UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 W. JACKSON BLVD
CHICAGO, IL 60604

MEMORANDUM

DATE: JUN 2 8 2006

SUBJECT: ENFORCEMENT ACTION MEMORANDUM - Determination of Threat to Public Health or Welfare or the Environment at the Wisconsin Public Service Corporation Camp Marina Manufactured Gas Plant, Sheboygan, Sheboygan County, Wisconsin (Site ID # B5DA)

FROM: Pablo N. Valentín
Remedial Project Manager/ On-Scene Coordinator

THRU: Linda M. Nachowicz, Chief
Emergency Response Branch 2

TO: Richard C. Karl, Director
Superfund Division

I. PURPOSE

The purpose of this Action Memorandum is to document the determination of an imminent and substantial threat to public health or welfare or the environment posed by the presence of contaminated soils and sediment at the Wisconsin Public Service Corporation (WPSC) Camp Marina Manufactured Gas Plant (MGP) Site in Sheboygan, Wisconsin (the WPSC Camp Marina MGP Site or the Site), and to document approval of the proposed time-critical removal action described herein.

The response actions proposed herein are necessary in order to mitigate threats to public health, welfare, and the environment posed by the presence of uncontrolled hazardous substances at the Site, a former manufactured gas plant. The presence of hazardous substances existing at the Site has been documented, including toxic Polynuclear Aromatic Hydrocarbons (PAH) in Non Aqueous Phase Liquid (NAPL) form. Results from the Site Remedial Investigation documented the presence of high levels of hazardous substances in soils and sediment at or near the surface. PAHs were detected in multiple samples in NAPL form. Additionally, dredging scheduled to take place this summer as part of the implementation of the Sheboygan River and Harbor Superfund Site PCB cleanup might cause the release of the PAH NAPL material from the Site if not addressed adequately.

The removal action proposed herein is to complete the following: drill shafts followed by insertion of grouted steel piles to support the existing Site Waterloo wall; excavate near-shore PAH NAPL; reconstruct shoreline, install sheetpile cofferdam; excavate sediment PAH NAPL; backfill wet excavation areas; transport and dispose off-site excavated material at a Comprehensive Environmental Response, Compensation, and Liability Act, 42 U.S.C. § 9601, *et seq.*, (CERCLA) approved disposal facility in accordance with U.S. EPA's Off-Site Rule (40 C.F.R. § 300.440); and, take any other response actions to address any release or threatened release of a hazardous substance, pollutant or contaminant that the United States Environmental Protection Agency (U.S. EPA) On-Scene Coordinator (OSC) determines may pose an imminent and substantial endangerment to the public health or the environment.

This response action will be conducted in accordance with CERCLA Section 104(a)(1), 42 U.S.C. § 9604(a)(1), to abate or eliminate the immediate threat posed to public health and/or the environment by the presence of the hazardous substances at the Site. The uncontrolled conditions of the hazardous substances present at the Site require that this action be classified as a time-critical removal action.

One of the potentially responsible parties (PRPs) for the Site, WPSC is prepared to conduct the time-critical removal action described in this Action Memorandum. WPSC was an operator of the MGP Site which contributed to the PAH NAPL contaminated soils and sediment.

There are no nationally significant or precedent setting issues associated with the Site.

II. SITE CONDITIONS AND BACKGROUND

CERCLIS ID # WIN000510058
RCRA ID: None
STATE ID: None
Category: Time-Critical Removal

Two methods of coal gas production were used at the WPSC Camp Marina MGP. The coal carbonization method, used from 1872 to 1886, involved heating the coal in an airtight chamber (retort) which produced coke and gases containing a variety of volatilized organic constituents. The process also produced tar, which was sold for roofing, wood treatment, and paving roads. The gas was passed through purifiers to remove impurities such as sulfur, carbon dioxide, cyanide, and ammonia. Dry purifiers contained lime or hydrated iron oxide mixed with wood chips. The gas was then stored in large holders on the property prior to distribution for lighting and heating.

The carbureted water gas process, used from 1886 to 1929, involved passing air and steam over the incandescent coal in a brick-filled vessel to form a combustible gas which was then enriched by injecting a fine mist of oil over the bricks. The gas was then

purified and stored in holders prior to distribution. The Camp Marina MGP ceased operations in 1929. Former aboveground MGP related structures are shown on Figure A-2. Structures were removed between 1950 and 1966.

Historical development activities adjacent to (north of) the upland portion of the Site include a property formerly used as a tannery, then a toy factory. Tannery operations terminated sometime between 1903 and 1940 and the property was sold to Garton Toy Company (Garton). Garton used a portion of the property adjacent to the river, directly north of the former New York Avenue (Figure A-2), for paint and lacquer spraying. This building was subsequently demolished. Garton also occupied a building north of Wisconsin Avenue that is now a multi-tenant complex.

Historic Sanborn Fire Insurance maps for the subject property depict the shorelines of the Sheboygan River over time at the MGP site. Between 1891 and 1903, the channel appears to have been straightened by fill that extended approximately 60 feet into the river. Later maps show that the shoreline has not changed substantially since 1903. Historical shorelines are presented on Figure A-2.

The U. S. Army Corps of Engineers (USACE) Detroit District is responsible for maintaining a navigation channel and turning basin within the river downstream of the MGP Site. The upstream limit of the USACE navigation channel is located approximately 500 feet downstream of the former MGP facility, just below the Pennsylvania Avenue Bridge. From the Pennsylvania Avenue Bridge and extending approximately 2,300 feet downstream to near the Eighth Street Bridge, the channel has a USACE project depth of 15 feet. The remainder of the navigation channel (4,200 feet) downstream to the harbor has a USACE project channel depth of 21 feet.

Maintenance dredging of the Sheboygan Harbor last occurred in 1991 (WDNR, October 1995). Dredged materials were disposed of south of the harbor as part of a beach nourishment project. The channel above the Eighth Street Bridge has not been dredged since 1956 (U.S. EPA, May 2000).

According to a June 2005 USACE bathymetric survey of the Sheboygan River, water depths are much shallower than the USACE project depths. In the June 2005 survey, observed water depths within the 21-foot project depth portion of the channel were between 5 and 15 feet, while observed water depths within the 15-foot project depth portion of the channel were between 4 and 7 feet.

A. Site Description

1. Removal site evaluation

WPSC took, as part of the 2008 Remedial Investigation (RI), visual observations of sediment borings and MGP residuals, using the following NAPL standard descriptors outlined and summarized in the table below.

Descriptive Term	Definition
No Visible Evidence	No visible evidence of oil on soil or sediment sample
Sheen	Any visible sheen in the water on soil or sediment particles or the core
Staining	Visible brown or black staining in soil or sediment, can be visible as mottling or in bands; typically associated with fine-grained soil or sediment
Coating	Visible brown or black oil coating soil or sediment particles, typically associated with coarse-grained soil or sediment such as coarse sand, gravels, and cobbles
Oil Wetted	Visible brown or black oil wetting the soil or sediment sample; oil appears as a liquid and is not held by soil or sediment grains.

The occurrence of MGP residuals was documented on sediment logs (Appendix F of the 2008 RI Report). The areas depicting MGP residuals were interpolated based on the residuals observed in surrounding borings and professional judgment. Where present, MGP residuals were most often observed in the form of staining on soft sediments, and were coincident with elevated concentrations of PAHs. Staining was also observed in sediment borings with concentrations at or below the ambient concentration and may not be attributable to MGP residuals. The maximum total PAH concentration of 22,310 parts per million (ppm) occurred at the base of T6A (6.3 feet (ft) - 7.4 ft). In addition, T08A had a maximum PAH concentration of 7,872 ppm in the 2.7 ft - 3.8 ft interval and T09A had a maximum PAH concentration of 6,522 ppm in the 0.5 ft - 1.5 ft interval. The Great Lakes National Program Office conducted a sampling effort during the summer of 2010 and found the following maximum PAH concentrations with visual observations of NAPL within the Site area in the Sheboygan River: sample SD-086 with PAH concentration of 7,690 ppm at the 7 ft - 8 ft interval, SD-086 with maximum PAH concentration of 817 ppm at the 1 ft -3.5 ft interval, and SD-079 with maximum PAH concentration of 408 ppm at the 5 ft - 7 ft interval. See Figure A-5 for sample locations.

In general, sediment borings with staining and concentrations less than the ambient concentration were noted with petroleum-like odors. Sheen was rarely observed in sediments without the presence of other forms of MGP residuals (i.e., staining, oil wetted).

Vibrocores T18B, T4D, and T14B contained black sediments in combination with odor; however the black sediments were not present as mottling, the odors were weak and/or petroleum-like, and the total PAH (13) (Table B-1) concentrations were below 14,000 µg/kg (or 14 mg/kg). Therefore, they were not included in the determination of extent of MGP residuals. The upstream limit of MGP residuals is located at T3A. The downstream limit of MGP residuals is located at T17B and T17C. Between transect T3 and transect T11, MGP residuals were observed along the eastern shoreline (upland portion of the Site) and extended into the river as far as Boat Island. Between T11 and T17, MGP residuals contract toward the center of the channel and form a point near T17B and T17C. A localized area of MGP residuals was also observed along the western shore, between transect T3 and T8. (See Figure A-4 for referenced sample locations.)

The extent of MGP residuals observed in 2008 is generally consistent with the extent of MGP residuals observed in sediment in 1995 and 1996 with the exception of downstream of Boat Island where the occurrence of MGP residuals extends into the center of the Sheboygan River and the western shore. These areas had not been previously investigated to the same extent as the 2008 RI.

Black staining of the brown sediment was the most commonly observed form of MGP residual. However, it should be noted that stained sediment alone does not infer MGP residuals. Stained sediments may be associated with other sources. For example, sediment deposits naturally contain a high amount of organic material compared to upland soils, which is often present as black mottling within the sediment core. In the field, staining was differentiated from black organic mottling by olfactory observations. Cores that contained black mottling with the presence of petroleum or MGP-like odors were so noted and included in the MGP residuals unless the total PAH (13) concentration was less than the ambient concentration used for making field decisions.

The thickness of stained material within a soft sediment core ranged from 0.1 to 8.8 feet. Stained material greater than 5 feet thick was typically found in cores located near the upland portion of the Site. Oil wetted and oil coated sediment was observed in both fine and coarse grained materials. Similar to the delineation of MGP residuals, geological features were also inferred between boring locations using surrounding borings and professional judgment. These types of MGP residuals were commonly associated with sheen and staining, and found near the base of the sediment cores. The thickness of oil wetted or oil coated material within a soft sediment core ranged from 0.1 to 1.1 feet. T8A contained 1.1 feet of oil wetted silt near the base of the core.

MGP residuals were visually evident in an area defined upstream by transect T3 and downstream by transect T17, that extends from the eastern river shore out to Boat Island, or to near the center of the river channel below Boat Island. Along a limited length of the western river shore, opposite the former MGP site, MGP residuals extended approximately 40 feet from the shore. The most commonly observed MGP residual was staining, which can be found in both silty and sandy soft sediments. Oil wetted and/or oil coated sediments were also observed in both silty and sandy soft sediments and were commonly found near the base of vibrocore samples collected from near the upland portion of the Site shoreline. MGP residuals do not appear to be preferentially associated with any particular grain-size of material or layer within the soft sediment. MGP residuals were not observed in the parent material beneath the soft sediment. MGP residuals were observed in both historic upland Site samples and river Site sediment cores, approximately 15 feet below the former shoreline excavation.

2. Physical location

The Site is located at NW 1/4 of the SW 1/4 T15N, R23E, Section 23, 732 North Water Street, Sheboygan, Sheboygan County, Wisconsin. The geographical coordinates of the Site are 43.7525140 North latitude and -87.7182090 West longitude.

The upland portion of the Site encompasses an area of approximately 2.3 acres adjacent to the Sheboygan River, approximately 1 mile west of Lake Michigan. The river portion of the Site is located immediately adjacent to the upland portion of the Site and is approximately 4.5 acres (Figure A-1). This area extends 80 feet upstream of the former northern property boundary, as much as 200-feet outward from the shoreline, and about 1,000 feet downstream of the former southern property line. The river portion of the Site is within the limits of the Sheboygan River and Harbor Superfund Site.

Boat Island is a man-made land mass located approximately 180 feet from the eastern shoreline of the river portion of the Site. The island is approximately 375 feet long by 105 feet wide (at its widest point) and has several buildings used to store materials and supplies for the Sheboygan Outboard Club, located to the north. The City of Sheboygan owns Boat Island. The island has seasonal docking for boats. There is a polyethylene conduit that was horizontally bored approximately 15 feet below the river bed, between the Sheboygan Outboard Club and Boat Island, containing one or more electrical power lines and a sanitary sewer line to service the island.

The County of Sheboygan includes approximately 514 square miles of area, with agricultural land use being the dominant classification. The population of Sheboygan County is approximately 112,646 people (2000 Census), with the majority of people residing in incorporated areas. The greatest concentrations of people are located in the City of Sheboygan, Sheboygan Falls, Kiel and the Village of Kohler.

The City of Sheboygan encompasses 14.5 square miles. The population base in Sheboygan is 50,792 (2000 Census). The City of Sheboygan has a mixture of agricultural, residential, and industrial land use, with residential use being dominant.

The area surrounding the Site was screened for Environmental Justice (EJ) concerns using Region 5's EJ assist Tool (which applies the interim version of the national EJ strategic Enforcement Assessment Tool (EJSEAT)). Census tracts with a score of 1, 2, or 3 are considered to be high-priority potential EJ areas of concern according to USEPA Region 5. The Site is in a census tract with a score of 5. Therefore, Region 5 does not consider this to be a high-priority potential EJ area of concern. Please refer to the attached EJ analysis for additional information (Attachment 2)

3. Site characteristics

The former MGP is located on property owned by the City of Sheboygan, known as Camp Marina. In the past, Camp Marina was equipped with parking areas, electrical power and potable water for recreational vehicle (RV) use. A docking area was also provided for recreational boat use on the Sheboygan River. After WPSC completed remediation work in the upland portion of the Site, the City of Sheboygan redeveloped both Camp Marina and the adjoining property to the south into a park, a condominium complex, and a river walk.

The upland portion of the Site is now within Riverside Park with landscaped lawn, recreational areas, seating, and sidewalks. The park generally extends from the river on the west to 10th Street/North Water Street on the east, and from the extension of Center Avenue on the south to Wisconsin Avenue on the north. The park footprint includes the former MGP property and abandoned right-of-ways for North Water Street, Center Street, and New York Avenue.

An asphalt parking lot is located on the north side of the park, with access from Wisconsin Avenue. A small building constructed adjacent to this parking lot is shared by the Outboard Club and WPSC. WPSC's use is related to the remediation work in the upland portion of the Site, while the Outboard Club uses it to store equipment. The adjacent parking lot provides access to shoreline boat docks as well as additional docks on Boat Island. North of the park adjacent to the river is the former toy factory building, which has been rehabilitated into multi-tenant housing.

South of the park is a narrow parcel with a condominium unit at the northwest corner of Water Street and Pennsylvania Avenue. The Pennsylvania Avenue Bridge crosses the river just downstream of the park and former MGP. North Commerce Street parallels the river on its west side, with industrial/commercial buildings located between the street and river.

Alternative Programs School, Jefferson School, Longfellow Elementary School, Sheboygan Area District School, Sheridan Elementary School, and Trinity Lutheran School are located within one half mile of the former MGP facility.

4. Release or threatened release into the environment of a hazardous substance, or pollutant or contaminant

A release into the environment of a hazardous substance is present at the Site due to the presence of PAHs in NAPL form being detected in multiple samples. Analytical results from the Site RI document the presence of high levels of hazardous substances in soils and sediment at or near the surface. Additionally, dredging scheduled to take place this summer as part of the implementation of the Sheboygan River and Harbor Superfund Site PCB cleanup might cause migration of the NAPL material if not addressed adequately. NAPL may not be able to be adequately contained or controlled in a typical dredging scenario.

5. NPL status

The Site is not on the National Priorities List (NPL) and is currently being addressed as a Superfund Alternate Site under an Administrative Order between U.S. EPA and WPSC.

6. Maps, pictures and other graphic representations

The following figures and tables are included as attachments: Figure A-1 Site Location Map; Figure A-2 Historical Site Layout Map; Figure A-3 1987 BBL Sediment Sample Locations; Figure A-4 Site 2008 RI Sediment Sampling Transect Locations; Figure A-5 Focused PAH NAPL Removal Area Showing Cofferdam Location; Table B-1 13 PAH List; Table B-2 Visual Observation of MGP Residuals (PAH NAPL Extent); and Table B-3 PAH Sediment Analytical Results.

B. Other Actions to Date

1. Previous actions

Beginning in 1987, Blasland, Bouck & Lee Inc. (BBL) conducted sediment sampling for polychlorinated biphenyls (PCBs), volatile organic compounds (VOCs), PAHs, and metals as part of the Sheboygan River and Harbor Remedial Investigation. Fifteen samples were collected along the length of the river, with 10 samples being collected above the Pennsylvania Avenue Bridge and 5 samples downstream of the bridge (Figure A-3).

A number of sediment samples were collected near or just downstream of the MGP Site. Three samples had oil or high concentrations of PAHs. One of the samples, sample R-98, was collected near the downstream end of Boat Island and the sediment was described as "oil saturated" from 2 to 6 feet below the sediment surface. Two additional sediment samples, samples R-100 and H-20, were collected immediately downstream of the Pennsylvania Avenue Bridge. Sample R-100 was described as "oil saturated" from 4 to 6 feet below the sediment surface; however, neither sample R-98 nor R-100 were analyzed for PAHs. Sample H-20 was described as "oil saturated" from 4 to 16 feet below the sediment surface and had a total PAH concentration of 70,000 µg/kg (or 70 mg/kg) in the 2 to 4 foot sediment sample. There was no mention of elevated PAHs downstream of sample location H-20 and no mention of oil saturated sediments was noted for samples R-99 and R-101, collected on the west side of Boat Island, opposite the former MGP (BBL, May 1990).

In 1993, river sediment sampling was performed for the Wisconsin Department of Transportation (WDOT) construction project on the Eighth Street Bridge. The bridge is located approximately 3,000 feet downstream of the MGP Site. PAHs were found in the sediments around the Eighth Street Bridge in concentrations ranging from 5,000 to 97,000 µg/kg (or 5 to 90 mg/kg) in the top 0 to 2 feet of sediment.

In February 1995, the Wisconsin Department of Natural Resources (WDNR) collected one sediment sample within the river portion of the Site, approximately 20 to 30 feet from the shoreline, close to the downstream end of Boat Island (WDNR, October 1995). This sample contained apparent coal tar and had reported PAH concentrations greater than 3,000,000 µg/kg (or 3,000 mg/kg).

WPSC performed preliminary sediment investigations in 1995 and 1996. Results are detailed in the Sediment Investigation Report (NRT, November 1998). Sediment sampling focused on identifying the preliminary nature and extent of MGP residuals in river sediments or natural soil (parent material) underlying the Sheboygan River. Sediment/soil samples were collected from as deep as 10.5 feet below the bottom of the river, although in some locations parent materials were encountered beneath the soft sediments, and this material was also sampled. Figure A-4 shows the locations of the sediment samples in the Sheboygan River.

2. Current actions

U. S. EPA and WPSC entered into an Administrative Settlement Agreement and Order on Consent in 2007 that requires WPSC to conduct an RI and Feasibility Study (FS) for the river portion of the Site to address PAH impacts on the Sheboygan River sediments The RI report was finalized on July 21, 2009. Currently, U.S. EPA, in consultation with WDNR, is reviewing a final draft of the FS report. Additionally, U.S. EPA will be evaluating the cleanup actions implemented in the upland portion of the Site under the State Record of Decision (ROD) for compliance with CERCLA requirements.

C. State and Local Authorities' Role

1. State and local actions to date

WPSC performed remedial actions in the upland portion of the Site beginning in 2000 through 2001 under a State issued ROD. The remedial action consisted of soil treatment or disposal, a vertical sheet pile wall (waterloo barrier), low permeability geosynthetic cover, and a low flow biosparge groundwater system.

2. Potential for continued State/Local response

Since 2007, U.S. EPA has taken the lead on CERCLA response activities for the WPSC Camp Marina MGP Site. On January 27, 2007, U.S. EPA entered into an Administrative Settlement Agreement and Order on Consent with WPSC to perform a RI and FS at the Site. During implementation of the required RI and FS in the river portion of the Site and review of the work previously completed on the upland portion of the Site, U.S. EPA intends to continue working in consultation with the WDNR.

III. THREAT TO PUBLIC HEALTH OR THE ENVIRONMENT, AND STATUTORYAND REGULATORY AUTHORITIES

The conditions present at the Camp Marina MGP Site present an imminent and substantial threat to the public health, or welfare, and the environment based upon the factors set forth in NCP Section 300.415(b)(2). These factors include, but are not limited to, the following:

Actual or potential exposure to nearby human populations, animals, or the food chain from hazardous substances or pollutants or contaminants.

