<0.018	<0.013	<0.015	<0.012	0.043*	<0.02	1.3 D	0.32	5.9 D	0.031*	<0.016	7.8

[U-PAR/JTB 11/03 U-HMS 1/29/04 U-LJH/HMS 2/23/04 U-HMS/LJH 6/4/04 U-HMS/MJR 9/17/04]

Notes:
1) Concentrations that attain/exceed a preventive action limit (PAL) are *italics and underlined*.
2) Concentrations that attain/exceed an enforcement standard (ES) are **underlined and bold**.

<2.0 : Parameter not detected above the Limit of Detection indicated.
-- : Analysis was not performed
nd : Analyte not detected
ns : NR 140 standard not established
dup(QA/QC-1): Field duplicate sample (field identity shown in parentheses).

Laboratory Notes
* : Laboratory note - Parameter detected above the limit of detection (LOD) but below the limit of Quantitation (LOQ).
A : Laboratory note-Laboratory Control Spike recovery not within control limits.
B : Laboratory note-Analyte present in method blank.
D : Laboratory note- Analyte value from diluted analysis.
& : Laboratory note-Precision not within control limits.
M : Field duplicate identity was erroneously identified (field duplicate or field blank)

Table 4. Groundwater Analytical Results - Field & Laboratory RNA Analytical
Wisconsin Public Service Corporation - Campmarina Former Manufactured Gas Plant Site
Sheboygan, WI

		Laboratory Analytical						Pre Purge Field Measurements				
Well	Date	Alkalinity (mg/L)	Nitrite+Nitrate (mg/L)	Sulfate (mg/L)	Total Iron (µg/L)	Methane (µg/L)	Dissolved Iron (µg/L)	Conductivity (mmhos/cm)	pH (s.u.)	Temperature (C)	Dissolved Oxygen (mg/L)	Redox Potential (Eh/ORP) (mV)
Wisconsin Groundwater Quality Standards (NR140)												
Preventive Action Limit		ns	2	125	ns	ns	150	ns	ns	ns	ns	ns
Enforcement Standard		ns	10	250	ns	ns	300	ns	ns	ns	ns	ns
MW-701R	6/25/2002	1,200	<0.23	3.8 B	52,000	--	**20,000**	Coal Tar				
	11/7/2002	--	--	--	--	--	--	1.267	7.18	13.39	1.08	541
	1/24/2003	--	--	--	--	--	--	Coal Tar				
	7/1/2003	--	<0.047	2.3	--	11,000	**18,000**	1.243	9.32	12.84	4.29	214
	9/30/2003	--	--	--	--	--	--	--	--	--	--	--
	11/10/2003**	--	<0.047	<1.1	--	5,800	**40,000**	1.001	9.12	12.38	0.25	-12
	2/17/2003	--	--	--	--	--	--	Coal Tar				
	5/20/2004	--	<0.063	1.0*	--	6,700	--	0.173	9.74	9.9	7.36	13
	8/24/2004	--	--	--	--	--	--	2.244	6.46	15.66	0.74	179
PZ-701	6/25/2002	150	0.12	**320**	7,300	--	**440**	0.871	8.25	12.52	5.92	392
	11/7/2002	--	<0.075	200	--	250	**300**	0.562	7.74	14.02	1.92	511
	1/24/2003							quality probe wouldn't fit in well				
	4/15/2003	--	--	--	--	--	--	0.159	8.84	9.79	7.49	264
	7/1/2003	--	0.057 *	98	--	490	170	quality probe wouldn't fit in well				
	9/30/2003	--	--	--	--	--	--	0.595	7.56	10.5		--
	11/10/2003**	--	0.048*	58	--	250	92	quality probe wouldn't fit in well				
	2/17/2003	--	--	--	--	--	--	quality probe wouldn't fit in well				
	5/20/2004	--	0.14	51	--	57	--	0.00	9.91	18.06	1.01	13
	8/24/2004	--	--	--	--	--	--	0.712	6.76	16.6	3.73	268

Table 4. Groundwater Analytical Results - Field & Laboratory RNA Analytical
Wisconsin Public Service Corporation - Campmarina Former Manufactured Gas Plant Site
Sheboygan, WI

		Laboratory Analytical						Pre Purge Field Measurements				
Well	Date	Alkalinity (mg/L)	Nitrite+Nitrate (mg/L)	Sulfate (mg/L)	Total Iron (µg/L)	Methane (µg/L)	Dissolved Iron (µg/L)	Conductivity (mmhos/cm)	pH (s.u.)	Temperature (C)	Dissolved Oxygen (mg/L)	Redox Potential (Eh/ORP) (mV)
Wisconsin Groundwater Quality Standards (NR140)												
Preventive Action Limit		ns	*2*	*125*	ns	ns	*150*	ns	ns	ns	ns	ns
Enforcement Standard		ns	**10**	**250**	ns	ns	**300**	ns	ns	ns	ns	ns
MW-705	6/25/2002	460	<0.023	*190*	1,200	--	**410**	1.232	8.7	10.85	4.75	403
dup(QA/QC-1)	6/25/2002	300	<0.023	91	3,200	--	*240*	1.232	8.7	10.85	4.75	403
	11/7/2002	--	<0.075	<1.1	--	--	<61	1.407	7.76	11.02	6.42	539
	4/15/2003	--	--	--	--	--	--	1.404	8.41	7.45	6.28	262
	7/1/2003	--	<0.047	**380**	--	93	**670**	1.500	9.25	12.40	4.26	262
	9/30/2003	--	--	--	--	--	--	2.630	6.98	13.9	--	--
	11/10/2003**	--	0.21	**380**	--	74	**310**	1.084	9.84	12.21	0.27	36
	2/17/2003	--	--	--	--	--	--	3.300	6.68	6.52	7.61	200.7
	5/20/2004	--	<0.063	**350**	--	32	--	0.058	9.71	11.35	1.53	10
	8/24/2004	--	--	--	--	--	--	2.916	6.83	15.09	1.2	192
MW-706	6/25/2002	140	**23**	**1,200**	3,800	--	**620**			Coal Tar		
	11/7/2002	--	--	--	--	--	--	0.011	7.69	9.44	1.88	541
	1/24/2003	--	--	--	--	--	--			Coal Tar		
	7/1/2003	--	0.67	**880**	--	25	140	1.358	9.35	10.71	2.51	270
	11/10/2003**	--	*7.6*	**500**	--	<10	*280*	0.749	9.51	12.8	0.08	14
	2/17/2003	--	--	--	--	--	--			Coal Tar		
	5/20/2004	--	0.85	**880**	--	<10	--	0.385	9.98	10.15	8.9	-4
	8/24/2004	--	--	--	--	--	--	2.413	6.59	13.93	0.72	235

Table 4. Groundwater Analytical Results - Field & Laboratory RNA Analytical
Wisconsin Public Service Corporation - Campmarina Former Manufactured Gas Plant Site
Sheboygan, WI

		Laboratory Analytical						Pre Purge Field Measurements				
Well	Date	Alkalinity (mg/L)	Nitrite+Nitrate (mg/L)	Sulfate (mg/L)	Total Iron (µg/L)	Methane (µg/L)	Dissolved Iron (µg/L)	Conductivity (mmhos/cm)	pH (s.u.)	Temperature (C)	Dissolved Oxygen (mg/L)	Redox Potential (Eh/ORP) (mV)
Wisconsin Groundwater Quality Standards (NR140)												
Preventive Action Limit		ns	*2*	*125*	ns	ns	*150*	ns	ns	ns	ns	ns
Enforcement Standard		ns	**10**	**250**	ns	ns	**300**	ns	ns	ns	ns	ns
PZ-702	6/25/2002	50	<0.023	3.7 *, B	15,000	--	25	0.154	8.5	11.32	3.42	362
	11/7/2002	--	--	--	--	22	--	0.220	8.04	13.76	1.51	515
	1/24/2003	--	--	--	--	--	--	0.200	8.02	10.02	2.33	247
	4/15/2003	--	--	--	--	--	--	0.216	9.01	7.63	2.48	260
	7/1/2003	--	0.053 *	3.6	--	39	48 *	0.103	9.71	10.76	4.52	277
	9/30/2003	--	--	--	--	--	--	0.217	8.22	10.6	--	--
	11/10/2003**	--	<0.047	<1.1	--	<10	<18	0.095	10.36	10.28	2.0	13
dup (field)	11/10/2003	--	<0.047	<1.1	--	14	<18	--	--	--	--	--
	2/17/2003	--	--	--	--	--	--	0.265	7.54	8.83	7.76	179.5
	5/20/2004	--	0.2*	3.2	--	16	--	0.101	10.0	9.53	1.06	4
	8/24/2004	--	--	--	--	--	--	0.317	7.43	14.4	4.41	319
MW-707R	6/25/2002	460	<0.023	40	25,000	--	**730**			Coal Tar		
	11/7/2002	--	--	--	--	--	--	1.099	7.39	12.86	1.39	523
	1/24/2003	--	--	--	--	--	--			Coal Tar		
	7/1/2003	--	0.049 *	30	--	5,800	**510**	0.870	9.58	13.81	1.93	198
	11/10/2003**	--	<0.047	20	--	1,800	**1.1**	0.785	9.76	13.01	3.36	-85
	2/17/2003	--	--	--	--	--	--			Coal Tar		
	5/20/2004	--	<0.063	41	--	3,400	--	0.349	10.19	10.15	5.23	-73
	8/24/2004	--	--	--	--	--	--	1.65	6.81	17.15	1.08	214

Table 4. Groundwater Analytical Results - Field & Laboratory RNA Analytical
Wisconsin Public Service Corporation - Campmarina Former Manufactured Gas Plant Site
Sheboygan, WI

		Laboratory Analytical						Pre Purge Field Measurements				
Well	Date	Alkalinity (mg/L)	Nitrite+Nitrate (mg/L)	Sulfate (mg/L)	Total Iron (µg/L)	Methane (µg/L)	Dissolved Iron (µg/L)	Conductivity (mmhos/cm)	pH (s.u.)	Temperature (C)	Dissolved Oxygen (mg/L)	Redox Potential (Eh/ORP) (mV)
Wisconsin Groundwater Quality Standards (NR140)												
Preventive Action Limit		ns	*2*	*125*	ns	ns	*150*	ns	ns	ns	ns	ns
Enforcement Standard		ns	**10**	**250**	ns	ns	**300**	ns	ns	ns	ns	ns
PZ-703	6/25/2002	73	<0.023	4.7 B	27,000	--	**370**	0.283	8.95	11.7	0.64	377
	11/7/2002	--	<0.075	4.2	--	71	<61	0.028	8.33	13.01	1.49	492
	1/24/2003	--	--	--	--	--	--	quality probe wouldn't fit in well due to ice				
	4/15/2003	--	--	--	--	--	--	0.687	9.08	7.28	2.25	249
	7/1/2003	--	<0.047	4.3	--	230	100	0.204	9.99	9.91	2.51	130
	9/30/2003	--	--	--	--	--	--	0.320	8.61	10.6	--	--
	11/10/2003**	--	<0.047	4.7	--	53	<18	0.162	10.68	9.94	4.82	-80
	2/17/2003	--	--	--	--	--	--	0.429	10.42	6.69	6.55	178
	5/20/2004	--	<0.063	77	--	120	--	0.105	9.95	10.36	8.07	6
	8/24/2004	--	--	--	--	--	--	0.574	7.7	17.72	1.72	450
MW-708	6/25/2002	520	0.18	63	35,000	--	**2,500**	2.301	7.35	13.49	4.56	406
	11/7/2002	--	0.13 *	66	--	<10	<61	2.407	7.82	14.37	2.72	516
dup(QA/QC-1)	11/7/2002	--	0.18 *	67	--	<10	<61	--	--	--	--	--
	1/24/2003	--	--	--	--	--	--	4.941	7.83	10.49	1.93	248
	4/15/2003	--	--	--	--	--	--	2.875	8.67	9.19	2.52	258
	7/1/2003	--	0.14 *	70	--	<10	51 *	2.771	9.43	12.36	2.32	250
	9/30/2003	--	--	--	--	--	--	5.130	7.09	13.6	--	--
	11/10/2003**	--	0.12*	71	--	<10	<18	2.103	9.34	13.63	0.13	20
	2/17/2003	--	--	--	--	--	--	5.014	6.88	10.55	4.71	200.6
	5/20/2004	--	0.18	68	--	<10	--	1.041	9.91	9.67	6.1	-14
	8/24/2004	--	--	--	--	--	--	4.948	6.9	14.38	1.63	345

Table 4. Groundwater Analytical Results - Field & Laboratory RNA Analytical
Wisconsin Public Service Corporation - Campmarina Former Manufactured Gas Plant Site
Sheboygan, WI

		Laboratory Analytical						Pre Purge Field Measurements				
Well	Date	Alkalinity (mg/L)	Nitrite+Nitrate (mg/L)	Sulfate (mg/L)	Total Iron (µg/L)	Methane (µg/L)	Dissolved Iron (µg/L)	Conductivity (mmhos/cm)	pH (s.u.)	Temperature (C)	Dissolved Oxygen (mg/L)	Redox Potential (Eh/ORP) (mV)
Wisconsin Groundwater Quality Standards (NR140)												
Preventive Action Limit		ns	*2*	*125*	ns	ns	*150*	ns	ns	ns	ns	ns
Enforcement Standard		ns	**10**	**250**	ns	ns	**300**	ns	ns	ns	ns	ns
MW-709R	6/25/2002	900	*2.7*	**440**	4,000	--	**490**	1.32	7.97	14.74	4.44	415
	11/7/2002	--	--	--	--	--	--	1.534	7.57	13.99	1.82	549
	4/15/2003	--	--	--	--	--	--	1.480	8.65	6.92	10.14	246
	7/1/2003	--	0.093 *	**500**	--	<10	**820**	0.462	9.72	16.03	4.34	253
dup(M)	7/1/2003	--	0.13 *	**510**	--	17	**830**	--	--	--	--	--
	9/30/2003	--	--	--	--	--	--	3.350	6.92	16.2	--	--
	11/10/2003**	--	0.94	*210*	--	<10	**90**	1.066	9.54	12.22	1.06	42
	2/17/2003	--	--	--	--	--	--	2.680	6.86	5.02	9.38	200.6
	5/20/2004	--	0.79	*130*	--	<10	--	0.221	9.7	11.63	1.23	-13
dup(Field)	5/20/2004	--	0.8	*130*	--	<10	--	--	--	--	--	--
	8/24/2004	--	--	--	--	--	--	1.524	7.04	17.22	1.86	195

Table 4. Groundwater Analytical Results - Field & Laboratory RNA Analytical
Wisconsin Public Service Corporation - Campmarina Former Manufactured Gas Plant Site
Sheboygan, WI

		Laboratory Analytical						Pre Purge Field Measurements				
Well	Date	Alkalinity (mg/L)	Nitrite+Nitrate (mg/L)	Sulfate (mg/L)	Total Iron (µg/L)	Methane (µg/L)	Dissolved Iron (µg/L)	Conductivity (mmhos/cm)	pH (s.u.)	Temperature (C)	Dissolved Oxygen (mg/L)	Redox Potential (Eh/ORP) (mV)
Wisconsin Groundwater Quality Standards (NR140)												
Preventive Action Limit		ns	*2*	*125*	ns	ns	*150*	ns	ns	ns	ns	ns
Enforcement Standard		ns	**10**	**250**	ns	ns	**300**	ns	ns	ns	ns	ns
Biosparge Well												
BW-6	11/7/2002	--	0.13	35	--	<10	<61	0.004	8.36	10.72	3.4	391
	5/20/2004	--	<0.063	30	--	<10	--	--	--	--	--	--
	8/24/2004	--	--	--	--	--	--	quality probe wouldn't fit in well				
BW-15	5/20/2004	--	1.1	**1,500**	--	<10	--	--	--	--	--	--

(O-JTB/GRL7/30/02)(U-PAR/JTB 11/03)(U-PAR/? 3/04)(U-HMS/LJH 6/4/04)(U-HMS/MJR 9/17/04)

Notes:

1) Concentrations that attain/exceed a preventive action limit (PAL) are *italics and underlined*.
2) Concentrations that attain/exceed an enforcement standard (ES) are **underlined and bold**.
3) The field monitor for dissolved oxygen and ORP was not functioning on 09/30/2003.

C° : Degrees celcius
mg/L : milligrams per liter
µg/L : micrograms per liter
mV : millivolts
-- : Analysis was not performed
dup(QA/QC-1) : Field duplicate sample (field identity shown in parentheses)
Coal Tar : Free phased product present in well.
**: Field Measurements are post purge measurements.
ns : NR 140 standard not established
M : Field duplicate identity was erroneously identified (field duplicate or field blank)

Laboratory Notes:

B : Laboratory note-Analyte present in method blank.
* : Laboratory note - Parameter detected above the limit of detection (LOD) but below the limit of Quantitation (LOQ).

Table 5. Groundwater and Biosparge System Monitoring Schedule
Wisconsin Public Service Corporation - Campmarina Former Manufactured Gas Plant Site
Sheboygan, WI

	Year 1					Year 2				Year 3			
	Nov-02	Jan-03	Apr-03	Jul-03	Sep-03	Nov-03	Feb-04	May-04	Aug-04	Nov-04	Feb-05	May-05	Aug-05
Biosparge System Monitoring													
Vent Monitoring													
BTEX (8260)	X						X						
BTEX (8021)									X		X		X
PID	X			X			X	X		X	X	X	X
Sump Monitoring													
Hydrogen Sulfide (4 gas meter)		X					X				X		
Water Level	X	X	X			X	X	X		X	X	X	X
Groundwater Monitoring													
Monitoring Wells													
BW-6	X							X		X		X	
BW-15								X		X		X	
MW-701R				X		X		X		X		X	
PZ-701	X		X	X	X	X		X		X		X	
MW-706				X		X		X		X		X	
PZ-702	X		X	X	X	X		X		X		X	
MW-707R				X		X		X		X		X	
PZ-703	X		X	X	X	X		X	X	X		X	
MW-705	X		X	X	X	X		X		X		X	
MW-708	X		X	X	X	X		X		X		X	
MW-709R	X		X	X	X	X		X		X		X	
Field Parameters													
Water Quality Probe	X	X	X	X	X	X	X	X	X	X	X	X	X
Water Levels	X	X	X	X	X	X	X	X	X	X	X	X	X
Analytical Parameters													
Dissolved, Fe	X			X		X							
Nitrogen, Nitrate, Nitrite	X			X		X		X		X		X	
Methane	X			X		X		X		X		X	
Sulfate	X			X		X		X		X		X	
BTEX (USEPA 8260)	X		X					X	X				
BTEX (USEPA 8021)				X	X	X				X		X	
PAHs (USEPA 8270)	X		X	X	X	X		X	X	X		X	
Cyanide (USEPA 335.4)	X		X	X	X	X		X					
Weak Acid Dissociable Cyanide (SM 4500)									X	X		X	

Notes:
1. **X** - Indicates site visit, activity or sample collected during that visit.
2. *X* - Field Parameters were measured in PZ-701,702, 703; MW-708. Field Parameters were also measured in MW-701R, 706, and 707R.
3. Monitoring wells and piezometers sampled for BTEX (USEPA 8620B/8021B), PAHs (USEPA 8270), and Cyanides (total, amenable, and dissociable)(USEPA 335.4)
4. X - Indicates planned site visit, scheduled actvitiy or sample collected during that visit. Future cyanide monitoring will include only dissociable cyanide.
5. Water quality probe parameters will only be collected from monitoring wells that do not contain coal tar as observed during that monitoring event.
6. Water quality probe parameters include dissolved oxygen, pH, temperature, specific conductance and oxidation / reduction potential.

APPENDIX A

FORM 4400-194 WITH EXPLANATIONS

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: Former Campmarina Manufactured Gas Plant Site
2. Reporting period from: 11/1/03 To: 10/31/04 Days in period: 365
3. Regulatory agency (enter DNR, DCOM, DATCP and/or other): Wisconsin Department of Natural Resources
4. DNR issued site number: BRRTS ID #02-60-000095
5. State reimbursement fund claim number and fund name (if not applicable, enter NA): N/A
6. Site location:
   a. DNR region and county: Southeast Region, Sheboygan County
   b. Street address and municipality: 732 N. Water Street, Sheboygan, WI
   c. Township, range, section and quarter quarter section: NW 1/4, SW 1/4, Section 23, T15N, R23E
7. Responsible party:
   a. Name: Wisconsin Public Service Corporation
   b. Mailing address: 700N. Adams Street P.O. Box 19002
      Green Bay, Wisconsin 54307-9002 Attn: Ms. Shirley Scharff
   c. Phone number: (920) 433-1396
8. Consultant:
   a. Company name: Natural Resource Technology, Inc.
   b. Mailing address: 23713 W. Paul Road, Unit D
      Pewaukee, Wisconsin 53072
   c. Phone number: (262) 523-9000
9. Contaminants: BTEX, PAH's, Cyanide
10. Soil types (USCS or USDA): Heterogeneous fill-SM/SC-CL/ML
11. Hydraulic conductivity (cm/sec): 1.27 x 10^-5 to 1.27 x 10^-4 12. Average linear velocity of groundwater (ft/yr): 63

GENERAL SITE INFORMATION, CONTINUED

SITE NAME AND REPORTING PERIOD:

Site name: Former Campmarina Manufactured Gas Plant Site

Reporting period from: 11/1/03 To: 10/31/04 Days in period: 365

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: Southeast Region, Sheboygan County

    b. Township, range, section and quarter quarter section: NW 1/4, SW 1/4, Section 23, T15N, R23E

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).
_____ 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): Y
   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: N
3. Is natural attenuation an effective low cost option at this time? (Y/N): N
4. Is closure sampling warranted at this time? (Y/N): N
5. Are there any modifications that can be made to the remediation to improve cost effectiveness? (Y/N) If yes, explain: N

D. ECONOMIC AND COST DATA TO DATE:

1. Total investigation costs ($): $600,000
2. Implementation costs (design, capital and installation costs, excluding investigation costs) ($): $2,600,000.00
3. Total costs during the previous reporting period ($): $26,000.00
4. Total costs during this reporting period ($): $32,000.00
5. Total anticipated costs for the next reporting period ($): $42,000.00
6. Are any unusual or one-time costs listed in the reporting periods covered by D.3., D.4. or D.5. above? (Y/N) If yes explain: N
7. If close out is anticipated within 12 months, estimated costs for project closeout ($): _____

GENERAL SITE INFORMATION, CONTINUED

SITE NAME AND REPORTING PERIOD:

Site name: Former Campmarina Manufactured Gas Plant Site

Reporting period from: 11/1/03 To: 10/31/04 Days in period: 365

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) Christopher A. Robb, 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: Chr: A. Robb, Project Manager, E-34688
12/22/04

Hydrogeologists:

I (print name) _____, 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.