This factor is present at the Site because of the existence of PAH NAPL material within the Site shoreline and near shore sediment. Actual or potential exposure to the NAPL material associated contaminants exists for fish, shellfish, other aquatic biota such as benthic organisms, and wildlife such as piscivorous birds. Actual or potential exposure to aquatic species, although not quantified, may become part of the ecological food chain as wildlife consumes contaminated species. PAH contamination exists as pure tar in the Sheboygan River and along the Site riverbank. Staining has been detected at depths greater than 2 feet in sediment. Although staining does not necessarily indicate higher concentrations, sediment greater than 2 feet in depth may have higher associated chemical concentrations and risk, which may not be reflected by the near-surface sediment chemical concentrations. MGP residuals were visually evident in an area defined upstream by transect T3 and downstream by transect T17, that extends from the eastern river shore out to Boat Island, or to near the center of the river channel below Boat Island. Along a limited length of the western river shore, opposite the former MGP site, MGP residuals extended approximately 40 feet from the shore. The most commonly observed MGP residual was staining, which can be found in both silty and sandy soft sediments. Oil wetted and/or oil coated sediments were also observed in both silty and sandy soft sediments and were commonly found near the base of vibrocore samples collected from near the upland portion of the Site along the shoreline. MGP residuals do not appear to be preferentially associated with any particular grain-size of material or layer within the soft sediment. MGP residuals were not observed in the parent material beneath the soft sediment. MGP residuals were observed in both historic upland samples and river sediment cores, approximately 15 feet below the former shoreline excavation. For this reason, the dredging operations planned to take place this summer as part of the implementation of the Sheboygan River and Harbor Superfund Site PCB cleanup could encounter MGP residuals and cause a further release of these materials. The maximum PAH concentration within the NAPL area was 22,310 ppm which occurred at the base of T6A (6.3 - 7.4 feet). The Great Lakes National Program Office conducted a sampling effort during the summer of 2010 and found the following maximum PAH concentrations with visual observations of NAPL within the NAPL area in the Sheboygan River: sample SD-086 with PAH concentration of 7,690 ppm at the 7 ft-8 ft interval, SD-086 with maximum PAH concentration of 817 ppm at the 1 ft-3.5 ft interval, and SD-079 with maximum PAH concentration of 408 ppm at the 5 ft- 7 ft interval. Contact with the PAH NAPL material could pose a risk to waterfowl that may use, rest, or feed in the area. Other animals may also be exposed if using this water for drinking. Uptake to aquatic species is likely, but not quantified.

High levels of hazardous substances or pollutants or contaminants in soils at or near the surface that may migrate.

Analytical results from the Site RI documented the presence of high levels of hazardous substances in soils and sediment at or near the surface. PAHs were detected in

multiple samples in NAPL form. Additionally, dredging scheduled to take place this summer as part of the implementation of the Sheboygan River and Harbor Superfund Site PCB cleanup might cause migration of the NAPL material if not addressed adequately. NAPL may not be able to be adequately contained or controlled in a typical dredging scenario.

Weather conditions that may cause hazardous substances or pollutants or contaminants to migrate or be released.

This factor is present at the WPSC Camp Marina MGP Site river portion due to the presence of the PAH NAPL within the river sediment which could migrate or be released as a result of scour during a flood event.

IV. ENDANGERMENT DETERMINATION

Given the Site conditions, the nature of the known and suspected hazardous substances on Site, and the potential exposure pathways described in Sections II and III above, actual or threatened releases of hazardous substances from this Site, if not addressed by implementing the response actions selected in this Action Memorandum, may present an imminent and substantial endangerment to public health, welfare, or the environment.

V. PROPOSED ACTIONS AND ESTIMATED COSTS

A. Proposed Actions

1. Proposed action description:

The response actions described in this memorandum directly address actual or potential releases of hazardous substances on Site, which may pose an imminent and substantial endangerment to public health, or welfare, or the environment. Removal activities on Site will include:

a. Develop and implement a Site-specific Health and Safety Plan, including an Air Monitoring Plan; and a Site Emergency Contingency Plan;

b. Prepare a detailed work plan to accomplish the project in the most effective, efficient and safe manner;

c. Build sheet pile cofferdam to isolate the area of focused PAH NAPL removal (Figure A-5);

d. Wet excavate with a backhoe from a barge within the sheet pile cofferdam, then backfill;

e. Drill shafts followed by insertion of grouted steel piles to support the existing Waterloo wall; and

f. Excavate NAPL material in and under the shoreline, and reconstruction of the shoreline.

g. Transport off-site and dispose of all excavated soil and sediment at a RCRA/CERCLA approved disposal facility in accordance with the U.S. EPA off-site rule.

The removal actions will be conducted in a manner not inconsistent with the NCP. The threats posed by uncontrolled substances considered hazardous meet the criteria listed in NCP Section 300.415(b)(2), and the response actions proposed herein are consistent with any long-term remedial actions which may be required. The proposed removal of hazardous substances, pollutants and contaminants that pose a substantial threat of release is expected to minimize substantial requirements for post-removal Site controls.

Off-Site Rule

All hazardous substances, pollutants, or contaminants removed off-site pursuant to this removal action for treatment, storage, and disposal shall be treated, stored, or disposed of at a facility in compliance, as determined by U.S. EPA, with the U.S. EPA Off-Site Rule, 40 C.F.R. § 300.440.

2. Contribution to remedial performance:

The proposed removal action will contribute to the efficient performance of the long-term remedial action for the river portion of the WPSC Camp Marina MGP Site. A Record of Decision has not yet been written for the river portion of the Site, but would undoubtedly select the same actions for the removal of the NAPL material (e.g., excavation and off-site disposal) proposed in this Action Memo. The proposed time-critical removal action also will contribute to the efficient performance of the long-term remedial action for the Sheboygan River and Harbor Superfund Site by removing PAH NAPL material, that otherwise could be disturbed and released during the PCB dredging scheduled to take place during summer 2011.

The response actions described in this memorandum directly address the actual or threatened release of hazardous substances, pollutants, or contaminants at the Site which may pose an imminent and substantial endangerment to public health or welfare or to the environment. These response actions do not impose a burden on affected property disproportionate to the extent to which that property contributes to the conditions being addressed. The removal actions described in this Action Memo will be implemented by the WPSC Camp Marina MGP Site Responsible Party with oversight by the U. S. EPA.

3. Engineering Evaluation/Cost Analysis (EE/CA):

Not Applicable

4. Applicable or Relevant and Appropriate Requirements (ARARs):

All applicable or relevant and appropriate requirements (ARARs) of federal and State law will be complied with to the extent practicable. Any State ARARs identified in a timely manner will be complied with to the extent practicable. All hazardous substances, pollutants or contaminants removed off-site pursuant to this removal action for treatment, storage and disposal shall be treated, stored, or disposed at a facility in compliance, as determined by U.S. EPA, with the U.S. EPA Off-Site Rule, 40 C.F.R. § 300.440.

B. Estimated Costs

Not available, since this is an Enforcement Action Memorandum.

The response actions described in this memorandum directly address the actual or threatened release of hazardous substances, pollutants, or contaminants at the Site which may pose an imminent and substantial endangerment to public health or welfare or to the environment. These response actions do not impose a burden on affected property disproportionate to the extent to which that property contributes to the conditions being addressed. The removal actions described in this Action Memo will be implemented by the WPSC Camp Marina MGP Site Responsible Party with oversight of the U. S. EPA.

VI. EXPECTED CHANGE IN THE SITUATION SHOULD ACTION BE DELAYED OR NOT TAKEN

Given the Site conditions, the nature of the hazardous substances and pollutants or contaminants documented on Site, and the potential exposure pathways to nearby populations described in Section II, III, IV, and V above, actual or threatened releases of hazardous substances and pollutants or contaminants from this Site, if not addressed by implementing or delaying the response actions selected in this Action Memorandum, may present an imminent and substantial endangerment to public health, welfare, or the environment, increasing the potential that hazardous substances will be released, thereby threatening the environment and the health and welfare of nearby residents and other persons who are in proximity to the Site.

VII. OUTSTANDING POLICY ISSUES

None.

VIII. ENFORCEMENT

For administrative purposes, information concerning the enforcement strategy for this Site is contained in the Enforcement Confidential Addendum.

IX. RECOMMENDATION

This decision document represents the selected removal action for the WPSC Camp Marina MGP Site located in Sheboygan, Sheboygan County, Wisconsin. This document has been developed in accordance with CERCLA, as amended, and is not inconsistent with the NCP. This decision is based on the Administrative Record for the Site (see Attachment I). Conditions at the Site meet the NCP Section 300.415(b)(2) criteria for a removal and I recommend your approval of the proposed removal action. You may indicate your decision by signing below.

APPROVE: Richard C Karl DATE: 6-23-11
Director, Superfund Division

DISAPPROVE: _____ DATE:
Director, Superfund Division

Enforcement Addendum

Figures:

- A-1 Site Location Map
- A-2 Historical Site Layout Map
- A-3 1987 BBL Sediment Sample Locations
- A-4 Site 2008 RI Sediment Sampling Transect Locations
- A-5 Focused PAH NAPL Removal Area Showing Cofferdam Location

Tables:

- B-1 13 PAH List
- B-2 Visual Observation of MGP Residuals (PAH NAPL Extent)
- B-3 PAH Sediment Analytical Results

Attachments:

- I. Administrative Record Index
- II. Environmental Justice Analysis

cc: David Chung, U.S. EPA HQ 5202G
M. Chezik, U.S. Department of Interior, w/o Enf. Addendum
M. Giesfeldt, WDNR, w/o Enf. Addendum
R. Chronert, WDNR, w/o Enf. Addendum
WilliamFitzpatrick, WDNR, w/o Enf. Addendum

PAGE 16

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NOT RELEVANT TO THE SELECTION OF THE REMOVAL ACTION

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ENFORCEMENT ADDENDUM

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SOURCE: DIGITAL DOWNLOAD FROM http://STORE.USGS.GOV. USGS 7.5 MINUTE QUADRANGLE, SHEBOYGAN NORTH AND SOUTH DATED 1954. REVISED 1994.

FIGURE A-1 SITE LOCATION MAP

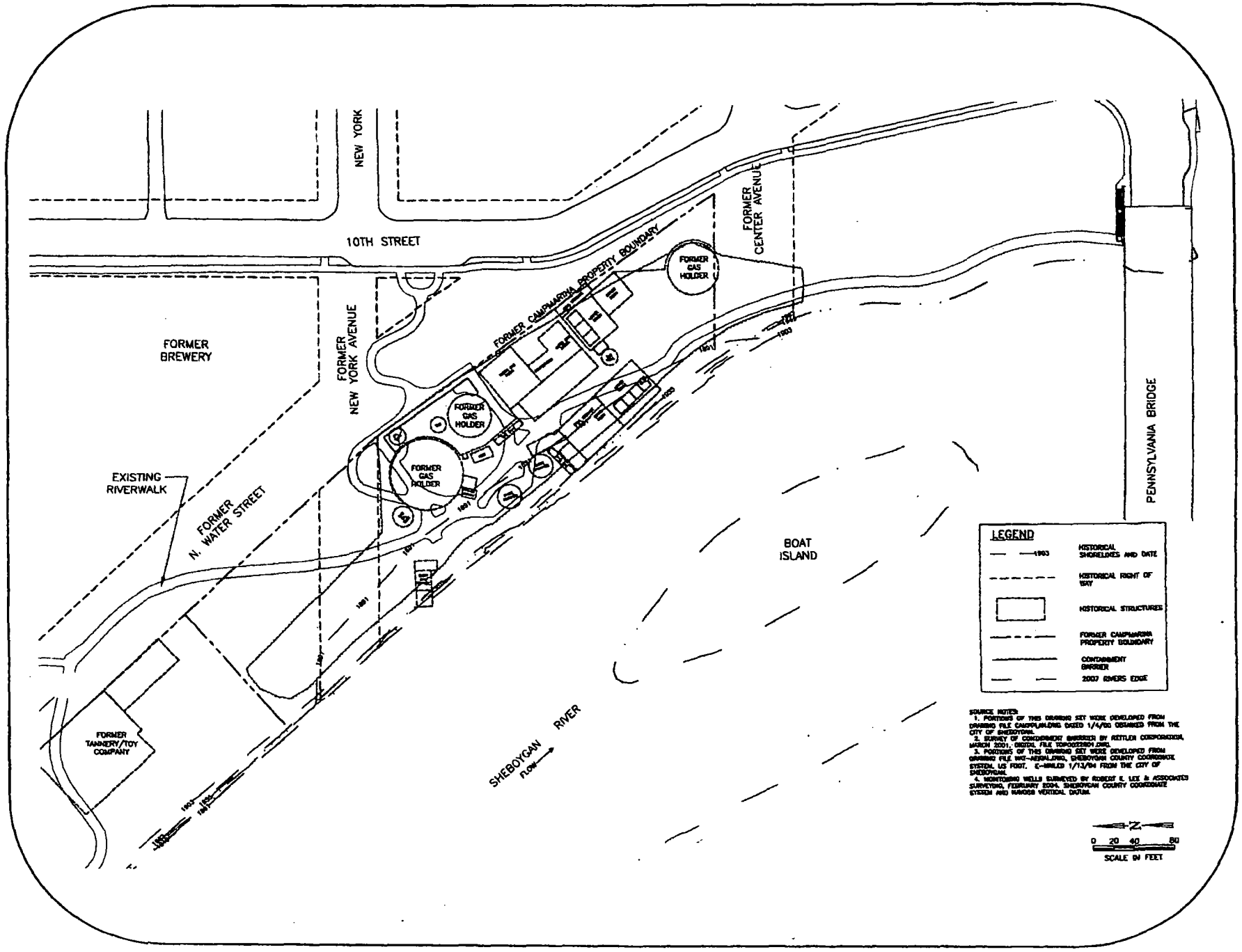


FIGURE A-2 HISTORICAL SITE LAYOUT MAP

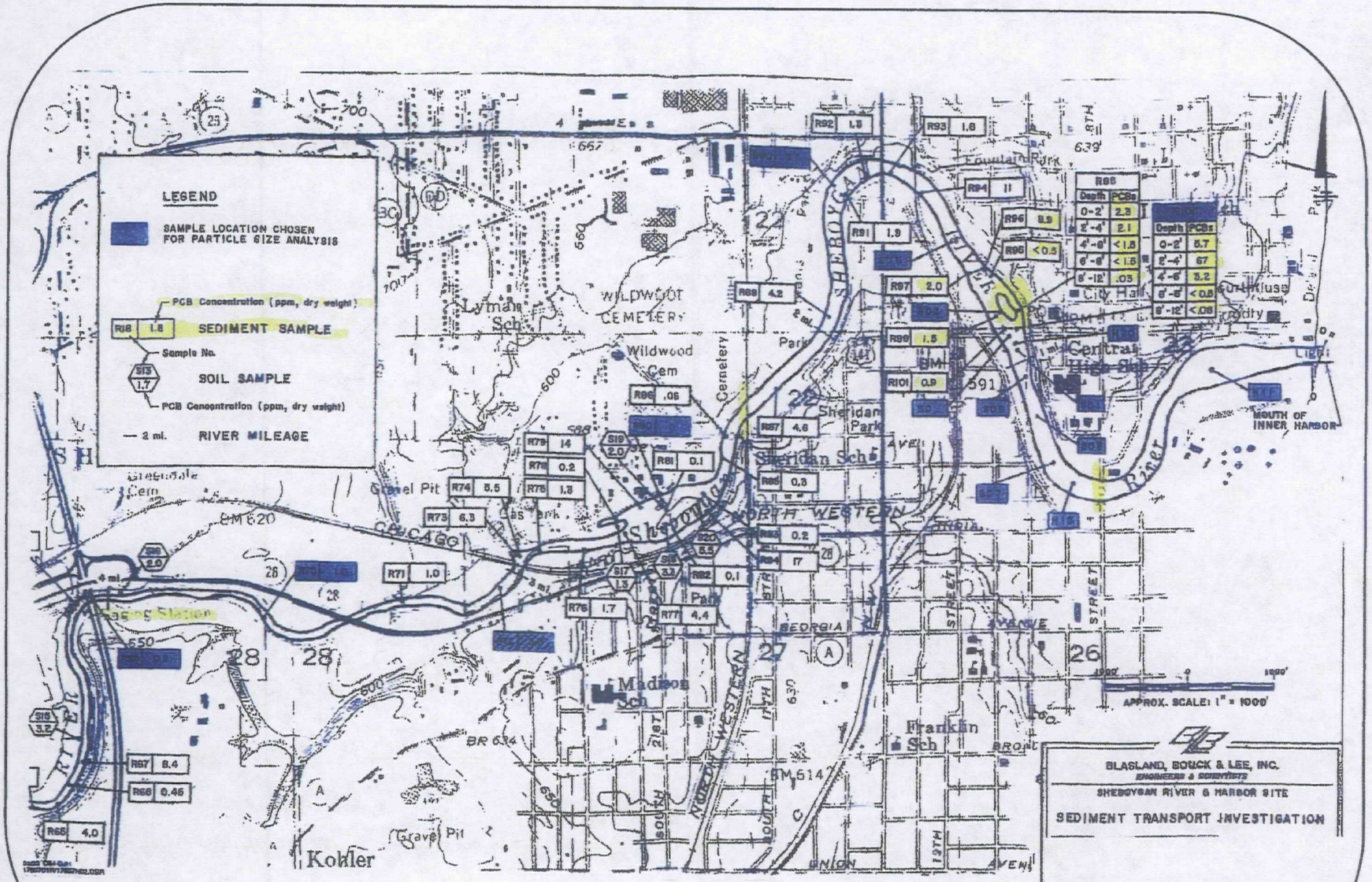


FIGURE A-3 1987 BBL SEDIMENT SAMPLE LOCATIONS

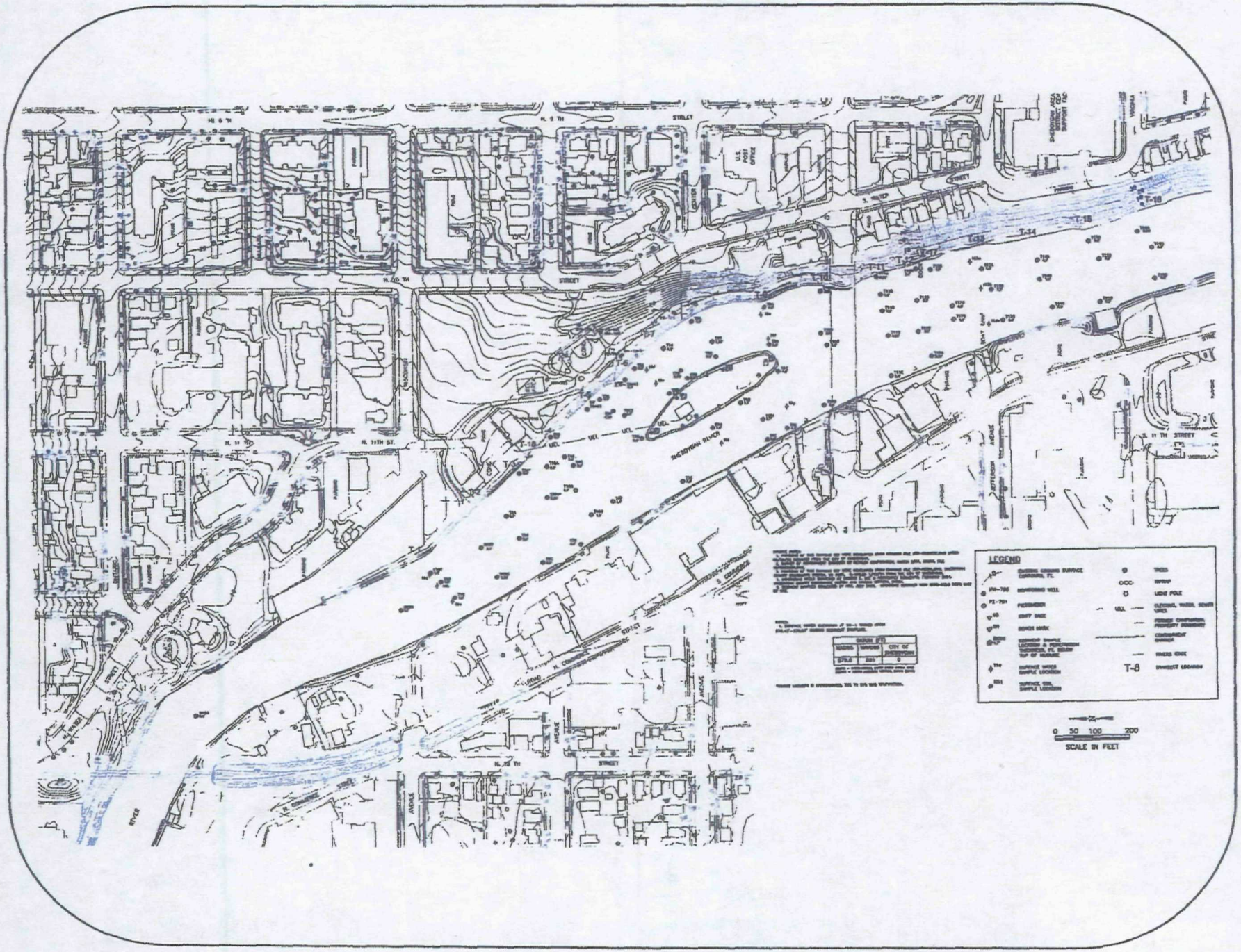


FIGURE A-4 SITE 2008 RI SEDIMENT SAMPLING TRANSECT LOCATIONS

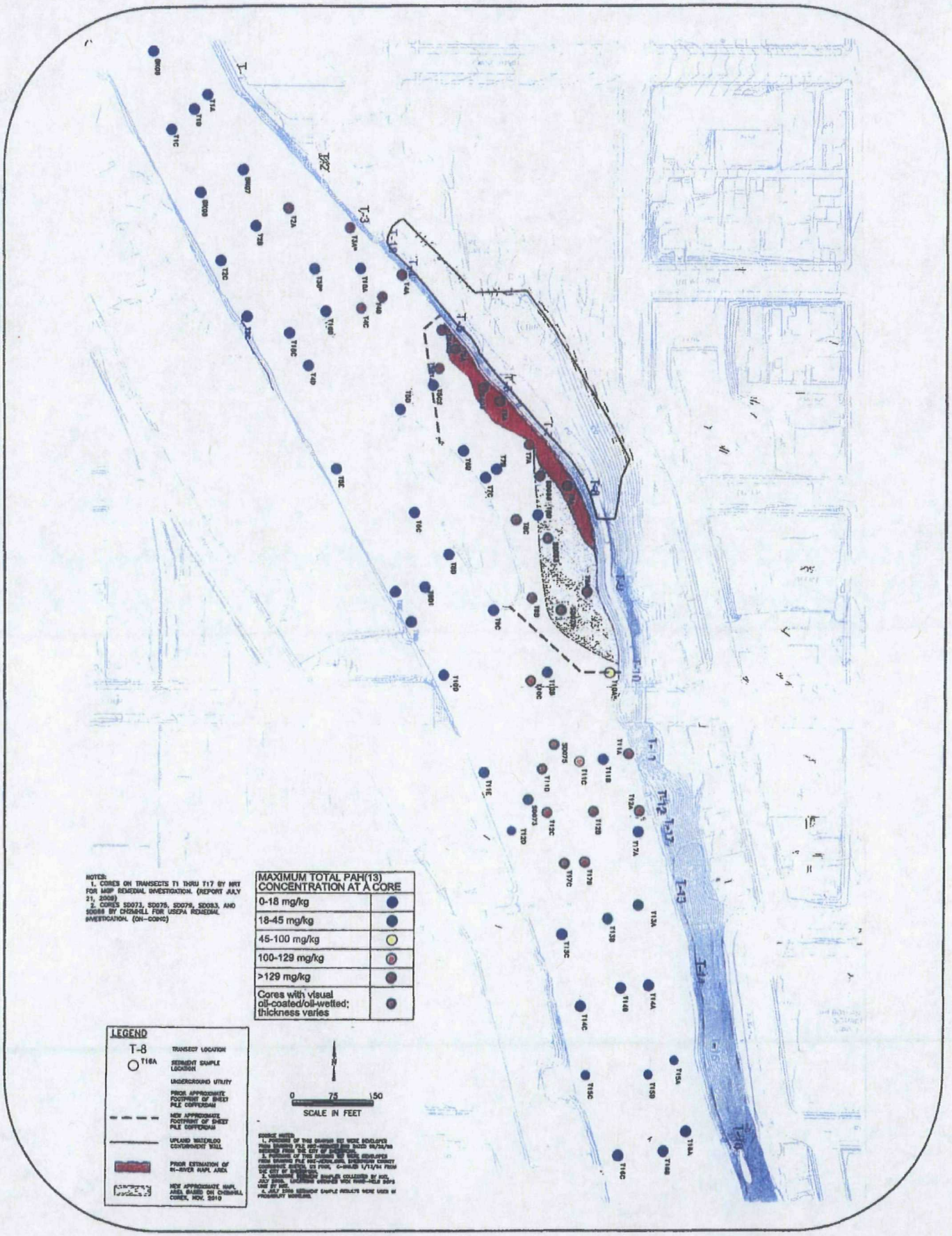


FIGURE A-5 FOCUSED PAH NAPL REMOVAL AREA SHOWING COFFERDAM LOCATION

TABLE B-1 13 PAH List

Acenaphtene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(b)fluoranthene
Benzo(k)floranthene
Benzo(a)pyrene
Chrysene
Fluoranthene
Fluorene
Naphthalene
Phenanthrene
Pyrene

Table B-2 VISUAL OBSERVATION OF MGP RESIDUALS (PAH NAPL EXTENT)

Location of Sample	Top Elevation of Core (NAVD 88)	Core Compaction Correction [1]	Corrected top of impacts in core[2] (feet)	Corrected Bottom of impacts in core[2] (feet)	Thickness of impacts (feet)	Bottom Elevation of Impacts (NAVD 88)	Residual Observed	Sediment Type
T10C	575.4	1.08	1.0	2.2	1.2	573.2	Staining	Fine
			2.9	3.0	0.1	572.4	Staining	Coarse
T11A	574.6	1.09	4.2	5.1	0.9	569.5	Staining	Fine
T11D	573.1	1.39	1.4	2.4	1.0	570.7	Staining	Fine
			2.4	3.1	0.6	570.1	Oil Coating	Coarse
			3.0	5.2	2.2	567.9	Staining	Fine
			5.2	5.9	0.7	567.2	Oil Coating	Coarse
T12B	572.6	1.11	3.2	3.3	0.2	569.3	Sheen	Fine
T12C	573.1	1.09	0.0	2.4	2.4	570.7	Staining	Fine
			2.4	3.1	0.7	570.1	Staining	Coarse
			3.1	4.1	1.0	569.0	Staining	Fine
			4.1	4.6	0.5	568.5	Staining	Coarse
			4.6	5.1	0.5	568.0	Staining	Fine
			5.1	5.8	0.7	567.3	Staining	Coarse
			5.8	6.6	0.8	566.6	Staining	Fine
T17B	572.9	1.04	2.3	2.8	0.5	570.2	Staining	Fine
T17C	573.1	1.07	6.4	6.5	0.1	566.6	Oil Coating	Coarse
T3A	575.4	1.23	0.0	7.9	7.9	567.5	Staining	Fine
T4A	576.4	1.11	3.0	7.9	4.9	568.5	Staining	Fine
			8.9	7.3	-1.6	569.1	Staining	Fine
T4B	574.8	–	3.6	4.0	0.4	570.8	Staining	Fine
			6.5	6.7	0.2	568.2	Staining	Fine
T4C	574.8	1.09	3.2	3.4	0.2	571.5	Staining	Fine
			5.6	6.7	1.1	568.1	Staining	Fine
T5A	575.6	1.32	1.8	7.1	5.3	568.5	Sheen	Fine
			4.6	4.8	0.2	570.7	Oil Coating	Fine
			7.1	7.8	0.7	567.8	Oil Coating	Coarse
T5B1	575.2	1.62	2.4	4.3	1.9	570.9	Staining	Fine
			5.2	6.9	1.7	568.3	Staining	Fine
T6A	574.1	1.14	2.0	7.4	5.4	566.7	Staining	Fine
			5.4	5.4	0.1	568.7	Oil Wetted	Fine
			6.5	6.8	0.4	567.3	Oil Wetted	Coarse
			6.8	7.4	0.6	566.7	Oil Wetted	Fine
T8A	574.4	1.08	1.9	5.9	4.0	568.5	Staining	Fine
			2.7	2.8	0.1	571.6	Oil Coating	Fine
			3.3	3.4	0.1	571.0	Oil Coating	Fine
			4.5	4.8	0.3	569.6	Oil Coating	Fine
			4.8	5.9	1.1	568.5	Oil Wetted	Fine
T8C	574.7	1.09	2.4	2.5	0.1	572.2	Staining	Fine
			4.5	5.2	0.7	569.5	Staining	Fine
			6.8	6.9	0.1	567.8	Staining	Fine
T8E	572.6	1.29	1.7	1.5	-0.1	571.1	Staining	Coarse
T9A	570.6	–	0.6	0.8	0.3	569.8	Staining	Fine
			1.4	1.5	0.1	569.1	Staining	Coarse
			2.6	2.7	0.1	568.0	Staining	Coarse
			3.2	3.4	0.3	567.2	Staining	Fine
T9B	576.7	1.08	1.6	3.7	2.1	573.0	Staining	Coarse
TB402	575.4	1.14	4.0	4.1	0.1	571.3	Staining	Fine
			5.9	6.5	0.6	568.9	Staining	Fine
TB403	573.7	1.08	0.0	8.8	8.8	565.0	Staining	Fine
			4.5	4.8	0.2	569.0	Oil Wetted	Fine
			7.7	7.8	0.2	565.9	Oil Wetted	Coarse
			8.2	8.4	0.2	565.4	Oil Wetted	Coarse
TB403P	574.6	–	8.3	10.3	2.0	564.3	Staining	Fine*

[O-BG/HC-RMW12/06]

Notes:

1: Core compaction correction was calculated in Table 4.

2: For fine-grained cores; the core correction factor was applied to the top and bottom depth of core impacts as described on the boring logs

3. Refer to SOP SAS-05-02, Attachment E for definition of residuals observed.

4 Elevations are North American Vertical Datum 1988 (NAVD88).

5. Refer to Appendix F for boring logs.

6: Boring logs (T14B, T18B, T4D, T5C2, and T7B) that identified possible staining with total PAH concentrations at or below 14 mg/kg were not included in this summary table.

* Staining was present in silt (soft sediment) that overlies clay parent material

Table B-3 PAH SEDIMENT ANALYTICAL RESULTS

1665 Wisconsin Public Service Corp., WPSC-CampMarina Sediment Remediation, Sheboygan, WI
732 Water Street, Sheboygan, Wisconsin
USEPA# : WIN000510058 **BRRTS# : 0260000095**

Sample ID	Depth	Collection Date	PAHs, Total	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)-anthracene	Benzo(a)-pyrene	Benzo(b)-fluoranthene	Benzo(g,h,i)-perylene	Benzo(k)-fluoranthene	Chrysene	Dibenzo(a,h)-anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naph-thalene	Phenanthrene	Pyrene
Sediment Screening Benchmarks																			
Benchmarks				396	385	57.2	108	150	768	882	791	166	33	423	77.4	689	176	204	195
BKG03																			
	0 - 0.5'	7/22/2008	183.1	< 3.1 U	< 2.2 U	14	< 3.3 U	13	16	13	< 3.8 U JC	13	< 2.5 U	52	< 2.1 U	13	< 1.7 U	14 JC	53
BKG09																			
	0 - 0.6'	7/22/2008	2008.2	13	< 2.4 U	60	190	200	180	120	160 JC	210	38	430	13	200	< 2 U	200	340
	0.6 - 2'	7/22/2008	13456	200	56	680	880	920	740	550	710 JC	930	160	2500	170	820	130	2200	2300
BKG07																			
	0 - 0.6'	7/22/2008	2211.7	18	< 3 U	35	200	670 JC	200	450	150	340	210	280	18	240 JC	< 2.4 U	170	370
	0.6 - 1.6'	7/22/2008	2288.1	22	17	69	190	190	180	140	150	230	48	530	20	180 JC	< 2.2 U	220	400
	1.6 - 2.5'	7/22/2008	1201.7	< 5.3 U	< 3.7 U	26	110	98 JC	110	100	100	150	60	240	< 3.5 U	100 JC	< 2.9 U	120	220
BKG08																			
	0 - 0.6'	7/21/2008	2492	41	45	84	200	170 JC	160	170	170	200	49 JC	440 JC	63	160 JC	48	280 JC	440 JC
	0.6 - 2'	7/21/2008	11868	78	150	420	1800 J	870 J,C	740 J	580 J	940 J	1100 J	160 J,C	2400 J	160	630 J,C	150	980 JC	2300 J
QC01																			
(7024)	3.2 - 4.5	7/21/2008	-	2800	870	6900	4800	3400 JC	2900	1900	2400	4100	370 JC	6800 JC	2700	1800 JC	280	12000 JC	10000 JC
QC02																			
(7132)	1.7 - 2.8'	7/22/2008	-	< 5.7 U	28	45	180	160 JC	210	150	150	200	49 JC	440	< 2.7 U	170 JC	< 3.1 U	170 JC	260
QC03																			
(7038)	0.5 - 1.5	7/23/2008	-	600	130	1900	1900	1300 JC	890	540	780	1800	160 JC	8400	870	740 JC	56	9600	7400
QC04																			
(7110)	0.5 - 1.6	7/23/2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC05																			
(7150)	1.7 - 2.8'	7/24/2008	-	230	28	78 JC	170	190	190	180 JC	170	280	36 JC	400	110 JC	170	45	280 JC	370
QC06																			
(7158)	6.1 - 7.2'	7/24/2008	-	310	68	180	290	270	210	190 JC	210	290	71 JC	570	170	260 JC	150	640	520
QC07																			
(7090)	0.5 - 1.6'	7/24/2008	-	< 12 U	< 8 U	62	120	120 JC	160	200 JC	130	200	< 9.2 U JC	350	75	170 JC	< 6.4 U	260	370
QC08																			
(7080)	2.4 - 4.1	7/25/2008	-	60000	7000	120000	69000	58000	19000	14000	22000	69000	2900 JC	160000	17000	15000 JC	49000	270000	120000
QC09					<														
(7042)	1.8 - 2.7'	7/26/2008	-	48000	3200	82000	21000 JC	14000 JC	8300	6800 JC	8800	20000	3200	45000 JC	37000 JC	8700 JC	20000	120000 JC	91000
QC10																			
(7100)	0.5 - 1.6'	7/25/2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC11																			
(7040)	0.6 - 1.7'	7/28/2008	-	56	120	140	260 JC	270	710 JC	620	490	580	120	960	78	670 JC	94	630	670
QC12																			
(7044)	0.6 - 1.7'	7/28/2008	-	3200	1100	2000	4100	4100 JC	2800	2800	3200	4200	690 JC	11000	3200	3100 JC	2400	16000	16000
QC13																			
(7148)	1.7 - 2.8'	7/29/2008	-	20	15 J	46	120	150	160	110	110 JC	170	31	300	26	150	18	150	240 JC
QC14																			
(7156)	1.5 - 2.5'	7/29/2008	-	270	140	410	810	810	630	410	610 JC	980	130	1900	200	630	170	1900	1900 JC

Table B-3 PAH SEDIMENT ANALYTICAL RESULTS (Continued)

1665 Wisconsin Public Service Corp., WPSC-CampMarina Sediment Remediation, Sheboygan, WI
732 Water Street, Sheboygan, Wisconsin
USEPA# : WIN000510058 **BRRTS# : 0260000095**

Sample ID	Depth	Collection Date	PAHs, Total	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)-anthracene	Benzo(a)-pyrene	Benzo(b)-fluoranthene	Benzo(g,h,i)-perylene	Benzo(k)-fluoranthene	Chrysene	Dibenzo(a,h)-anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naph-thalene	Phenanthrene	Pyrene
Sediment Screening Benchmarks																			
Benchmarks				336	385	57.2	108	150	788	652	791	166	33	423	77.4	599	176	204	195
QC15																			
(T748)	2.8 - 3.6'	7/29/2008	-	< 11 U	< 7.5 U	65	180	180 JC	210	160	180 JC	240	< 6.8 UJC	840	< 7.1 U	170	48	840	280
QC18																			
(T75C)	3.8 - 4.7'	7/29/2008	-	690	23 JC	820	130	100 JC	130 JC	83	80 JC	150	27 JC	420 JC	280 JC	68 JC	51 JC	670 JC	420 JC
QC17																			
(T764)	0.8 - 1.7'	7/30/2008	-	92	170	180	450	480 JC	700	460	380 JC	650	170 JC	820	110	560	210	810	832
QC18																			
(T748P)	17.2 - 18.2'	8/4/2008	-	16	< 2.6 U	10	22	< 3.8 U	< 3.1 U	19 U8	< 4.5 U	24	< 3 U	25	14	< 4.2 U	74	67	22
QC19																			
(T748SP)	10.8 - 12.6'	8/5/2008	-	8000	830	4600	2400	2600	1800	1000 JC	1800	2600	380	9300	8400	1300	7700	14000	9300
QC20																			
(T748P)	11 - 13'	8/5/2008	-	44	< 2.6 U	36	61	71 JC	68 JC	54	63	100	< 3 U	190	28	58	46	160	180
QC21																			
(T75C)	0.7 - 2'	7/28/2008	-	57	< 8.4 U	720 JC	230	280 JC	290	160	180	280	48 JC	500	55	200 JC	40	280	440
T01A																			
	0 - 0.5'	7/21/2008	6086	210	88	280	640	670 JC	630	480	500	880	180	1500	340	610 JC	420	840	1350
	0.5 - 1.5'	7/21/2008	3173.05	78	< 2.3 U	110	210	220 JC	180	180	180	280	62	850	58	170 JC	< 1.8 U	540	650
T01B																			
	0 - 0.5'	7/21/2008	100.9	< 3.1 U	< 2.2 U	< 2.6 U	12	14 JC	18	18	15	19	< 2.6 U	50	< 2 U	15 JC	< 1.7 U	21	39
	0.5 - 1'	7/21/2008	10968.15	54	< 2.4 U	190	780	840 JC	1000	650	570	1100	180	2800	82	620 JC	< 1.9 U	1800	2000
T01C																			
	0 - 0.5'	7/21/2008	2250	16	15	51	200	210	190	170	180	250	58	680	31	210 JC	27	220	420
	0.5 - 1'	7/21/2008	61.3	< 3.8 U	< 2.8 U	< 3.4 U	< 3.8 U	< 3.8 UJC	< 3.1 U	< 3.5 U	< 4.6 U	< 3.1 U	< 3 U	24	< 2.5 U	< 4.2 UJC	< 2.1 U	< 1.6 U	20
T02A																			
	0 - 0.5'	7/21/2008	2244.9	75	< 12 U	170	190	120 JC	110	69	110	160	< 14 UJC	410	69	86 JC	< 6.8 U	450 JC	350
	0.5 - 1.0'	7/21/2008	3026.5	100	< 14 U	130	280	150 JC	170	130	190	240	< 16 UJC	570	76	130 JC	< 11 U	390 JC	550
	1.0 - 3.2'	7/21/2008	331080	16000	2000	24000	43000	16000 JC	9300	6000	12000	16000	1900 JC	53000 JC	16000	8100 JC	780	71000 JC	60000 JC
	3.2 - 4.5'	7/21/2008	73810	3300	1100	7100	8900	4400 JC	2700	2000	2700	5300	640 JC	10000 JC	3300	2400 JC	410	15000 JC	12000 JC
	4.5 - 6.0'	7/21/2008	408.55	28 B	< 2.6 UB	27 B	38 B	28 JC,B	17 B	13 B	25 B	36 B	< 3 UJC,B	58 B	< 2.5 UB	19 JC,B	14 B	68 JC,B	71 B
T02B																			
	0 - 0.5'	7/22/2008	2988	27	23	92	270	280	260	200	250 JC	310	88	810	37	300	33	320	640
	0.8 - 2.3'	7/22/2008	246.6	< 5.1 U	< 3.5 U	< 4.8 U	25	32	30	27	< 6.2 UJC	18	21	57	< 3.4 U	33	< 2.8 U	18	59
	2.3 - 3.9'	7/22/2008	17.45	< 3.3 U	< 2.3 U	< 2.6 U	< 3.4 U	< 3.3 U	< 2.7 U	< 3 U	< 3.8 UJC	< 2.7 U	< 2.8 U	< 2.8 U	< 2.1 U	< 3.6 U	< 1.8 U	< 1.6 U	< 2.2 U
T02C																			
	0 - 0.5'	7/21/2008	10585	87	160	810	1100	1200 JC	720	650	670	1200	280	1800	120	700 JC	39	1100	2000
	0.5 - 1.5'	7/21/2008	4517	52	58	130	280	440 JC	430	330	270	600	110	950	56	360 JC	61	840	780
	1.5 - 2.5'	7/21/2008	6072	56	50	180	500	660 JC	520	400	360	810	140	1300	65	480 JC	61	890	1200
	2.5 - 3.5'	7/21/2008	2765	23	30	90	240	280 JC	290	230	190	340	78	480	21	260 JC	31	280	480
	3.5 - 4.5'	7/21/2008	1310.95	< 4.1 U	15	41	160	120 JC	83	78	97	140	16 JC	250 JC	< 2.7 U	94 JC	< 2.3 U	170 JC	240 JC
	4.5 - 5.5'	7/21/2008	429	< 80 U	< 66 U	< 72 U	< 83 U	< 80 UJC	< 65 U	< 76 U	< 97 U	< 66 U	< 64 UJC	< 69 U	< 52 U	< 88 UJC	< 44 U	< 33 UJC	< 55 U