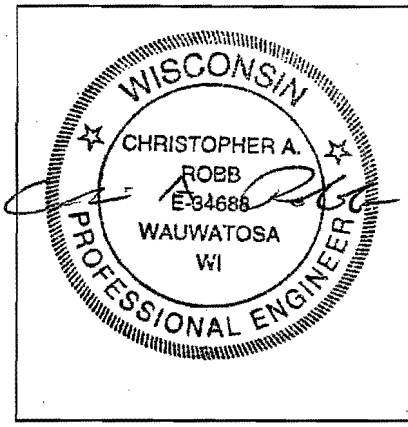
Signature, title and date: _____

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:



OTHER GROUNDWATER REMEDIATION METHODS

SITE NAME AND REPORTING PERIOD:

Site name: Former Campmarina Manufactured Gas Plant Site

Reporting period from: 11/1/03 To: 10/31/04 Days in period: 365

Date that the system was first started up: 11/7/02

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: Free Product, contained by engineered barrier system

   b. Percent reduction necessary: N/A

   c. Maximum contaminant concentration level in any monitoring well (µg/L): Benzene 3,700 µg/L

2. Is the size of the plume increasing, stabilized, or decreasing: Plume only within containment barrier

3. Describe the method used to remediate groundwater at the site. See Attached

4. List any additional information required by the DNR for this method for this site:

   See Attached

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.
- Groundwater contaminant chemistry table.
- Groundwater elevations table.
- Any other attachments required by the DNR for this remediation method.

ADDITIONAL INFORMATION FOR PERIOD OF 11/1/03 THROUGH 10/31/04: OPERATION, MAINTENANCE, MONITORING AND OPTIMIZATION REPORTING OF SOIL AND GROUNDWATER REMEDIATION SYSTEMS (WDNR Form 4400-194)

Page GW-4, A.3.

Groundwater at the site is contained by an engineered containment system that consists of Waterloo® sheet pile barrier surrounding the perimeter of the site and a geosynthetic cap to limit infiltration to groundwater. Aerobic degradation of groundwater contaminants within the engineered containment system is stimulated by a low flow biosparge system that is designed to provide an increased source of oxygen to the groundwater via low flow injection of ambient air.

Page GW-4, A.4.

The engineered containment system has drains along the entire interior perimeter of the containment system to provide relief for groundwater fluctuation and pressure during biosparge operations. The interior perimeter drain is connected to a sump in the building that houses the biosparge system. During operation and maintenance of the biosparge system, the sump is inspected for collected water and vapors in the form of volatile organic compounds (VOCs) and hydrogen sulfide (H_2S, an indicator of anaerobic biodegradation in the subsurface).

Assessment of Water Collected in the Sump:

During this period, the system was not operational from March 5 through 9, 2004, May 8 through 10, 2004, May 21 through 25, 2004, May 30 through June 4, 2004, and June 11 through 28, 2004 due to the high building sump alarm condition. The highest water level observed in the building sump was 41.5 inches deep on June 1, 2004. The system was shutdown during times of high water alarms and the system was checked periodically during alarm condition to observe any changes. Water levels decreased after each alarm condition either by evaporation or by groundwater levels reduction within the containment barrier.

Assessment of Vapors in the Sump:

On February 17, 2004, a PID reading of 0.0 ppm was collected from the sump air vent. In addition, the sump was evaluated for the presence of H_2S using a multi-gas meter. The meter did not detect the presence of H_2S in the sump (0.0 ppm). The meter detected 2% LEL that was similar to detected background air. Oxygen detection was 20.8% and carbon monoxide detection was 0 ppm.

On May 20, 2004, a PID reading of 0.0 ppm was collected from the sump air vent.

Two air samples (VENT) were collected from the sampling port on the sump's ventilation stack using an impinger on February 17, 2004 and August 26, 2004. The samples were analyzed for benzene, ethylbenzene, toluene and total xylenes (BTEX). The result of the air sample did not detect any compounds above the stated levels of detection (<0.38 µg/L).

APPENDIX B

GROUNDWATER ANALYTICAL REPORTS

EN CHEM INC.

Corporate Office & Laboratory
1241 Bellevue Street, Suite 9, Green Bay, WI 54302
920-469-2436, 800-7-ENCHEM, Fax: 920-469-8827
www.enchem.com

Analytical Report Number: 840872

Client : WISCONSIN PUBLIC SERVICE

Project Name : SHEBOYGAN CAMP MARINA

Project Number : 1313

Lab Sample Number	Field ID	Matrix	Collection Date
840872-001	PZ-703	WATER	11/10/03
840872-002	MW-707R	WATER	11/10/03
840872-003	PZ-701	WATER	11/10/03
840872-004	MW-701R	WATER	11/10/03
840872-005	PZ-702	WATER	11/10/03
840872-006	MW-706	WATER	11/10/03
840872-007	MW-708	WATER	11/10/03
840872-008	MW-705	WATER	11/10/03
840872-009	MW-709R	WATER	11/10/03
840872-010	FIELD DUPLICATE	WATER	11/10/03
840872-011	TRIP BLANK	WATER	11/10/03

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.

Approval Signature

11/24/03
Date

En Chem Inc.

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

Analytical Report Number: 840872

Client : WISCONSIN PUBLIC SERVICE
Project Name : SHEBOYGAN CAMP MARINA
Project Number : 1313
Field ID : PZ-703

Matrix Type : WATER
Collection Date : 11/10/03
Report Date : 11/24/03
Lab Sample Number : 840872-001

INORGANICS

Test		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Iron - Dissolved	<	18	18	59		1	ug/L		11/14/03	SW846 6010B	SW846 6010B
Cyanide, Total - Dissolved		0.0051	0.0015	0.0050		1	mg/L		11/13/03	EPA 335.4	EPA 335.4
Nitrogen, NO3 + NO2	<	0.047	0.047	0.16		1	mg/L		11/13/03	EPA 353.2	EPA 353.2
Sulfate		4.7	1.1	3.7		1	mg/L		11/11/03	EPA 300.0	EPA 300.0

BTEX

Prep Date: 11/12/03

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Benzene	2100	3.0	10		10	ug/L		11/12/03	SW846 5030B	SW846 M8021
Ethylbenzene	1100	6.0	20		10	ug/L		11/12/03	SW846 5030B	SW846 M8021
Toluene	65	5.8	19		10	ug/L		11/12/03	SW846 5030B	SW846 M8021
Xylene, o	300	6.4	21		10	ug/L		11/12/03	SW846 5030B	SW846 M8021
Xylenes, m + p	260	12	40		10	ug/L		11/12/03	SW846 5030B	SW846 M8021
a,a,a-Trifluorotoluene	95				1	%Recov		11/12/03	SW846 5030B	SW846 M8021

METHANE

Prep Date: 11/20/03

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Methane	53			10	1	ug/L		11/20/03	SW846 M8015	SW846 M8015

PAH/ PNA

Prep Date: 11/11/03

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene		13	1.8	6.0		100	ug/L		11/12/03	SW846 3510C	8270C-SIM
2-Methylnaphthalene		12	1.7	5.7		100	ug/L		11/12/03	SW846 3510C	8270C-SIM
Acenaphthene		7.4	1.8	6.0		100	ug/L	*	11/12/03	SW846 3510C	8270C-SIM
Acenaphthylene	<	1.9	1.9	6.3		100	ug/L		11/12/03	SW846 3510C	8270C-SIM
Anthracene	<	2.0	2.0	6.7		100	ug/L		11/12/03	SW846 3510C	8270C-SIM
Benzo(a)anthracene	<	1.2	1.2	4.0		100	ug/L		11/12/03	SW846 3510C	8270C-SIM
Benzo(a)pyrene	<	1.4	1.4	4.7		100	ug/L		11/12/03	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene	<	1.3	1.3	4.3		100	ug/L		11/12/03	SW846 3510C	8270C-SIM
Benzo(ghi)perylene	<	1.6	1.6	5.3		100	ug/L		11/12/03	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene	<	1.9	1.9	6.3		100	ug/L		11/12/03	SW846 3510C	8270C-SIM
Chrysene	<	1.4	1.4	4.7		100	ug/L		11/12/03	SW846 3510C	8270C-SIM
Dibenzo(a,h)anthracene	<	1.6	1.6	5.3		100	ug/L		11/12/03	SW846 3510C	8270C-SIM
Fluoranthene	<	1.3	1.3	4.3		100	ug/L		11/12/03	SW846 3510C	8270C-SIM
Fluorene	<	1.7	1.7	5.7		100	ug/L		11/12/03	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene	<	2.1	2.1	7.0		100	ug/L		11/12/03	SW846 3510C	8270C-SIM
Naphthalene		510	48	160		2000	ug/L	*D	11/12/03	SW846 3510C	8270C-SIM
Phenanthrene		4.2	1.6	5.3		100	ug/L	Q	11/12/03	SW846 3510C	8270C-SIM
Pyrene		1.8	1.7	5.7		100	ug/L	Q	11/12/03	SW846 3510C	8270C-SIM
Nitrobenzene-d5		NA				1	%Recov	D	11/12/03	SW846 3510C	8270C-SIM
2-Fluorobiphenyl		NA				1	%Recov	D	11/12/03	SW846 3510C	8270C-SIM
Terphenyl-d14		NA				1	%Recov	D	11/12/03	SW846 3510C	8270C-SIM

En Chem Inc.

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

Analytical Report Number: 840872

Client : WISCONSIN PUBLIC SERVICE
Project Name : SHEBOYGAN CAMP MARINA
Project Number : 1313
Field ID : MW-707R

Matrix Type : WATER
Collection Date : 11/10/03
Report Date : 11/24/03
Lab Sample Number : 840872-002

INORGANICS

Test		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Iron - Dissolved		1100	18	59		1	ug/L		11/14/03	SW846 6010B	SW846 6010B
Cyanide, Total - Dissolved		0.30	0.0015	0.0050		1	mg/L		11/13/03	EPA 335.4	EPA 335.4
Nitrogen, NO3 + NO2	<	0.047	0.047	0.16		1	mg/L		11/13/03	EPA 353.2	EPA 353.2
Sulfate		20	1.1	3.7		1	mg/L		11/11/03	EPA 300.0	EPA 300.0

BTEX

Prep Date: 11/12/03

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Benzene	1500	7.5	25		25	ug/L		11/12/03	SW846 5030B	SW846 M8021
Ethylbenzene	3000	15	50		25	ug/L		11/12/03	SW846 5030B	SW846 M8021
Toluene	76	14	48		25	ug/L		11/12/03	SW846 5030B	SW846 M8021
Xylene, o	760	16	53		25	ug/L		11/12/03	SW846 5030B	SW846 M8021
Xylenes, m + p	290	30	100		25	ug/L		11/12/03	SW846 5030B	SW846 M8021
a,a,a-Trifluorotoluene	99				1	%Recov		11/12/03	SW846 5030B	SW846 M8021

METHANE

Prep Date: 11/20/03

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Methane	1800			250	25	ug/L		11/20/03	SW846 M8015	SW846 M8015

PAH/ PNA

Prep Date: 11/11/03

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene		310	180	600		10000	ug/L	QD	11/12/03	SW846 3510C	8270C-SIM
2-Methylnaphthalene		21	1.7	5.7		100	ug/L		11/12/03	SW846 3510C	8270C-SIM
Acenaphthene	<	180	180	600		10000	ug/L	*D	11/12/03	SW846 3510C	8270C-SIM
Acenaphthylene		11	1.9	6.3		100	ug/L		11/12/03	SW846 3510C	8270C-SIM
Anthracene		13	2.0	6.7		100	ug/L		11/12/03	SW846 3510C	8270C-SIM
Benzo(a)anthracene		6.8	1.2	4.0		100	ug/L		11/12/03	SW846 3510C	8270C-SIM
Benzo(a)pyrene		5.2	1.4	4.7		100	ug/L		11/12/03	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene		2.7	1.3	4.3		100	ug/L	Q	11/12/03	SW846 3510C	8270C-SIM
Benzo(ghi)perylene		2.3	1.6	5.3		100	ug/L	Q	11/12/03	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene		2.6	1.9	6.3		100	ug/L	Q	11/12/03	SW846 3510C	8270C-SIM
Chrysene		5.6	1.4	4.7		100	ug/L		11/12/03	SW846 3510C	8270C-SIM
Dibenzo(a,h)anthracene	<	1.6	1.6	5.3		100	ug/L		11/12/03	SW846 3510C	8270C-SIM
Fluoranthene		18	1.3	4.3		100	ug/L		11/12/03	SW846 3510C	8270C-SIM
Fluorene		47	1.7	5.7		100	ug/L		11/12/03	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene	<	2.1	2.1	7.0		100	ug/L		11/12/03	SW846 3510C	8270C-SIM
Naphthalene		2000	240	800		10000	ug/L	*D	11/12/03	SW846 3510C	8270C-SIM
Phenanthrene	<	160	160	530		10000	ug/L	D	11/12/03	SW846 3510C	8270C-SIM
Pyrene		29	1.7	5.7		100	ug/L		11/12/03	SW846 3510C	8270C-SIM
Nitrobenzene-d5		NA				1	%Recov	D	11/12/03	SW846 3510C	8270C-SIM
2-Fluorobiphenyl		NA				1	%Recov	D	11/12/03	SW846 3510C	8270C-SIM
Terphenyl-d14		NA				1	%Recov	D	11/12/03	SW846 3510C	8270C-SIM

En Chem Inc.

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

Analytical Report Number: 840872

Client : WISCONSIN PUBLIC SERVICE
Project Name : SHEBOYGAN CAMP MARINA
Project Number : 1313
Field ID : PZ-701

Matrix Type : WATER
Collection Date : 11/10/03
Report Date : 11/24/03
Lab Sample Number : 840872-003

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Iron - Dissolved	92	18	59		1	ug/L		11/15/03	SW846 6010B	SW846 6010B
Cyanide, Total - Dissolved	0.21	0.0015	0.0050		1	mg/L		11/13/03	EPA 335.4	EPA 335.4
Nitrogen, NO3 + NO2	0.048	0.047	0.16		1	mg/L	Q	11/13/03	EPA 353.2	EPA 353.2
Sulfate	58	1.1	3.7		1	mg/L		11/11/03	EPA 300.0	EPA 300.0

BTEX

Prep Date: 11/12/03

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Benzene	< 0.30	0.30	1.0		1	ug/L		11/12/03	SW846 5030B	SW846 M8021
Ethylbenzene	0.70	0.60	2.0		1	ug/L	Q	11/12/03	SW846 5030B	SW846 M8021
Toluene	< 0.58	0.58	1.9		1	ug/L		11/12/03	SW846 5030B	SW846 M8021
Xylene, o	< 0.64	0.64	2.1		1	ug/L		11/12/03	SW846 5030B	SW846 M8021
Xylenes, m + p	< 1.2	1.2	4.0		1	ug/L		11/12/03	SW846 5030B	SW846 M8021
a,a,a-Trifluorotoluene	104				1	%Recov		11/12/03	SW846 5030B	SW846 M8021

METHANE

Prep Date: 11/20/03

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Methane	250			20	2	ug/L		11/20/03	SW846 M8015	SW846 M8015

PAH/ PNA

Prep Date: 11/11/03

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	0.27	0.018	0.060		1	ug/L		11/12/03	SW846 3510C	8270C-SIM
2-Methylnaphthalene	0.17	0.017	0.057		1	ug/L		11/12/03	SW846 3510C	8270C-SIM
Acenaphthene	0.28	0.018	0.060		1	ug/L	*	11/12/03	SW846 3510C	8270C-SIM
Acenaphthylene	0.68	0.38	1.3		20	ug/L	QD	11/12/03	SW846 3510C	8270C-SIM
Anthracene	1.2	0.40	1.3		20	ug/L	QD	11/12/03	SW846 3510C	8270C-SIM
Benzo(a)anthracene	2.4	0.24	0.80		20	ug/L	D	11/12/03	SW846 3510C	8270C-SIM
Benzo(a)pyrene	1.5	0.28	0.93		20	ug/L	D	11/12/03	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene	1.1	0.26	0.87		20	ug/L	D	11/12/03	SW846 3510C	8270C-SIM
Benzo(ghi)perylene	0.65	0.32	1.1		20	ug/L	QD	11/12/03	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene	1.1	0.38	1.3		20	ug/L	QD	11/12/03	SW846 3510C	8270C-SIM
Chrysene	1.5	0.28	0.93		20	ug/L	D	11/12/03	SW846 3510C	8270C-SIM
Dibenzo(a,h)anthracene	0.24	0.016	0.053		1	ug/L		11/12/03	SW846 3510C	8270C-SIM
Fluoranthene	4.4	0.26	0.87		20	ug/L	D	11/12/03	SW846 3510C	8270C-SIM
Fluorene	0.34	0.017	0.057		1	ug/L		11/12/03	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene	0.60	0.42	1.4		20	ug/L	QD	11/12/03	SW846 3510C	8270C-SIM
Naphthalene	1.3	0.48	1.6		20	ug/L	Q*D	11/12/03	SW846 3510C	8270C-SIM
Phenanthrene	4.6	0.32	1.1		20	ug/L	D	11/12/03	SW846 3510C	8270C-SIM
Pyrene	4.2	0.34	1.1		20	ug/L	D	11/12/03	SW846 3510C	8270C-SIM
Nitrobenzene-d5	62				1	%Recov		11/12/03	SW846 3510C	8270C-SIM
2-Fluorobiphenyl	46				1	%Recov		11/12/03	SW846 3510C	8270C-SIM
Terphenyl-d14	88				1	%Recov		11/12/03	SW846 3510C	8270C-SIM

En Chem Inc.

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

Analytical Report Number: 840872

Client : WISCONSIN PUBLIC SERVICE
Project Name : SHEBOYGAN CAMP MARINA
Project Number : 1313
Field ID : MW-701R

Matrix Type : WATER
Collection Date : 11/10/03
Report Date : 11/24/03
Lab Sample Number : 840872-004

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Iron - Dissolved	40000	19	62		1	ug/L		11/17/03	SW846 3010A	SW846 6010B
Cyanide, Total - Dissolved	0.16	0.0015	0.0050		1	mg/L		11/13/03	EPA 335.4	EPA 335.4
Nitrogen, NO3 + NO2	< 0.047	0.047	0.16		1	mg/L		11/13/03	EPA 353.2	EPA 353.2
Sulfate	< 1.1	1.1	3.7		1	mg/L		11/11/03	EPA 300.0	EPA 300.0

BTEX

Prep Date: 11/12/03

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Benzene	3400	7.5	25		25	ug/L		11/12/03	SW846 5030B	SW846 M8021
Ethylbenzene	330	15	50		25	ug/L		11/12/03	SW846 5030B	SW846 M8021
Toluene	18	14	48		25	ug/L	Q	11/12/03	SW846 5030B	SW846 M8021
Xylene, o	160	16	53		25	ug/L		11/12/03	SW846 5030B	SW846 M8021
Xylenes, m + p	100	30	100		25	ug/L		11/12/03	SW846 5030B	SW846 M8021
a,a,a-Trifluorotoluene	96				1	%Recov		11/12/03	SW846 5030B	SW846 M8021

METHANE

Prep Date: 11/20/03

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Methane	5800			500	50	ug/L		11/20/03	SW846 M8015	SW846 M8015

PAH/ PNA

Prep Date: 11/11/03

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	420	94	310		5000	ug/L	D	11/13/03	SW846 3510C	8270C-SIM
2-Methylnaphthalene	480	89	300		5000	ug/L	D	11/13/03	SW846 3510C	8270C-SIM
Acenaphthene	400	94	310		5000	ug/L	*D	11/13/03	SW846 3510C	8270C-SIM
Acenaphthylene	25	4.0	13		200	ug/L		11/12/03	SW846 3510C	8270C-SIM
Anthracene	120	100	350		5000	ug/L	QD	11/13/03	SW846 3510C	8270C-SIM
Benzo(a)anthracene	100	2.5	8.4		200	ug/L		11/12/03	SW846 3510C	8270C-SIM
Benzo(a)pyrene	66	2.9	9.8		200	ug/L		11/12/03	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene	28	2.7	9.1		200	ug/L		11/12/03	SW846 3510C	8270C-SIM
Benzo(ghi)perylene	24	3.4	11		200	ug/L		11/12/03	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene	30	4.0	13		200	ug/L		11/12/03	SW846 3510C	8270C-SIM
Chrysene	72	2.9	9.8		200	ug/L		11/12/03	SW846 3510C	8270C-SIM
Dibenzo(a,h)anthracene	6.2	3.4	11		200	ug/L	Q	11/12/03	SW846 3510C	8270C-SIM
Fluoranthene	140	68	230		5000	ug/L	QD	11/13/03	SW846 3510C	8270C-SIM
Fluorene	110	89	300		5000	ug/L	QD	11/13/03	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene	18	4.4	15		200	ug/L		11/12/03	SW846 3510C	8270C-SIM
Naphthalene	2000	130	420		5000	ug/L	*D	11/13/03	SW846 3510C	8270C-SIM
Phenanthrene	420	84	280		5000	ug/L	D	11/13/03	SW846 3510C	8270C-SIM
Pyrene	270	89	300		5000	ug/L	QD	11/13/03	SW846 3510C	8270C-SIM
Nitrobenzene-d5	NA				1	%Recov	D	11/12/03	SW846 3510C	8270C-SIM
2-Fluorobiphenyl	NA				1	%Recov	D	11/12/03	SW846 3510C	8270C-SIM
Terphenyl-d14	NA				1	%Recov	D	11/12/03	SW846 3510C	8270C-SIM

En Chem Inc.

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

Analytical Report Number: 840872

Client : WISCONSIN PUBLIC SERVICE
Project Name : SHEBOYGAN CAMP MARINA
Project Number : 1313
Field ID : MW-706

Matrix Type : WATER
Collection Date : 11/10/03
Report Date : 11/24/03
Lab Sample Number : 840872-006

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Iron - Dissolved	280	18	59		1	ug/L		11/15/03	SW846 6010B	SW846 6010B
Cyanide, Total - Dissolved	0.086	0.0015	0.0050		1	mg/L		11/13/03	EPA 335.4	EPA 335.4
Nitrogen, NO3 + NO2	7.6	0.24	0.78		5	mg/L		11/13/03	EPA 353.2	EPA 353.2
Sulfate	500	5.5	18		5	mg/L		11/17/03	EPA 300.0	EPA 300.0

BTEX

Prep Date: 11/12/03

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Benzene	3200	7.5	25		25	ug/L		11/12/03	SW846 5030B	SW846 M8021
Ethylbenzene	150	15	50		25	ug/L		11/12/03	SW846 5030B	SW846 M8021
Toluene	1300	14	48		25	ug/L		11/12/03	SW846 5030B	SW846 M8021
Xylene, o	460	16	53		25	ug/L		11/12/03	SW846 5030B	SW846 M8021
Xylenes, m + p	300	30	100		25	ug/L		11/12/03	SW846 5030B	SW846 M8021
a,a,a-Trifluorotoluene	97				1	%Recov		11/12/03	SW846 5030B	SW846 M8021

METHANE

Prep Date: 11/20/03

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Methane	< 10			10	1	ug/L		11/20/03	SW846 M8015	SW846 M8015

PAH/ PNA

Prep Date: 11/11/03

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	510	110	360		2000	ug/L	D	11/12/03	SW846 3510C	8270C-SIM
2-Methylnaphthalene	640	100	340		2000	ug/L	D	11/12/03	SW846 3510C	8270C-SIM
Acenaphthene	41	11	36		200	ug/L	*	11/12/03	SW846 3510C	8270C-SIM
Acenaphthylene	400	110	380		2000	ug/L	D	11/12/03	SW846 3510C	8270C-SIM
Anthracene	140	12	40		200	ug/L		11/12/03	SW846 3510C	8270C-SIM
Benzo(a)anthracene	190	7.2	24		200	ug/L		11/12/03	SW846 3510C	8270C-SIM
Benzo(a)pyrene	130	8.4	28		200	ug/L		11/12/03	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene	70	7.8	26		200	ug/L		11/12/03	SW846 3510C	8270C-SIM
Benzo(ghi)perylene	43	9.6	32		200	ug/L		11/12/03	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene	70	11	38		200	ug/L		11/12/03	SW846 3510C	8270C-SIM
Chrysene	130	8.4	28		200	ug/L		11/12/03	SW846 3510C	8270C-SIM
Dibenzo(a,h)anthracene	14	9.6	32		200	ug/L	Q	11/12/03	SW846 3510C	8270C-SIM
Fluoranthene	280	7.8	26		200	ug/L		11/12/03	SW846 3510C	8270C-SIM
Fluorene	150	10	34		200	ug/L		11/12/03	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene	38	13	42		200	ug/L	Q	11/12/03	SW846 3510C	8270C-SIM
Naphthalene	2900	140	480		2000	ug/L	*D	11/12/03	SW846 3510C	8270C-SIM
Phenanthrene	410	96	320		2000	ug/L	D	11/12/03	SW846 3510C	8270C-SIM
Pyrene	360	100	340		2000	ug/L	D	11/12/03	SW846 3510C	8270C-SIM
Nitrobenzene-d5	NA				1	%Recov	D	11/12/03	SW846 3510C	8270C-SIM
2-Fluorobiphenyl	NA				1	%Recov	D	11/12/03	SW846 3510C	8270C-SIM
Terphenyl-d14	NA				1	%Recov	D	11/12/03	SW846 3510C	8270C-SIM

En Chem Inc.

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

Analytical Report Number: 840872

Client : WISCONSIN PUBLIC SERVICE
Project Name : SHEBOYGAN CAMP MARINA
Project Number : 1313
Field ID : MW-708

Matrix Type : WATER
Collection Date : 11/10/03
Report Date : 11/24/03
Lab Sample Number : 840872-007

INORGANICS

Test		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Iron - Dissolved	<	18	18	59		1	ug/L		11/15/03	SW846 6010B	SW846 6010B
Cyanide, Total - Dissolved		0.0046	0.0015	0.0050		1	mg/L	Q	11/13/03	EPA 335.4	EPA 335.4
Nitrogen, NO3 + NO2		0.12	0.047	0.16		1	mg/L	Q	11/13/03	EPA 353.2	EPA 353.2
Sulfate		71	1.1	3.7		1	mg/L		11/11/03	EPA 300.0	EPA 300.0

BTEX

Prep Date: 11/12/03

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Benzene	<	0.30	0.30	1.0		1	ug/L		11/12/03	SW846 5030B	SW846 M8021
Ethylbenzene	<	0.60	0.60	2.0		1	ug/L		11/12/03	SW846 5030B	SW846 M8021
Toluene	<	0.58	0.58	1.9		1	ug/L		11/12/03	SW846 5030B	SW846 M8021
Xylene, o	<	0.64	0.64	2.1		1	ug/L		11/12/03	SW846 5030B	SW846 M8021
Xylenes, m + p	<	1.2	1.2	4.0		1	ug/L		11/12/03	SW846 5030B	SW846 M8021
a,a,a-Trifluorotoluene		103				1	%Recov		11/12/03	SW846 5030B	SW846 M8021

METHANE

Prep Date: 11/20/03

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Methane	<	10			10	1	ug/L		11/20/03	SW846 M8015	SW846 M8015

PAH/ PNA

Prep Date: 11/11/03

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	0.16	0.018	0.060		1	ug/L		11/12/03	SW846 3510C	8270C-SIM
2-Methylnaphthalene	0.19	0.017	0.057		1	ug/L		11/12/03	SW846 3510C	8270C-SIM
Acenaphthene	0.031	0.018	0.060		1	ug/L	Q*	11/12/03	SW846 3510C	8270C-SIM
Acenaphthylene	0.27	0.019	0.063		1	ug/L		11/12/03	SW846 3510C	8270C-SIM
Anthracene	0.11	0.020	0.067		1	ug/L		11/12/03	SW846 3510C	8270C-SIM
Benzo(a)anthracene	0.11	0.012	0.040		1	ug/L		11/12/03	SW846 3510C	8270C-SIM
Benzo(a)pyrene	0.068	0.014	0.047		1	ug/L		11/12/03	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene	0.033	0.013	0.043		1	ug/L	Q	11/12/03	SW846 3510C	8270C-SIM
Benzo(ghi)perylene	0.026	0.016	0.053		1	ug/L	Q	11/12/03	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene	0.038	0.019	0.063		1	ug/L	Q	11/12/03	SW846 3510C	8270C-SIM
Chrysene	0.071	0.014	0.047		1	ug/L		11/12/03	SW846 3510C	8270C-SIM
Dibenzo(a,h)anthracene	< 0.016	0.016	0.053		1	ug/L		11/12/03	SW846 3510C	8270C-SIM
Fluoranthene	0.15	0.013	0.043		1	ug/L		11/12/03	SW846 3510C	8270C-SIM
Fluorene	0.11	0.017	0.057		1	ug/L		11/12/03	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene	0.022	0.021	0.070		1	ug/L	Q	11/12/03	SW846 3510C	8270C-SIM
Naphthalene	0.38	0.024	0.080		1	ug/L	*	11/12/03	SW846 3510C	8270C-SIM
Phenanthrene	0.36	0.016	0.053		1	ug/L		11/12/03	SW846 3510C	8270C-SIM
Pyrene	0.22	0.017	0.057		1	ug/L		11/12/03	SW846 3510C	8270C-SIM
Nitrobenzene-d5	96				1	%Recov		11/12/03	SW846 3510C	8270C-SIM
2-Fluorobiphenyl	78				1	%Recov		11/12/03	SW846 3510C	8270C-SIM
Terphenyl-d14	112				1	%Recov		11/12/03	SW846 3510C	8270C-SIM

En Chem Inc.

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

Analytical Report Number: 840872

Client : WISCONSIN PUBLIC SERVICE
Project Name : SHEBOYGAN CAMP MARINA
Project Number : 1313
Field ID : MW-705

Matrix Type : WATER
Collection Date : 11/10/03
Report Date : 11/24/03
Lab Sample Number : 840872-008

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Iron - Dissolved	310	18	59		1	ug/L		11/15/03	SW846 6010B	SW846 6010B
Cyanide, Total - Dissolved	0.17	0.0015	0.0050		1	mg/L		11/13/03	EPA 335.4	EPA 335.4
Nitrogen, NO3 + NO2	0.21	0.047	0.16		1	mg/L		11/13/03	EPA 353.2	EPA 353.2
Sulfate	380	5.5	18		5	mg/L		11/11/03	EPA 300.0	EPA 300.0

BTEX

Prep Date: 11/12/03

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Benzene	< 0.30	0.30	1.0		1	ug/L		11/12/03	SW846 5030B	SW846 M8021
Ethylbenzene	< 0.60	0.60	2.0		1	ug/L		11/12/03	SW846 5030B	SW846 M8021
Toluene	< 0.58	0.58	1.9		1	ug/L		11/12/03	SW846 5030B	SW846 M8021
Xylene, o	< 0.64	0.64	2.1		1	ug/L		11/12/03	SW846 5030B	SW846 M8021
Xylenes, m + p	< 1.2	1.2	4.0		1	ug/L		11/12/03	SW846 5030B	SW846 M8021
a,a,a-Trifluorotoluene	103				1	%Recov		11/12/03	SW846 5030B	SW846 M8021

METHANE

Prep Date: 11/20/03

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Methane	74			10	1	ug/L		11/20/03	SW846 M8015	SW846 M8015

PAH/ PNA

Prep Date: 11/11/03

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	0.044	0.018	0.060		1	ug/L	Q	11/12/03	SW846 3510C	8270C-SIM
2-Methylnaphthalene	0.053	0.017	0.057		1	ug/L	Q	11/12/03	SW846 3510C	8270C-SIM
Acenaphthene	< 0.018	0.018	0.060		1	ug/L	*	11/12/03	SW846 3510C	8270C-SIM
Acenaphthylene	0.044	0.019	0.063		1	ug/L	Q	11/12/03	SW846 3510C	8270C-SIM
Anthracene	0.024	0.020	0.067		1	ug/L	Q	11/12/03	SW846 3510C	8270C-SIM
Benzo(a)anthracene	0.021	0.012	0.040		1	ug/L	Q	11/12/03	SW846 3510C	8270C-SIM
Benzo(a)pyrene	0.017	0.014	0.047		1	ug/L	Q	11/12/03	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene	< 0.013	0.013	0.043		1	ug/L		11/12/03	SW846 3510C	8270C-SIM
Benzo(ghi)perylene	< 0.016	0.016	0.053		1	ug/L		11/12/03	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene	< 0.019	0.019	0.063		1	ug/L		11/12/03	SW846 3510C	8270C-SIM
Chrysene	0.014	0.014	0.047		1	ug/L	Q	11/12/03	SW846 3510C	8270C-SIM
Dibenzo(a,h)anthracene	< 0.016	0.016	0.053		1	ug/L		11/12/03	SW846 3510C	8270C-SIM
Fluoranthene	0.028	0.013	0.043		1	ug/L	Q	11/12/03	SW846 3510C	8270C-SIM
Fluorene	0.019	0.017	0.057		1	ug/L	Q	11/12/03	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene	< 0.021	0.021	0.070		1	ug/L		11/12/03	SW846 3510C	8270C-SIM
Naphthalene	0.25	0.024	0.080		1	ug/L	*	11/12/03	SW846 3510C	8270C-SIM
Phenanthrene	0.071	0.016	0.053		1	ug/L		11/12/03	SW846 3510C	8270C-SIM
Pyrene	0.039	0.017	0.057		1	ug/L	Q	11/12/03	SW846 3510C	8270C-SIM
Nitrobenzene-d5	101				1	%Recov		11/12/03	SW846 3510C	8270C-SIM
2-Fluorobiphenyl	81				1	%Recov		11/12/03	SW846 3510C	8270C-SIM
Terphenyl-d14	112				1	%Recov		11/12/03	SW846 3510C	8270C-SIM

En Chem Inc.

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

Analytical Report Number: 840872

Client : WISCONSIN PUBLIC SERVICE
Project Name : SHEBOYGAN CAMP MARINA
Project Number : 1313
Field ID : MW-709R

Matrix Type : WATER
Collection Date : 11/10/03
Report Date : 11/24/03
Lab Sample Number : 840872-009

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Iron - Dissolved	90	18	59		1	ug/L		11/15/03	SW846 6010B	SW846 6010B
Cyanide, Total - Dissolved	0.10	0.0015	0.0050		1	mg/L		11/13/03	EPA 335.4	EPA 335.4
Nitrogen, NO3 + NO2	0.94	0.047	0.16		1	mg/L		11/13/03	EPA 353.2	EPA 353.2
Sulfate	210	5.5	18		5	mg/L		11/11/03	EPA 300.0	EPA 300.0

BTEX

Prep Date: 11/12/03

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Benzene	<	0.30	0.30	1.0		1	ug/L		11/12/03	SW846 5030B	SW846 M8021
Ethylbenzene	<	0.60	0.60	2.0		1	ug/L		11/12/03	SW846 5030B	SW846 M8021
Toluene	<	0.58	0.58	1.9		1	ug/L		11/12/03	SW846 5030B	SW846 M8021
Xylene, o	<	0.64	0.64	2.1		1	ug/L		11/12/03	SW846 5030B	SW846 M8021
Xylenes, m + p	<	1.2	1.2	4.0		1	ug/L		11/12/03	SW846 5030B	SW846 M8021
a,a,a-Trifluorotoluene		103				1	%Recov		11/12/03	SW846 5030B	SW846 M8021

METHANE

Prep Date: 11/20/03

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Methane	<	10			10	1	ug/L		11/20/03	SW846 M8015	SW846 M8015

PAH/ PNA

Prep Date: 11/13/03

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	<	0.018	0.018	0.060		1	ug/L		11/13/03	SW846 3510C	8270C-SIM
2-Methylnaphthalene	<	0.017	0.017	0.057		1	ug/L		11/13/03	SW846 3510C	8270C-SIM
Acenaphthene	<	0.018	0.018	0.060		1	ug/L		11/13/03	SW846 3510C	8270C-SIM
Acenaphthylene	<	0.019	0.019	0.063		1	ug/L		11/13/03	SW846 3510C	8270C-SIM
Anthracene		0.022	0.020	0.067		1	ug/L	Q	11/13/03	SW846 3510C	8270C-SIM
Benzo(a)anthracene		0.016	0.012	0.040		1	ug/L	Q	11/13/03	SW846 3510C	8270C-SIM
Benzo(a)pyrene	<	0.014	0.014	0.047		1	ug/L		11/13/03	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene	<	0.013	0.013	0.043		1	ug/L		11/13/03	SW846 3510C	8270C-SIM
Benzo(ghi)perylene	<	0.016	0.016	0.053		1	ug/L		11/13/03	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene	<	0.019	0.019	0.063		1	ug/L		11/13/03	SW846 3510C	8270C-SIM
Chrysene		0.015	0.014	0.047		1	ug/L	Q	11/13/03	SW846 3510C	8270C-SIM
Dibenzo(a,h)anthracene	<	0.016	0.016	0.053		1	ug/L		11/13/03	SW846 3510C	8270C-SIM
Fluoranthene		0.027	0.013	0.043		1	ug/L	Q	11/13/03	SW846 3510C	8270C-SIM
Fluorene	<	0.017	0.017	0.057		1	ug/L		11/13/03	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene	<	0.021	0.021	0.070		1	ug/L		11/13/03	SW846 3510C	8270C-SIM
Naphthalene		0.050	0.024	0.080		1	ug/L	Q	11/13/03	SW846 3510C	8270C-SIM
Phenanthrene		0.064	0.016	0.053		1	ug/L		11/13/03	SW846 3510C	8270C-SIM
Pyrene		0.033	0.017	0.057		1	ug/L	Q	11/13/03	SW846 3510C	8270C-SIM
Nitrobenzene-d5		62				1	%Recov		11/13/03	SW846 3510C	8270C-SIM
2-Fluorobiphenyl		67				1	%Recov		11/13/03	SW846 3510C	8270C-SIM
Terphenyl-d14		129				1	%Recov		11/13/03	SW846 3510C	8270C-SIM

En Chem Inc.

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

Analytical Report Number: 840872

Client : WISCONSIN PUBLIC SERVICE
Project Name : SHEBOYGAN CAMP MARINA
Project Number : 1313
Field ID : PZ-702

Matrix Type : WATER
Collection Date : 11/10/03
Report Date : 11/24/03
Lab Sample Number : 840872-005

INORGANICS

Test		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Iron - Dissolved	<	18	18	59		1	ug/L		11/15/03	SW846 6010B	SW846 6010B
Cyanide, Total - Dissolved		0.010	0.0015	0.0050		1	mg/L		11/13/03	EPA 335.4	EPA 335.4
Nitrogen, NO3 + NO2	<	0.047	0.047	0.16		1	mg/L		11/13/03	EPA 353.2	EPA 353.2
Sulfate	<	1.1	1.1	3.7		1	mg/L		11/11/03	EPA 300.0	EPA 300.0

BTEX

Prep Date: 11/12/03

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Benzene	<	0.30	0.30	1.0		1	ug/L		11/12/03	SW846 5030B	SW846 M8021
Ethylbenzene	<	0.60	0.60	2.0		1	ug/L		11/12/03	SW846 5030B	SW846 M8021
Toluene	<	0.58	0.58	1.9		1	ug/L		11/12/03	SW846 5030B	SW846 M8021
Xylene, o	<	0.64	0.64	2.1		1	ug/L		11/12/03	SW846 5030B	SW846 M8021
Xylenes, m + p	<	1.2	1.2	4.0		1	ug/L		11/12/03	SW846 5030B	SW846 M8021
a,a,a-Trifluorotoluene		102				1	%Recov		11/12/03	SW846 5030B	SW846 M8021

METHANE

Prep Date: 11/20/03

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Methane	<	10			10	1	ug/L		11/20/03	SW846 M8015	SW846 M8015

PAH/ PNA

Prep Date: 11/11/03

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene		0.030	0.018	0.060		1	ug/L	Q	11/12/03	SW846 3510C	8270C-SIM
2-Methylnaphthalene		0.032	0.017	0.057		1	ug/L	Q	11/12/03	SW846 3510C	8270C-SIM
Acenaphthene		0.027	0.018	0.060		1	ug/L	Q*	11/12/03	SW846 3510C	8270C-SIM
Acenaphthylene		0.030	0.019	0.063		1	ug/L	Q	11/12/03	SW846 3510C	8270C-SIM
Anthracene		0.025	0.020	0.067		1	ug/L	Q	11/12/03	SW846 3510C	8270C-SIM
Benzo(a)anthracene		0.038	0.012	0.040		1	ug/L	Q	11/12/03	SW846 3510C	8270C-SIM
Benzo(a)pyrene		0.034	0.014	0.047		1	ug/L	Q	11/12/03	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene		0.019	0.013	0.043		1	ug/L	Q	11/12/03	SW846 3510C	8270C-SIM
Benzo(ghi)perylene		0.019	0.016	0.053		1	ug/L	Q	11/12/03	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene	<	0.019	0.019	0.063		1	ug/L		11/12/03	SW846 3510C	8270C-SIM
Chrysene		0.033	0.014	0.047		1	ug/L	Q	11/12/03	SW846 3510C	8270C-SIM
Dibenzo(a,h)anthracene	<	0.016	0.016	0.053		1	ug/L		11/12/03	SW846 3510C	8270C-SIM
Fluoranthene		0.046	0.013	0.043		1	ug/L		11/12/03	SW846 3510C	8270C-SIM
Fluorene		0.020	0.017	0.057		1	ug/L	Q	11/12/03	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene	<	0.021	0.021	0.070		1	ug/L		11/12/03	SW846 3510C	8270C-SIM
Naphthalene		0.13	0.024	0.080		1	ug/L	*	11/12/03	SW846 3510C	8270C-SIM
Phenanthrene		0.082	0.016	0.053		1	ug/L		11/12/03	SW846 3510C	8270C-SIM
Pyrene		0.080	0.017	0.057		1	ug/L		11/12/03	SW846 3510C	8270C-SIM
Nitrobenzene-d5		64				1	%Recov		11/12/03	SW846 3510C	8270C-SIM
2-Fluorobiphenyl		57				1	%Recov		11/12/03	SW846 3510C	8270C-SIM
Terphenyl-d14		112				1	%Recov		11/12/03	SW846 3510C	8270C-SIM

En Chem Inc.

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

Analytical Report Number: 840872

Client : WISCONSIN PUBLIC SERVICE
Project Name : SHEBOYGAN CAMP MARINA
Project Number : 1313
Field ID : FIELD DUPLICATE

Matrix Type : WATER
Collection Date : 11/10/03
Report Date : 11/24/03
Lab Sample Number : 840872-010

INORGANICS

Test		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Iron - Dissolved	<	18	18	59		1	ug/L		11/15/03	SW846 6010B	SW846 6010B
Cyanide, Total - Dissolved		0.0032	0.0015	0.0050		1	mg/L	Q	11/13/03	EPA 335.4	EPA 335.4
Nitrogen, NO3 + NO2	<	0.047	0.047	0.16		1	mg/L		11/13/03	EPA 353.2	EPA 353.2
Sulfate	<	1.1	1.1	3.7		1	mg/L		11/11/03	EPA 300.0	EPA 300.0

BTEX

Prep Date: 11/12/03

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Benzene	<	0.30	0.30	1.0		1	ug/L		11/12/03	SW846 5030B	SW846 M8021
Ethylbenzene	<	0.60	0.60	2.0		1	ug/L		11/12/03	SW846 5030B	SW846 M8021
Toluene	<	0.58	0.58	1.9		1	ug/L		11/12/03	SW846 5030B	SW846 M8021
Xylene, o	<	0.64	0.64	2.1		1	ug/L		11/12/03	SW846 5030B	SW846 M8021
Xylenes, m + p	<	1.2	1.2	4.0		1	ug/L		11/12/03	SW846 5030B	SW846 M8021
a,a,a-Trifluorotoluene		102				1	%Recov		11/12/03	SW846 5030B	SW846 M8021

METHANE

Prep Date: 11/20/03

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Methane	14			10	1	ug/L		11/20/03	SW846 M8015	SW846 M8015

PAH/ PNA

Prep Date: 11/13/03

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene		0.022	0.018	0.060		1	ug/L	Q	11/13/03	SW846 3510C	8270C-SIM
2-Methylnaphthalene		0.025	0.017	0.057		1	ug/L	Q	11/13/03	SW846 3510C	8270C-SIM
Acenaphthene	<	0.018	0.018	0.060		1	ug/L		11/13/03	SW846 3510C	8270C-SIM
Acenaphthylene		0.022	0.019	0.063		1	ug/L	Q	11/13/03	SW846 3510C	8270C-SIM
Anthracene	<	0.020	0.020	0.067		1	ug/L		11/13/03	SW846 3510C	8270C-SIM
Benzo(a)anthracene		0.025	0.012	0.040		1	ug/L	Q	11/13/03	SW846 3510C	8270C-SIM
Benzo(a)pyrene		0.021	0.014	0.047		1	ug/L	Q	11/13/03	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene		0.014	0.013	0.043		1	ug/L	Q	11/13/03	SW846 3510C	8270C-SIM
Benzo(ghi)perylene	<	0.016	0.016	0.053		1	ug/L		11/13/03	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene	<	0.019	0.019	0.063		1	ug/L		11/13/03	SW846 3510C	8270C-SIM
Chrysene		0.028	0.014	0.047		1	ug/L	Q	11/13/03	SW846 3510C	8270C-SIM
Dibenzo(a,h)anthracene	<	0.016	0.016	0.053		1	ug/L		11/13/03	SW846 3510C	8270C-SIM
Fluoranthene		0.034	0.013	0.043		1	ug/L	Q	11/13/03	SW846 3510C	8270C-SIM
Fluorene	<	0.017	0.017	0.057		1	ug/L		11/13/03	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene	<	0.021	0.021	0.070		1	ug/L		11/13/03	SW846 3510C	8270C-SIM
Naphthalene		0.11	0.024	0.080		1	ug/L		11/13/03	SW846 3510C	8270C-SIM
Phenanthrene		0.068	0.016	0.053		1	ug/L		11/13/03	SW846 3510C	8270C-SIM
Pyrene		0.054	0.017	0.057		1	ug/L	Q	11/13/03	SW846 3510C	8270C-SIM
Nitrobenzene-d5		76				1	%Recov		11/13/03	SW846 3510C	8270C-SIM
2-Fluorobiphenyl		77				1	%Recov		11/13/03	SW846 3510C	8270C-SIM
Terphenyl-d14		125				1	%Recov		11/13/03	SW846 3510C	8270C-SIM

En Chem Inc.