Table B-3 PAH SEDIMENT ANALYTICAL RESULTS (Continued)

1665 Wisconsin Public Service Corp., WPSC-CampMarina Sediment Remediation, Sheboygan, WI
732 Water Street, Sheboygan, Wisconsin
USEPA# : WIN000510058 **BRRTS# : 0260000095**

Sample ID	*Depth*	*Collection Date*	*PAHs, Total*	*Acenaphthene*	*Acenaphthylene*	*Anthracene*	*Benzo(a)-anthracene*	*Benzo(a)-pyrene*	*Benzo(b)-fluoranthene*	*Benzo(g,h,i)-pyrene*	*Benzo(k)-fluoranthene*	*Chrysene*	*Dibenzo(a,h)-anthracene*	*Fluoranthene*	*Fluorene*	*Indeno (1,2,3-cd) pyrene*	*Naph-thalene*	*Phenanthrene*	*Pyrene*
									Sediment Screening Benchmarks										
Benchmarks				336	265	57.2	108	150	783	862	791	166	33	423	77.4	699	176	204	195
T03A																			
	0 - 0.6'	7/23/2008	3393	38	69	120	200	320	370	290 JC	210	280	84 JC	590	58	320 JC	46	340	590
	0.6 - 1.6'	7/23/2008	16200	1700	250	710	1300	1100	970	920 JC	970	1200	210 JC	2400	710	860 JC	490	1850	2200
	1.6 - 3.1'	7/23/2008	78150	13000	480	4400	8400	8200	1800	1100 JC	1700	2700	240 JC	6800	6800 JC	1600 JC	19000	13000 JC	6300
	3.1 - 4.3'	7/23/2008	229400	24000	1600	25000	10000	6700 JC	8100	3300	6000 JC	8400	970 JC	23000	17000	2700 JC	7900	68000	27000
	4.3 - 5.5'	7/23/2008	120240	20000	1900	3800	8900	7800 JC	6300	2600	4800 JC	6500	940 JC	24000	7000	1500 JC	840	8400	20000
	5.5 - 6.8'	7/23/2008	101280	8100	930	6400	7400	6300	2800 JC	3100	6800	8600	880 JC	17000	1800 JC	2700 JC	770	18000 JC	22000
	6.8 - 7.6'	7/23/2008	200300	17000	4100	20000	12000	13000	6900 JC	7200	7000	15000	2000 JC	22000	9800 JC	7000 JC	4700	51000	18000
T03B																			
	0 - 0.5'	7/23/2008	28159	430	32	1600	3100	2000 JC	2800	2200	3100	2800	690 JC	8300	680	2200	37	8300	8200
	0.5 - 1.5'	7/23/2008	12368	420	110	1400	850	800 JC	430	260	400	890	78 JC	1900	440	330 JC	38	2600 JC	2000
	1.5 - 2.3'	7/23/2008	32020	1800	360	2700	2900 JC	2100 JC	1300	1000	1200 JC	2400 JC	200 JC	2800	2000	1200	140	6800	6700
T03C																			
	0 - 0.5'	7/23/2008	15070	130	270	840	1900	1400 JC	880	890	1000	1400	190 JC	2000	230	890 JC	110	1200 JC	2400
	0.5 - 1.5'	7/23/2008	17452	370	160	710	980 JC	780 JC	580	480	800 JC	870 JC	170 JC	2300	200	840	82	1700 JC	2000
	1.5 - 2.5'	7/23/2008	4815	150	55	260	410 JC	400 JC	340	260	300 JC	440 JC	86 JC	830	91	350	78	850 JC	810
	2.5 - 3.5'	7/23/2008	434.45	21	< 2.5 U	17	44 JC	32 JC	34	25	21 JC	47 JC	13 JC	75	< 2.4 U	28	< 2 U	30 JC	110
	3.5 - 4.4'	7/23/2008	1138.65	< 3.3 U	11 J	48	130 JC	120 JC	80	70	110 JC	120 JC	23 JC	250	< 2.2 U	110	< 1.8 U	70 JC	200
T04A																			
	0 - 0.8'	7/28/2008	5818	160	140	190	820	830 JC	560	400	500	690	120 JC	1300	60	810 JC	66	440	1000
	0.8 - 1.7'	7/28/2008	100200	3700	1200	4900	7100	6700 JC	5100	4000	3900	7100	1100 JC	17000	2700	4400	2900	21000	17000
	1.7 - 2.8'	7/28/2008	150700	4900	1500	6900	8400	8700 JC	6400	6400	6900 JC	11000	1600 JC	31000	3400	6900	2200	31000	25000
	2.8 - 3.6'	7/28/2008	283900	16000 JC	1900 JC	68000	10000	9200 JC	2600 JC	2900	4400 JC	9800	930 JC	30000	28000 JC	2900 JC	44000 JC	68000	38000
	3.8 - 5.0'	7/28/2008	578400	100000	8500 JC	63000	28000	18000 JC	11000	7900	29000 JC	23000	1400 JC	63000	68000 JC	10000 JC	250000 JC	200000	63000
	5 - 6.1'	7/28/2008	333000	29000	1800	12000	10000	6800	6000	2700 JC	4300	8200	670 JC	24000	28000	2700 JC	100000	59000	24000
	6.1 - 7.2'	7/28/2008	4731000	690000	34000	210000	180000	140000	91000	64000	88000	160000	22000 JC	440000	290000	72000	1000000	600000	420000
	7.2 - 8.3'	7/28/2008	249400	31000	2200	20000	11000	9000 JC	6200	3600	8000	10000	1100 JC	28000	16000	6000 JC	94000	58000	22000
	8.3 - 9.8'	7/28/2008	53580	4400	980	1900	4900	3900 JC	2300	1800	2500	4200	660 JC	9800	3400	2300 JC	1100	8700	12000
T04B																			
	0 - 0.5'	7/28/2008	3368	220	28	230 JC	340	240	230 JC	190	150	340	41	690	190	190 JC	61	730	800
	0.5 - 1.5'	7/28/2008	30014	87	< 6.8 U	160	280 JC	220	230 JC	160	170	270	< 7.9 U	570	88	190 JC	56	490	470
	1.5 - 2.5'	7/28/2008	30870	1800	230	2900	2700 JC	1400	1100 JC	710	890	2000	220	2800	1200	840 JC	180	6000	4800
	2.5 - 3.5'	7/28/2008	27880	6000	130	3200	1400 JC	1100	900 JC	740	780	1400	170	3900	1700	760 JC	330	4800	3400
	3.5 - 4.5'	7/28/2008	44720	7800	300	3700	2200 JC	2000	1400 JC	1000	1400	2000	280	4800	2800	1200 JC	880	10000	6900
	4.5 - 5.6'	7/28/2008	12357	1200	77	1800	880 JC	680	310 JC	280	330	570	58	1400	980	310 JC	150	3100	1700
	5.6 - 6.5'	7/28/2008	37980	8800	260	4800	2200 JC	1700	1100 JC	870	1100	2200	190	4000	2300	930 JC	430	8400	6900
	6.5 - 7.5'	7/28/2008	1638000	120000	13000	180000 JC	69000 JC	61000 JC	29000 JC	28000	49000	62000	10000	210000	97000	29000 JC	21000	480000	260000

Table B-3 PAH SEDIMENT ANALYTICAL RESULTS (Continued)

1665 Wisconsin Public Service Corp., WPSC-CampMarina Sediment Remediation, Sheboygan, WI
732 Water Street, Sheboygan, Wisconsin
USEPA# : WIN000510058 **BRRTS# : 0260000095**

Sample ID	Depth	Collection Date	PAHs, Total	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)-anthracene	Benzo(a)-pyrene	Benzo(b)-fluoranthene	Benzo(g,h,i)-perylene	Benzo(k)-fluoranthene	Chrysene	Dibenzo(a,h)-anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naph-thalene	Phenanthrene	Pyrene
Sediment Screening Benchmarks																			
Benchmarks				336	306	57.2	166	150	763	662	781	166	33	423	77.4	599	176	204	195
T04BP																			
	7.5 - 9'	8/5/2008	1244.2	150	< 2.4 U	87	84	46 JC	29 JC	25	30	60	< 2.8 U	140	84	24	84	230	150
	9 - 11	8/5/2008	17780	470	240	830	1800	1400 JC	840 JC	710	880	1800	170	2600	480	830	180	1800	4100
	11 13'	8/5/2008	418.25	21	< 2.5 U	21	32	24 JC	19 JC	24	15	36	< 2.8 U	61	13	15	40	78	58
	13 - 15'	8/5/2008	86.65	< 3.6 U	< 2.5 U	< 3.2 U	13	< 3.8 UJC	< 3 UJC	14	< 4.4 U	< 3 U	< 2.9 U	< 3.1 U	< 2.6 U	< 4 U	33	25	< 2.5 U
	15 - 17'	8/5/2008	675.2	30	< 2.4 U	44	43	35 JC	32 JC	< 3.3 UJC	30	58	< 2.8 UJC	110	25	20 JC	29	140	97
	17 - 19'	8/5/2008	2814	88	27	220	190	140 JC	120 JC	67	110	210	15	400	85	84	44	560	410
	19 - 20'	8/5/2008	1772	110	17	120	110	80 JC	80 JC	65	77	110	14	260	65	70	28	420	250
T04C																			
	0 - 0.5'	7/25/2008	1031.15	29	< 2.4 U	33	110	85	83	56 JC	100	220	18 JC	130	15	82 JC	< 1.9 U	87	130
	0.5 - 1.5'	7/25/2008	1158	49	22	84	81	68	62 JC	55	55	84	19	180	36	47	15	240	160
	1.5 - 2.7'	7/25/2008	13300	1500	110	1100	870	480	350 JC	240	300	840	91	1400	780	260	100	4700 JC	1800
	2.7 - 3.5'	7/25/2008	98330	8700 JC	840 JC	8900	4800	3700 JC	2400 JC	1800	2400 JC	6100	520 JC	11000	7200 JC	2600 JC	2000 JC	37000 JC	14000
	3.5 - 4.5'	7/25/2008	8056	710	48	830	710	550	150	130 JC	180	310	71 JC	700	260	200 JC	180	1400	870
	4.9 - 6'	7/25/2008	228500	34000 J	2200 J	20000	13000	12000	6900 JC	6500	6300	14000	1300	28000	12000 J	6000	2000	67000 JC	23000
	6 - 7.1'	7/25/2008	22410	2900	280	2200	1200	1100	660 JC	520	780	1300	190	2900	1200	560	780	6300 JC	2900
	7.1 - 8.2'	7/25/2008	1847	140	15	88	120	110	71	68 JC	77	130	17 JC	260	62	78 JC	18	200	480
T04D																			
	0 - 0.5'	7/26/2008	2937.5	36 J-	< 7.2 U	120	280	240 JC	300	170	220 JC	290	48 JC	880	46	220	< 5.8 U	330	820
	0.5 - 1.4'	7/26/2008	36.8	< 3.2 U	< 2.2 U	< 2.9 U	< 3.3 U	< 3.2 UJC	< 2.7 U	< 3 U	< 3.8 U	< 2.7 U	< 2.5 U	11 J-	< 2.1 U	< 3.5 UJC	< 1.8 U	< 1.8 U	11 J-
T05A																			
	0 0.7'	7/23/2008	8271	84	180	180	740	670	810	860 JC	690	840	170 JC	1400	77	880 JC	110	520	1200
	0.7 - 2'	7/23/2008	35310	880	240	1200	1100	870	1000	880 JC	1000	1400	200 JC	2600	530	1100 JC	880	17000 JC	2000
	2 - 3.3'	7/23/2008	30140	4100	440	1100	1900	1600	1300	1100 JC	1600	1800	300 JC	4900	1800	1400 JC	1700	8900 JC	3700
	3.3 - 4.6	7/23/2008	1883000	420000	11000	150000 JC	84000 JC	86000 JC	35000	28000 JC	30000	89000	6800 JC	130000	100000	33000 JC	870000	360000 JC	140000
	4.6 - 5.9'	7/23/2008	2441000	330000	18000	180000 JC	81000	69000	34000	24000 JC	42000	67000	7800 JC	128000	120000	28000 JC	880000	350000 JC	190000
	5.8 - 7.2'	7/23/2008	1248500	170000	6500	92000 JC	28000 JC	22000 JC	10000	13000 JC	13000	37000	2600 JC	74000	73000	18000 JC	470000	240000 JC	92000
	7.2 - 7.8'	7/23/2008	262800	28000	2100	24000 JC	11000 JC	8900 JC	4900 JC	3600 JC	6000	10000	1200 JC	20000	10000	3500 JC	29000	69000 JC	24000
T05B1																			
	0 - 0.8'	7/25/2008	23833	490 JQ	27	780 JQ	2000 JQ	2300	2100 JQ	1700 JQ	1600 JQ	2400	280 JC	4700	310 JQ	2000 JC-Q	86	2100	3800
	0.8 - 2.4'	7/25/2008	4235	590	72	180	280	220	250	240	270	360	68 JC	820	220	250 JC	73	580	530
	2.4 - 4.1'	7/25/2008	3338000	380000	12000	270000	150000	110000	62000	43000	72000	150000	14000 JC	210000	280000	49000 JC	180000	660000	420000
	4.1 - 5.7'	7/25/2008	105170	12000	870	11000	8800	6400	4700	3900	5000	8700	780 JC	9500	6800	1900 JC	7600	36000	12000
	5.7 - 6.9'	7/25/2008	684300	88000	4300	71000	34000	31000	18000	13000	20000	34000	3500 JC	74000	49000	19000 JC	20000	170000	100000
T05BP																			
	7.2 - 9.2'	8/4/2008	13126	2200	89	890	670	440	320	260 UJ	280	780	67	2000	520	310	280	2300	2300
	9.2 - 11.2'	8/4/2008	35460	2800	410	1800	1800	2000 JC	2300	1900	2400	2700	580	8600	880	2300	280	7200	8400
	13.2 - 15.2'	8/4/2008	7013	840	32	620	480	410	280	270 UJ	280	470	83	910	310	300	240	1800	940
	15.2 - 17.2'	8/4/2008	98.7	< 3.4 U	< 2.4 U	< 3.1 U	< 3.6 U	< 3.4 U	< 2.6 U	< 3.2 U	< 4.2 U	< 2.8 U	< 2.7 U	< 3 U	< 2.3 U	< 3.8 U	13	27	< 2.4 U
	17.2 - 18.2'	8/4/2008	207	23	< 2.5 U	13	< 3.8 U	< 3.7 U	< 3.1 U	18 UJ	< 4.6 U	18	< 2.9 U	28	< 2.4 U	< 4.1 U	52	40	25

Table B-3 PAH SEDIMENT ANALYTICAL RESULTS (Continued)

1665 Wisconsin Public Service Corp., WPSC-CampMarina Sediment Remediation, Sheboygan, WI
732 Water Street, Sheboygan, Wisconsin
USEPA# : WIN000510058 **BRRTS# : 0260000095**

Sample ID	Depth	Collection Date	PAHs, Total	Acenaphthene	Acenaph-thylene	Anthracene	Benzo(a)-anthracene	Benzo(a)-pyrene	Benzo(b)-fluoranthene	Benzo(g,h,i)-pyrene	Benzo(k)-fluoranthene	Chrysene	Dibenzo(a,h)-anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naph-thalene	Phenanthrene	Pyrene
Sediment Screening Benchmarks																			
Benchmarks				396	385	57.2	108	150	788	882	791	166	33	423	77.4	689	176	204	195
T05C2																			
	0 - 0.7'	7/24/2008	601.85	14	18	23	59 JC	54	51 JC	44	38	55	< 2.5 U	110	< 2 U	36 JC	< 1.7 U	68	110
	0.7 - 2.1'	7/24/2008	1713.45	36	< 2.9 U	42	140 JC	130	130 JC	120	130	180	32	330	36	110 JC	28	240	280
T05D																			
	0 - 0.6'	7/24/2008	141.55	< 3.3 U	< 2.3 U	< 2.9 U	19 JC	17	< 2.7 UJC	15	< 4 U	13	< 2.6 U	36	< 2.1 U	< 2.8 UJC	< 1.8 U	12	36
T05E																			
	0 - 0.6'	7/24/2008	1178.1	< 8.3 U	< 5.8 U	32	110	100 JC	120	130 JC	84	140	46 JC	240	< 5.5 U	130 JC	< 4.6 U	140	190
	0.6 - 1.7'	7/24/2008	1765.45	< 11 U	< 7.9 U	48	180	140 JC	190	180 JC	130	230	68 JC	310	45	220 JC	62	310	280
	1.7 - 2.6'	7/24/2008	2803.3	< 8.7 U	< 6.7 U	85	220	190 JC	250	200 JC	180	280	46 JC	540	38	190 JC	42	310	420
	2.6 - 4'	7/24/2008	22830	360	210	1800	2400 JC	1900	1200 JC	1100	1200	2200	270	2300	260	1100 JC	180	2100	4300
	4 - 5.1'	7/24/2008	6946	810	37	870	320 JC	370	140 JC	110	140	280	21	930	290	110 JC	19	2100	1100
T06A																			
	0 - 0.6'	7/30/2008	5220	61	130	130 JC	490	640 JC	600	450	380	460	130 JC	830	83	500 JC	110	460	780
	0.6 - 1.7'	7/30/2008	7270	170	420	210 JC	680	1000 JC	940	770	560	680	210 JC	840	160	1000 JC	280	830	800
	1.7 - 2.6'	7/30/2008	36740	8100	300	1100 JC	780	720 JC	670	490	580	700	140 JC	1900	3100	640 JC	18000	6100	1900
	2.6 - 4'	7/30/2008	5612000	870000	48000	390000	120000	83000	68000	42000 JC	77000	120000	16000 JC	270000	280000	87000 JC	1200000	780000 JC	660000
	4 - 5.1'	7/30/2008	1873400	2400 B	12000	120000	44000	32000 JC	19000	15000	27000 JC	29000	< 630 UJC	130000	120000	30000 JC	870000	290000	130000
	5.1 - 6.2'	7/30/2008	12557000	1800000	87000	940000	330000	250000 JC	190000	100000	260000 JC	280000	34000 JC	670000	740000	180000 JC	6200000	2100000	740000
	6.2 - 7.4'	7/30/2008	22310000	2800000	170000	3400000	880000	510000 JC	190000	110000	370000 JC	420000	30000 JC	870000	1900000	180000 JC	21100000	3700000	1100000
T06B																			
	0 - 0.6'	7/28/2008	326.75	< 3 U	< 2.1 U	< 2.7 U	29	27 JC	36	26	28	37	< 2.4 U	80	< 2 U	38 JC	< 1.7 U	28	59
	0.6 - 1.5'	7/28/2008	320.15	< 3.3 U	< 2.2 U	< 2.9 U	28 JC	28	33 JC,Q	26 JQ	21	35 JQ	< 2.6 U	74 JQ	< 2.1 U	21 JC,Q	< 1.8 U	33	61 JQ
	1.6 - 2.3'	7/28/2008	1475	42	23	56	100	84 JC	110	94	99	130	32	300	44	110 JC	27	200	280
T06C																			
	0 - 0.5'	7/25/2008	409.95	< 3.1 U	< 2.1 U	< 2.8 U	36	32 A	35 JC	33	30	42	< 2.4 U	100	< 2 U	29	< 1.7 U	44	85
	0.5 - 1.6'	7/28/2008	49.25	< 3.1 U	< 2.1 U	< 2.9 U	< 3.2 U	< 2.1 UJ,L	< 2.8 UJC	< 2.9 U	< 3.8 U	< 2.8 U	< 2.5 U	14	< 2 U	< 3.4 U	< 1.7 U	< 1.5 U	12
T07A																			
	0 - 0.6'	7/30/2008	3346.95	< 9.8 U	68	83 JC	280	400 JC	390	280	250	280	89 JC	630	38	360 JC	41	310	500
	0.9 - 2.6'	7/30/2008	3647	81	61	68 JC	270	400 JC	370	280	270	270	110 JC	660	58	350 JC	40	410	650
	2.6 - 4.4'	7/30/2008	8678	110	130	280	740	780 JC	1100	670	630 JC	680	170 JC	2000	110	800 JC	98	1200	1500
	4.4 - 6.2'	7/30/2008	143340	2800	240	6200 JC	10000	8100	6100	4900	6700	12000	1900 JC	27000	4200	6900 JC	1900	24000 JC	21000
	6.2 - 7.2'	7/30/2008	38900	1000	190	810 JC	2700	2800 JC	2800	1800	2200	2800	690 JC	7700	810	2800 JC	290	7600	8800
T07B																			
	0 - 0.5'	7/28/2008	270.25	17	< 2.1 U	< 2.7 U	24	15 JC	27	23	15	25	< 2.4 U	63	< 2 U	21 JC	< 1.7 U	28	49
	0.5 - 1.5'	7/28/2008	2388	27	24	78	220	210 JC	250	170	170	280	62	600	32	250 JC	17	200	600
	1.5 - 2.5'	7/28/2008	2808	640	22	120	110 JC	92	110 JC	82	77	140	20	280	310	83 JC	87	640	280
	2.5 - 3.6'	7/28/2008	17288	4900	98	1200	950 JC	850	300 JC	420	490	810	88	1200	1800	470 JC	810	2800	1800