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

Analytical Report Number: 840872

Client : WISCONSIN PUBLIC SERVICE
Project Name : SHEBOYGAN CAMP MARINA
Project Number : 1313
Field ID : TRIP BLANK

Matrix Type : WATER
Collection Date : 11/10/03
Report Date : 11/24/03
Lab Sample Number : 840872-011

BTEX

Prep Date: 11/12/03

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Benzene	<	0.30	0.30	1.0		1	ug/L		11/12/03	SW846 5030B	SW846 M8021
Ethylbenzene	<	0.60	0.60	2.0		1	ug/L		11/12/03	SW846 5030B	SW846 M8021
Toluene	<	0.58	0.58	1.9		1	ug/L		11/12/03	SW846 5030B	SW846 M8021
Xylene, o	<	0.64	0.64	2.1		1	ug/L		11/12/03	SW846 5030B	SW846 M8021
Xylenes, m + p	<	1.2	1.2	4.0		1	ug/L		11/12/03	SW846 5030B	SW846 M8021
a,a,a-Trifluorotoluene		102				1	%Recov		11/12/03	SW846 5030B	SW846 M8021

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.
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.
N	All	Spiked sample recovery not within control limits.
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 Inc.

Analysis Summary by Laboratory

1241 Bellevue Street
Green Bay, WI 54302

1090 Kennedy Avenue
Kimberly, WI 54136

Test Group Name	840872-001	840872-002	840872-003	840872-004	840872-005	840872-006	840872-007	840872-008	840872-009	840872-010	840872-011
BTEX	G	G	G	G	G	G	G	G	G	G	G
CYANIDE, TOTAL - DISSOLVED	K	K	K	K	K	K	K	K	K	K	
IRON - DISSOLVED	G	G	G	G	G	G	G	G	G	G	
METHANE	G	G	G	G	G	G	G	G	G	G	
NITROGEN, NO3 + NO2	K	K	K	K	K	K	K	K	K	K	
PAH/ PNA	G	G	G	G	G	G	G	G	G	G	
SULFATE	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	

En Chem, Inc. Cooler Receipt Log

Batch No. 840872

Project Name or ID 1313 No. of Coolers: 2 Temps: ROI

A. Receipt Phase: Date cooler was opened: 11-10-03 **By:** GD

1: Were samples received on ice? (Must be ≤ 6 C)	YES	NO[2]	
2: Was there a Temperature Blank?	YES	NO	
3: Were custody seals present and intact? (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	
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: 11-10-03 **By:** GD

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. CX	YES	NO	NA

Short Hold-time tests:

48 Hours or less	7 days	Footnotes
Coliform (6 hrs)	Flashpoint	1 Notify proper lab group immediately.
Hexavalent Chromium (24 Hrs)	TSS	
BOD	Total Solids	2 Complete nonconformance memo.
Nitrite or Nitrate	TDS	
Low Level Mercury	Sulfide	
Ortho Phosphorus	Free Liquids	
Turbidity	Total Volatile Solids	
Surfactants	~~Aqueous Extractable Organics- ALL~~	
Sulfite	Unpreserved VOC's	
En Core Preservation	Ash	
Color		

Rev. 4/11/03, Attachment to 1-REC-5.
Subject to QA Audit.

Reviewed by/date SB 11/11/03

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

(Please Print Legibly)
Company Name: Wis. Public Service
Branch or Location: Green Bay
Project Contact: Mike Mason
Telephone: (920) 433-1397
Project Number: 1313
Project Name: Sheboygan Camp Marina
Project State: WI
Sampled By (Print): Mike Mason

EN CHEM INC.
1241 Bellevue St., Suite 9
Green Bay, WI 54302
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Madison, WI 53711
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FAX: 608-233-0502

CHAIN OF CUSTODY

89077

Page 1 of 1

*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

P.O. # _____ Quote # _____
Mail Report To: Mike Mason
Company: WPS
Address: P.O. Box 19002
G.B. 54307-9002
Invoice To: Accounts Payable
Company: WPS
Address: Same
Mail Invoice To: _____

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: BTEX (8021B)	Methane	PAH (8310 or 8270 if previously detected)	Sulfate	NO3+NO2 Nitrogen	Fe - Dissolved	Chloride (1335.4)	TOTAL # OF BOTTLES SENT	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)
001	PZ-703	11/10/03		W	N	B	X	X	X	X	X	X	X	11	① analyses requested 40ml VOA 1-250ml HDPE 1 Amber	
002	MW-707R				N	B								11	added based on history	
003	PZ-701				N	A									and bottles received	
004	MW-701R				N	A								11	CB 11/11/03	
005	PZ-702				N	C								11		
006	MW-706				Y	D								11		
007	MW-708				Y	G								11		
008	MW-705													11		
009	MW-709R						↓	↓	↓	↓	↓	↓	↓	11		
010	Field Duplicate						X	X	X	X	X	X	X	11		
011	Trip Blank						X							2	2-40ml VOA TBK	

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:
Mike Mason	11/10/03 15:15	[illegible]	11/10/03 1515

En Chem Project No.: 840879
Sample Receipt Temp: 2.0
Sample Receipt pH (Wet/Metals): OK
Cooler Custody Seal: Present / Not Present
Intact / Not Intact

Version 2.0 1/02

EN CHEM INC.

Corporate Office & Laboratory
1241 Bellevue Street, Suite 9, Green Bay, WI 54302
920-469-2436, Fax: 920-469-8827
www.enchem.com

Analytical Report Number: 846808

Client: NATURAL RESOURCE TECHNOLOGY, INC.
Lab Contact: Tom Trainor
Project Name: WPSC - CAMP MARINA
Project Number: 1313

Lab Sample Number	Field ID	Matrix	Collection Date
846808-001	BW-6	WATER	05/20/04
846808-002	BW-15	WATER	05/20/04
846808-003	MW-701R	WATER	05/20/04
846808-004	MW-705	WATER	05/20/04
846808-005	MW-706	WATER	05/20/04
846808-006	MW-707R	WATER	05/20/04
846808-007	MW-708	WATER	05/20/04
846808-008	MW-709R	WATER	05/20/04
846808-009	PZ-703	WATER	05/20/04
846808-010	PZ-702	WATER	05/20/04
846808-011	PZ-701	WATER	05/20/04
846808-012	FIELD DUPLICATE	WATER	05/20/04
846808-013	TRIP BLANK	WATER	05/20/04

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

6/4/04
Date

En Chem Inc.

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

Analytical Report Number: 846808

Client : NATURAL RESOURCE TECHNOLOGY, INC.
Project Name : WPSC - CAMP MARINA
Project Number : 1313
Field ID : BW-6

Matrix Type : WATER
Collection Date : 05/20/04
Report Date : 06/03/04
Lab Sample Number : 846808-001

INORGANICS

Test		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Cyanide, Total - Dissolved		0.0032	0.0016	0.0055		1	mg/L	Q	06/02/04	EPA 335.4	EPA 335.4
Nitrogen, NO3 + NO2	<	0.063	0.063	0.21		1	mg/L		05/26/04	EPA 353.2	EPA 353.2
Sulfate		30	0.37	1.2		1	mg/L		05/21/04	EPA 300.0	EPA 300.0

BTEX

Prep Date: 05/27/04

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Benzene	<	0.41	0.41	1.4		1	ug/L		05/27/04	SW846 5030B	SW846 8260B
Ethylbenzene	<	0.54	0.54	1.8		1	ug/L		05/27/04	SW846 5030B	SW846 8260B
Toluene	<	0.67	0.67	2.2		1	ug/L		05/27/04	SW846 5030B	SW846 8260B
Xylene, o	<	0.83	0.83	2.8		1	ug/L		05/27/04	SW846 5030B	SW846 8260B
Xylenes, m + p	<	1.8	1.8	6.0		1	ug/L		05/27/04	SW846 5030B	SW846 8260B
4-Bromofluorobenzene		92				1	%Recov		05/27/04	SW846 5030B	SW846 8260B
Toluene-d8		91				1	%Recov		05/27/04	SW846 5030B	SW846 8260B
Dibromofluoromethane		80				1	%Recov		05/27/04	SW846 5030B	SW846 8260B

METHANE

Prep Date: 06/02/04

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Methane	<	10			10	1	ug/L		06/02/04	SW846 M8015	SW846 M8015

PAH/ PNA

Prep Date: 05/21/04

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	<	0.017	0.017	0.057		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
2-Methylnaphthalene	<	0.016	0.016	0.053		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Acenaphthene	<	0.017	0.017	0.057		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Acenaphthylene	<	0.018	0.018	0.060		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Anthracene	<	0.019	0.019	0.063		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Benzo(a)anthracene	<	0.011	0.011	0.038		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Benzo(a)pyrene	<	0.013	0.013	0.044		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene	<	0.012	0.012	0.041		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Benzo(ghi)perylene	<	0.015	0.015	0.050		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene	<	0.018	0.018	0.060		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Chrysene	<	0.013	0.013	0.044		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Dibenz(a,h)anthracene	<	0.015	0.015	0.050		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Fluoranthene	<	0.012	0.012	0.041		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Fluorene	<	0.016	0.016	0.053		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene	<	0.020	0.020	0.066		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Naphthalene		0.075	0.023	0.075		1	ug/L	Q	05/21/04	SW846 3510C	8270C-SIM
Phenanthrene	<	0.015	0.015	0.050		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Pyrene	<	0.016	0.016	0.053		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Nitrobenzene-d5		54				1	%Recov		05/21/04	SW846 3510C	8270C-SIM
2-Fluorobiphenyl		31				1	%Recov		05/21/04	SW846 3510C	8270C-SIM
Terphenyl-d14		108				1	%Recov		05/21/04	SW846 3510C	8270C-SIM

En Chem Inc.

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

Analytical Report Number: 846808

Client : NATURAL RESOURCE TECHNOLOGY, INC.
Project Name : WPSC - CAMP MARINA
Project Number : 1313
Field ID : BW-15

Matrix Type : WATER
Collection Date : 05/20/04
Report Date : 06/03/04
Lab Sample Number : 846808-002

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Cyanide, Total - Dissolved	0.077	0.0016	0.0055		1	mg/L		06/02/04	EPA 335.4	EPA 335.4
Nitrogen, NO3 + NO2	1.1	0.063	0.21		1	mg/L		05/26/04	EPA 353.2	EPA 353.2
Sulfate	1500	18	62		50	mg/L		05/21/04	EPA 300.0	EPA 300.0

BTEX

Prep Date: 05/27/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Benzene	2.8	0.41	1.4		1	ug/L		05/27/04	SW846 5030B	SW846 8260B
Ethylbenzene	2.5	0.54	1.8		1	ug/L		05/27/04	SW846 5030B	SW846 8260B
Toluene	< 0.67	0.67	2.2		1	ug/L		05/27/04	SW846 5030B	SW846 8260B
Xylene, o	2.6	0.83	2.8		1	ug/L	Q	05/27/04	SW846 5030B	SW846 8260B
Xylenes, m + p	< 1.8	1.8	6.0		1	ug/L		05/27/04	SW846 5030B	SW846 8260B
4-Bromofluorobenzene	92				1	%Recov		05/27/04	SW846 5030B	SW846 8260B
Toluene-d8	92				1	%Recov		05/27/04	SW846 5030B	SW846 8260B
Dibromofluoromethane	78				1	%Recov		05/27/04	SW846 5030B	SW846 8260B

METHANE

Prep Date: 06/02/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Methane	< 10			10	1	ug/L		06/02/04	SW846 M8015	SW846 M8015

PAH/ PNA

Prep Date: 05/21/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	1.3	0.34	1.1		20	ug/L	D	05/24/04	SW846 3510C	8270C-SIM
2-Methylnaphthalene	0.32	0.016	0.054		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Acenaphthene	0.22	0.017	0.057		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Acenaphthylene	< 0.018	0.018	0.060		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Anthracene	< 0.019	0.019	0.063		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Benzo(a)anthracene	< 0.011	0.011	0.038		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Benzo(a)pyrene	< 0.013	0.013	0.044		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene	< 0.012	0.012	0.041		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Benzo(ghi)perylene	< 0.015	0.015	0.051		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene	< 0.018	0.018	0.060		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Chrysene	< 0.013	0.013	0.044		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Dibenz(a,h)anthracene	< 0.015	0.015	0.051		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Fluoranthene	< 0.012	0.012	0.041		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Fluorene	0.043	0.016	0.054		1	ug/L	Q	05/21/04	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene	< 0.020	0.020	0.066		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Naphthalene	5.9	0.45	1.5		20	ug/L	D	05/24/04	SW846 3510C	8270C-SIM
Phenanthrene	0.031	0.015	0.051		1	ug/L	Q	05/21/04	SW846 3510C	8270C-SIM
Pyrene	< 0.016	0.016	0.054		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Nitrobenzene-d5	81				1	%Recov		05/21/04	SW846 3510C	8270C-SIM
2-Fluorobiphenyl	40				1	%Recov		05/21/04	SW846 3510C	8270C-SIM
Terphenyl-d14	116				1	%Recov		05/21/04	SW846 3510C	8270C-SIM

En Chem Inc.

1241 Bellevue Street
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Analytical Report Number: 846808

Client : NATURAL RESOURCE TECHNOLOGY, INC.
Project Name : WPSC - CAMP MARINA
Project Number : 1313
Field ID : MW-701R

Matrix Type : WATER
Collection Date : 05/20/04
Report Date : 06/03/04
Lab Sample Number : 846808-003

INORGANICS

Test		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Cyanide, Total - Dissolved		0.15	0.0016	0.0055		1	mg/L		06/02/04	EPA 335.4	EPA 335.4
Nitrogen, NO3 + NO2	<	0.063	0.063	0.21		1	mg/L		05/26/04	EPA 353.2	EPA 353.2
Sulfate		1.0	0.37	1.2		1	mg/L	Q	05/21/04	EPA 300.0	EPA 300.0

BTEX

Prep Date: 05/27/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Benzene	2600	10	34		25	ug/L		05/27/04	SW846 5030B	SW846 8260B
Ethylbenzene	300	14	45		25	ug/L		05/27/04	SW846 5030B	SW846 8260B
Toluene	17	17	56		25	ug/L	Q	05/27/04	SW846 5030B	SW846 8260B
Xylene, o	140	21	69		25	ug/L		05/27/04	SW846 5030B	SW846 8260B
Xylenes, m + p	71	45	150		25	ug/L	Q	05/27/04	SW846 5030B	SW846 8260B
4-Bromofluorobenzene	88				1	%Recov		05/27/04	SW846 5030B	SW846 8260B
Toluene-d8	88				1	%Recov		05/27/04	SW846 5030B	SW846 8260B
Dibromofluoromethane	79				1	%Recov		05/27/04	SW846 5030B	SW846 8260B

METHANE

Prep Date: 06/02/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Methane	6700			1000	100	ug/L		06/02/04	SW846 M8015	SW846 M8015

PAH/ PNA

Prep Date: 05/21/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	270	85	280		5000	ug/L	QD	05/25/04	SW846 3510C	8270C-SIM
2-Methylnaphthalene	280	80	270		5000	ug/L	D	05/25/04	SW846 3510C	8270C-SIM
Acenaphthene	250	85	280		5000	ug/L	QD	05/25/04	SW846 3510C	8270C-SIM
Acenaphthylene	10	1.8	6.0		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
Anthracene	< 94	94	310		5000	ug/L	D	05/25/04	SW846 3510C	8270C-SIM
Benzo(a)anthracene	30	1.1	3.8		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
Benzo(a)pyrene	21	1.3	4.4		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene	9.4	1.2	4.1		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
Benzo(ghi)perylene	8.7	1.5	5.0		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene	11	1.8	6.0		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
Chrysene	24	1.3	4.4		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
Dibenz(a,h)anthracene	1.9	1.5	5.0		100	ug/L	Q	05/22/04	SW846 3510C	8270C-SIM
Fluoranthene	67	61	200		5000	ug/L	QD	05/25/04	SW846 3510C	8270C-SIM
Fluorene	< 80	80	270		5000	ug/L	D	05/25/04	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene	6.0	2.0	6.6		100	ug/L	Q	05/22/04	SW846 3510C	8270C-SIM
Naphthalene	1400	110	380		5000	ug/L	D	05/25/04	SW846 3510C	8270C-SIM
Phenanthrene	240	75	250		5000	ug/L	QD	05/25/04	SW846 3510C	8270C-SIM
Pyrene	120	80	270		5000	ug/L	QD	05/25/04	SW846 3510C	8270C-SIM
Nitrobenzene-d5	NA				1	%Recov	D	05/22/04	SW846 3510C	8270C-SIM
2-Fluorobiphenyl	NA				1	%Recov	D	05/22/04	SW846 3510C	8270C-SIM
Terphenyl-d14	NA				1	%Recov	D	05/22/04	SW846 3510C	8270C-SIM

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1241 Bellevue Street
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Analytical Report Number: 846808

Client : NATURAL RESOURCE TECHNOLOGY, INC.
Project Name : WPSC - CAMP MARINA
Project Number : 1313
Field ID : MW-705

Matrix Type : WATER
Collection Date : 05/20/04
Report Date : 06/03/04
Lab Sample Number : 846808-004

INORGANICS

Test		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Cyanide, Total - Dissolved		0.15	0.0016	0.0055		1	mg/L		06/02/04	EPA 335.4	EPA 335.4
Nitrogen, NO3 + NO2	<	0.063	0.063	0.21		1	mg/L		05/26/04	EPA 353.2	EPA 353.2
Sulfate		350	3.7	12		10	mg/L		05/21/04	EPA 300.0	EPA 300.0

BTEX

Prep Date: 05/27/04

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Benzene	<	0.41	0.41	1.4		1	ug/L		05/27/04	SW846 5030B	SW846 8260B
Ethylbenzene	<	0.54	0.54	1.8		1	ug/L		05/27/04	SW846 5030B	SW846 8260B
Toluene	<	0.67	0.67	2.2		1	ug/L		05/27/04	SW846 5030B	SW846 8260B
Xylene, o	<	0.83	0.83	2.8		1	ug/L		05/27/04	SW846 5030B	SW846 8260B
Xylenes, m + p	<	1.8	1.8	6.0		1	ug/L		05/27/04	SW846 5030B	SW846 8260B
4-Bromofluorobenzene		90				1	%Recov		05/27/04	SW846 5030B	SW846 8260B
Toluene-d8		91				1	%Recov		05/27/04	SW846 5030B	SW846 8260B
Dibromofluoromethane		80				1	%Recov		05/27/04	SW846 5030B	SW846 8260B

METHANE

Prep Date: 06/02/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Methane	32			10	1	ug/L		06/02/04	SW846 M8015	SW846 M8015

PAH/ PNA

Prep Date: 05/21/04

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene		0.082	0.017	0.057		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
2-Methylnaphthalene		0.040	0.016	0.053		1	ug/L	Q	05/21/04	SW846 3510C	8270C-SIM
Acenaphthene		0.019	0.017	0.057		1	ug/L	Q	05/21/04	SW846 3510C	8270C-SIM
Acenaphthylene	<	0.018	0.018	0.060		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Anthracene	<	0.019	0.019	0.063		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Benzo(a)anthracene		0.017	0.011	0.038		1	ug/L	Q	05/21/04	SW846 3510C	8270C-SIM
Benzo(a)pyrene		0.020	0.013	0.044		1	ug/L	Q	05/21/04	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene		0.015	0.012	0.041		1	ug/L	Q	05/21/04	SW846 3510C	8270C-SIM
Benzo(ghi)perylene	<	0.015	0.015	0.050		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene	<	0.018	0.018	0.060		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Chrysene		0.016	0.013	0.044		1	ug/L	Q	05/21/04	SW846 3510C	8270C-SIM
Dibenz(a,h)anthracene	<	0.015	0.015	0.050		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Fluoranthene		0.025	0.012	0.041		1	ug/L	Q	05/21/04	SW846 3510C	8270C-SIM
Fluorene	<	0.016	0.016	0.053		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene	<	0.020	0.020	0.066		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Naphthalene		0.39	0.023	0.075		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Phenanthrene		0.022	0.015	0.050		1	ug/L	Q	05/21/04	SW846 3510C	8270C-SIM
Pyrene		0.029	0.016	0.053		1	ug/L	Q	05/21/04	SW846 3510C	8270C-SIM
Nitrobenzene-d5		108				1	%Recov		05/21/04	SW846 3510C	8270C-SIM
2-Fluorobiphenyl		105				1	%Recov		05/21/04	SW846 3510C	8270C-SIM
Terphenyl-d14		130				1	%Recov		05/21/04	SW846 3510C	8270C-SIM

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

Analytical Report Number: 846808

Client : NATURAL RESOURCE TECHNOLOGY, INC.
Project Name : WPSC - CAMP MARINA
Project Number : 1313
Field ID : MW-706

Matrix Type : WATER
Collection Date : 05/20/04
Report Date : 06/03/04
Lab Sample Number : 846808-005

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Cyanide, Total - Dissolved	0.15	0.0016	0.0055		1	mg/L		06/02/04	EPA 335.4	EPA 335.4
Nitrogen, NO3 + NO2	0.85	0.063	0.21		1	mg/L		05/26/04	EPA 353.2	EPA 353.2
Sulfate	880	7.4	25		20	mg/L		05/21/04	EPA 300.0	EPA 300.0

BTEX

Prep Date: 05/27/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Benzene	1100	4.1	14		10	ug/L		05/27/04	SW846 5030B	SW846 8260B
Ethylbenzene	110	5.4	18		10	ug/L		05/27/04	SW846 5030B	SW846 8260B
Toluene	990	6.7	22		10	ug/L		05/27/04	SW846 5030B	SW846 8260B
Xylene, o	130	8.3	28		10	ug/L		05/27/04	SW846 5030B	SW846 8260B
Xylenes, m + p	270	18	60		10	ug/L		05/27/04	SW846 5030B	SW846 8260B
4-Bromofluorobenzene	95				1	%Recov		05/27/04	SW846 5030B	SW846 8260B
Toluene-d8	91				1	%Recov		05/27/04	SW846 5030B	SW846 8260B
Dibromofluoromethane	77				1	%Recov		05/27/04	SW846 5030B	SW846 8260B

METHANE

Prep Date: 06/02/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Methane	< 10			10	1	ug/L		06/02/04	SW846 M8015	SW846 M8015

PAH/ PNA

Prep Date: 05/21/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	130	34	110		2000	ug/L	D	05/25/04	SW846 3510C	8270C-SIM
2-Methylnaphthalene	140	32	110		2000	ug/L	D	05/25/04	SW846 3510C	8270C-SIM
Acenaphthene	16	1.7	5.7		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
Acenaphthylene	220	36	120		2000	ug/L	D	05/25/04	SW846 3510C	8270C-SIM
Anthracene	43	1.9	6.3		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
Benzo(a)anthracene	65	23	75		2000	ug/L	QD	05/25/04	SW846 3510C	8270C-SIM
Benzo(a)pyrene	87	26	88		2000	ug/L	QD	05/25/04	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene	44	1.2	4.1		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
Benzo(ghi)perylene	31	1.5	5.0		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene	36	1.8	6.0		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
Chrysene	47	1.3	4.4		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
Dibenz(a,h)anthracene	11	1.5	5.0		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
Fluoranthene	80	25	82		2000	ug/L	QD	05/25/04	SW846 3510C	8270C-SIM
Fluorene	40	1.6	5.3		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene	27	2.0	6.6		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
Naphthalene	680	45	150		2000	ug/L	D	05/25/04	SW846 3510C	8270C-SIM
Phenanthrene	110	30	100		2000	ug/L	D	05/25/04	SW846 3510C	8270C-SIM
Pyrene	130	32	110		2000	ug/L	D	05/25/04	SW846 3510C	8270C-SIM
Nitrobenzene-d5	NA				1	%Recov	D	05/22/04	SW846 3510C	8270C-SIM
2-Fluorobiphenyl	NA				1	%Recov	D	05/22/04	SW846 3510C	8270C-SIM
Terphenyl-d14	NA				1	%Recov	D	05/22/04	SW846 3510C	8270C-SIM