Table B-3 PAH SEDIMENT ANALYTICAL RESULTS (Continued)

1665 Wisconsin Public Service Corp., WPSC-CampMarina Sediment Remediation, Sheboygan, WI
732 Water Street, Sheboygan, Wisconsin
USEPA# : WIN000510058 **BRRTS# : 0260000095**

Sample ID	Depth	Collection Date	PAHs, Total	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
Sediment Screening Benchmarks																			
Benchmarks				396	365	57.2	108	150	788	882	791	166	33	423	77.4	823	176	204	195
T07BP																			
	3.6 - 5.6	8/5/2008	2305	200	24	330	170	69	57	39 UB	55	110	< 2.6 U	280	130	41 UB	190	450	370
	5.6 - 7.6'	8/5/2008	19250	1600	100	1400	1100	1000	820	650	770	1100	110	3700	720	830	340	4900	2000
	7.6 - 9.6	8/5/2008	365.5	28	< 2.5 U	29	21	15	14	18 UB	< 4.5 U	21	< 2.9 U	48	17	13 UB	46	68	36
	9.6 - 11.6'	8/5/2008	63.25	< 3.8 U	< 2.6 U	< 3.4 U	< 3.9 U	< 3.9 U	< 3.1 U	< 3.5 U	< 4.6 U	< 3.1 U	< 3 U	< 3.3 U	< 2.5 U	< 4.2 U	44	< 1.6 U	< 2.6 U
	11.6 - 13.6'	8/5/2008	600	39	14	84	76	50	42	31 UB	41	78	< 2.9 U	110	27	39 UB	29	140	87
	13.6 - 15.6'	8/5/2008	143.45	< 4.2 U	< 2.9 U	< 3.8 U	< 4.4 U	< 4.2 U	< 3.5 U	< 3.9 U	< 5.1 U	< 3.5 U	< 3.4 U	< 3.8 U	< 2.8 U	< 4.7 U	100	25	< 2.9 U
	15.6 - 16.6'	8/5/2008	184.75	< 3.7 U	< 2.8 U	< 3.3 U	< 3.9 U	13	< 3.1 U	14	< 4.5 U	16	< 3 U	25	< 2.8 U	< 4.1 U	72	32	15
T07C																			
	0 - 0.5'	7/29/2008	529.95	23	15	20	48	53 JC	57	56	63	52	17	60	14	58 JC	< 1.9 U	45	68
T08A																			
	0 - 0.5'	7/30/2008	20880	1900	880	880	1400	870 JC	1700	1100	1800 JC	1900	340 JC	3900	990	1800	360	3000	2900
	0.5 - 1.5'	7/30/2008	843000	110000	18000	68000	49000	34000 JC	29000	19000	28000 JC	29000	< 850 UJC	92000	19000	21000 JC	73000	170000	190000
	1.5 - 2.7'	7/30/2008	803000	120000	68000	180000	200000	140000 JC	87000	81000	86000 JC	180000	12000 JC	480000	820000	88000 JC	1600000	1900000	630000
	2.7 - 3.6'	7/30/2008	7672000	1000000	62000	1900000	1800000	1300000 JC	780000	48000	84000 JC	1700000	82000 JC	4100000	540000	48000 JC	1600000	1900000	810000
	3.6 - 4.6'	7/30/2008	6987000	850000	87000	810000	840000	1000000	610000 JC	330000	540000	810000 JC	630000	4000000	1400000 JC	1700000	1400000 JC	1700000	
	4.6 - 5.6'	7/30/2008	6623000	440000	120000	280000	1800000	1300000	680000 JC	84000	1700000	2800000 JC	480000	3200000	1200000 JC	2200000	700000 JC	800000	
	5.9 - 7'	7/30/2008	848200	81000	7200	68000	22000	16000	8700	6800 JC	9700	22000	1800 JC	87000	24000	14000 JC	220000	190000 JC	82000
T08B																			
	0 - 0.5	7/29/2008	606.85	< 3.2 U	< 2.2 U	12	41	46	49	39	35	84	< 2.8 U	120	< 2.1 U	35	< 1.6 U	45	83
	0.5 - 1.30'	7/29/2008	1068.15	21	< 2.4 U	29 JC	62 JC	69 JC	92 JC	68	58	100	13	360	17	87 JC	< 1.9 U	160	200
T08C																			
	0 - 0.5'	7/25/2008	281300	17000	1800	28000	12000 JC	10000 JC	6900	5000 JC	8400	18000	1700	16000 JC	19000 JC	6000 JC	3100	70000 JC	40000
	0.5 - 1.5'	7/25/2008	37220	1900	140	2800 JC	1800	1200	600	520 JC	810	1800	140 JC	3000	2000	600 JC	180	7200 JC	1900
	1.5 - 2.7'	7/25/2008	461000	81000	2000	47000 JC	19000	13000	7000	6300 JC	8100	19000	1600 JC	42000	37000	6900 JC	7400	130000 JC	49000
	2.7 - 3.6'	7/25/2008	305700	26000	2200	32000	21000	15000	12000	10000 JC	11000	22000	2900 JC	26000	14000	11000 JC	23000	67000	41000
	3.6 - 4.9'	7/25/2008	110880	11000	880 JC	8900	4900	4900 JC	3900 JC	2500	3100 JC	6900	610 JC	12000	5900 JC	2700 JC	19000 JC	22000	12000
	4.9 - 6'	7/25/2008	42780	3200 JC	290 JC	4100	1900	1700 JC	1200 JC	890	1800 JC	2100	260 JC	4700	3500 JC	1800 JC	2100 JC	12000 JC	6700
	6 - 7.1	7/25/2008	32390	2000	180	2100	1900	2200	1900	1400 JC	1600	2000	310 JC,Q	6700	1200	1700 JC	810	6800 JC	4800
	7.1 - 8.2'	7/25/2008	2298	330	19	220	94	73	59 JC	44	55	82	< 2.8 U	260	83	47	89	650	220
	8.2 - 9.1'	7/25/2008	3257	100	17	88	69	94	95 JC	85	72	100	23	220	62	93	1800	230	200
T08CP																			
	8.3 - 10.3'	8/4/2008	217.1	16	< 2.4 U	22	< 3.5 U	< 3.4 U	< 2.8 U	< 3.2 UJC	< 4.1 U	16	< 2.7 U	31	15	14	20	58	33
	10.3 - 12.3'	8/4/2008	19.8	< 3.7 U	< 2.5 U	< 3.3 U	< 3.8 U	< 3.7 U	< 3.1 U	< 3.4 UJC	< 4.5 U	< 3.1 U	< 2.9 U	< 3.2 U	< 2.4 U	< 4.1 U	< 2 U	< 1.6 U	< 2.5 U
	12.3 - 14.3	8/4/2008	36.35	< 7.2 U	< 4.9 U	< 6.4 U	< 7.4 U	< 7.2 U	< 5.9 U	< 6.7 UJC	< 8.8 U	< 5.9 U	< 5.7 U	< 6.2 U	< 4.7 U	< 7.9 U	< 3.9 U	< 3.5 U	< 4.8 U
	14.3 - 16.3'	8/4/2008	40.4	< 3.6 U	< 2.5 U	< 3.2 U	12 U	< 3.6 U	< 3 U	< 3.3 UJC	< 4.3 U	< 3 U	< 2.8 U	< 3.1 U	< 2.3 U	< 3.9 U	12 U	< 1.7 U	< 2.5 U
	16.3 - 18.3'	8/4/2008	53.45	< 3.6 U	< 2.5 U	< 3.2 U	12 - 8	< 3.6 U	< 3 U	< 3.3 UJC	< 4.3 U	< 3 U	< 2.8 U	< 3.1 U	< 2.4 U	< 4 U	25	< 1.7 U	< 2.5 U
	18.3 - 18.8'	8/4/2008	86.75	< 3.5 U	< 2.4 U	< 3.1 U	< 3.6 U	< 3.5 U	< 2.8 U	< 3.2 UJC	< 4.2 U	< 2.9 U	< 2.8 U	< 3 U	< 2.3 U	< 3.8 U	69	< 1.7 U	< 2.4 U
T08D																			
	0 - 0.5	7/24/2008	21.55	< 4 U	< 2.8 U	< 3.8 U	< 4.2 U	< 4 U	< 3.3 U	< 3.8 U	< 4.9 U	< 3.3 U	< 3.2 UJC	< 3.5 U	< 2.8 U	< 4.5 UJC	< 2.2 U	< 1.8 U	< 2.8 U
	0.5 - 1.2'	7/24/2008	18.15	< 3.4 U	< 2.3 U	< 3.1 U	< 3.8 UJC	< 3.4 U	< 2.8 UJC	< 3.2 U	< 4.1 U	< 2.8 U	< 2.7 U	< 2.8 U	< 2.2 U	< 3.8 UJC	< 1.8 U	< 1.8 U	< 2.3 U

Table B-3 PAH SEDIMENT ANALYTICAL RESULTS (Continued)

1665 Wisconsin Public Service Corp., WPSC-CampMarina Sediment Remediation, Sheboygan, WI
732 Water Street, Sheboygan, Wisconsin
USEPA# : WIN000510058 **BRRTS# : 0260000095**

Sample ID	Depth	Collection Date	PAHs, Total	Acenaphthene	Acenaph-thylene	Anthracene	Benzo(a)-anthracene	Benzo(a)-pyrene	Benzo(b)-fluoranthene	Benzo(g,h,i)-perylene	Benzo(k)-fluoranthene	Chrysene	Dibenzo(a,h)-anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naph-thalene	Phenanthrene	Pyrene
Sediment Screening Benchmarks																			
Benchmarks				390	385	57.2	108	150	768	662	781	166	33	423	77.4	689	176	204	195
T08D1																			
	0 - 0.5	7/29/2008	1153.2	< 8.6 U	< 8.5 U	< 8.6 UJC	170 JC	120 JC	130 JC	100	95	150	< 7.6 U	220	< 6.3 U	69 JC	< 5.3 U	120	200
	0.5 - 1.5'	7/29/2008	1705.35	< 8.5 U	< 8.9 U	43 JC	150 JC	160 JC	170 JC	120	110	180	< 8.6 U	320	< 5.6 U	140 JC	< 4.7 U	200	230
	1.5 - 2.5'	7/29/2008	924.85	79	< 8.7 U	37 JC	77 JC	83 JC	88 JC	57	62	74	< 6.6 U	150	< 5.4 U	45 JC	< 4.6 U	150	150
	2.5 - 3.7'	7/29/2008	74.85	< 4.4 U	< 3 U	< 3.0 U	16	< 4.4 UJC	< 3.6 U	42	< 5.3 UJC	< 3.5 U	< 3.9 UJC	< 3.6 U	< 2.9 U	19 JC	< 2.4 U	21	19
T08E																			
	0 - 0.5'	7/24/2008	4034.9	66	< 3.8 U	180	340 JC	310	360 JC	260	220	420	58	780	77	250 JC	60	830	940
	0.5 - 1.5'	7/24/2008	2060	59	26	130	190 JC	140	190 JC	130	130	240	16	480	110	110 JC	45	610	450
	1.5 - 2.5'	7/24/2008	16226	150	110	1200	1800 JC	1900	800 JC	650	880	1800	190	2600	330	650 JC	76	2700	2200
T09A																			
	0 - 0.5'	7/29/2008	104300	16000	1300	8300	6900 JC	5400 JC	7900 JC	6400	6400	7200	1400	11000	8300	5700	6800	18000	15000
	0.5 - 1.5'	7/29/2008	8522000	920000	81000	660000	220000	190000	74000	77000 JC	87000	130000	24000	510000	410000	120000 JC	1300000	1400000 JC	970000
	1.5 - 2.5'	7/28/2008	944000	110000	8900	69000	24000 JC	21000 JC	23000	18000 JC	22000	28000	4300 JC	97000 JC	89000 JC	20000 JC	170000	208000	91000
	2.5 - 3.5'	7/29/2008	294400	25000	1200	21000	7100 JC	6500 JC	2700	2800 JC	2900 JC	6000	630 JC	20000 JC	17000 JC	3800 JC	68000	78000	84000
	3.5 - 4.5'	7/29/2008	917300	88000	4000	62000	29000 JC	22000 JC	22000	17000 JC	19000	27000	4000 JC	99000 JC	62000 JC	15000	340000	220000	90000
T09B																			
	0 - 0.5'	7/25/2008	1575.35	18	< 2.9 U	42	130	120	140	130 JC	140	150	22 JC	320	23	140 JC	< 2.1 U	160	270
	0.5 - 1.5'	7/25/2008	4580	360	51	290	290 JL	260 JC	190	210	250	87	870	830	190	29	870	950	
	1.5 - 2.5'	7/25/2008	642800	40000	2800	80000	27000	27000	14000	8800 JC	16000	28000	2700 JC	71000	48000	11000 JC	16000	180000	88000
	2.5 - 3.7'	7/25/2008	367800	22000	2400	68000	20000	18000	8800	8100 JC	10000	21000	1900 JC	49000	29000	8200 JC	4400	110000 JC	61000
T09C																			
	0 - 0.5'	7/25/2008	2054	18	50	68	190	160	170	100 JC	160	200	31	400	35	100	22	270	220
	0.5 - 1.5'	7/25/2008	852.45	16	17	20	58	50 JL	59 JC	31	38	62	< 3.2 U	120	< 2.7 U	33	< 2.2 U	110	100
	1.5 - 3.1	7/25/2008	22.6	< 4.2 U	< 2.9 U	< 3.8 U	< 4.4 U	< 4.3 UJL	< 3.5 UJC	< 3.9 U	< 5.1 U	< 3.5 U	< 3.4 U	< 3.6 U	< 2.8 U	< 4.7 U	< 2.3 U	< 2 U	< 2.8 U
	3.1 - 4.3'	7/25/2008	40.85	< 7.6 U	< 5.3 U	< 6.9 U	< 7.9 U	< 7.8 UJC	< 6.3 U	< 7.1 U	< 6.2 UJC	< 6.3 U	< 6.1 UJC	< 6.5 U	< 5 U	< 8.4 UJC	< 4.2 U	< 3.7 U	< 5.3 U
	4.3 - 4.6'	7/25/2008	63.75	< 3.5 U	< 2.4 U	< 3.1 U	< 3.6 U	< 3.5 UJC	< 2.9 U	< 3.2 U	< 4.2 UJC	< 2.9 U	< 2.8 UJC	< 3 U	< 2.3 U	< 3.9 UJC	66	< 1.7 U	< 2.4 U
T09D																			
	0 - 0.5'	7/24/2008	836.55	< 9 U	< 5.5 U	46	74	60 JC	70	130 JC	66	79	27 JC	160	< 5.2 U	74 JC	< 4.4 U	130	160
	0.5 - 1.5'	7/24/2008	2323.75	39	< 7.5 U	83	190	160 JC	220	260 JC	180	240	< 8.6 UJC	420	68	200 JC	53	310	270
	1.5 - 2.5'	7/24/2008	7788	170	75	490	680	620 JC	660	450 JC	480	710	140 JC	1400	250	640 JC	91	1300	1200
	2.5 - 3.7'	7/24/2008	2808.05	120	< 5.6 U	190	250	180 JC	200	160 JC	150	260	48 JC	540	84	200 JC	< 4.5 U	420	410
	3.7 - 4.3'	7/24/2008	441.6	59	< 5.5 U	28	32	28 JC	37	74 JC	29	39	< 8.4 UJC	71	< 5.3 U	43 JC	< 4.4 U	61	50
T10A																			
	0 - 0.5'	7/29/2008	36480	8200	360	1700	1800 JC	1900 JC	1400	820 JC	1200	1800	890 JC	7200 JC	1800 JC	1000 JC	230	8400	6900
	0.5 - 1.5'	7/29/2008	19060	4900	200	810	920 JC	720 JC	800	560 JC	670	810	190 JC	2400 JC	1800 JC	660 JC	230	3100 JC	2200
	1.5 - 2'	7/29/2008	61210	6300	880	6400 JC	3200 JC	3100 JC	2800 JC	1700	2100	3200	620	7600	4000	1900	830	18000	6900
T10AP																			
	2 - 4'	8/4/2008	34810	3850	280	3800	2100	1700	1100	630 JC	1300	2100	330	4000	3300	970	330	7700	4300
	4 - 6'	8/4/2008	1801.45	26	31	53	270	280	200	160 JC	220	250	48	190	< 4.8 U	220	80	120	200
	6 - 8.5'	8/4/2008	38.88	< 7.2 U	< 6 U	< 6.5 U	< 7.5 U	< 7.2 U	< 6 U	< 6.8 UJC	< 6.8 U	< 6 U	< 5.8 U	< 6.2 U	< 4.6 U	< 6 U	< 4 U	< 3.5 U	< 5 U

Table B-3 PAH SEDIMENT ANALYTICAL RESULTS (Continued)

1665 Wisconsin Public Service Corp., WPSC-CampMarina Sediment Remediation, Sheboygan, WI
732 Water Street, Sheboygan, Wisconsin
USEPA# : WIN000510058 **BRRTS# : 02600000095**