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1241 Bellevue Street
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920-469-2436

Analytical Report Number: 846808

Client : NATURAL RESOURCE TECHNOLOGY, INC.
Project Name : WPSC - CAMP MARINA
Project Number : 1313
Field ID : MW-707R

Matrix Type : WATER
Collection Date : 05/20/04
Report Date : 06/03/04
Lab Sample Number : 846808-006

INORGANICS

Test		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Nitrogen, NO3 + NO2	<	0.063	0.063	0.21		1	mg/L		05/26/04	EPA 353.2	EPA 353.2
Sulfate		41	0.37	1.2		1	mg/L		05/21/04	EPA 300.0	EPA 300.0

BTEX

Prep Date: 05/27/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Benzene	1000	8.2	27		20	ug/L		05/27/04	SW846 5030B	SW846 8260B
Ethylbenzene	2500	11	36		20	ug/L		05/27/04	SW846 5030B	SW846 8260B
Toluene	76	13	45		20	ug/L		05/27/04	SW846 5030B	SW846 8260B
Xylene, o	670	17	55		20	ug/L		05/27/04	SW846 5030B	SW846 8260B
Xylenes, m + p	240	36	120		20	ug/L		05/27/04	SW846 5030B	SW846 8260B
4-Bromofluorobenzene	91				1	%Recov		05/27/04	SW846 5030B	SW846 8260B
Toluene-d8	90				1	%Recov		05/27/04	SW846 5030B	SW846 8260B
Dibromofluoromethane	79				1	%Recov		05/27/04	SW846 5030B	SW846 8260B

METHANE

Prep Date: 06/02/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Methane	3400			250	25	ug/L		06/02/04	SW846 M8015	SW846 M8015

PAH/ PNA

Prep Date: 05/21/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	230	85	280		5000	ug/L	QD	05/25/04	SW846 3510C	8270C-SIM
2-Methylnaphthalene	14	1.6	5.3		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
Acenaphthene	43	1.7	5.7		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
Acenaphthylene	6.1	1.8	6.0		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
Anthracene	12	1.9	6.3		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
Benzo(a)anthracene	5.2	1.1	3.8		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
Benzo(a)pyrene	4.1	1.3	4.4		100	ug/L	Q	05/22/04	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene	2.0	1.2	4.1		100	ug/L	Q	05/22/04	SW846 3510C	8270C-SIM
Benzo(ghi)perylene	2.2	1.5	5.0		100	ug/L	Q	05/22/04	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene	2.3	1.8	6.0		100	ug/L	Q	05/22/04	SW846 3510C	8270C-SIM
Chrysene	4.4	1.3	4.4		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
Dibenz(a,h)anthracene	< 1.5	1.5	5.0		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
Fluoranthene	15	1.2	4.1		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
Fluorene	31	1.6	5.3		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene	< 2.0	2.0	6.6		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
Naphthalene	1600	110	380		5000	ug/L	D	05/25/04	SW846 3510C	8270C-SIM
Phenanthrene	77	75	250		5000	ug/L	QD	05/25/04	SW846 3510C	8270C-SIM
Pyrene	19	1.6	5.3		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
Nitrobenzene-d5	NA				1	%Recov	D	05/22/04	SW846 3510C	8270C-SIM
2-Fluorobiphenyl	NA				1	%Recov	D	05/22/04	SW846 3510C	8270C-SIM
Terphenyl-d14	NA				1	%Recov	D	05/22/04	SW846 3510C	8270C-SIM

En Chem Inc.

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

Analytical Report Number: 846808

Client : NATURAL RESOURCE TECHNOLOGY, INC.
Project Name : WPSC - CAMP MARINA
Project Number : 1313
Field ID : MW-708

Matrix Type : WATER
Collection Date : 05/20/04
Report Date : 06/03/04
Lab Sample Number : 846808-007

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Cyanide, Total - Dissolved	0.0042	0.0016	0.0055		1	mg/L	Q	06/02/04	EPA 335.4	EPA 335.4
Nitrogen, NO3 + NO2	0.18	0.063	0.21		1	mg/L	Q	05/26/04	EPA 353.2	EPA 353.2
Sulfate	68	0.37	1.2		1	mg/L		05/21/04	EPA 300.0	EPA 300.0

BTEX

Prep Date: 05/27/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Benzene	< 0.41	0.41	1.4		1	ug/L		05/27/04	SW846 5030B	SW846 8260B
Ethylbenzene	< 0.54	0.54	1.8		1	ug/L		05/27/04	SW846 5030B	SW846 8260B
Toluene	< 0.67	0.67	2.2		1	ug/L		05/27/04	SW846 5030B	SW846 8260B
Xylene, o	< 0.83	0.83	2.8		1	ug/L		05/27/04	SW846 5030B	SW846 8260B
Xylenes, m + p	< 1.8	1.8	6.0		1	ug/L		05/27/04	SW846 5030B	SW846 8260B
4-Bromofluorobenzene	93				1	%Recov		05/27/04	SW846 5030B	SW846 8260B
Toluene-d8	91				1	%Recov		05/27/04	SW846 5030B	SW846 8260B
Dibromofluoromethane	79				1	%Recov		05/27/04	SW846 5030B	SW846 8260B

METHANE

Prep Date: 06/02/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Methane	< 10			10	1	ug/L		06/02/04	SW846 M8015	SW846 M8015

PAH/ PNA

Prep Date: 05/21/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	0.048	0.017	0.057		1	ug/L	Q	05/21/04	SW846 3510C	8270C-SIM
2-Methylnaphthalene	0.020	0.016	0.053		1	ug/L	Q	05/21/04	SW846 3510C	8270C-SIM
Acenaphthene	< 0.017	0.017	0.057		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Acenaphthylene	< 0.018	0.018	0.060		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Anthracene	< 0.019	0.019	0.063		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Benzo(a)anthracene	< 0.011	0.011	0.038		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Benzo(a)pyrene	< 0.013	0.013	0.044		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene	< 0.012	0.012	0.041		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Benzo(ghi)perylene	< 0.015	0.015	0.050		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene	< 0.018	0.018	0.060		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Chrysene	< 0.013	0.013	0.044		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Dibenz(a,h)anthracene	< 0.015	0.015	0.050		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Fluoranthene	< 0.012	0.012	0.041		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Fluorene	< 0.016	0.016	0.053		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene	< 0.020	0.020	0.066		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Naphthalene	0.29	0.023	0.075		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Phenanthrene	< 0.015	0.015	0.050		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Pyrene	< 0.016	0.016	0.053		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Nitrobenzene-d5	73				1	%Recov		05/21/04	SW846 3510C	8270C-SIM
2-Fluorobiphenyl	85				1	%Recov		05/21/04	SW846 3510C	8270C-SIM
Terphenyl-d14	124				1	%Recov		05/21/04	SW846 3510C	8270C-SIM

En Chem Inc.

1241 Bellevue Street
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Analytical Report Number: 846808

Client : NATURAL RESOURCE TECHNOLOGY, INC.
Project Name : WPSC - CAMP MARINA
Project Number : 1313
Field ID : MW-709R

Matrix Type : WATER
Collection Date : 05/20/04
Report Date : 06/03/04
Lab Sample Number : 846808-008

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Cyanide, Total - Dissolved	0.046	0.0016	0.0055		1	mg/L		06/02/04	EPA 335.4	EPA 335.4
Nitrogen, NO3 + NO2	0.79	0.063	0.21		1	mg/L		05/26/04	EPA 353.2	EPA 353.2
Sulfate	130	1.8	6.2		5	mg/L		05/21/04	EPA 300.0	EPA 300.0

BTEX

Prep Date: 05/27/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Benzene	< 0.41	0.41	1.4		1	ug/L	M	05/27/04	SW846 5030B	SW846 8260B
Ethylbenzene	< 0.54	0.54	1.8		1	ug/L	M	05/27/04	SW846 5030B	SW846 8260B
Toluene	< 0.67	0.67	2.2		1	ug/L	M	05/27/04	SW846 5030B	SW846 8260B
Xylene, o	< 0.83	0.83	2.8		1	ug/L	M	05/27/04	SW846 5030B	SW846 8260B
Xylenes, m + p	< 1.8	1.8	6.0		1	ug/L	M	05/27/04	SW846 5030B	SW846 8260B
4-Bromofluorobenzene	92				1	%Recov		05/27/04	SW846 5030B	SW846 8260B
Toluene-d8	90				1	%Recov		05/27/04	SW846 5030B	SW846 8260B
Dibromofluoromethane	80				1	%Recov		05/27/04	SW846 5030B	SW846 8260B

METHANE

Prep Date: 06/02/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Methane	< 10			10	1	ug/L		06/02/04	SW846 M8015	SW846 M8015

PAH/ PNA

Prep Date: 05/21/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	0.057	0.017	0.057		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
2-Methylnaphthalene	0.023	0.016	0.053		1	ug/L	Q	05/21/04	SW846 3510C	8270C-SIM
Acenaphthene	< 0.017	0.017	0.057		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Acenaphthylene	< 0.018	0.018	0.060		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Anthracene	< 0.019	0.019	0.063		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Benzo(a)anthracene	< 0.011	0.011	0.038		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Benzo(a)pyrene	< 0.013	0.013	0.044		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene	< 0.012	0.012	0.041		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Benzo(ghi)perylene	< 0.015	0.015	0.050		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene	< 0.018	0.018	0.060		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Chrysene	< 0.013	0.013	0.044		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Dibenz(a,h)anthracene	< 0.015	0.015	0.050		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Fluoranthene	< 0.012	0.012	0.041		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Fluorene	< 0.016	0.016	0.053		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene	< 0.020	0.020	0.066		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Naphthalene	0.38	0.023	0.075		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Phenanthrene	< 0.015	0.015	0.050		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Pyrene	< 0.016	0.016	0.053		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Nitrobenzene-d5	87				1	%Recov		05/21/04	SW846 3510C	8270C-SIM
2-Fluorobiphenyl	98				1	%Recov		05/21/04	SW846 3510C	8270C-SIM
Terphenyl-d14	132				1	%Recov		05/21/04	SW846 3510C	8270C-SIM

En Chem Inc.

1241 Bellevue Street
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920-469-2436

Analytical Report Number: 846808

Client : NATURAL RESOURCE TECHNOLOGY, INC.
Project Name : WPSC - CAMP MARINA
Project Number : 1313
Field ID : PZ-703

Matrix Type : WATER
Collection Date : 05/20/04
Report Date : 06/03/04
Lab Sample Number : 846808-009

INORGANICS

Test		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Cyanide, Total - Dissolved		0.039	0.0016	0.0055		1	mg/L		06/02/04	EPA 335.4	EPA 335.4
Nitrogen, NO3 + NO2	<	0.063	0.063	0.21		1	mg/L		05/26/04	EPA 353.2	EPA 353.2
Sulfate		77	1.8	6.2		5	mg/L		05/21/04	EPA 300.0	EPA 300.0

BTEX

Prep Date: 05/27/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Benzene	1000	4.1	14		10	ug/L		05/27/04	SW846 5030B	SW846 8260B
Ethylbenzene	750	5.4	18		10	ug/L		05/27/04	SW846 5030B	SW846 8260B
Toluene	31	6.7	22		10	ug/L		05/27/04	SW846 5030B	SW846 8260B
Xylene, o	220	8.3	28		10	ug/L		05/27/04	SW846 5030B	SW846 8260B
Xylenes, m + p	170	18	60		10	ug/L		05/27/04	SW846 5030B	SW846 8260B
4-Bromofluorobenzene	92				1	%Recov		05/27/04	SW846 5030B	SW846 8260B
Toluene-d8	89				1	%Recov		05/27/04	SW846 5030B	SW846 8260B
Dibromofluoromethane	77				1	%Recov		05/27/04	SW846 5030B	SW846 8260B

METHANE

Prep Date: 06/02/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Methane	120			10	1	ug/L		06/02/04	SW846 M8015	SW846 M8015

PAH/ PNA

Prep Date: 05/21/04

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene		38	1.7	5.7		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
2-Methylnaphthalene		40	1.6	5.3		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
Acenaphthene		15	1.7	5.7		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
Acenaphthylene	<	1.8	1.8	6.0		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
Anthracene	<	1.9	1.9	6.3		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
Benzo(a)anthracene	<	1.1	1.1	3.8		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
Benzo(a)pyrene	<	1.3	1.3	4.4		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene	<	1.2	1.2	4.1		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
Benzo(ghi)perylene	<	1.5	1.5	5.0		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene	<	1.8	1.8	6.0		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
Chrysene	<	1.3	1.3	4.4		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
Dibenz(a,h)anthracene	<	1.5	1.5	5.0		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
Fluoranthene	<	1.2	1.2	4.1		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
Fluorene	<	1.6	1.6	5.3		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene	<	2.0	2.0	6.6		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
Naphthalene		1900	110	380		5000	ug/L	D	05/25/04	SW846 3510C	8270C-SIM
Phenanthrene	<	1.5	1.5	5.0		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
Pyrene	<	1.6	1.6	5.3		100	ug/L		05/22/04	SW846 3510C	8270C-SIM
Nitrobenzene-d5		NA				1	%Recov	D	05/22/04	SW846 3510C	8270C-SIM
2-Fluorobiphenyl		NA				1	%Recov	D	05/22/04	SW846 3510C	8270C-SIM
Terphenyl-d14		NA				1	%Recov	D	05/22/04	SW846 3510C	8270C-SIM

En Chem Inc.

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

Analytical Report Number: 846808

Client : NATURAL RESOURCE TECHNOLOGY, INC.
Project Name : WPSC - CAMP MARINA
Project Number : 1313
Field ID : PZ-702

Matrix Type : WATER
Collection Date : 05/20/04
Report Date : 06/03/04
Lab Sample Number : 846808-010

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Cyanide, Total - Dissolved	< 0.0016	0.0016	0.0055		1	mg/L		06/02/04	EPA 335.4	EPA 335.4
Nitrogen, NO3 + NO2	0.20	0.063	0.21		1	mg/L	Q	05/26/04	EPA 353.2	EPA 353.2
Sulfate	3.2	0.37	1.2		1	mg/L		05/21/04	EPA 300.0	EPA 300.0

BTEX

Prep Date: 05/27/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Benzene	< 0.41	0.41	1.4		1	ug/L		05/27/04	SW846 5030B	SW846 8260B
Ethylbenzene	< 0.54	0.54	1.8		1	ug/L		05/27/04	SW846 5030B	SW846 8260B
Toluene	< 0.67	0.67	2.2		1	ug/L		05/27/04	SW846 5030B	SW846 8260B
Xylene, o	< 0.83	0.83	2.8		1	ug/L		05/27/04	SW846 5030B	SW846 8260B
Xylenes, m + p	< 1.8	1.8	6.0		1	ug/L		05/27/04	SW846 5030B	SW846 8260B
4-Bromofluorobenzene	90				1	%Recov		05/27/04	SW846 5030B	SW846 8260B
Toluene-d8	91				1	%Recov		05/27/04	SW846 5030B	SW846 8260B
Dibromofluoromethane	82				1	%Recov		05/27/04	SW846 5030B	SW846 8260B

METHANE

Prep Date: 06/02/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Methane	16			10	1	ug/L		06/02/04	SW846 M8015	SW846 M8015

PAH/ PNA

Prep Date: 05/21/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	0.029	0.017	0.057		1	ug/L	Q	05/21/04	SW846 3510C	8270C-SIM
2-Methylnaphthalene	0.034	0.016	0.053		1	ug/L	Q	05/21/04	SW846 3510C	8270C-SIM
Acenaphthene	< 0.017	0.017	0.057		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Acenaphthylene	0.031	0.018	0.060		1	ug/L	Q	05/21/04	SW846 3510C	8270C-SIM
Anthracene	< 0.019	0.019	0.063		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Benzo(a)anthracene	< 0.011	0.011	0.038		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Benzo(a)pyrene	< 0.013	0.013	0.044		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene	< 0.012	0.012	0.041		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Benzo(ghi)perylene	< 0.015	0.015	0.050		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene	< 0.018	0.018	0.060		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Chrysene	0.015	0.013	0.044		1	ug/L	Q	05/21/04	SW846 3510C	8270C-SIM
Dibenz(a,h)anthracene	< 0.015	0.015	0.050		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Fluoranthene	0.017	0.012	0.041		1	ug/L	Q	05/21/04	SW846 3510C	8270C-SIM
Fluorene	< 0.016	0.016	0.053		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene	< 0.020	0.020	0.066		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Naphthalene	0.60	0.045	0.15		2	ug/L	D	05/24/04	SW846 3510C	8270C-SIM
Phenanthrene	0.028	0.015	0.050		1	ug/L	Q	05/21/04	SW846 3510C	8270C-SIM
Pyrene	0.027	0.016	0.053		1	ug/L	Q	05/21/04	SW846 3510C	8270C-SIM
Nitrobenzene-d5	109				1	%Recov		05/21/04	SW846 3510C	8270C-SIM
2-Fluorobiphenyl	115				1	%Recov		05/21/04	SW846 3510C	8270C-SIM
Terphenyl-d14	128				1	%Recov		05/21/04	SW846 3510C	8270C-SIM

En Chem Inc.

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

Analytical Report Number: 846808

Client : NATURAL RESOURCE TECHNOLOGY, INC.
Project Name : WPSC - CAMP MARINA
Project Number : 1313
Field ID : PZ-701

Matrix Type : WATER
Collection Date : 05/20/04
Report Date : 06/03/04
Lab Sample Number : 846808-011

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Cyanide, Total - Dissolved	0.10	0.0016	0.0055		1	mg/L		06/02/04	EPA 335.4	EPA 335.4
Nitrogen, NO3 + NO2	0.14	0.063	0.21		1	mg/L	Q	05/26/04	EPA 353.2	EPA 353.2
Sulfate	51	0.37	1.2		1	mg/L		05/21/04	EPA 300.0	EPA 300.0

BTEX

Prep Date: 05/27/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Benzene	< 0.41	0.41	1.4		1	ug/L		05/27/04	SW846 5030B	SW846 8260B
Ethylbenzene	< 0.54	0.54	1.8		1	ug/L		05/27/04	SW846 5030B	SW846 8260B
Toluene	< 0.67	0.67	2.2		1	ug/L		05/27/04	SW846 5030B	SW846 8260B
Xylene, o	< 0.83	0.83	2.8		1	ug/L		05/27/04	SW846 5030B	SW846 8260B
Xylenes, m + p	< 1.8	1.8	6.0		1	ug/L		05/27/04	SW846 5030B	SW846 8260B
4-Bromofluorobenzene	90				1	%Recov		05/27/04	SW846 5030B	SW846 8260B
Toluene-d8	91				1	%Recov		05/27/04	SW846 5030B	SW846 8260B
Dibromofluoromethane	77				1	%Recov		05/27/04	SW846 5030B	SW846 8260B

METHANE

Prep Date: 06/02/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Methane	57			10	1	ug/L		06/02/04	SW846 M8015	SW846 M8015

En Chem Inc.

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

Analytical Report Number: 846808

Client : NATURAL RESOURCE TECHNOLOGY, INC.
Project Name : WPSC - CAMP MARINA
Project Number : 1313
Field ID : FIELD DUPLICATE

Matrix Type : WATER
Collection Date : 05/20/04
Report Date : 06/03/04
Lab Sample Number : 846808-012

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Cyanide, Total - Dissolved	0.041	0.0016	0.0055		1	mg/L		06/02/04	EPA 335.4	EPA 335.4
Nitrogen, NO3 + NO2	0.80	0.063	0.21		1	mg/L		05/26/04	EPA 353.2	EPA 353.2
Sulfate	130	1.8	6.2		5	mg/L		05/21/04	EPA 300.0	EPA 300.0

BTEX

Prep Date: 05/27/04

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Benzene	<	0.41	0.41	1.4		1	ug/L		05/27/04	SW846 5030B	SW846 8260B
Ethylbenzene	<	0.54	0.54	1.8		1	ug/L		05/27/04	SW846 5030B	SW846 8260B
Toluene	<	0.67	0.67	2.2		1	ug/L		05/27/04	SW846 5030B	SW846 8260B
Xylene, o	<	0.83	0.83	2.8		1	ug/L		05/27/04	SW846 5030B	SW846 8260B
Xylenes, m + p	<	1.8	1.8	6.0		1	ug/L		05/27/04	SW846 5030B	SW846 8260B
4-Bromofluorobenzene		92				1	%Recov		05/27/04	SW846 5030B	SW846 8260B
Toluene-d8		90				1	%Recov		05/27/04	SW846 5030B	SW846 8260B
Dibromofluoromethane		79				1	%Recov		05/27/04	SW846 5030B	SW846 8260B

METHANE

Prep Date: 06/02/04

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Methane	<	10			10	1	ug/L		06/02/04	SW846 M8015	SW846 M8015

PAH/ PNA

Prep Date: 05/21/04

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene		0.031	0.017	0.057		1	ug/L	Q	05/21/04	SW846 3510C	8270C-SIM
2-Methylnaphthalene		0.044	0.016	0.053		1	ug/L	Q	05/21/04	SW846 3510C	8270C-SIM
Acenaphthene	<	0.017	0.017	0.057		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Acenaphthylene	<	0.018	0.018	0.060		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Anthracene	<	0.019	0.019	0.063		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Benzo(a)anthracene	<	0.011	0.011	0.038		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Benzo(a)pyrene	<	0.013	0.013	0.044		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene	<	0.012	0.012	0.041		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Benzo(ghi)perylene	<	0.015	0.015	0.050		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene	<	0.018	0.018	0.060		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Chrysene	<	0.013	0.013	0.044		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Dibenz(a,h)anthracene	<	0.015	0.015	0.050		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Fluoranthene	<	0.012	0.012	0.041		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Fluorene	<	0.016	0.016	0.053		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene	<	0.020	0.020	0.066		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Naphthalene		0.15	0.023	0.075		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Phenanthrene	<	0.015	0.015	0.050		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Pyrene	<	0.016	0.016	0.053		1	ug/L		05/21/04	SW846 3510C	8270C-SIM
Nitrobenzene-d5		80				1	%Recov		05/21/04	SW846 3510C	8270C-SIM
2-Fluorobiphenyl		84				1	%Recov		05/21/04	SW846 3510C	8270C-SIM
Terphenyl-d14		137				1	%Recov		05/21/04	SW846 3510C	8270C-SIM

En Chem Inc.

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

Analytical Report Number: 846808

Client : NATURAL RESOURCE TECHNOLOGY, INC.
Project Name : WPSC - CAMP MARINA
Project Number : 1313
Field ID : TRIP BLANK

Matrix Type : WATER
Collection Date : 05/20/04
Report Date : 06/03/04
Lab Sample Number : 846808-013

BTEX

Prep Date: 05/27/04

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Benzene	<	0.41	0.41	1.4		1	ug/L		05/27/04	SW846 5030B	SW846 8260B
Ethylbenzene	<	0.54	0.54	1.8		1	ug/L		05/27/04	SW846 5030B	SW846 8260B
Toluene	<	0.67	0.67	2.2		1	ug/L		05/27/04	SW846 5030B	SW846 8260B
Xylene, o	<	0.83	0.83	2.8		1	ug/L		05/27/04	SW846 5030B	SW846 8260B
Xylenes, m + p	<	1.8	1.8	6.0		1	ug/L		05/27/04	SW846 5030B	SW846 8260B
4-Bromofluorobenzene		90				1	%Recov		05/27/04	SW846 5030B	SW846 8260B
Toluene-d8		89				1	%Recov		05/27/04	SW846 5030B	SW846 8260B
Dibromofluoromethane		81				1	%Recov		05/27/04	SW846 5030B	SW846 8260B

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 Inc.

Analysis Summary by Laboratory

1241 Bellevue Street
Green Bay, WI 54302

1090 Kennedy Avenue
Kimberly, WI 54136

Test Group Name	846808-001	846808-002	846808-003	846808-004	846808-005	846808-006	846808-007	846808-008	846808-009	846808-010	846808-011	846808-012	846808-013
BTEX	G	G	G	G	G	G	G	G	G	G	G	G	G
CYANIDE, TOTAL - DISSOLVED	G	G	G	G	G		G	G	G	G	G	G	
METHANE	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	
PAH/ PNA	G	G	G	G	G	G	G	G	G	G		G	
SULFATE	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	

En Chem, Inc. Cooler Receipt Log

Batch No. 846808

Project Name or ID Sheboygen - Camp Marina No. of Coolers: 1 Temps: ROI

A. Receipt Phase: Date cooler was opened: 5/20/04 **By:** CK

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	
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: 5/20/04 **By:** CK

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. KP	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 MT 5/21/04

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

(Please Print Legibly)
Company Name: Wis. Public Service
Branch or Location: Green Bay
Project Contact: Mike Mason
Telephone: 433-1397
Project Number: 1313
Project Name: Shoto gan - Camp Marina
Project State: WI.
Sampled By (Print): Sarah Cauwin & Mike Mason
PO #:

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

EN CHEM INC.

...chemistry for the environment.

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

CHAIN OF CUSTODY

No. 120130

Quote #:
Mail Report To: Heather Simon
Company: Natural Resource Tech.
Address: 23713 W. Paul Road
Pewaukee, WI. 53072
Invoice To: Accounts Payable
Company: Wis. Public Service
Address: P.O. Box 19002
Green Bay, WI. 54307-9002
Mail Invoice To:

*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

	ANALYSES REQUESTED: BETX	Methane	PAH	Sulfate	NO2+NO3 Nitrogen	Cyanide (Use M335.4)	TOTAL # OF BOTTLES SENT	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)
FILTERED? (YES/NO)	N	N	N	N	N	Y			
PRESERVATION (CODE)*	B	B	A	A	C	G			
001 BW-6 5/20/04 13:45 GW	X	X	X	X	X	X	10	6-40ml vials / 3-250ml (A,C,G) / 1-1 Amber	
002 BW-15 14:00							10		
003 MW-701R 12:00							10		
004 MW-705 13:05							10		
005 MW-706 12:50							10		
006 MW-707R 11:30							10	2-250ml (A,C)	
007 MW-708 12:35							10	3-250ml (A,C,G)	
008 MW-709R 11:15							10		
009 PZ-703 11:40							10		
010 PZ-702 12:40							10		
011 PZ-701 12:10							10		
012 Field Duplicate —							10		

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:
Mike Mason	5/20/04 15:25		5/20/04 1525

En Chem Project No. 841808
Sample Receipt Temp. 2.02
Sample Receipt pH (Wet/Metals) n/a
Cooler Custody Seal Present / Not Present
Intact / Not Intact

Version 4.0: 07/03

(Please Print Legibly)

Company Name: _____

Branch or Location: _____

Project Contact: _____

Telephone: _____

Project Number: _____

Project Name: _____

Project State: _____

Sampled By (Print) : _____

PO #: _____

EN CHEM INC.
...chemistry for the environment

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

CHAIN OF CUSTODY

No. 120131

Quote #: _____

Mail Report To: _____

Company: _____

Address: _____

Invoice To: _____

Company: _____

Address: _____

Mail Invoice To: _____

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

*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

FILTERED? (YES/NO)

PRESERVATION (CODE)*

ANALYSES REQUESTED

TOTAL # OF BOTTLES SENT

LABORATORY ID (Lab Use Only)	FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)
013	Trip Blank 5/20/14			W	2	2-40mL's H2O T.B.

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:
Mike Moon 5/20/14	15:25	[signature] 5/20/14	1525

En Chem Project No. 846808

Sample Receipt Temp. 20.1

Sample Receipt pH (Wet/Metals) n/a

Cooler Custody Seal
Present / Not Present

Intact / Not Intact

Version 4.0: 07/03

ENCHEM INC.

Corporate Office & Laboratory
1241 Bellevue Street, Suite 9, Green Bay, WI 54302
920-469-2436, Fax: 920-469-8827
www.enchem.com

Analytical Report Number: 846911

Client: NATURAL RESOURCE TECHNOLOGY, INC.
Lab Contact: Tom Trainor
Project Name: WPSC - CAMP MARINA
Project Number: 1313

Lab Sample Number	Field ID	Matrix	Collection Date
846911-001	PZ-701	GW	05/24/04

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

6/4/04
Date

En Chem Inc.

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

Analytical Report Number: 846911

Client : NATURAL RESOURCE TECHNOLOGY, INC.
Project Name : WPSC - CAMP MARINA
Project Number : 1313
Field ID : PZ-701

Matrix Type : GROUNDWATER
Collection Date : 05/24/04
Report Date : 05/27/04
Lab Sample Number : 846911-001

PAH/ PNA

Prep Date: 05/26/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	0.050	0.017	0.057		1	ug/L	Q	05/26/04	SW846 3510C	8270C-SIM
2-Methylnaphthalene	0.017	0.016	0.053		1	ug/L	Q	05/26/04	SW846 3510C	8270C-SIM
Acenaphthene	0.055	0.017	0.057		1	ug/L	Q	05/26/04	SW846 3510C	8270C-SIM
Acenaphthylene	< 0.018	0.018	0.060		1	ug/L		05/26/04	SW846 3510C	8270C-SIM
Anthracene	0.022	0.019	0.063		1	ug/L	Q	05/26/04	SW846 3510C	8270C-SIM
Benzo(a)anthracene	< 0.011	0.011	0.038		1	ug/L		05/26/04	SW846 3510C	8270C-SIM
Benzo(a)pyrene	< 0.013	0.013	0.044		1	ug/L		05/26/04	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene	< 0.012	0.012	0.041		1	ug/L		05/26/04	SW846 3510C	8270C-SIM
Benzo(ghi)perylene	< 0.015	0.015	0.050		1	ug/L		05/26/04	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene	< 0.018	0.018	0.060		1	ug/L		05/26/04	SW846 3510C	8270C-SIM
Chrysene	< 0.013	0.013	0.044		1	ug/L		05/26/04	SW846 3510C	8270C-SIM
Dibenz(a,h)anthracene	< 0.015	0.015	0.050		1	ug/L		05/26/04	SW846 3510C	8270C-SIM
Fluoranthene	0.014	0.012	0.041		1	ug/L	Q	05/26/04	SW846 3510C	8270C-SIM
Fluorene	0.018	0.016	0.053		1	ug/L	Q	05/26/04	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene	< 0.020	0.020	0.066		1	ug/L		05/26/04	SW846 3510C	8270C-SIM
Naphthalene	0.22	0.023	0.075		1	ug/L		05/26/04	SW846 3510C	8270C-SIM
Phenanthrene	0.029	0.015	0.050		1	ug/L	Q	05/26/04	SW846 3510C	8270C-SIM
Pyrene	0.017	0.016	0.053		1	ug/L	Q	05/26/04	SW846 3510C	8270C-SIM
Nitrobenzene-d5	83				1	%Recov		05/26/04	SW846 3510C	8270C-SIM
2-Fluorobiphenyl	81				1	%Recov		05/26/04	SW846 3510C	8270C-SIM
Terphenyl-d14	134				1	%Recov		05/26/04	SW846 3510C	8270C-SIM

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 Inc.

Analysis Summary by Laboratory

1241 Bellevue Street
Green Bay, WI 54302

1090 Kennedy Avenue
Kimberly, WI 54136

Test Group Name	846911-001
PAH/ PNA	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	

En Chem, Inc. Cooler Receipt Log

Batch No. 846911

Project Name or ID Camp Marina No. of Coolers: 1 Temps: ROT

A. Receipt Phase: Date cooler was opened: 5/25/04 **By:** RJ

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)	
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: 5-25-04 **By:** RJ

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. KB	(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 TOT 5/25/04

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

(Please Print Legibly)

Company Name: NRT

Branch or Location: Pewaukee WI

Project Contact: Sarah Gansullndt

Telephone: 262-522-1202

Project Number: 1313

Project Name: Camp Marina

Project State: WI

Sampled By (Print): S Gansullndt

EN CHEM INC.

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

CHAIN OF CUSTODY

Page 1 of 1

P.O. # _____ Quote # _____

Mail Report To: SF

Company: NRT

Address: 2371 W. Kiel Ct
Pewaukee WI

Invoice To: JD

Company: SAME

Address: _____

Mail Invoice To: _____

*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: PAH						TOTAL # OF BOTTLES SENT	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)
001	PZ-701	5/24/04	930	GW	W								1	1-1kamb	

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:
S Gansullndt	5/24/04 1130		
			5/24/04 1100
Relinquished By:	Date/Time:	Received By:	Date/Time:
	5/24/04		
Relinquished By:	Date/Time:	Received By:	Date/Time:
Dunham		R Nicols	5/25/04 8:15
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

En Chem Project No.: 3426/1

Sample Receipt Temp: 1.2°C

Sample Receipt pH (Wet/Metals):

Cooler Custody Seal: Present / Not Present

Intact / Not Intact

Version 2.0: 1/02

EN CHEM INC.

Corporate Office & Laboratory
1241 Bellevue Street, Suite 9, Green Bay, WI 54302
920-469-2436, Fax: 920-469-8827
www.enchem.com

Analytical Report Number: 850224

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

Project Name: CAMP MARINA

Project Number: 1313

Lab Sample Number	Field ID	Matrix	Collection Date
850224-001	PZ-703	WATER	08/24/04
850224-002	TRIP BLANK	WATER	08/24/04

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

9/8/04

Date

En Chem Inc.

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

Analytical Report Number: 850224

Client : NATURAL RESOURCE TECHNOLOGY, INC.
Project Name : CAMP MARINA
Project Number : 1313
Field ID : PZ-703

Matrix Type : WATER
Collection Date : 08/24/04
Report Date : 09/07/04
Lab Sample Number : 850224-001

INORGANICS

Test		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Cyanide, Weak & Dissociable	<	0.011	0.011	0.035		1	mg/L	CN	09/03/04	SM 4500-CN	SM 4500-CN

BTEX

Prep Date: 08/30/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Benzene	3700	8.2	27		20	ug/L		08/30/04	SW846 5030B	SW846 8260B
Ethylbenzene	2800	11	36		20	ug/L		08/30/04	SW846 5030B	SW846 8260B
Toluene	110	13	45		20	ug/L		08/30/04	SW846 5030B	SW846 8260B
Xylene, o	640	17	55		20	ug/L		08/30/04	SW846 5030B	SW846 8260B
Xylenes, m + p	540	36	120		20	ug/L		08/30/04	SW846 5030B	SW846 8260B
4-Bromofluorobenzene	109				20	%Recov		08/30/04	SW846 5030B	SW846 8260B
Toluene-d8	112				20	%Recov		08/30/04	SW846 5030B	SW846 8260B
Dibromofluoromethane	110				20	%Recov		08/30/04	SW846 5030B	SW846 8260B

PAH/ PNA

Prep Date: 08/25/04

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene		45	8.0	27		400	ug/L		08/27/04	SW846 3510C	8270C-SIM
2-Methylnaphthalene		42	9.1	30		400	ug/L		08/27/04	SW846 3510C	8270C-SIM
Acenaphthene		21	7.8	26		400	ug/L	Q	08/27/04	SW846 3510C	8270C-SIM
Acenaphthylene	<	7.7	7.7	26		400	ug/L		08/27/04	SW846 3510C	8270C-SIM
Anthracene	<	7.1	7.1	24		400	ug/L		08/27/04	SW846 3510C	8270C-SIM
Benzo(a)anthracene	<	7.8	7.8	26		400	ug/L		08/27/04	SW846 3510C	8270C-SIM
Benzo(a)pyrene	<	7.2	7.2	24		400	ug/L		08/27/04	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene	<	7.2	7.2	24		400	ug/L		08/27/04	SW846 3510C	8270C-SIM
Benzo(ghi)perylene	<	8.3	8.3	28		400	ug/L		08/27/04	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene	<	7.7	7.7	26		400	ug/L		08/27/04	SW846 3510C	8270C-SIM
Chrysene	<	6.6	6.6	22		400	ug/L		08/27/04	SW846 3510C	8270C-SIM
Dibenz(a,h)anthracene	<	8.8	8.8	29		400	ug/L		08/27/04	SW846 3510C	8270C-SIM
Fluoranthene	<	6.6	6.6	22		400	ug/L		08/27/04	SW846 3510C	8270C-SIM
Fluorene	<	8.7	8.7	29		400	ug/L		08/27/04	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene	<	6.8	6.8	23		400	ug/L		08/27/04	SW846 3510C	8270C-SIM
Naphthalene		1600	180	600		8000	ug/L	D	08/28/04	SW846 3510C	8270C-SIM
Phenanthrene	<	8.2	8.2	27		400	ug/L		08/27/04	SW846 3510C	8270C-SIM
Pyrene	<	6.5	6.5	22		400	ug/L		08/27/04	SW846 3510C	8270C-SIM
Nitrobenzene-d5		0				400	%Recov	D	08/27/04	SW846 3510C	8270C-SIM
2-Fluorobiphenyl		0				400	%Recov	D	08/27/04	SW846 3510C	8270C-SIM
Terphenyl-d14		0				400	%Recov	D	08/27/04	SW846 3510C	8270C-SIM

En Chem Inc.

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

Analytical Report Number: 850224

Client : NATURAL RESOURCE TECHNOLOGY, INC.
Project Name : CAMP MARINA
Project Number : 1313
Field ID : TRIP BLANK

Matrix Type : WATER
Collection Date : 08/24/04
Report Date : 09/07/04
Lab Sample Number : 850224-002

BTEX

Prep Date: 08/30/04

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Benzene	<	0.41	0.41	1.4		1	ug/L		08/30/04	SW846 5030B	SW846 8260B
Ethylbenzene	<	0.54	0.54	1.8		1	ug/L		08/30/04	SW846 5030B	SW846 8260B
Toluene	<	0.67	0.67	2.2		1	ug/L		08/30/04	SW846 5030B	SW846 8260B
Xylene, o	<	0.83	0.83	2.8		1	ug/L		08/30/04	SW846 5030B	SW846 8260B
Xylenes, m + p	<	1.8	1.8	6.0		1	ug/L		08/30/04	SW846 5030B	SW846 8260B
4-Bromofluorobenzene		106				1	%Recov		08/30/04	SW846 5030B	SW846 8260B
Toluene-d8		116				1	%Recov		08/30/04	SW846 5030B	SW846 8260B
Dibromofluoromethane		107				1	%Recov		08/30/04	SW846 5030B	SW846 8260B

En Chem Inc.

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

Lab Number	TestGroupID	Field ID	Comment
850224-001	W-CNWD-W	PZ-703	C - Elevated detection limit due to matrix effect. Samples was diluted 1:2.

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 Inc.

Analysis Summary by Laboratory

1241 Bellevue Street
Green Bay, WI 54302

1090 Kennedy Avenue
Kimberly, WI 54136

Test Group Name	850224-001	850224-002
BTEX	G	G
CYANIDE, WEAK & DISSOCIABLE	G	
PAH/ PNA	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	

En Chem, Inc. Cooler Receipt Log

Batch No. 850224

Project Name or ID Camp Marina No. of Coolers: 1 Temps: R01

A. Receipt Phase: Date cooler was opened: 8-24-04 **By:** SFalk

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)	
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: 8-24-04 **By:** SFalk

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.	(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 TMT 8/29/04

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

(Please Print Legibly)
Company Name: Wis. Public Service
Branch of Location: Green Bay
Project Contact: Mike Mason
Telephone: 433-1397
Project Number: 1313
Project Name: Camp Marina
Project State: WI
Sampled By (Print): Mike Mason
PO #:

EN CHEM INC.
...chemistry for the environment.
1241 Bellevue St., Suite 9
Green Bay, WI 54302
920-469-2436
Fax 920-469-8827

CHAIN OF CUSTODY

118345

Quote #:
Mail Report To: Heather Simm
Company: Natural Resource Tech.
Address: 23713 W. Paul Rd
Pewaukee, WI 53072
Invoice To: Account Payable
Company: Wis. Public Service
Address: P.O. Box 19002
Green Bay, WI 54307-9002
Mail Invoice To:

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

*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

LABORATORY ID (Lab Use Only)	FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO)	PRESERVATION (CODE)*	ANALYSES REQUESTED: BTEX (SW8260), PAH (SW8270), Meek Acid D. Soluble, Cyanide (SM4500)	TOTAL # OF BOTTLES SENT	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)
001	PZ-703	8/24/04	10:30	W	N	B	L	3	3-40mlB, 1-1Lamber A, 1-250ml poly G	
*002	trip blank			W	N	A	L	2	2-40mlB	
									*rec'd in lab 8-24-04 SF	

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:
Mike Mason	8/24/04 13:15	[illegible]	8/24/04 13:15

En Chem Project No.: 850224
Sample Receipt Temp.: 4.0°C
Sample Receipt pH (Wet/Metals): OK
Cooler Custody Seal: Present / Not Present
Intact / Not Intact

Version 4.0: 07/03

APPENDIX C

FIELD FORMS

FIELD NOTE SUMMARY

Project Number 1313 Task 4.0

Project Name WPSC Campmarina, Sheboygan WI

Date/Time Onsite/ Time Offsite: August 24, 2004, 8:30 to 9:30 AM

Work Scope: Containment System Condition Inspection

NRT Representatives: Roy E. Wittenberg

Weather: Partly Cloudy, low 80's (°F)

Equipment: None

Field Comments:

1. Monitoring Wells and Cleanouts: Surface covers for the monitoring wells, cleanouts and biosparge wells that were visible on the surface appeared to be intact.
2. Biosparge System and Building: Biosparge building exterior and interior appeared to be in good condition. The system was not operating at the time of the inspection pending adjustments to be made to the compressor by WPSC.
3. Cover Stability: The cover above the geosynthetic cap has remained stable and has not shown any problems due to erosion or instability. There were no indications of cracking, sloughing or erosion. Steep slopes within the Center Avenue Right-of-Way showed no indication of instability.
4. Riverbank Stability: Riprap and concreter river walk along the riverbank appeared to be in good condition. Toe stones for the riprap showed no indications of erosion or damage. Nor cracking was noted in the concrete walkway. Non-woven geotextile used for stabilization of filter gravel for the riprap was noticeably exposed at several locations along the top of the riverbank
5. Surface Water Drainage: No drainage was noted to the river from the exterior perimeter drainage system for the cover. No areas of ponding water were noted on the cover. Wood chips in the playground area were noticeably spongy and underlying wood chips a few inches below grade were noticeably moist. No free water was evident and this condition may be more related to the ability of the wood chips to retain moisture for extended periods of time then drainage related problems for the cover. No MGP related odors were identified within the wood chips.

6. Summary Conditions: Overall, the site apperared in good condition. No surface erosion is evident. Grass or pavement covers the entire site. Park structures are also in good condition with no indication of settling or cracking. A small portion of surface drainage geonetting was exposed in the south central portion of the grassy area for the park but this does not appear to be affecting overall surface water drainage for the cover. No settling of the cover or ponding of surface water was evident. Riprap appeared to be in good condition along the river.

SIGNATURE: _____ DATE: August 24, 2004

Roy E. Wittenberg

OPERATIONS LOG

Site Name: Campmarina / Worker's Water Steet Park
Project/Task Number: 1313/4.3
Site Location: 732 Water Street, Sheboygan, WI

Is System operating upon arrival? No upon departure No
If no, which alarm is signalled? _____

Operator: JEFF WUNSCH
Date of Site Visit: 12-2-03
Arrival Time: 12:30
Departure Time: 13:50

Signature: [signature]

BIOSPARGE COMPRESSOR

Compressor Temperature: 113 deg. F.
Compressor Outlet Pressure: Zone 1 3.0 psi; Zone 2 4.25 psi; Zone 3 6 psi
Compressor Bleed Pressure: Zone 1 0 psi; Zone 2 0 psi; Zone 3 2.5 psi
Air Bleed valve status: (~~Closed~~ / Partially open / ~~Full open~~) PARTIALLY OPEN
Air Outlet valve status: (~~Closed~~ / ~~Partially open~~ / Full open)

COMPRESSOR OVERVIEW

Cumulative Run Hours: Valve 1 218.9 hours; Valve 2 215.8 hours; Valve 3 210.9 hours; Compressor: 695.1 hours

GENERAL MAINTENANCE

Electric Meter reading: _____ Kw-hrs
Check Operation of Heaters/Fans: OK
Noticable Odors Outside Building: NONE

NOTES: REPLACED FILTER 7-21-03 BACK ON-LINE
ATTENTION - GLENN LUKE

HDPE SUMP

Water Level: 2 1/2 in. (Depth in Inches)
High Level Float Switch Setting: (Full Depth / Raised ____ ft)
Slice Gate Valve Setting: (~~Closed~~ / ~~Partially open~~ / Full open)
Noticable Odor: (~~Yes~~ / No)

BIOSPARGE WELLS

Operation Zone	Well #	Valve Status (O,P,C)	Pressure (psi) In Building
Zone 1	BW-03	OPEN	3.5
Zone 1	BW-06		4.0
Zone 1	BW-09		4.0
Zone 1	BW-12		4.5
Zone 1	BW-15		4.5
Zone 1	BW-18		4.5
Zone 2	BW-02		4.75
Zone 2	BW-05		5.0
Zone 2	BW-08		5.0
Zone 2	BW-11		5.0
Zone 2	BW-14		5.0
Zone 2	BW-17		5.0
[illegible]	[illegible]		6.5
[illegible]	[illegible]		6.25
[illegible]	[illegible]		6.5
[illegible]	[illegible]		6.5
[illegible]	[illegible]		6.5
[illegible]	[illegible]		6.5

OPERATIONS LOG

Site Name: Campmarina / Worker's Water Steet Park
Project/Task Number: 1313/4.3
Site Location: 732 Water Street, Sheboygan, WI

Operator: Jeff Wunsch
Date of Site Visit: 12/18/03
Arrival Time: 11:10
Departure Time: 11:45

Is System operating upon arrival? No upon departure ____
If no, which alarm is signalled? ~~—~~

BIOSPARGE COMPRESSOR

Compressor Temperature: 114 deg. F.