Sample ID	Depth	Collection Date	PAHs, Total	Acenaphthene	Acenaph-thylene	Anthracene	Benzo(a)-anthracene	Benzo(a)-pyrene	Benzo(b)-fluoranthene	Benzo(g,h,i)-perylene	Benzo(k)-fluoranthene	Chrysene	Dibenzo(a,h)-anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naph-thalene	Phenanthrene	Pyrene
Sediment Screening Benchmarks																			
Benchmarks				396	365	57.2	108	150	788	682	781	166	33	423	77.4	896	176	204	195
T10B																			
	0 - 0.5'	7/29/2008	3011	190	33	140	270	270	260	190	260 JC	210	47	890	78	200	30	270	460 JC
	0.5 - 1.5'	7/29/2008	4032	200	66	220	280	270	210	190	260 JC	280	67	850	110	240	46	830	650 JC
	1.5 - 2.5'	7/29/2008	9466	210	270	490	930	1000	790	660	780 JC	1000	180	1800	190	730	170	850	3400 JC
T10C																			
	0 - 0.5'	7/25/2008	26970	1900	340	2900	1700	1900 JL	1900 JC	650	1900	1700	280	3200 JTB	1400	750	230	6100 JTB	4900
	0.5 - 1.5'	7/25/2008	770300	68000	8300	170000	58000	58000 JL	19000 JC	19000	20000	38000	4400	78000	82000	11000	29000	210000	150000
	1.5 - 2.7'	7/25/2008	517000	37000	2100	80000	24000 JC	19000 JC L	8900	7900 JC	14000	24000	1800	68000 JC	28000 JC	7700 JC	12000	160000 JC	83000
	2.7 - 3.4'	7/25/2008	278900	9900	2200	26000	16000	12000 JL	9900 JC	8800	8000	8000 JC	1800	37000	9400	8900 JC	1000	68000 JC	49000
T10CP																			
	3.2 - 5.2'	8/4/2008	1834.65	160	< 8.3 U	110	120	78	71	64 JC	57	110	30	320	49	79	47	850	310
	5.2 - 7.2'	8/4/2008	210.4	< 9 U	< 8.2 U	< 8 U	43	< 8 U	< 7.4 U	< 8.3 UJC	< 11 U	< 7.4 U	< 7.1 U	37	< 5.9 U	< 6.9 U	< 4.9 U	80	37
	7.2 - 8.2'	8/4/2008	135.55	< 8.7 U	< 8.7 U	< 8.7 U	< 10 U	< 8.7 U	< 8 U	< 9 UJC	< 12 U	< 8 U	< 7.7 U	34	< 6.3 U	< 11 U	< 5.3 U	68	< 8.7 U
	9.2 - 10.2'	8/4/2008	269.35	33	< 8.4 U	< 8.3 U	< 8.8 U	< 8.2 U	< 7.9 U	< 8.6 UJC	< 11 U	< 7.9 U	< 7.3 U	56	< 6 U	32	< 5.1 U	91	54
T10D																			
	0 - 0.7'	7/24/2008	2157.1	22	< 4.2 U	48	180 JC	170	200 JC	160	160	220	33	410	33	160 JC	41	260	180
	0.7 - 2.1'	7/24/2008	1914	21	18	53	150 JC	150	230 JC	170	130	240	45	330	25	170 JC	27	200	200
	2.1 - 3.5'	7/24/2008	9680	41	23	130	1000 JC	1000	1000 JC	1000	860	1300	180	1200	64	1100 JC	42	880	1000
	3.5 - 4.9'	7/24/2008	1277.8	27	< 3.8 U	35	150 JC	76	100 JC	69	74	120	< 4.1 U	220	44	91 JC	40	210	170
T11A																			
	0 - 0.5'	7/22/2008	23880	210	190	1100	2200	2100 JC	1600	1300	1600	2200	400 JC	6000	370	1700 JC	120	1400	3800
	0.5 - 1.6'	7/22/2008	14470	200	140	880	1300	1200 JC	1300	790	880	1300	260 JC	2900	240	1300 JC	170	2100	2600
	1.6 - 2.7'	7/22/2008	361700	12000	1400	30000	18000 JC	28000 JC	20000	17000	24000 JC	28000 JC	7700 JC	66000	8700	28000	2300	68000 JC	51000
	2.7 - 3.6'	7/22/2008	165010	8400	310	12000	8100	7800	9400 JC	8800	8400	8900	1400 JC	28000	8800	8300 JC	8200	48000	21000
	3.6 - 4.9'	7/22/2008	103720	6700	620	7200	6100	6000	4700 JC	4600	4800	6900	1100 JC	19000	2700 JC	6100 JC	4900	21000 JC	18000
	4.9 - 5.7'	7/22/2008	36360	2900	160	2600	1700	1900	1200	1000 JC	1000	1700	210 JC	7000	1700	1200 JC	1700	6800 JC	6700
T11B																			
	0 - 0.5'	7/23/2008	2428	87	43	92	190	160	180	160	150	220	48	440	53	170	43	230	200
	0.5 - 1.6'	7/23/2008	4397	100	73	170	290	270	230	190	200	280	67	530	310	230	54	880	820
T11C																			
	0 - 0.5'	7/23/2008	19160	2700	160	1800	820	880	580	580 JC	620	890	130 JC	2200	1600	870 JC	440	8200	2200
	0.5 - 1.6'	7/23/2008	93110	8800	1000	8200	6900	6900	2800	2000 JC	2300	7800	770 JC	11000	3200	2900 JC	810	21000 JC	17000
	1.6 - 2.7'	7/23/2008	14838	2300	130	1100	810	780	360	450 JC	440	790	100 JC	1400	1050	420 JC	83	3600 JC	3000
	2.7 - 3.6'	7/23/2008	100660	2700	1200	7000	6900	6300 JC	6800	4900	4400 JC	6100	1200 JC,Q	14000	1200 JC,Q	4300 JC	980	19000	21000
	3.6 - 4.9'	7/23/2008	25810	1900	220	1300	2400	2200	1300	1500	1200	2600	240	2200	630	1300	340	1600	3000
	4.6 - 6'	7/23/2008	48150	3700	450	2700	1900	2000	1100	1300 JC	1200	2100	330 JC	4200	2000	1400 JC	1400	6600 JC	6700
	6 - 7.1'	7/23/2008	4306	2000	47	180	110	100	46	84 JC	62	130	< 3.1 UJC	230	420	48 JC	70	870	280
	7.1 - 8.1'	7/23/2008	213.6	120	< 2.8 U	< 3.6 U	< 4.2 U	< 4 U	< 3.3 U	< 3.8 UJC	< 4.8 U	14	< 3.2 UJC	19	< 2.8 U	< 4.5 UJC	< 2.2 U	27	21
	8.1 - 8.8'	7/23/2008	842.75	< 9 U	< 8.2 U	< 8.1 U	< 8.3 U	< 8 U	< 7.6 U	< 8.4 U	< 11 U	< 7.5 U	< 7.2 U	< 7.8 U	< 5.9 U	< 10 U	580	49	< 8.2 U

Table B-3 PAH SEDIMENT ANALYTICAL RESULTS (Continued)

1665 Wisconsin Public Service Corp., WPSC-CampMarina Sediment Remediation, Sheboygan, WI
732 Water Street, Sheboygan, Wisconsin
USEPA# : WIN000510058 **BRRTS# : 0260000095**

Sample ID	*Depth*	*Collection Date*	*PAHs, Total*	*Acenaphthene*	*Acenaph-thylene*	*Anthracene*	*Benzo(a)-anthracene*	*Benzo(a)-pyrene*	*Benzo(b)-fluoranthene*	*Benzo(g,h,i)-perylene*	*Benzo(k)-fluoranthene*	*Chrysene*	*Dibenzo(a,h)-anthracene*	*Fluoranthene*	*Fluorene*	*Indeno (1,2,3-cd) pyrene*	*Naph-thalene*	*Phenanthrene*	*Pyrene*
Sediment Screening Benchmarks																			
Benchmarks				396	365	57.2	108	150	768	862	791	166	33	423	77.4	699	176	204	195
T11D																			
	0 - 0.8'	7/23/2008	1395.45	24	< 2.9 U	37	120	120	140 JC	110	94	130	18 JC	240 JC	23	99 JC	48	120 JC	230
	0.8 - 2.3'	7/23/2008	254000	19000	7900	27000	14000	9100	6100 JC	3100 JC	5700	10000	< 340 UJC	28000	14000 JC	3200 JC	2900	76000 JC	39000
	2.3 - 3.8'	7/23/2008	950200	120000	6700	68000	24000	24000	14000 JC	11000 JC	14000	28000	3900 JC	60000	40000 JC	17000 JC	170000	510000 JC	89000
	3.8 - 5.4'	7/23/2008	885400	68000	8400	93000	34000	28000	12000 JC	12000 JC	15000	28000	3300 JC	81000	68000 JC	13000 JC	110000	210000 JC	110000
	5.4 - 6.5'	7/23/2008	418500	41000	3500	44000	20000	14000	8200 JC	6900 JC	8800	22000	1700 JC	43000	25000 JC	8500 JC	38000	94000 JC	66000
T11E *																			
	0 - 0.5'	7/29/2008	2758.5	< 11 U	< 7.8 U	84	220	320 JC	320	190	220 JC	280	< 8.9 UJC	850	42	270 JC	< 6.2 U	280	450
	0.5 - 1.8'	7/29/2008	2291.35	< 11 U	< 7.7 U	98	200	210 JC	250	160	180 JC	280	32 JC	400	47	200 JC	39	230	350
	1.8 - 2.7'	7/29/2008	5572	82	60	180	370	320 JC	360	200	170 JC	300	61 JC	800	140	220 JC	80	500	800
	2.7 - 3.7'	7/29/2008	23369	430	99	1100	1800	1600 JC	1800	930	1200 JC	1700	240 JC	4800	810	1300 JC	130	4800	3700
T12A																			
	0 - 0.5'	7/22/2008	812100	1200	2100	14000	68000	64000 JC	47000	16000 JC	40000	74000	14000 JC	160000	7200	40000 JC	600	310000	130000
	0.5 - 1.5'	7/22/2008	343250	15000	2300	28000	18000	16000 JC	11000	10000 JC	12000	19000	3500 JC	48000	24000	11000 JC	850	63000	43000
	1.5 - 2.4	7/22/2008	95780	4900	310	4100	2100	2500 JC	2200	1900	2100	3700	710 JC	7200	4900	2200 JC	150	18000	8400
T12B																			
	0 - 0.6'	7/22/2008	8880	120	58	330	870	630 JC	450	370	430	740	180 JC	1300	130	410 JC	36	920 JC	1200
	0.6 - 1.7'	7/22/2008	49840	700	340	4800	4900	2800 JC	1900	1400	2000	4600	780 JC	7200	1200	1800 JC	140	9800	8500
	1.7 - 2.8'	7/22/2008	25080	1400	160	1300	1500	1800 JC	980	630	1800	1800	180 JC	4200	1100	1200 JC	180	6200	2800
	2.8 - 3.9'	7/22/2008	152250	19000	390	12000	8900	4200 JC	3700	2700	2200	5700	1100 JC	24000	11000	3800 JC	890	44000	19000
	3.9 - 5.1'	7/22/2008	38203	2800	93	2900	4000	1800 JC	1800	1100	1600	2100	160 JC	7200	1600	1800 JC	810	8700	6800
T12C																			
	0 - 0.5'	7/22/2008	7791	430	51	710	490	450	340	250	300 JC	680	87	1100	270	600	260	1800 JC	1100
	0.5 - 1.6'	7/22/2008	2207.15	74	< 6.3 U	130	150	160	140	110	130 JC	200	68	350	70	150	80	340 JC	280
	1.6 - 2.7'	7/22/2008	365806	19000	2800	58000	20000	17000	8400	7400	12000 JC	20000	1900	45000	22000	11000	3000	88000 JC	65000
	2.7 - 3.8'	7/22/2008	227400	22000	1900	32000	10000	7500	4700	3800	5300 JC	10000	1400	22000	18000	4100	12000	68000 JC	39000
	3.8 - 4.9'	7/22/2008	645500	88000	4500	77000	30000	22000	12000	8700	16000 JC	21000	2800	63000	42000	12000	68000	180000 JC	87000
	4.9 - 6'	7/22/2008	197300	24000	1300 J-	21000	8500	6200	4400	4300	6700 JC	8900	< 300 U	19000	13000	4600	24000	38000 JC	21800
	6 - 6.6'	7/22/2008	323700	38000	1000	32000	12000	9900	7400	6800	7800 JC	12000	2000	28000	17000	7000	48000	63000 JC	38000
T12CP																			
	6 - 8'	8/4/2008	1407900	84000	7800	170000	63000	33000 JC	27000	17000	23000	54000	4000	120000	86000	20000	180000	260000	150000
	8 - 10'	8/4/2008	135370	10000	770	31000	7800	6100 JC	4300	3800	5300	7700	1200	20000	7900	4200	1500	26000	17000
	10 - 12'	8/4/2008	107530	8800	640	8400	6300	5100 JC	4200	3100	4800	6600	760	16000	8400	3700	1600	25000	14000
	12 - 14'	8/4/2008	102190	12000	780	8500	6300	5700 JC	3300	2800	3900	5400	810	15000	8700	3400	4200	24000	12000
	14 - 16'	8/4/2008	2317.3	740	< 2.6 U	120	89	68	48	44 UB	57	76	13	200	220	59 UB	110	420	160
	16 - 18'	8/4/2008	348.95	85	< 2.5 U	23	22	13	< 3 U	< 3.4 U	< 4.4 U	15	< 2.9 U	29	18	< 4 U	45	68	28
	18 - 20'	8/4/2008	898.25	80	< 2.5 U	78	73	56	37	34 UB	52	60	< 2.9 U	130	30	38 UB	26	200	100
	20 - 22'	8/4/2008	900.1	47	< 2.2 U	87	62	40	23	20 UB	35	51	< 2.5 U	120	43	22 UB	20	250	120

Table B-3 PAH SEDIMENT ANALYTICAL RESULTS (Continued)

1665 Wisconsin Public Service Corp., WPSC-CampMarina Sediment Remediation, Sheboygan, WI
732 Water Street, Sheboygan, Wisconsin
USEPA# : WIN000510058 **BRRTS# : 0260000095**

Sample ID	Depth	Collection Date	PAHs, Total	Acenaphthene	Acenaph-thylene	Anthracene	Benzo(a)-anthracene	Benzo(a)-pyrene	Benzo(b)-fluoranthene	Benzo(g,h,i)-perylene	Benzo(k)-fluoranthene	Chrysene	Dibenzo(a,h)-anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naph-thalene	Phenanthrene	Pyrene
Sediment Screening Benchmarks																			
Benchmarks				396	365	57.2	108	150	788	582	791	166	33	423	77.4	689	176	204	195
T12D																			
	0 - 0.8'	7/22/2008	773.6	< 3.4 U	17	22	78	77 JC	91	64	76	87	22 JC	150	< 2.9 U	99 JC	< 1.9 U	82	129
	0.8 - 1.8'	7/22/2008	2220.45	< 8.3 U	< 8.4 U	57	190	170 JC	220	130	160 JC	220	32 JC	350 JC	< 8.1 U	150	< 5.1 U	330 JC	410 JC
	1.8 - 3.1'	7/22/2008	2085.45	< 8.8 U	< 8.7 U	64	190 JC	180 JC	250	190	160 JC	270 JC	76 JC	330	< 8.4 U	210	70	170 JC	310
	3.1 - 4'	7/22/2008	4297	62	75	240	380	290 JC	330	200	290	380	81 JC	700	160	350 JC	220	440	680
T13A																			
	0 - 0.5'	7/22/2008	32360	820	360	1800	2800	2600	2600	1700	2200 JC	2700	490	6100	630	2000	450	3400 JC	5000
	0.5 - 1.5'	7/22/2008	17720	720	350	1100	2300	2000	1400	1000	1800 JC	2100	340	1300 J	840	1800	310	1200 J	1300 J
T13B																			
	0 - 0.5'	7/22/2008	661	26	12	62	54	50	36	29	40 JC	47	17	100	27	36	15	160 JC	95
	0.5 - 1.5'	7/22/2008	3067	74	17	100	220	230	260	190	200 JC	290	70	520	59	310	47	390 JC	470
	1.5 - 2.5	7/22/2008	2006	18 5,-	29 4	88	170	190	210	140	140 JC	210	55	370	34	210	61	290 JC	330
	2.5 - 3.5'	7/22/2008	1784	27	16 -,8	47	150	140	150	140	130	210	16 -,3	330	28	120	36	190	260
	3.5 - 4.5	7/22/2008	2390.7	37 - 8	< 7 4 U	57	200	220	220	160	170	250	71	380	39	170	64	240	330
	4 5 - 5.5'	7/22/2008	2643.05	120	< 8.1 U	68	240	210	240	220	180	260	58	430	67	180	67	280	430
	5 5 - 6.5'	7/22/2008	2941 8	130	< 7 3 U	120	270	160	210	160	150	280	45	510	100	150	56	320	490
	6 5 - 7 3'	7/22/2008	28370	10000	210	1900	690	460	510	400	410	600	120	1500	4300	400	720	6400	1900
T13C																			
	0 - 0.8'	7/22/2008	862.65	< 3 8 U	16	19	120	130 JC	100	94	110	150	15	130	< 2.3 U	100 JC	< 1 9 U	34	160
	0.8 - 1 7'	7/22/2008	1330.5	< 3.8 U	< 2.6 U	25	170	130 JC	130	120	140	180	28	260	< 2.5 U	140 JC	< 2.1 U	100	220
	1 7 - 2 6'	7/22/2008	16121	76	200	260	1000	2100 JC	1800	2100	1100	1600	190 JC	2500	100	2000 JC	85	1700 JC	2400
	2 8 - 3.5'	7/22/2008	1881 75	< 8.2 U	< 8.3 U	57	240	200 JC	240	170	120 JC	270	59 JC	220	41	160 JC	78	160	220
	3.9 - 5'	7/22/2008	1867.06	65	< 8.1 U	68	180	98 JC	140	88	100 JC	130	< 8.3 UJC	270	68	120 JC	200	250	220
	5 - 6 5'	7/22/2008	2108.25	< 12 U	< 8.6 U	60	180	120 JC	210	120	110 JC	190	< 8 7 UJC	380	69	150 JC	140	340	370
T14A																			
	0 - 0 8	7/23/2008	3954	250	62	180	280	270 JC	340	190	210	330	68	650	310	310 JC	82	890	940
	0.8 - 1 7'	7/23/2008	5376	300	77	220	380	350 JC	310	180	190	310	61	810	410	310 JC	93	1100	780
	1 7 - 2.8'	7/23/2008	16270	950	320	800	1300	1200 JC	840	540	710	1100	170	2600 J*D	670	680 JC	460	2500 J*D	2000 J*D
	2.8 - 3.9'	7/23/2008	2703	720	29	140	66	45	40	24	33	63	< 3.2 U	350	410	49 JC,D	24	440	330
	3.9 - 4.5'	7/23/2008	86.9	36	< 2.7 U	< 3.5 U	< 4 U	< 3.6 UJC	< 3.2 U	< 3.6 U	< 4.7 U	< 3.2 U	< 3.1 U	15	< 2.6 U	13 JC,E,-	< 2.1 U	15	13
T14B																			
	0 - 0.8'	7/29/2008	1605	32	44	81	120 JC	120 JC	160	110 JC	100	140	29 JC	200 JC	37 JC	130 JC	< 2 U	240 JC	280
	0.8 - 1 7'	7/29/2008	1878.65	28	< 3.3 U	73	140 JC	140 JC	220	140 JC	130	190	42 JC	400 JC	40 JC	150 JC	15	280 JC	330
	1 7 - 2.8'	7/29/2008	2281	34	20	78	200 JC	180 JC	220	140 JC	140	220	48 JC	470 JC	37 JC	150 JC	24	310 JC	280
	2.8 - 3.8'	7/29/2008	3381 8	58	< 7.8 U	130	280	280 JC	250	200	250 JC	330	57 JC	680	40	210	40	480	520
	3.9 - 5'	7/29/2008	1891.2	< 11 U	< 7 6 U	55	180	130 JC	160	140	170 JC	200	< 8.8 UJC	330	< 7 4 U	160	< 8.2 U	170	210
	5 - 6.2'	7/29/2008	5050	1300	51	340	280	220 JC	240	160	200 JC	240	< 8.9 UJC	630	680	180	78	1200	680
	6.2 - 7.3'	7/29/2008	7050	830	90	280	480	460	370	280	280 JC	470	87	940	450	330	280	1300	830 JC
	7.3 - 8.3'	7/29/2008	4077	620	57	140	270	280	310	200	190 JC	330	76	680	170	220	160	680	690 JC

Table B-3 PAH SEDIMENT ANALYTICAL RESULTS (Continued)

1665 Wisconsin Public Service Corp., WPSC-CampMarina Sediment Remediation, Sheboygan, WI
732 Water Street, Sheboygan, Wisconsin
USEPA# : WIN000510058 **BRRTS# : 0260000095**

Sample ID	Depth	Collection Date	PAHs, Total	Acenaphthene	Acenaph-thylene	Anthracene	Benzo(a)-anthracene	Benzo(a)-pyrene	Benzo(b)-fluoranthene	Benzo(g,h,i)-pyrene	Benzo(k)-fluoranthene	Chrysene	Dibenzo(a,h)-anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naph-thalene	Phenanthrene	Pyrene
Sediment Screening Benchmarks																			
Benchmarks				396	363	57.2	108	150	788	852	781	166	33	423	77.4	689	176	204	195
T14C																			
	0 - 0.5'	7/29/2008	143	< 3.8 U	< 2.5 U	17	17 JC	< 3.6 UJC	16	16 JC	13	13 J-,8	< 2.8 UJC	19 JC	< 2.3 UJC	21 JC	< 2 U	25 JC	17
	0.5 - 1.6'	7/29/2008	5291.15	53	14 -,8	140	280 JC	400 JC	530	340 JC	320	490	91 JC	1200 JC	73 JC	360 JC	< 2.3 U	810 JC	660
	1.6 - 2.8'	7/29/2008	1522.25	< 5 U	< 3.6 U	27	120	160	160	110	110 JC	120	48	320	21	140	20	140	280 JC
	2.6 - 3.7'	7/29/2008	2372.7	80	< 7.4 U	80 JC	190	250 JC	260	180	120	230	67 JQ,C	400	44	220 JQ,C	62	200	340
	3.7 - 4.7'	7/29/2008	1975.3	37	< 6.8 U	84 JC	190	280 JC	230	170	110	200	57 JC	290	35	160 JC	46	190	260
	4.7 - 5.8'	7/29/2008	4553	71	67	210	280	340 JC	350	220	350 JC	420	40 JC	810	110	250	95	670	670
	5.8 - 6.8'	7/29/2008	1998.1	78	< 6.2 U	68	140	170	150	130	130 JC	180	48	340	65	150	68	280	330 JC
	6.8 - 7.7'	7/29/2008	4555	440	48	180	370	390	280	190	240 JC	280	57	830	210	240	97	840	870 JC
T15A																			
	0 - 0.6'	7/23/2008	462.65	< 3.1 U	< 2.1 U	< 2.8 U	46	14 JC	14	< 2.9 U	12	36	< 2.6 U	150	< 2 U	13	< 1.7 U	13	170
T15B																			
	0 - 0.6'	7/24/2008	2092.35	< 6.5 U	< 3.9 U	94	170	170 JC	220	140	160	270	53	490	29 8,	260	< 4.7 U	240	250
	0.6 - 1.7'	7/24/2008	1807.2	62	< 6.4 U	48	130	170 JC	210	140	130	190	80	330	32 8 -	250	32 8 -	180	280
	1.7 - 2.8'	7/24/2008	2586.7	210	< 7.4 U	120	190	260 JC	200	150	180	220	80	430	140	280	53	430	380
	2.8 - 3.9'	7/24/2008	2884	43 JC	< 8 UJC	120	210	270 JC	220 JC	180	150 JC	220	< 6.2 UJC	470	83 JC	180 JC	76 JC	460 JC	430
	3.9 - 5'	7/24/2008	2820.15	< 12 UJC	< 8.3 UJC	110	200	270 JC	230 JC	180	180 JC	260	< 9.6 UJC	480	87 JC	200 JC	63 JC	470 JC	400
	5 - 6.1	7/24/2008	4667	190 JC	49 JC	270	340	390 JC	250 JC	180	220 JC	330	98 JC	670	180 JC	230 JC	68 JC	810 JC	630
	6.1 - 7.2'	7/24/2008	8240	460 JC	120 JC	600	770 JC	830 JC	450 JC	300 JC	420	610	77 JC	1800 JC	310 JC	320 JC	260 JC	1700 JC	1600
	7.2 - 7.9'	7/24/2008	7480	310 JC	160 JC	280	880 JC	810 JC	500 JC	280 JC	450	680	110 JC	1200 JC	290 JC	440 JC	190 JC	1200 JC	1200
T15C																			
	0 - 0.5'	7/24/2008	2368.8	19	< 3.1 U	46 JC	190	230	240	210 JC	240	290	29 JQ	800	21	240 JC	< 2.5 U	310 JC	430
	0.5 - 1.5'	7/24/2008	6875	22	66	110 JC	810	780	610	520 JC	690	760	170 JC	1000	35	830 JC	20	870 JC	840
	1.5 - 2.5'	7/24/2008	2345.8	23	< 3.8 U	55 JC	190	220	220	200 JC	210	260	46 JC	490	33	220 JC	33	280 JC	390
	2.5 - 3.5'	7/24/2008	2335.65	< 11 U	< 7.8 U	60	230	230	200	180 JC	180	260	76 JC	490	< 7.2 U	270 JC	< 8.1 U	380	410
	3.5 - 4.5'	7/24/2008	2805.3	< 9.8 U	< 6.8 U	71	230	240	270	210 JC	170	320	77 JC	650	52	300 JC	64	300	420
	4.5 - 5.5'	7/24/2008	1983.35	< 8.9 U	< 6.8 U	62	190	170	190	160 JC	120	240	58 JC	390	50	220 JC	49	230	330
	5.5 - 6.5'	7/24/2008	3393	< 12 UJC	< 8 UJC	110	190	190 JC	250 JC	130	110 JC	210	< 8.3 UJC	400	63 JC	180 JC	180 JC	240 JC	280
	6.5 - 7.3'	7/24/2008	3916	69 JC	49 JC	180	280	320 JC	260 JC	180	190 JC	280	46 JC	650	130 JC	220 JC	53 JC	760 JC	640
T16A																			
	0 - 0.80'	7/23/2008	11478	87	89	640	890	880 JC	1000	800	850	1000	180	2600 JTB	110	810	100	1300	2000
T16B																			
	0 - 0.5'	7/24/2008	1388.85	< 8.8 U	< 6.1 U	< 8 U	100	120 JC	170	110	240	140	42	270	< 5.8 U	200 JC	< 4.9 U	130	200
	0.5 - 1.6'	7/24/2008	1823.2	< 9.8 U	< 6.8 U	39	140	150 JC	220	140	120	190	47	330	< 6.4 U	230 JC	< 5.4 U	190	270
	1.6 - 2.7'	7/24/2008	1817.9	< 10 U	< 7.2 U	63	140	140 JC	200	130	130	190	48	320	< 6.8 U	210 JC	< 5.6 U	170	280
	2.7 - 3.8'	7/24/2008	2729.9	84	< 7.6 U	110	220	170 JC	270	150	150	240	88	480	81	210 JC	71	400	430
	3.8 - 4.7'	7/24/2008	2278.2	45	< 6.4 U	68	200	190 JC	210	160	150	230	73	400	69	210 JC	50	280	380

Table B-3 PAH SEDIMENT ANALYTICAL RESULTS (Continued)

1665 Wisconsin Public Service Corp., WPSC-CampMarina Sediment Remediation, Sheboygan, WI
732 Water Street, Sheboygan, Wisconsin
USEPA# : WIN000510058 **BRRTS# : 0260000095**

Sample ID	Depth	Collection Date	Acenaphthene	Acenaph-thylene	Anthracene	Benzo(a)-anthracene	C1-Benz(a) anthracenes/ Chrysenes	C2-Benz(a) anthracenes/ Chrysenes	C3-Benz(a) anthracenes/ Chrysenes	C4-Benz(a) anthracenes/ Chrysenes	Benzo(a)-pyrene	Benzo(e)-pyrene	Benzo(b)-fluoranthene	Benzo(g,h,i)-perylene	Benzo(k)-fluoranthene	Chrysene	Dibenzo(a,h)-anthracene	Fluoranthene	Fluorene
Sediment Screening Benchmarks																			
Benchmarks			396	385	57.2	108	NS	NS	NS	NS	150	NS	786	582	791	166	33	423	77.4
T08D1																			
	0 - 0.5'	7/29/2008	18	14	34 JC	77	72	70	47	34	76	61	72	58	68	66	13 JC	139	31
T08E																			
	0 - 0.5'	7/24/2008	17	18	47	104	163	137	89	58	105	82	109	84	95	138	21	239	26
T09A																			
	0 - 0.5	7/29/2008	19400	1780	8700 JC	6820	4440	1720	887	789	7390	7950	4780	3730	6030	6180	1160 JC	8660	4530
T09B																			
	0 - 0.5'	7/25/2008	14 JH	10 JH	34 JH	113 JH	46 JH	25 JH	17 JH	< 3 UJH	110 JH	79 JH	105 JH	77 JH	102 JH	124 JH	18 JH	274 JH	17 JH
T09C																			
	0 - 0.5'	7/25/2008	4 JH	8 JH	18 JH	44 JH	31 JH	27 JH	20 JH	< 4 UJH	43 JH	33 JH	39 JH	31 JH	40 JH	53 JH	7 JH	101 JH	9 JH
T09D																			
	0 0.5'	7/24/2008	13 JS	7 JS	26 JS	30 JS	32 JS	26 JS	23 JS	< 2 U	30 JS	27 JS	33 JS	23 JS	26 JS	45 JS	5 UJ	88 JS	21 JS
T10A																			
	0 - 0.5'	7/29/2008	1920 JH	634 JH	1060 JH	3270 JH	1100 JH	386 JH	76 JH	88 JH	1060 JH	970 JH	1000 JH	776 JH	1340 JH	1810 JH	127 JC,H	2850 JH	893 JH
T10B																			
	0 0.5'	7/29/2008	130 JH	33 JH	132 JH	193 JH	281 JH	333 JH	226 JH	130 JH	107 JH	108 JH	111 JH	82 JH	82 JH	177 JH	22 JC,H	309 JH	101 JH
T10C																			
	0 - 0.5'	7/25/2008	713 JH	90 JH	791 JH	471 JH	321 JH	122 JH	42 JH	25 JH	383 JH	196 JH	230 JH	167 JH	258 JH	436 JH	49 JC,H	867 JH	513 JH
	0.5 - 1.5'	7/25/2008	23000	1580	33000	14500	8640	3320	746	622	8500	4320	8090	3180	8840	12700	1140	23800	23500
	1.5 - 2.7'	7/25/2008	39000	2410	49000	22800	11800	3770	784	512	19800	9030	10300	7640	11800	19800	2320	44400	35000
T10D																			
	0 - 0.7'	7/24/2008	24	27 JHS	50	112	111	112	74	48	121	103	125	98	110	152	22	276	58
T11A																			
	0 - 0.5'	7/22/2008	4	4	13 JC	20	14	21	17	18	18	16	17	13	18	28	3	71	9
	1.5 - 2.7'	7/22/2008	12600 JS	1240 JS	23700 JS	21800 JS	11800 JS	4780 JS	1810 JS	1480 JS	23800 JS	10500 JS	21800 JS	16400 JS	20400 JS	27200 JS	2610 JS	54400 JS	10700 JS
T11B																			
	0 - 0.5'	7/23/2008	13400	1640	27700 JC,S	12800	8600	3140	881	< 693	9720	8530	8740	6660	7170	12800	1420	23900 S	13400
T11C																			
	0 - 0.5'	7/23/2008	2060	110	1130	946	414	600	60	68	813	383	393	350	407	846	82	1950	1180
	0.5 - 1.5'	7/23/2008	8770	1240	9670	6980	4800	1980	858	708	6600	2900	2820	2580	3060	6400	672	11800	3290
T11D																			
	0 - 0.5'	7/23/2008	21	12	30	70	125	143	99	91	73	65	73	58	61	87	14	142	17
	0.5 - 2.3'	7/23/2008	1920 JH	77 JH, S	1560 JH	472 JH	318 JH	153 JH	43 JH	39 JH	368 JH	180 JH	177 JH	119 JH	215 JH	633 JH	37 JC,H	1140 JH	1190 JH
	2.3 - 3.8'	7/23/2008	141000	4520	110000	68400	29400	8880	1790	1310	24400	10700	10600	12500	21800	43800	4640	101000	76300
	3.8 - 5.4'	7/23/2008	209000	8810	146000	82200	33200	8810	1310	1280	28200	10700	10400	12800	22800	47700	3350	116000	83300
T11E																			
	0 - 0.5'	7/23/2008	105	43	332 JC	318	181	113	79	63	214	171	221	167	186	270	28 JC	637	119
T12A																			
	0 - 0.5'	7/22/2008	59	66	218 JC	710	1100	1430	1200	888	831	828	833	623	807	1370	168	2080	84

Table B-3 PAH SEDIMENT ANALYTICAL RESULTS (Continued)

1665 Wisconsin Public Service Corp., WPSC-CampMarina Sediment Remediation, Sheboygan, WI
732 Water Street, Sheboygan, Wisconsin
USEPA# : WIN000510058 **BRRTS# : 0260000095**

Sample ID	Depth	Collection Date	PAHs, Total	Acenaphthene	Acenaph-thylene	Anthracene	Benzo(a)-anthracene	Benzo(a)-pyrene	Benzo(b)-fluoranthene	Benzo(g,h,i)-pyrene	Benzo(k)-fluoranthene	Chrysene	Dibenzo(a,h)-anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naph-thalene	Phenanthrene	Pyrene
Sediment Screening Benchmarks																			
Benchmarks				396	385	57.2	108	150	786	852	791	166	33	423	77.4	899	176	204	195
T16C																			
	0 - 0.6'	7/24/2008	1209.4	< 7.2 U	< 4.9 U	34	110	97 JC	140	77	68	110	28	250	< 4.7 U	130 JC	< 4 U	170	220
	0.6 - 1.6'	7/24/2008	1690.3	< 8.5 U	< 5.8 U	48	140	140 JC	220	140	130	170	48	370	< 5.6 U	200 JC	< 4.7 U	180	270
	1.9 - 3.2'	7/24/2008	1529	< 9.7 U	< 6.7 U	46	140	140 JC	200	130	120	160	50	360	< 6.3 U	210 JC	< 6.3 U	150	250
	3.2 - 4.5'	7/24/2008	2386.9	36	< 7.1 U	44	150	150	170	160 JC	150	220	76 JC	370	< 6.7 U	230 JC	620	200	300
	4.5 - 5.8'	7/24/2008	4012	82	63	97	230	250	200	200 JC	220	280	78 JC	320	74	270 JC	1900	270	360
	5.8 - 7.1'	7/24/2008	3068	54	39	83	280	240	240	220 JC	170	320	74 JC	680	72	330 JC	270	330	490
	7.1 - 7.7'	7/24/2008	7753	2000	93	190	340	310	360	280 JC	240	430	80 JC	740	780	360 JC	690	690	770
T17A																			
	0 - 0.5'	7/29/2008	5109	75	110	190	470	540	420	380	410 JC	660	110	840	110	440	64	800	790 JC
	0.5 - 1.7'	7/29/2008	14560	2600	180	810	780	810	680	450	450 JC	770	120	1700	1200	560	220	2000	1500 JC
T17B																			
	0 - 0.5'	7/29/2008	2447.3	65	< 5.6 U	110	200	220	160	140	160 JC	240	43	490	50	200	59	300	380 JC
	0.5 - 1.6'	7/29/2008	2147.15	33	< 6.3 U	84	180	200	170	150	200 JC	220	46	400	32	210	35	200	240 JC
	1.6 - 2.6'	7/29/2008	2169.3	38	< 6.6 U	94	190 JC	190 JC	200	160 JC	140	200	77 JC	380 JC	46 JC	170	37	260	350
	2.6 - 3.8'	7/29/2008	16014	1100	120	1200	1000 JC	930 JC	700	520 JC	500	980	120 JC	2000 JC	1900 JC	810	94	4900	2100
	3.6 - 4.7'	7/29/2008	30510	12000	160	1800	890	860 JC	470	290	450 JC	870	74 JC	1800	4150 JC	410 JC	610	8000	1700
	4.7 - 5.1'	7/29/2008	220400	34000	1200	19000	7200 JC	6800 JC	4700	3100	3900 JC	6600	840 JC	25000 JC	37000 JC	3900 JC	2300	70000	24000
T17C																			
	0 - 0.5'	7/28/2008	864.6	< 4 U	< 2.6 U	28	77	88	90	66	67 JC	98	19	190	< 2.6 U	72	< 2.2 U	100	140 JC
	0.5 - 1.5'	7/29/2008	6316	75	56	150	370 JC,Q	350 JC,Q	670 JQ	390 JC,Q	440 JQ	640 JQ	130 JC	1200 JC,Q	79 JC	450 JC,Q	15	570 JC,Q	1000 JQ
	1.6 - 2.7'	7/29/2008	1251.5	17	< 3 U	38	120	140	130	87	100 JQ	160	28	240	20	100	25	130	200 JC
	2.7 - 3.7'	7/29/2008	1133.7	< 6.1 U	< 5.3 U	39	120	80	80	72 JC	58	170	40 JC	180	39	88 JC	110	150	130
	3.7 - 4.8'	7/29/2008	3697	350	55	320	320	340	260	170 JC	190	320	83 JC	440	320	260 JC	63	530	430
	4.8 - 5.9'	7/29/2008	3138	90	48	130	240	220	260	160	150 JC	310	81	530	110	180	120	480	390 JC
	5.8 - 6.6'	7/28/2008	145730	22000	930	10000	8600 JC	4400 JC	2900	2800 JC	2400	4900	970 JC	16000 JC	18000 JC	2700 JC	1700	37000	16000
T18A																			
	0 - 0.5	7/30/2008	4543	83	28	280	240	330 JC	310	210	270 JC	300	51 JC	1000	88	230 JC	58	890	930
T18B																			
	0 - 0.5	7/30/2008	99.35	< 3.3 U	< 2.3 U	< 3 U	13	< 3.3 UJC	17	25	< 4 UJC	< 2.8 U	< 2.8 UJC	25	< 2.2 U	16 JC	< 1.9 U	11 -.5	19
	0.5 - 1.1	7/30/2008	1146.78	< 6.8 U	< 6.6 U	48	88	77 JC	120	110	68 JC	88	< 7.8 UJC	220	33 -.8	86	< 6.3 U	170	200
T18C																			
	0 - 0.7'	7/29/2008	1944.85	< 12 U	< 8.5 U	74 JC	180	170 JC	170	130	130	220	43 JC	410	47	150 JC	< 8.8 U	200	290
	0.7 - 2'	7/29/2008	2469.05	49	< 8.7 U	88 JC	210	200 JC	200	160	170	260	64 JC	470	58	200 JC	< 8.4 U	270	420

Table B-3 PAH SEDIMENT ANALYTICAL RESULTS (Continued)

1665 Wisconsin Public Service Corp., WPSC-CampMarina Sediment Remediation, Sheboygan, WI
732 Water Street, Sheboygan, Wisconsin
USEPA# : WIN000510058 **BRRTS# : 0260000095**

Sample ID	*Depth*	*Collection Date*	*PAHs, Total*	*Acenaphthene*	*Acenaph-thylene*	*Anthracene*	*Benzo(a)-anthracene*	*Benzo(a)-pyrene*	*Benzo(b)-fluoranthene*	*Benzo(g,h,i)-perylene*	*Benzo(k)-fluoranthene*	*Chrysene*	*Dibenzo(a,h)-anthracene*	*Fluoranthene*	*Fluorene*	*Indeno (1,2,3-cd) pyrene*	*Naph-thalene*	*Phenanthrene*	*Pyrene*
Sediment Screening Benchmarks																			
Benchmarks				389	385	57.2	108	150	783	662	791	166	33	423	77.4	689	176	204	195

Notes See figures for sample locations.

1) Parameters that attain or exceed a Sediment Screening Benchmark are identified in bold and underlined.

2) The hierarchy for the Sediment Benchmarks is provided on Table 14 - Sediment Screening Benchmark Values.

3) Depth reflects core correction for fine-grained borings

<2.0 Parameter not detected above the Limit of Detection indicated.

NS. Sediment Quality Guideline Value has not been established for this parameter

Qualifiers (J, N, R, etc.) Analyte result has been qualified by data validator, see validation report for additional information.

-- Analysis not performed.

QC. Quality Control duplicate sample

Table B-3 PAH SEDIMENT ANALYTICAL RESULTS (Continued)

1665 Wisconsin Public Service Corp., WPSC-CampMarina Sediment Remediation, Sheboygan, WI
732 Water Street, Sheboygan, Wisconsin
USEPA# : WIN000510058 **BRRTS# : 0260000095**

Sample ID	Depth	Collection Date	C1- Fluoranthenes/ Pyrenes	C1- Fluorenes	C2- Fluorenes	C3- Fluorenes	Indeno (1,2,3-cd) pyrene	Naph-thalene	C1- Naph-thalenes	C2-Naph-thalenes	C3-Naph-thalenes	C4-Naph-thalenes	Perylene	Phenanthrene	C1-Phen-anthrenes/ Anthracenes	C2-Phen-anthrenes/ Anthracenes	C3-Phen-anthrenes/ Anthracenes	C4-Phen-anthrenes/ Anthracenes	Pyrene
Sediment Screening Benchmarks																			
Benchmarks			NS	NS	NS	NS	690	176	NS	NS	NS	NS	NS	204	NS	NS	NS	NS	195
BKG06																			
	0 - 0.5'	7/22/2008	80	13	33	25	38	21	23	49	38	41	101	101	70 J*III	68	77	34	137
BKG07																			
	0 - 0.5'	7/22/2008	33	6	7	< 4 U	20	12	12	14	12	8	35	35	20	18	15	11	53
	0.5 - 1.5'	7/22/2008	104	21	69 J*III	73	51	57	38	77	69	69	123	123	103 J*III	115	101	58	185
BKG08																			
	0 - 0.5'	7/21/2008	270	37	85 J*III	108	157	74	67		119	101	333	333	356 J*III	206	163	99	479
QC04																			
(7112)	0.5 - 1.5'	7/23/2008	11400	2260	2420 JH	1230	1830 JH	973 JC,H	3310	5180	3690	1980	12100 JH	12100 JH	12800 JH	7110 JH	2380 JH	712 JH	12200 JH
QC10																			
(7102)	0.5 - 1.5'	7/25/2008	33500	9200	4810 JH	1540	2040 JH	2161 JC,H	6230	16200	11200	2430	49800 JH,S	49800 JH,S	45400 JH	17400 JH	2890 JH	577 JH	30900 JH,S
T01A																			
	0 - 0.5'	7/21/2008	100	10	30 J*III	22 J*III	93	19	16	36	22	16	127	127	82 J*III	44	28	17	178
T01B																			
	0 - 0.5'	7/21/2008	484	22	28	10	126	13	8	7	10	22	12	12	338	87	110	54	12
T01C																			
	0 - 0.5'	7/21/2008	117	12	41 J*III	29 J*III	64	23	19	43	27	19	144	144	86 J*III	53	37	23	232
T02A																			
	0 - 0.5'	7/21/2008	4	< 2 U	< 2 U	< 2 U	1 J	< 2 U	1 J	4	3	3	3 UB	3 UB	3	4	4	4	4
	1.9 - 3.2'	7/21/2008	2880	636 JH	323 JH	237	755 JH	1180 JC,H	1120	1990	977	282	7870 JH	7870 JH	3380 JH, *III	1180 JH	416 JH	177 JH	4600 JH
T02B																			
	0 - 0.5'	7/21/2008	92	13	36 J*III	43	65	33	31	88	43	36	126	126	90 J*III	72	60	38	186
T02C																			
	0 - 0.5'	7/21/2008	484	29	34 J*III	16 J*III	135	31	29	29	36	101	35	35	307 J*III	70	142	62	25
	0.5 - 1.5'	7/21/2008	475 JH	69 JH	98 JH	83 JH	262 JH	165 JH	172	414	279	135	760 JH	760 JH	475 JH, *III	330 JH	207 JH	111 JH	778 JH
	1.5 - 2.5'	7/21/2008	1120	82 JH	161 JH	272	611 JH	249 JH	161	343	256	253 JH,	1990 JH	1990 JH	909 JH, *III	1380 JH, *III	1750 JH, *III	3010 JH	1870 JH
	3.5 - 4.5'	7/21/2008	193 JH	33 JH	31 JH	45 JH	78 JH	151 JH	53	78	71 JH	35 JH	311 JH	311 JH	184 JH	187 JH	103 JH	60 JH	336 JH
T03A																			
	0 - 0.5'	7/23/2008	147 JH	19 JH	60 JH	62 JH	123 JH	58 JH	102	137	66 JH	66 JH	333 JH	333 JH	133 JH, *III	124 JH	97 JH	51 JH	284 JH
T03B																			
	0 - 0.5'	7/23/2008	36	7	9	14	12	10	13	38	17	38 J*III	53	53	35 JC	25 JC	20 JC	12 JC	57
T03C																			
	0 - 0.5'	7/23/2008	2550	178	303 J*III	106	754	174			195	147	937 JQ	937 JQ	2170 J*III	1340	429	151	2940
T04A																			
	0 - 0.5'	7/28/2008	613	84	97 J*III	218 J*III	344	538		508	315	433 J*III	538	538	529 J*III C	429 JC	337 JC	405 JC	810
	1.7 - 2.8'	7/28/2008	3240	679	492	576 J*III	1730	7190			1220	440	6870	6870	3600 JC,*III	1770 JC	909 JC	454 JC	6780
	7.2 - 8.3'	7/28/2008	9860	3570	1530	600	1260	23600			4940	914	28000	28000	15300 JC	5090 JC	1150 JC	312 JC	12200