Compressor Outlet Pressure:	Zone 1	4.25 psi
	Zone 2	5.0 psi
	Zone 3	6.5 psi
Compressor Bleed Pressure:	Zone 1	4.25 psi
	Zone 2	5.0 psi
	Zone 3	6.0 psi

Air Bleed valve status: (~~Closed~~ / Partially open / ~~Full open~~)
Air Outlet valve status: (~~Closed~~ / ~~Partially open~~ / Full open)

COMPRESSOR OVERVIEW

Cumulative Run Hours:	Valve 1	241.4 hours
	Valve 2	238.3 hours
	Valve 3	232.6 hours
	Compressor:	712.3 hours

GENERAL MAINTENANCE

Electric Meter reading: 16751 Kw-hrs
Check Operation of Heaters/Fans: Yes
Noticable Odors Outside Building: No

NOTES: New outlet + Bleed Gauges
ATTENTION - SPIROS FAFALIOS

HDPE SUMP

Water Level: 21.25 in. (Depth in Inches)
High Level Float Switch Setting: (Full Depth / ~~Raised~~ ____ ft)
Slice Gate Valve Setting: (~~Closed~~ / ~~Partially open~~ / Full open)
Noticable Odor: (~~Yes~~ / No)

BIOSPARGE WELLS

Operation Zone	Well #	Valve Status (O,P,C)	~~Pressure (psi)~~ In Building
Zone 1	BW-03	O	3.5
Zone 1	BW-06		4.0
Zone 1	BW-09		4.0
Zone 1	BW-12		4.5
Zone 1	BW-15		4.5
Zone 1	BW-18		4.5
Zone 2	BW-02		5.0
Zone 2	BW-05		5.5
Zone 2	BW-08		5.5
Zone 2	BW-11		5.25
Zone 2	BW-14		5.5
Zone 2	BW-17		5.0
[redacted]			6.75
			6.5
			6.5
			6.75
			6.75
			6.75

OPERATIONS LOG

Site Name: Campmarina / Worker's Water Steet Park
Project/Task Number: 1313/4.3
Site Location: 732 Water Street, Sheboygan, WI

Is System operating upon arrival? ~~NO~~ YES upon departure YES
If no, which alarm is signalled? _____

Operator: Jeff Wunsch
Date of Site Visit: 1-5-2004
Arrival Time: 12:05
Departure Time: 12:40

BIOSPARGE COMPRESSOR

Compressor Temperature: 114 deg. F.
Compressor Outlet Pressure: Zone 1 5.0 psi; Zone 2 5.5 psi; Zone 3 7.0 psi
Compressor Bleed Pressure: Zone 1 5.0 psi; Zone 2 5.5 psi; Zone 3 7.0 psi

Air Bleed valve status: (~~Closed~~ / Partially open / ~~Full open~~)
Air Outlet valve status: (~~Closed~~ / ~~Partially open~~ / Full open)

COMPRESSOR OVERVIEW

Cumulative Run Hours: Valve 1 267.1 hours; Valve 2 263.7 hours; Valve 3 257.7 hours; Compressor: 788.5 hours

GENERAL MAINTENANCE

Electric Meter reading: 17546 Kw-hrs
Check Operation of Heaters/Fans: OK
Noticable Odors Outside Building: No

NOTES: _____
ATTENTION - SPIROS FAFALIOS

HDPE SUMP

Water Level: 21 in. (Depth in Inches)
High Level Float Switch Setting: (Full Depth / ~~Raised~~ ____ ft)
Slice Gate Valve Setting: (~~Closed~~ / ~~Partially open~~ / Full open)
Noticable Odor: (~~Yes~~ / No)

BIOSPARGE WELLS

Operation Zone	Well #	Valve Status (O,P,C)	Pressure (psi) In Building
Zone 1	BW-03	O	3.5
Zone 1	BW-06		4.0
Zone 1	BW-09		4.0
Zone 1	BW-12		4.75
Zone 1	BW-15		4.75
Zone 1	BW-18		4.75
Zone 2	BW-02		5.0
Zone 2	BW-05		5.25
Zone 2	BW-08		5.5
Zone 2	BW-11		5.0
Zone 2	BW-14		5.25
Zone 2	BW-17		5.0
[redacted]			6.5
			6.5
			6.5
			6.75
			6.5
			6.75

Zone 1 on 4hrs/day
" 2 " "
" 3 " "
System off 12hrs/day

01/05/2004 13:00 9209515777

OPERATIONS LOG

Site Name: Campmarina / Worker's Water Steet Park
Project/Task Number: 1313/4.3
Site Location: 732 Water Street, Sheboygan, WI

Operator: Jeff Wunsch
Date of Site Visit: 1-12-2004
Arrival Time: 11145
Departure Time: 12:00

Is System operating upon arrival? YES upon departure YES
If no, which alarm is signalled? _____

BIOSPARGE COMPRESSOR

Compressor Temperature: 110 deg. F.
Compressor Outlet Pressure: Zone 1 3.5 psi; Zone 2 5.0 psi; Zone 3 6.5 psi
Compressor Bleed Pressure: Zone 1 3.5 psi; Zone 2 5.0 psi; Zone 3 6.5 psi

Air Bleed valve status: (~~Closed~~ / Partially open / ~~Full open~~)
Air Outlet valve status: (~~Closed~~ / ~~Partially open~~ / Full open)

COMPRESSOR OVERVIEW

Cumulative Run Hours: Valve 1 277.2 hours; Valve 2 273.8 hours; Valve 3 267.5 hours; Compressor: 818.5 hours

GENERAL MAINTENANCE

Electric Meter reading: 17950 Kw-hrs
Check Operation of Heaters/Fans: OK
Noticable Odors Outside Building: NONE

NOTES: CLOSED VALVE FOR BW-9

ATTENTION - SPIROS FAFALIOS

HDPE SUMP

Water Level: 21 in. (Depth in Inches)
High Level Float Switch Setting: (Full Depth / ~~Raised~~ ____ ft)
Slice Gate Valve Setting: (~~Closed~~ / ~~Partially open~~ / Full open)
Noticable Odor: (~~Yes~~ / No)

BIOSPARGE WELLS

Operation Zone	Well #	Valve Status (O,P,C)	Pressure (psi) In Building
Zone 1	BW-03	O	3.0
Zone 1	BW-06	O	3.5
Zone 1	BW-09	CLOSED	~~0~~
Zone 1	BW-12	O	4.0
Zone 1	BW-15		4.25
Zone 1	BW-18		4.0
Zone 2	BW-02		5.0
Zone 2	BW-05		5.25
Zone 2	BW-08		5.5
Zone 2	BW-11		5.0
Zone 2	BW-14		5.25
Zone 2	BW-17		5.0
[redacted]			6.5
			6.5
			6.5
			6.5
			6.5
			6.5

OPERATIONS LOG

Site Name: Campma
Project/Task Number:
Site Location: 732 W

Is System operating u
If no, which alarm is s

BIOSPARG
Compressor Tempera
Compressor Outlet Pr

Compressor Bleed Pr

Air Bleed valve status
Air Outlet valve status

COMPRES
Cumulative Run Hour

GENERAL I
Electric Meter reading
Check Operation of H
Noticable Odors Outs

NOTES: Biosparge
ATTENTIOI

'ker) Water Steet Park
3
t, Sheboygan, WI

ıl? _ upon departure_____

RESSOR

110 deg. F.
Zone 1 4.0 psi
Zone 2 4.5 psi
Zone 3 6.25 psi
Zone 1 4.0 psi
Zone 2 4.5 psi
Zone 3 6.25 psi

· / Partially open / ~~Full open~~)
~~/ Partially open~~ / Full open)

RVIEW
Valve 1 317.7 hours
Valve 2 313.6 hours
Valve 3 307.5 hours
Compressor: 938.9 hours

ANCE
19612 Kw-hrs
ns: GOOD
ıg: NONE

SSOR IS OFF - A week prior to water level collection.
~~STAFALIOS~~
THER SIMONS

Operator: JEFF WUNSCH
Date of Site Visit: 2-9-04
Arrival Time: 12:45
Departure Time: 13:25

HDPE SUMP
Water Level: 20 3/4 in. (Depth in Inches)
High Level Float Switch Setting: (Full Depth / ~~Raised~~ ____ ft)
Slice Gate Valve Setting: (~~Closed~~ / ~~Partially open~~ / Full open)
Noticable Odor: (~~Yes~~ / No)

BIOSPARGE WELLS

Operation Zone	Well #	Valve Status (O,P,C)	Pressure (psi) In Building
Zone 1	BW-03	OPEN	3.0
Zone 1	BW-06		3.5
Zone 1	BW-09	CLOSED	
Zone 1	BW-12	OPEN	4.0
Zone 1	BW-15		4.0
Zone 1	BW-18		4.0
Zone 2	BW-02		4.25
Zone 2	BW-05		4.5
Zone 2	BW-08		4.5
Zone 2	BW-11		4.5
Zone 2	BW-14		4.5
Zone 2	BW-17		4.5
[redacted]			6.25
			6.0
			6.0
			6.5
			6.25
			6.25

OPERATIONS LOG

Site Name: Campmarina / Worker's Water Steet Park
Project/Task Number: 1313/4.3
Site Location: 732 Water Street, Sheboygan, WI

Operator: JEFF WUHSCH
Date of Site Visit: 3-2-04
Arrival Time: 09:15
Departure Time: 10:00

Is System operating upon arrival? NO upon departure YES
If no, which alarm is signalled? HIGH SUMP ALARM

BIOSPARGE COMPRESSOR

Compressor Temperature: 114 deg. F.
Compressor Outlet Pressure: Zone 1 4.5 psi; Zone 2 5.0 psi; Zone 3 6.0 psi
Compressor Bleed Pressure: Zone 1 4.5 psi; Zone 2 5.0 psi; Zone 3 6.0 psi

Air Bleed valve status: (~~Closed~~ / Partially open / ~~Full open~~)
Air Outlet valve status: (~~Closed~~ / ~~Partially open~~ / Full open)

COMPRESSOR OVERVIEW

Cumulative Run Hours: Valve 1 336.2 hours; Valve 2 331.9 hours; Valve 3 325.4 hours; Compressor: 993.6 hours

GENERAL MAINTENANCE

Electric Meter reading: 20618 Kw-hrs
Check Operation of Heaters/Fans: GOOD
Noticable Odors Outside Building: NO

NOTES: RAISED SUMP FLOAT 6 INCHES
ATTENTION - HEATHER SIMON

HDPE SUMP

Water Level: 29 1/4 in. (Depth in Inches)
High Level Float Switch Setting: (~~Full Depth~~ / Raised 1/2 ft)
Slice Gate Valve Setting: (~~Closed~~ / ~~Partially open~~ / Full open)
Noticable Odor: (~~Yes~~ / No)

BIOSPARGE WELLS

Operation Zone	Well #	Valve Status (O,P,C)	Pressure (psi) In Building
Zone 1	BW-03	OPEN	3.5
Zone 1	BW-06		4.0
Zone 1	BW-09	CLOSED	—
Zone 1	BW-12		4.5
Zone 1	BW-15		4.75
Zone 1	BW-18		4.5
Zone 2	BW-02		4.5
Zone 2	BW-05		5.0
Zone 2	BW-08		5.0
Zone 2	BW-11		4.75
Zone 2	BW-14		5.0
Zone 2	BW-17		4.5
Zone 3	BW-01		6.5
Zone 3	BW-04		6.0
Zone 3	BW-07		6.25
Zone 3	BW-10		6.5
Zone 3	BW-13		6.25
Zone 3	BW-16		6.5

OPERATIONS LOG

Site Name: Campmarina / Worker's Water Steet Park
Project/Task Number: 1313/4.3
Site Location: 732 Water Street, Sheboygan, WI

Operator: JEFF WUNSCH
Date of Site Visit: 3-26-04
Arrival Time: 13:45
Departure Time: 14:10

Is System operating upon arrival? YES upon departure YES
If no, which alarm is signalled? _____

BIOSPARGE COMPRESSOR

Compressor Temperature: 118 deg. F.
Compressor Outlet Pressure: Zone 1 4.0 psi; Zone 2 5.0 psi; Zone 3 6.0 psi
Compressor Bleed Pressure: Zone 1 4.0 psi; Zone 2 5.0 psi; Zone 3 6.0 psi

Air Bleed valve status: (~~Closed~~ / Partially open / ~~Full open~~)
Air Outlet valve status: (~~Closed~~ / ~~Partially open~~ / Full open)

COMPRESSOR OVERVIEW

Cumulative Run Hours: Valve 1 365 hours; Valve 2 360 hours; Valve 3 354 hours; Compressor: 79.6 hours

GENERAL MAINTENANCE

Electric Meter reading: 21602 Kw-hrs
Check Operation of Heaters/Fans: GOOD
Noticable Odors Outside Building: NONE

NOTES: _____
ATTENTION - HEATHER SIMON

HDPE SUMP

Water Level: 23 3/4 in. (Depth in Inches)
High Level Float Switch Setting: (~~Full Depth~~ / Raised 1/2 ft)
Slice Gate Valve Setting: (~~Closed~~ / ~~Partially open~~ / Full open)
Noticable Odor: (~~Yes~~ / No)

BIOSPARGE WELLS

Operation Zone	Well #	Valve Status (O,P,C)	Pressure (psi) In Building
Zone 1	BW-03	OPEN	3.0
Zone 1	BW-06	1	3.5
Zone 1	BW-09	CLOSED	—
Zone 1	BW-12	OPEN	4.0
Zone 1	BW-15		4.0
Zone 1	BW-18		4.0
Zone 2	BW-02		4.75
Zone 2	BW-05		5.0
Zone 2	BW-08		5.0
Zone 2	BW-11		5.0
Zone 2	BW-14		5.0
Zone 2	BW-17		4.75
Zone 3	BW-01		6.0
Zone 3	BW-04		6.0
Zone 3	BW-07		6.0
Zone 3	BW-10		6.0
Zone 3	BW-13		6.0
Zone 3	BW-16		6.0

OPERATIONS LOG

Site Name: Campmarina / Worker's Water Steet Park
Project/Task Number: 1313/4.3
Site Location: 732 Water Street, Sheboygan, WI

Operator: Heather
Date of Site Visit: 4/20/04
Arrival Time: 10:00 am
Departure Time: _____

Is System operating upon arrival? N upon departure N
~~If no, which alarm is signalled?~~ _____

BIOSPARGE COMPRESSOR

Compressor Temperature: _____ deg. F.
Compressor Outlet Pressure: Zone 1 0 psi
Zone 2 0 psi
Zone 3 0 psi
Compressor Bleed Pressure: Zone 1 0 psi
Zone 2 0 psi
Zone 3 0 psi

Air Bleed valve status: (Closed / Partially open / Full open)
Air Outlet valve status: (Closed / Partially open / Full open)

COMPRESSOR OVERVIEW

Cumulative Run Hours: Valve 1 400.2 hours
Valve 2 395.6 hours
Valve 3 389.1 hours
Compressor: 105.0 hours

GENERAL MAINTENANCE

Electric Meter reading: _____ Kw-hrs
Check Operation of Heaters/Fans: _____
Noticable Odors Outside Building: _____

NOTES: _____
ATTENTION - HEATHER SIMON

HDPE SUMP

Water Level: _____ in. (Depth in Inches)
High Level Float Switch Setting: (Full Depth / Raised ____ ft)
Slice Gate Valve Setting: (Closed / Partially open / Full open)
Noticable Odor: (Yes / No)

BIOSPARGE WELLS

Operation Zone	Well #	Valve Status (O,P,C)	Pressure (psi) In Building
Zone 1	BW-03	O	0
Zone 1	BW-06	O	0
Zone 1	BW-09	CLOSED	0
Zone 1	BW-12	O	0
Zone 1	BW-15	O	1.0
Zone 1	BW-18	O	0
Zone 2	BW-02	O	0
Zone 2	BW-05	O	0
Zone 2	BW-08	O	0
Zone 2	BW-11	O	0
Zone 2	BW-14	O	0
Zone 2	BW-17	O	0
Zone 3	BW-01	100 O	1.7
Zone 3	BW-04	O	1.5
Zone 3	BW-07	O	1.5
Zone 3	BW-10	O	1.5
Zone 3	BW-13	O	1.3
Zone 3	BW-16	O	1.5

OPERATIONS LOG

Site Name: Campmarina / Worker's Water Steet Park
Project/Task Number: 1313/4.3
Site Location: 732 Water Street, Sheboygan, WI

Operator: JEFF WUNSCH
Date of Site Visit: 4-26-04
Arrival Time: 13:30
Departure Time: 13:55

Is System operating upon arrival? YES upon departure YES
If no, which alarm is signalled? _____

BIOSPARGE COMPRESSOR

Compressor Temperature: 119° deg. F.

Compressor Outlet Pressure:	Zone 1	3.5 psi
	Zone 2	5.0 psi
	Zone 3	6.0 psi
Compressor Bleed Pressure:	Zone 1	3.5 psi
	Zone 2	5.0 psi
	Zone 3	6.0 psi

Air Bleed valve status: ~~(Closed~~ / Partially open / ~~Full open~~)
Air Outlet valve status: (~~Closed~~ / ~~Partially open~~ / Full open)

COMPRESSOR OVERVIEW

Cumulative Run Hours:	Valve 1	409.1 hours
	Valve 2	404.7 hours
	Valve 3	397.9 hours
	Compressor:	211.8 hours

GENERAL MAINTENANCE

Electric Meter reading: 22542 Kw-hrs
Check Operation of Heaters/Fans: YES
Noticable Odors Outside Building: NO

NOTES: LOWERED SUMP FLOAT TO FULL DEPTH.

ATTENTION - HEATHER SIMON

HDPE SUMP

Water Level: 22 3/4 in. (Depth in Inches)
High Level Float Switch Setting: (Full Depth / ~~Raised~~ ____ ft)
Slice Gate Valve Setting: (~~Closed~~ / ~~Partially open~~ / Full open)
Noticable Odor: (~~Yes~~ / No)

BIOSPARGE WELLS

Operation Zone	Well #	Valve Status (O,P,C)	Pressure (psi) In Building
Zone 1	BW-03	OPEN	3.5
Zone 1	BW-06	"	3.75
Zone 1	BW-09	CLOSED	—
Zone 1	BW-12	OPEN	4.5
Zone 1	BW-15	"	4.5
Zone 1	BW-18	"	4.5
Zone 2	BW-02	"	5.0
Zone 2	BW-05	"	5.0
Zone 2	BW-08	"	5.0
Zone 2	BW-11	"	5.0
Zone 2	BW-14	"	5.0
Zone 2	BW-17	"	5.0
Zone 3	BW-01	"	6.0
Zone 3	BW-04	"	6.0
Zone 3	BW-07	"	6.0
Zone 3	BW-10	"	6.0
Zone 3	BW-13	"	6.0
Zone 3	BW-16	"	6.0

OPERATIONS LOG

Site Name: Campmarina / Worker's Water Steet Park
Project/Task Number: 1313/4.3
Site Location: 732 Water Street, Sheboygan, WI

Operator: Jeff Wunsch
Date of Site Visit: 5-19-04
Arrival Time: 08:30
Departure Time: 09:30

Is System operating upon arrival? NO upon departure YES
If no, which alarm is signalled? SUMP HIGH LEVEL

BIOSPARGE COMPRESSOR

Compressor Temperature: 114° deg. F.

Compressor Outlet Pressure:	Zone 1	4.5 psi
	Zone 2	5.0 psi
	Zone 3	6.0 psi
Compressor Bleed Pressure:	Zone 1	4.5 psi
	Zone 2	5.0 psi
	Zone 3	6.0 psi

Air Bleed valve status: (~~Closed~~ / Partially open / ~~Full open~~)
Air Outlet valve status: (~~Closed~~ / ~~Partially open~~ / Full open)

COMPRESSOR OVERVIEW

Cumulative Run Hours:	Valve 1	432.3 hours
	Valve 2	427.9 hours
	Valve 3	421.1 hours
	Compressor:	281.4 hours

GENERAL MAINTENANCE

Electric Meter reading: 23033 Kw-hrs
Check Operation of Heaters/Fans: OK
Noticable Odors Outside Building: NONE

NOTES: INSTALLED DOOR CLOSERS
ATTENTION - HEATHER SIMON

HDPE SUMP

Water Level: 3 1/4 in. (Depth in Inches)
High Level Float Switch Setting: (~~Full Depth~~ / Raised 1/2 ft)
Slice Gate Valve Setting: (~~Closed~~ / ~~Partially open~~ / Full open)
Noticable Odor: (~~Yes~~ / No)

BIOSPARGE WELLS

Operation Zone	Well #	Valve Status (O,P,C)	Pressure (psi) In Building
Zone 1	BW-03	OPEN	3.5
Zone 1	BW-06	"	4.0
Zone 1	BW-09	CLOSED	—
Zone 1	BW-12	OPEN	4.5
Zone 1	BW-15	"	4.75
Zone 1	BW-18	"	4.5
Zone 2	BW-02	"	4.75
Zone 2	BW-05	"	5.0
Zone 2	BW-08	"	5.25
Zone 2	BW-11	"	5.0
Zone 2	BW-14	"	5.0
Zone 2	BW-17	"	5.0
Zone 3	BW-01	"	6.0
Zone 3	BW-04	"	6.0
Zone 3	BW-07	"	6.0
Zone 3	BW-10	"	6.0
Zone 3	BW-13	"	6.0
Zone 3	BW-16	"	6.0

OPERATIONS LOG

Site Name: Campmarina / Worker's Water Steet Park
Project/Task Number: 1313/4.3
Site Location: 732 Water Street, Sheboygan, WI

Operator: JEFF WUNSCH
Date of Site Visit: 6-7-04
Arrival Time: 11:40
Departure Time: 12:00

Is System operating upon arrival? YES upon departure YES
If no, which alarm is signalled? _____

BIOSPARGE COMPRESSOR

Compressor Temperature: 125 deg. F.
Compressor Outlet Pressure: Zone 1 4.0 psi; Zone 2 5.0 psi; Zone 3 6.0 psi
Compressor Bleed Pressure: Zone 1 4.0 psi; Zone 2 5.0 psi; Zone 3 6.0 psi

Air Bleed valve status: (~~Closed~~ / Partially open / ~~Full open~~)
Air Outlet valve status: (~~Closed~~ / ~~Partially open~~ / Full open)

COMPRESSOR OVERVIEW

Cumulative Run Hours: Valve 1 445.9 hours; Valve 2 440.9 hours; Valve 3 434.7 hours; Compressor: 321.6 hours

GENERAL MAINTENANCE

Electric Meter reading: 23386 Kw-hrs
Check Operation of Heaters/Fans: GOOD
Noticable Odors Outside Building: NONE

NOTES: SUMP LEVEL WAS 41 1/2" ON 6-1-04
ATTENTION - HEATHER SIMON

HDPE SUMP

Water Level: 37 1/4 in. (Depth in Inches)
High Level Float Switch Setting: (~~Full Depth~~ / Raised 1 ft)
Slice Gate Valve Setting:(~~Closed~~ / ~~Partially open~~ / Full open)
Noticable Odor: (~~Yes~~ / No)

BIOSPARGE WELLS

Operation Zone	Well #	Valve Status (O,P,C)	Pressure (psi) In Building
Zone 1	BW-03	O	~~3.0~~ 3.0
Zone 1	BW-06		3.5
Zone 1	BW-09	CLOSED	—
Zone 1	BW-12	O	4.0
Zone 1	BW-15		4.25
Zone 1	BW-18		4.0
Zone 2	BW-02		5.25
Zone 2	BW-05		5.5
Zone 2	BW-08		5.75
Zone 2	BW-11		5.5
Zone 2	BW-14		5.5
Zone 2	BW-17		5.5
Zone 3	BW-01		6.0
Zone 3	BW-04		6.0
Zone 3	BW-07		6.0
Zone 3	BW-10		6.0
Zone 3	BW-13		6.0
Zone 3	BW-16		6.0

OPERATIONS LOG

Site Name: Campmarina / Worker's Water Steet Park
Project/Task Number: 1313/4.3
Site Location: 732 Water Street, Sheboygan, WI

Operator: JEFF WUHSCH
Date of Site Visit: 6-28-04
Arrival Time: 12:20
Departure Time: 12:50

Is System operating upon arrival? NO upon departure YES
If no, which alarm is signalled? HIGH SUMP ALARM

BIOSPARGE COMPRESSOR

Compressor Temperature: 117 deg. F.

Compressor Outlet Pressure:	Zone 1	4.0 psi
	Zone 2	5.0 psi
	Zone 3	6.0 psi
Compressor Bleed Pressure:	Zone 1	4.0 psi
	Zone 2	5.0 psi
	Zone 3	6.0 psi

Air Bleed valve status: (~~Closed~~ / Partially open / ~~Full open~~)
Air Outlet valve status: (~~Closed~~ / ~~Partially open~~ / Full open)

COMPRESSOR OVERVIEW

Cumulative Run Hours:	Valve 1	451.3 hours
	Valve 2	446.0 hours
	Valve 3	440.0 hours
	Compressor:	1337.3 hours

GENERAL MAINTENANCE

Electric Meter reading: 23489 Kw-hrs
Check Operation of Heaters/Fans: GOOD
Noticable Odors Outside Building: NONE

NOTES: COMPRESSORS BACK ON
ATTENTION - HEATHER SIMON

HDPE SUMP

Water Level: 36 in. (Depth in Inches)
High Level Float Switch Setting: (~~Full Depth~~ / Raised 1 ft)
Slice Gate Valve Setting: (~~Closed~~ / ~~Partially open~~ / Full open)
Noticable Odor: (~~Yes~~ / No)

BIOSPARGE WELLS

Operation Zone	Well #	Valve Status (O,P,C)	Pressure (psi) In Building
Zone 1	BW-03	OPEN	3.5
Zone 1	BW-06	"	4.0
Zone 1	BW-09	CLOSED	—
Zone 1	BW-12	OPEN	4.5
Zone 1	BW-15	"	4.5
Zone 1	BW-18	"	4.5
Zone 2	BW-02	"	5.0
Zone 2	BW-05	"	5.5
Zone 2	BW-08	"	5.5
Zone 2	BW-11	"	6.25
Zone 2	BW-14	"	5.5
Zone 2	BW-17	"	5.25
[illegible]	[illegible]	"	6.25
[illegible]	[illegible]	"	6.0
[illegible]	[illegible]	"	6.0
[illegible]	[illegible]	"	6.25
[illegible]	[illegible]	"	6.0
[illegible]	[illegible]	"	6.0

OPERATIONS LOG

Site Name: Campmarina / Worker's Water Steet Park
Project/Task Number: 1313/4.3
Site Location: 732 Water Street, Sheboygan, WI

Operator: JEFF WUNSCH
Date of Site Visit: 8-2-04
Arrival Time: 12:15
Departure Time:

Is System operating upon arrival? YES upon departure YES
If no, which alarm is signalled? ———

BIOSPARGE COMPRESSOR

Compressor Temperature: 130 deg. F.
Compressor Outlet Pressure: Zone 1 3,0 psi; Zone 2 5,5 psi; Zone 3 5,0 psi
Compressor Bleed Pressure: Zone 1 3,0 psi; Zone 2 5,5 psi; Zone 3 5,0 psi

Air Bleed valve status: (~~Closed~~ / Partially open / ~~Full open~~)
Air Outlet valve status: (~~Closed~~ / ~~Partially open~~ / Full open)

COMPRESSOR OVERVIEW

Cumulative Run Hours: Valve 1 501,0 hours; Valve 2 495,6 hours; Valve 3 489,4 hours; Compressor: 1486,1 hours

GENERAL MAINTENANCE

Electric Meter reading: 24156 Kw-hrs
Check Operation of Heaters/Fans: YES
Noticable Odors Outside Building: NONE

NOTES: ATTENTION - HEATHER SIMON

HDPE SUMP

Water Level: 33 in. (Depth in Inches)
High Level Float Switch Setting: (~~Full Depth~~ / Raised ONE ft)
Slice Gate Valve Setting: (~~Closed~~ / ~~Partially open~~ / Full open)
Noticable Odor: (~~Yes~~ / No)

BIOSPARGE WELLS

Operation Zone	Well #	Valve Status (O,P,C)	Pressure (psi) In Building
Zone 1	BW-03	OPEN	3,0
Zone 1	BW-06	"	3,5
Zone 1	BW-09	CLOSED	———
Zone 1	BW-12	OPEN	4,0
Zone 1	BW-15	"	4,25
Zone 1	BW-18	"	4,0
Zone 2	BW-02	"	5,0
Zone 2	BW-05	"	5,5
Zone 2	BW-08	"	5,5
Zone 2	BW-11	"	5,25
Zone 2	BW-14	"	5,5
Zone 2	BW-17	"	5,25
[illegible]	[illegible]	"	6,0
[illegible]	[illegible]	"	6,0
[illegible]	[illegible]	"	6,0
[illegible]	[illegible]	"	6,0
[illegible]	[illegible]	"	6,0
[illegible]	[illegible]	"	6,0

OPERATIONS LOG

Site Name: Campmarina / Worker's Water Steet Park
Project/Task Number: 1313/4.3
Site Location: 732 Water Street, Sheboygan, WI

Operator: JEFF WUNSCH
Date of Site Visit: 9-21-04
Arrival Time: 11:20
Departure Time: 11:45

Is System operating upon arrival? YES upon departure _____
If no, which alarm is signalled? _____

BIOSPARGE COMPRESSOR

Compressor Temperature: 120 deg. F.
Compressor Outlet Pressure: Zone 1 3,5 psi; Zone 2 5,0 psi; Zone 3 5,5 psi
Compressor Bleed Pressure: Zone 1 3,5 psi; Zone 2 5,0 psi; Zone 3 5,5 psi

Air Bleed valve status: (~~Closed~~ / Partially open / ~~Full open~~)
Air Outlet valve status: (~~Closed~~ / ~~Partially open~~ / Full open)

COMPRESSOR OVERVIEW

Cumulative Run Hours: Valve 1 572,2 ~~hours~~; Valve 2 66.4 hours; Valve 3 559,6 hours; Compressor: 698,3 hours

GENERAL MAINTENANCE

Electric Meter reading: 25098 Kw-hrs
Check Operation of Heaters/Fans: GOOD
Noticable Odors Outside Building: NONE

NOTES: OPENED BW-09's VALVE AND STILL
ATTENTION - HEATHER SIMON
WORKING ON STOOP.

HDPE SUMP

Water Level: 24½ in. (Depth in Inches)
High Level Float Switch Setting: (~~Full Depth~~ / Raised ONE ft)
Slice Gate Valve Setting: (~~Closed~~ / ~~Partially Open~~ / Full open)
Noticable Odor: (~~Yes~~ / No)

BIOSPARGE WELLS

Operation Zone	Well #	Valve Status (O,P,C)	Pressure (psi) In Building
Zone 1	BW-03	OPEN	3,0
Zone 1	BW-06	"	3,0
Zone 1	BW-09	~~CLOSED~~ OPEN	3,25
Zone 1	BW-12	"	3,75
Zone 1	BW-15	"	4,0
Zone 1	BW-18	"	3,75
Zone 2	BW-02	"	5,0
Zone 2	BW-05	"	5,25
Zone 2	BW-08	"	5,5
Zone 2	BW-11	"	5,0
Zone 2	BW-14	"	5,25
Zone 2	BW-17	"	5,0
[illegible]	[illegible]	"	5,75
[illegible]	[illegible]	"	5,5
[illegible]	[illegible]	"	5,5
[illegible]	[illegible]	"	6,0
[illegible]	[illegible]	"	5,75
[illegible]	[illegible]	"	6,0

OPERATIONS LOG

Site Name: Campmarina / Worker's Water Steet Park
Project/Task Number: 1313/4.3
Site Location: 732 Water Street, Sheboygan, WI

Operator: JEFF WUNSCH
Date of Site Visit: 10-20-04
Arrival Time: 13:30
Departure Time: 14:00

Is System operating upon arrival? YES upon departure YES
If no, which alarm is signalled? _____

BIOSPARGE COMPRESSOR

Compressor Temperature: 115 deg. F.
Compressor Outlet Pressure: Zone 1 4.0 psi; Zone 2 5.0 psi; Zone 3 6.0 psi
Compressor Bleed Pressure: Zone 1 4.0 psi; Zone 2 5.0 psi; Zone 3 6.0 psi

Air Bleed valve status: ~~(Closed~~ / Partially open / ~~Full open~~)
Air Outlet valve status: (~~Closed / Partially open~~ / Full open)

COMPRESSOR OVERVIEW

Cumulative Run Hours: Valve 1 613.7 hours; Valve 2 607.4 hours; Valve 3 600.7 hours; Compressor: 821.9 hours

GENERAL MAINTENANCE

Electric Meter reading: 25644 Kw-hrs
Check Operation of Heaters/Fans: OK
Noticable Odors Outside Building: NONE

NOTES: CLEANED FILTERS
ATTENTION - HEATHER SIMON

HDPE SUMP

Water Level: 23 in. (Depth in Inches)
High Level Float Switch Setting: (~~Full Depth~~ / Raised 1 ft)
Slice Gate Valve Setting: (~~Closed / Partially open~~ / Full open)
Noticable Odor: (~~Yes~~ / No)

BIOSPARGE WELLS

Operation Zone	Well #	Valve Status (O,P,C)	Pressure (psi) In Building
Zone 1	BW-03	OPEN	3.0
Zone 1	BW-06		3.5
Zone 1	BW-09		3.5
Zone 1	BW-12		4.0
Zone 1	BW-15		4.0
Zone 1	BW-18		4.0
Zone 2	BW-02		5.0
Zone 2	BW-05		5.5
Zone 2	BW-08		5.5
Zone 2	BW-11		5.0
Zone 2	BW-14		5.25
Zone 2	BW-17		5.0
[illegible]	[illegible]		6.0
[illegible]	[illegible]		6.0
[illegible]	[illegible]		6.0
[illegible]	[illegible]		6.0
[illegible]	[illegible]		6.0
[illegible]	[illegible]		6.0

APPENDIX D

AIR SAMPLING ANALYTICAL REPORTS

ENCHEM INC.

Corporate Office & Laboratory
1241 Bellevue Street, Suite 9, Green Bay, WI 54302
920-469-2436, Fax: 920-469-8827
www.enchem.com

Analytical Report Number: 843659

Client: NATURAL RESOURCE TECH
Lab Contact: Tom Trainor
Project Name: WPSC - CAMP MARINA
Project Number: 1313

Lab Sample Number	Field ID	Matrix	Collection Date
843659-001	VENT	AIR	02/17/04

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

2/25/04
Date

En Chem Inc.

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

Analytical Report Number: 843659

Client : NATURAL RESOURCE TECH
Project Name : WPSC - CAMP MARINA
Project Number : 1313
Field ID : VENT

Matrix Type : AIR
Collection Date : 02/17/04
Report Date : 02/25/04
Lab Sample Number : 843659-001

BTEX **Prep Date:** 02/24/04

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Benzene	<	0.22	0.22	0.72		50	ug		02/24/04	SW846 5030B	SW846 8260B
Ethylbenzene	<	0.22	0.22	0.75		50	ug		02/24/04	SW846 5030B	SW846 8260B
Toluene	<	0.13	0.13	0.42		50	ug		02/24/04	SW846 5030B	SW846 8260B
Xylene, o	<	0.22	0.22	0.75		50	ug		02/24/04	SW846 5030B	SW846 8260B
Xylenes, m + p	<	0.32	0.32	1.1		50	ug		02/24/04	SW846 5030B	SW846 8260B
4-Bromofluorobenzene		100				1	%Recov		02/24/04	SW846 5030B	SW846 8260B
Toluene-d8		104				1	%Recov		02/24/04	SW846 5030B	SW846 8260B
Dibromofluoromethane		109				1	%Recov		02/24/04	SW846 5030B	SW846 8260B

En Chem Inc.

Analysis Summary by Laboratory

1241 Bellevue Street
Green Bay, WI 54302

1090 Kennedy Avenue
Kimberly, WI 54136

Test Group Name	843659-001
BTEX	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	

En Chem, Inc. Cooler Receipt Log

Batch No. 843659

Project Name or ID 1313 No. of Coolers: 1 Temps: ROI

A. Receipt Phase: Date cooler was opened: 2-19-04 **By:** GD

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)	
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: 2-19-04 **By:** GD

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. KB	(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 TMT 2/20/04

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

JMP

(Please Print Legibly)
Company Name: Natural Resource Technology
Branch or Location:
Project Contact: Heather Simon
Telephone: 262-522-1207
Project Number: 1313
Project Name: Camp Marina-WPSC
Project State: WI
Sampled By (Print): Heather Simon
PO #:

EN CHEM INC. ...chemistry for the environment.

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

CHAIN OF CUSTODY № 114446

Page ____ of ____
Quote #:
Mail Report To: Heather Simon
Company: Natural Resource Tech.
Address: 2373 W. Pawlick
Pewaukee, WI 53072
Invoice To: Heather Simon
Company: Same
Address:
Mail Invoice To:

*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: BTEX 8260B	TOTAL # OF BOTTLES SENT	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)
001	Vent	2/17/04	12:00	A			X	1	40ml MeOH	

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:
Heather Simon	2/18/04		
	2/18/04		2/18/04 1000
Heather Simon			
Heather Simon		Gloria Watson	2/19/04 0810

En Chem Project No. 843659
Sample Receipt Temp ROI
Sample Receipt pH (Wet/Metals) NA
Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 4.0: 07/03

EN CHEM INC.

Corporate Office & Laboratory
1241 Bellevue Street, Suite 9, Green Bay, WI 54302
920-469-2436, Fax: 920-469-8827
www.enchem.com

Analytical Report Number: 850401

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

Project Name: WPSC - CAMP MARINA

Project Number: 1313

Lab Sample Number	Field ID	Matrix	Collection Date
850401-001	1103 REP-1	GW	08/26/04
850401-002	VENT	IMP	08/26/04
850401-003	TRIP BLANK	METH	08/26/04

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

9/3/04

Date

En Chem Inc.

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

Analytical Report Number: 850401

Client : NATURAL RESOURCE TECHNOLOGY, INC.
Project Name : WPSC - CAMP MARINA
Project Number : 1313
Field ID : 1103 REP-1

Matrix Type : GROUNDWATER
Collection Date : 08/26/04
Report Date : 09/02/04
Lab Sample Number : 850401-001

BTEX

Prep Date: 09/01/04

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Benzene	<	0.14	0.14	0.46		1	ug/L		09/01/04	SW846 5030B	SW846 M8021
Ethylbenzene	<	0.40	0.40	1.3		1	ug/L		09/01/04	SW846 5030B	SW846 M8021
Toluene	<	0.36	0.36	1.2		1	ug/L		09/01/04	SW846 5030B	SW846 M8021
Xylene, o	<	0.36	0.36	1.2		1	ug/L		09/01/04	SW846 5030B	SW846 M8021
Xylenes, m + p	<	0.74	0.74	2.5		1	ug/L		09/01/04	SW846 5030B	SW846 M8021
a,a,a-Trifluorotoluene		103				1	%Recov		09/01/04	SW846 5030B	SW846 M8021

PAH/ PNA

Prep Date: 08/31/04

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	2.2	0.40	1.3		20	ug/L		08/31/04	SW846 3510C	8270C-SIM
2-Methylnaphthalene	1.7	0.45	1.5		20	ug/L		08/31/04	SW846 3510C	8270C-SIM
Acenaphthene	1.6	0.39	1.3		20	ug/L		08/31/04	SW846 3510C	8270C-SIM
Acenaphthylene	9.3	3.1	10		160	ug/L	QD	09/01/04	SW846 3510C	8270C-SIM
Anthracene	8.5	2.8	9.4		160	ug/L	QD	09/01/04	SW846 3510C	8270C-SIM
Benzo(a)anthracene	11	3.1	10		160	ug/L	D	09/01/04	SW846 3510C	8270C-SIM
Benzo(a)pyrene	11	2.9	9.7		160	ug/L	D	09/01/04	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene	4.8	0.36	1.2		20	ug/L		08/31/04	SW846 3510C	8270C-SIM
Benzo(ghi)perylene	5.3	0.41	1.4		20	ug/L		08/31/04	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene	7.0	0.39	1.3		20	ug/L		08/31/04	SW846 3510C	8270C-SIM
Chrysene	12	2.6	8.7		160	ug/L	D	09/01/04	SW846 3510C	8270C-SIM
Dibenz(a,h)anthracene	1.3	0.44	1.5		20	ug/L	Q	08/31/04	SW846 3510C	8270C-SIM
Fluoranthene	19	2.6	8.8		160	ug/L	D	09/01/04	SW846 3510C	8270C-SIM
Fluorene	3.6	0.44	1.5		20	ug/L		08/31/04	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene	3.8	0.34	1.1		20	ug/L		08/31/04	SW846 3510C	8270C-SIM
Naphthalene	0.60	0.45	1.5		20	ug/L	Q	08/31/04	SW846 3510C	8270C-SIM
Phenanthrene	24	3.3	11		160	ug/L	D	09/01/04	SW846 3510C	8270C-SIM
Pyrene	35	2.6	8.7		160	ug/L	D	09/01/04	SW846 3510C	8270C-SIM
Nitrobenzene-d5	0				20	%Recov	D	08/31/04	SW846 3510C	8270C-SIM
2-Fluorobiphenyl	0				20	%Recov	D	08/31/04	SW846 3510C	8270C-SIM
Terphenyl-d14	0				20	%Recov	D	08/31/04	SW846 3510C	8270C-SIM

En Chem Inc.

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

Analytical Report Number: 850401

Client : NATURAL RESOURCE TECHNOLOGY, INC.
Project Name : WPSC - CAMP MARINA
Project Number : 1313
Field ID : VENT

Matrix Type : IMPINGER
Collection Date : 08/26/04
Report Date : 09/02/04
Lab Sample Number : 850401-002

BTEX

Prep Date: 09/01/04

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Benzene	<	0.38	0.38	1.2		50	ug		09/01/04	SW846 5030B	SW846 M8021
Ethylbenzene	<	0.38	0.38	1.2		50	ug		09/01/04	SW846 5030B	SW846 M8021
Toluene	<	0.38	0.38	1.2		50	ug		09/01/04	SW846 5030B	SW846 M8021
Xylene, o	<	0.38	0.38	1.2		50	ug		09/01/04	SW846 5030B	SW846 M8021
Xylenes, m + p	<	0.38	0.38	1.2		50	ug		09/01/04	SW846 5030B	SW846 M8021
a,a,a-Trifluorotoluene		102				1	%Recov		09/01/04	SW846 5030B	SW846 M8021

En Chem Inc.

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

Analytical Report Number: 850401

Client : NATURAL RESOURCE TECHNOLOGY, INC.
Project Name : WPSC - CAMP MARINA
Project Number : 1313
Field ID : TRIP BLANK

Matrix Type : METHANOL
Collection Date : 08/26/04
Report Date : 09/02/04
Lab Sample Number : 850401-003

BTEX

Prep Date: 09/01/04

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Benzene	<	25	25	60		50	ug/L		09/02/04	SW846 5030B	SW846 M8021
Ethylbenzene	<	25	25	60		50	ug/L		09/02/04	SW846 5030B	SW846 M8021
Toluene	<	25	25	60		50	ug/L		09/02/04	SW846 5030B	SW846 M8021
Xylene, o	<	25	25	60		50	ug/L		09/02/04	SW846 5030B	SW846 M8021
Xylenes, m + p	<	25	25	60		50	ug/L		09/02/04	SW846 5030B	SW846 M8021
a,a,a-Trifluorotoluene		101				1	%Recov		09/02/04	SW846 5030B	SW846 M8021

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 Inc.

Analysis Summary by Laboratory

1241 Bellevue Street
Green Bay, WI 54302

1090 Kennedy Avenue
Kimberly, WI 54136

Test Group Name	850401-001	850401-002	850401-003
BTEX	G	G	G
PAH/ PNA	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	

En Chem, Inc. Cooler Receipt Log

Batch No. 850401

Project Name or ID NRT-Sheboygan No. of Coolers: 1 Temps: R01

A. Receipt Phase: Date cooler was opened: 8-30-04 **By:** SFalk

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)	
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: 8-30-04 **By:** SFalk

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. 8/30/04	(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 TJT 8/31/04

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

CHAIN OF CUSTODY RECORD

Natural Resource Technology
N R T

Sample Collectors(s)/Signature(s): Eric P. Krawtek / Eric P. Krawtek

NATURAL RESOURCE TECHNOLOGY, INC.
PEWAUKEE, WISCONSIN

Laboratory Samples are Being Submitted To: En Chem

Quote Number/Addendum Number _____ Attached: YES __ NO X

Site Name: 1313 Camp Marine

Site Address: She boygan

Send Report To:
Project Manager: Heather Simon Project Number: 1313
Natural Resource Technology, Inc.
23713 W. Paul Road Task Number: _____
Pewaukee, WI 53072
Telephone (414) 523-9000 Fax (414) 523-9001

Temperature of temperature blank _____
If sample(s) were received on ice and there was ice remaining, you may report the temperature as "received on ice". If all of the ice was melted, the temperature of the melt may be substituted for a temperature blank.

I hereby certify that I received, properly handled, and maintained custody of these samples as noted below:

Relinquished By (Signature)	Date/Time	Received By (Signature)	Date/Time
Eric P. Krawtek	8/27/04 1800		
Bob Mattemeyer	8/30/04 1115	Hogue	8/30/04 1115
Hogue	8-30-04 1330	Stalk	8-30-04/1330

Field ID Number	Date Collected	Time Collected	Sample Media	Sample Device	Location / Description	PID Reading	Field Comments	Preserv. Type	# of Cont.	Analytical Method / Numbers: PAHs	Analytical Method / Numbers: BTEX	Lab ID Number	Lab Use Only: Sample Conditions @ Laboratory
1103 Rep-1	8/26/04		BW	Pump	Drum Water		Treated	HCl/None	4	1	3	001	Hold
Vent	8/26/04		Air	Pump	Air Vent on Stack			Meth.	1		1	002	Hold
Trip Blank												003	Hold
													Hold
													Hold

SPECIAL INSTRUCTIONS

850401

Laboratory shall retain samples for 30 days after issuing analytical report unless indicated otherwise below:
__ Return __ Other _____

PT 1 - ORIGINAL-WHITE PT 2 - LABORATORY COPY-YELLOW PT 3 - NRT FIELD COPY-PINK

This form is based on the WDNR LUST Program Chain of Custody Record (Form 4400-151)

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