Table B-3 PAH SEDIMENT ANALYTICAL RESULTS (Continued)

1665 Wisconsin Public Service Corp., WPSC-CampMarina Sediment Remediation, Sheboygan, WI
732 Water Street, Sheboygan, Wisconsin
USEPA# : WIN000510058 **BRRTS# : 0260000095**

Sample ID	*Depth*	*Collection Date*	*C1- Phenanthrenes/ Pyrene*	*C1- Fluorenes*	*C2- Fluorenes*	*C3- Fluorenes*	*Indeno (1,2,3-cd) pyrene*	*Naph-thalene*	*C1- Naph-thalenes*	*C2-Naph-thalenes*	*C3-Naph-thalenes*	*C4-Naph-thalenes*	*Perylene*	*Phenanthrene*	*C1-Phen-anthrenes/ Anthracenes*	*C2-Phen-anthrenes/ Anthracenes*	*C3-Phen-anthrenes/ Anthracenes*	*C4-Phen-anthrenes/ Anthracenes*	*Pyrene*
Sediment Screening Benchmarks																			
Benchmarks			NS	NS	NS	NS	999	176	NS	NS	NS	NS	NS	204	NS	NS	NS	NS	195
T04B																			
	0 - 0.5'	7/28/2008	150	57	39	33 J*II	31	194	88	130	80	109 J*II	226	223	147 J*II	77	40	18	376
	1.5 - 2.5'	7/28/2008	4690	1080	542 JH	290	433 JH	833 JC,H	747	1570	1420	410	6349 JH	6349 JH	7120 JH,*II	2530 JH	805 JH	200 JH	4390 JH
	4.5 - 5.5'	7/28/2008	676	123	65	42 J*II	180	749			170	47	2020	2020	764 JC,*II	226 JC	65 JC	28 JC	1270
	6.5 - 7.5'	7/28/2008		40100	22400	6270	12900	49300 JC	146000	190000	65000	10000	224000	224000	181000	64900	13400	3290	114000
T04C																			
	0 - 0.5'	7/25/2008	176 JH	9 JH	11 JH	21 JH,*II	118 JH	17 JH	19	77	21 JH	60 JH,*II	157 JH	157 JH	79 JH	47 JH	28 JH	15 JH	348 JH
T04D																			
	0 - 0.5'	7/28/2008	79 JH	19 JH	62 JH,*II	57 JH	38 JH	32 JH	33	88	69 JH	98 JH	67 JH	67 JH	295 JH,*II	83 JH	84 JH	48 JH	126 JH
T05A																			
	0 - 0.7'	7/23/2008	407	40	89 J*II	89 J*II	364	143	68		100	131	344	344	269 J*II	221	140	74	881
	4.8 - 5.8'	7/23/2008	92500	20200	8640	3310	18900	782000 B	333000			4680	326000 B	326000 B	129000 JC	32300 JC	8050 JC	1640 JC	120000
	5.9 - 7.2'	7/23/2008		38000	14000	5400	18900	433000 B				6510	234000	234000	184000 JC	49100 JC	9490 JC	2060 JC	131000
T05B1																			
	0 - 0.6'	7/25/2008	226	34	41	49 J*II	138	66	61		81	67	194	194	178 JC *II	110 JC	73 JC	33 JC	414
T05C2																			
	0 - 0.7'	7/24/2008	93	11	13	27 J*II	53	27	20		40	319 J*II	244	244	78 JC	48 JC	28 JC	15 JC	283
T05D																			
	0 - 0.8'	7/24/2008	18	2 J	< 2 U	< 2 U	11	8	5	7	4	< 2 U	10 UB	10 UB	8 JC	7 JC	6 JC	5 JC	27
T05E																			
	0 - 0.8'	7/24/2008	60	19	44 J*II	48	44	28	38	84	56	50	84	84	74 J*III	78	60	58	118
T08A																			
	0 - 0.6'	7/30/2008	357	50	102 J*II	133 J*II	272	173		513	207	478 J*II	361	361	263 J*III,C	257 JC	191 JC	91 JC	539
T06B																			
	0 - 0.5	7/28/2008	38 JH	2 JH	3 JH	< 3	32 JH	3 JH	3	6 JH	4 JH	9 JH, *II	37 JH	37 JH	21 JH	14 JH	8 JH	6 JH	60 JH
T08C																			
	0 - 0.5'	7/25/2008	41 JH	3 JH	< 2 UJH	< 2	47 JH	3 JH	3	71	11 JH	68 JH,*II	21 JH	21 JH	20 JH	16 JH	9 JH	7 JH	75 JH
T07A																			
	0 - 0.5'	7/30/2008	174	36	70	76 J*II	109	109	90		119	137 J*II	295	295	169 J*III,C	158 JC	105 JC	57 JC	393
T07B																			
	0 - 0.5'	7/28/2008	46 JH	6 JH	10 JH	13 JH	29 JH	34 JH	43	58	25 JH	47 JH,*II	34 JH	34 JH	22 JH	21 JH	21 JH	15 JH	78 JH
T07C																			
	0 - 0.5'	7/28/2008	43	5	8	10	17	13	20	248	34	342 J*II	23	23	14 JC	17 JC	17 JC	14 JC	44
T08A																			
	0 - 0.5'	7/30/2008	2110	301 JB	344 JB *II	464	1100 JB	810 JB	2250	1480	885	874	2339 JB	2339 JB	1790 JC,B,*II	1220 JC,B	740 JC,B	343 JC,B	2960 JB
T08B																			
	0 - 0.5'	7/29/2008	2510	249	171	351 J*II	1910	474			277	171 J*II	8570	8570	2180	805	270	94	7610
T08C																			
	0 - 0.5'	7/25/2008	24900	7730	3430 JH	1920	2220 JH	1380 JH	5760	14900	5760	1990	49000 JH,B	49000 JH,B	32600 JH	11300 JH	2140 JH	683 JH	21800 JH,B
T08D																			
	0 - 0.5'	7/24/2008	9	3 J	< 3 U	< 3 U	5 UB	3 UB	3	10	7	8	14	14	7	7	7	6	18

Table B-3 PAH SEDIMENT ANALYTICAL RESULTS (Continued)

1665 Wisconsin Public Service Corp., WPSC-CampMarina Sediment Remediation, Sheboygan, WI
732 Water Street, Sheboygan, Wisconsin
USEPA# : WIN000510058 **BRRTS# : 0260000095**

Sample ID	Depth	Collection Date	C1- Phenanthrene/ Pyrenes	C1- Fluorenes	C2- Fluorenes	C3- Fluorenes	Indeno (1,2,3-cd) pyrene	Naphthalene	C1- Naphthalenes	C2-Naphthalenes	C3-Naphthalenes	C4-Naphthalenes	Perylene	Phenanthrene	C1-Phenanthrenes/ Anthracenes	C2-Phenanthrenes/ Anthracenes	C3-Phenanthrenes/ Anthracenes	C4-Phenanthrenes/ Anthracenes	Pyrene
Sediment Screening Benchmarks																			
Benchmarks			NS	NS	NS	NS	599	176	NS	NS	NS	NS	NS	204	NS	NS	NS	NS	195
T08D1																			
	0 - 0.5'	7/29/2008	83	19	35 J*II	39 J*II	54	64	64	239	87	329 J*II	134	134	83 J*II,C	68 JC	83 JC	28 JC	160
T08E																			
	0 - 0.5	7/24/2008	132	24	63 J*II	65	79	46	43		77	69	160	160	160 J*II	114	105	63	210
T08A																			
	0 - 0.5'	7/28/2008	10800	1500	963	532 J*II	4150	2800			2060	656	11400	11400	6560 JC	3650 JC	1220 JC	368 JC	10200
T09B																			
	0 - 0.5'	7/25/2008	109 JH	17 JH	< 3 UJH	< 3	79 JH	10 JH	11	68	31 JH	48 JH,*II	147 JH	147 JH	98 JH,*II	42 JH	18 JH	10 JH	228 JH
T09C																			
	0 - 0.5	7/25/2008	53 JH	8 JH	16 JH	19 JH	31 JH	14 JH	13	57	25 JH	83 JH,*II	63 JH	63 JH	40 JH,*II	29 JH	20 JH	13 JH	90 JH
T09D																			
	0 - 0.5	7/24/2008	59 JS	31 JS	68 JS,*II	54 JS	21 JS	27 JS	47	127	106	76 JS	95 JS	95 JS	108 JS,*II	99 JS	86 JS	33 JS	93 JS
T10A																			
	0 - 0.5'	7/29/2008	3900	285 JH	188 JH	122	873 JH	279 JC,H	626	869	372	334	2410 JH	2410 JH	2150 JH	945 JH	222 JH	80 JH	3340 JH
T10B																			
	0 - 0.5'	7/29/2008	218 JH	78 JH	130 JH	107	73 JH	65 JC,H	111	288	287	218	326 JH	326 JH	289 JH,*II	222 JH	144 JH	72 JH	304 JH
T10C																			
	0 - 0.5	7/25/2008	928 JH	271 JH	154 JH	68 JH	188 JH	328 JC,H	499	748	425	118	1640 JH	1640 JH	1150 JH	621 JH	170 JH	56 JH	1160 JH
	0.5 - 1.5'	7/25/2008	49700	14700	5670	2240	2550	18200				3490	62000	62000	69800	21800	4110	908	44100
	1.5 - 2.7'	7/25/2008	43100	11500	5360	1740	7810	20800				3150	61300	61300	59700	19400	4050	658	54000
T10D																			
	0 - 0.7'	7/24/2008	136	71	85 J*II	103	96	118			400	536 J*II	220	220	209 J*II	165	112	55	220
T11A																			
	0 - 0.5'	7/22/2008	22	5	7	13	11	7	8		20	157 J*II	31	31	21 JC	20 JC	16 JC	11 JC	63
	1.5 - 2.7'	7/22/2008	30000	3730	3110 JS	2060	17700 JS	3760 JS	3730	6150	4550	2100	64800 JS	64800 JS	28000 JS	12200 JS	5630 JS	5840 JS	39300 JS
T11B																			
	0 - 0.5'	7/23/2008	34200	6800	4230	2920	4470	1800				2550	69600 S	69600 S	41600 JC	15600 JC	3340 JC	1000 JC	20100 S
T11C																			
	0 - 0.5'	7/23/2008	1020	382	252 J*II	160	343	1670			716	234	3770	3770	1550 J*II	726	305	142	1770
	0.5 - 1.5	7/23/2008	14700	3760	3970	2010	2310	1760			6030	2740	21200	21200	16800	10000	3940	2190	16000
T11D																			
	0 - 0.5'	7/23/2008	97	18	39 J*II	50	53	35	60	89	89	84	81	81	67 J*II	98	65	43	137
	0.5 - 2.3'	7/23/2008	1200	508 JH	173 JH	89 JH	123 JH	636 JC,H	3310	2050	877	197	3130 JH	3130 JH	2060 JH	585 JH	152 JH	53 JH	1400 JH
	2.3 - 3.8'	7/23/2008		32400	13160	4020	14900	221000				6480	218000	218000	164000	51600	9260	1740	132000
	3.8 - 5.4'	7/23/2008		25400	8930	3580	14000	139000				4150	272000	272000	141000	33300	5760	1460	145000
T11E																			
	0 - 0.5'	7/29/2008	238	67	84	100 J*II	155	618			919	191	604 J*II	618	203 JC,*II	158 JC	123 JC	73 JC	618
T12A																			
	0 - 0.5'	7/22/2008	890	28	68	378 J*II	667	45	35	67	50	62 J*II	1220	1220	522 JC	556 JC	765 JC	657 JC	1990

Table B-3 PAH SEDIMENT ANALYTICAL RESULTS (Continued)

1665 Wisconsin Public Service Corp., WPSC-CampMarina Sediment Remediation, Sheboygan, WI
732 Water Street, Sheboygan, Wisconsin
USEPA# : WIN000510058 **BRRTS# : 0260000095**

Sample ID	Depth	Collection Date	C1- Phen-anthrene/ Pyrene	C1- Fluorenes	C2- Fluorenes	C3- Fluorenes	Indeno (1,2,3-cd) pyrene	Naph-thalene	C1- Naph-thalenes	C2-Naph-thalenes	C3-Naph-thalenes	C4-Naph-thalenes	Perylene	Phenanthrene	C1-Phen-anthrenes/ Anthracenes	C2-Phen-anthrenes/ Anthracenes	C3-Phen-anthrenes/ Anthracenes	C4-Phen-anthrenes/ Anthracenes	Pyrene
Sediment Screening Benchmarks																			
Benchmarks			NS	NS	NS	NS	599	176	NS	NS	NS	NS	NS	204	NS	NS	NS	NS	195
T12B																			
	0 - 0.5'	7/22/2008	4550	277	299	312 J*II	1460	133	59		260	175	4230	4230	2910	1420	510	163	8970
	0.5 - 1.7'	7/22/2008	8820	1470	861 JH,S	655	8240 JH,S	1660 JC,H,S	635	1630	1900	810	8960 JH,S	8960 JH,S	6690 JH,S	4870 JH,S	1470 JH,S	546 JH,S	8190 JH,S
	2.5 - 3.5'	7/22/2008	6340	1200	966	433	3460	3430			1820	659	22100	22100	6380	2830	1220	1250	13200
T12C																			
	0 - 0.5	7/22/2008	521	52	64	108 J*II	356	55	67		85	66	1010	1010	378 J*II	189	100	45	1140
	2.7 - 3.5'	7/22/2008	7990	3030	1150	419	1010	9781			4650	743	22000	22000	12600	3570	760	264	9900
	3.5 - 4.5'	7/22/2008	60900	16300	7020	2610	8460	82300				3140	139000	139000	93000	25900	4520	1100	84500
T12D																			
	0 - 0.5'	7/22/2008	37	6	17 J*II	< 3 U	36	26	42	76	40	19	40	49	22 JC *III	15 JC	13 JC	5 JC	82
T13A																			
	0 - 0.5'	7/22/2008	27	< 5 U	< 5 U	< 5 U	20	8	5 J	8	8	5	30	30	13	12	10	8	65
T13B																			
	0 - 0.5'	7/22/2008	58	10	26 J*II	40	31	18	20	48	32	29	54	54	50 J*III	60	70	46	81
T13C																			
	0 - 0.5'	7/22/2008	1100	264	145	82	248	173			386	141	1530	1530	1250	517	160	46	1190
T14A																			
	0 - 0.5'	7/23/2008	193 JS	50 JS	190 JS,*II	151	86 JS	107 JS	172	255	203	100	256 JS	256 JS	244 JS,*III	257 JS	310 JS	125 JS	203 JS
T14B																			
	0 - 0.5'	7/29/2008	90	28	24 J*II	20	46	27	63		58	38 J*II	175	175	112 J*II,C	51 JC	22 JC	18 JC	153
T14C																			
	0 - 0.5'	7/29/2008	46	8	7	< 3 U	46	30	17	140	25	165 J*II	55	55	28 JC	15 JC	9 JC	6 JC	63
T15A																			
	0 - 0.5'	7/23/2008	73	19	22 J*II	< 2 U	10	13	9	59	13	69 J*II	18	18	42 J*III	27	9	4	180
T15B																			
	0 - 0.5'	7/24/2008	142	14	41 J*II	35 J*II	126	24	21	76	33	24	198	198	104 J*II	57	38	25	316
T15C																			
	0 - 0.5	7/24/2008	170	19	49 J*II	47 J*II	144	28	34		60	35	243	243	152 J*II	77	52	33	378
T16A																			
	0 - 0.75	7/23/2008	610	60	57	44 J*II	280	196	93	93	78	58	426	426	437	243	81	27	934
T16B																			
	0 - 0.5'	7/24/2008	104	10	31 J*II	19 J*II	87	21	21	57	22	15	126	126	62 J*III	46	29	16	216
T16C																			
	0 - 0.5'	7/24/2008	30	11	14 J*II	10	22	33	53	69	62	29	50	50	28	22	15	11	58
T17A																			
	0 - 0.5'	7/29/2008	10000	605 JS	640 JS	3020	19100 JS	6160 JS	1440	1070	700	548	57800 JS	57800 JS	7700 JC,S	2410 JC,S	1090 JC,S	379 JC,S	59000 JS
T17B																			
	0 - 0.5'	7/29/2008	184	36	69 J*II	56	86	132	95		93	56	378	378	209 JC,*II	122 JC	77 JC	36 JC	291
T17C																			
	0 - 0.5'	7/29/2008	102	14	21 J*II	24 J*II	76	21	22	50	28	25	180	180	114 J*II,C	48 JC	30 JC	23 JC	209

Table B-3 PAH SEDIMENT ANALYTICAL RESULTS (Continued)

1665 Wisconsin Public Service Corp., WPSC-CampMarina Sediment Remediation, Sheboygan, WI
732 Water Street, Sheboygan, Wisconsin
USEPA# : WIN000510058 **BRRTS# : 0260000095**

Sample ID	*Depth*	*Collection Date*	*C1- Phenanthrenes/ Pyrenes*	*C1- Fluorenes*	*C2- Fluorenes*	*C3- Fluorenes*	*Indeno (1,2,3-cd) pyrene*	*Naph - thalene*	*C1- Naph- thalenes*	*C2-Naph- thalenes*	*C3-Naph- thalenes*	*C4-Naph- thalenes*	*Perylene*	*Phenanthrene*	*C1-Phen- anthrenes/ Anthracenes*	*C2-Phen- anthrenes/ Anthracenes*	*C3-Phen- anthrenes/ Anthracenes*	*C4-Phen- anthrenes/ Anthracenes*	*Pyrene*
Sediment Screening Benchmarks																			
Benchmarks			NS	NS	NS	NS	888	176	NS	NS	NS	NS	NS	204	NS	NS	NS	NS	195
T18A																			
	0 - 0.5'	7/30/2008	95 JH	9 JH	23 JH,*II	21 JH,*II	35 JH	17 JH,C	14	68	23	78	67 JH	57 JH	88 JH *ID	48 JH	33 JH	19 JH	138 JH
T18B																			
	0 - 0.5'	7/30/2008	17 JH	3 JH	4 JH	< 3	4 JH	4 JH,C	3	19	6 JH,C	18	6 UJB,H	6 UJB,H	8 JH	6 JH	10 JH	10 JH	11 JH
T18C																			
	0 - 0.7'	7/29/2008	55 JH,S	22 JH,S	68 JH,S, *II	64 JH,S	30 JH,S	25 JH,S,C	32	115 JH,S	84	134 JH,S,	79 JH,S	79 JH,S	98 JH,S, *II	60 JH,S	65 JH,S	43 JH,S	100 JH,S

Notes See figures for sample locations.

1) Parameters that attain or exceed a Sediment Screening Benchmark are identified in bold and underlined
2) The hierarchy for the Sediment Benchmarks is provided on Table 14 - Sediment Screening Benchmark Values.
3) Depth reflects core correction for fine-grained borings.

<2.0 Parameter not detected above the Limit of Detection indicated.
NS Sediment Quality Guideline Value has not been established for this parameter
Qualifiers (J N, R, etc.) Analyte result has been qualified by data validator, see validation report for additional information
-- Analysis not performed.
QC: Quality Control duplicate sample

Table B-3 PAH SEDIMENT ANALYTICAL RESULTS (Continued)

1665 Wisconsin Public Service Corp., WPSC-CampMarina Sediment Remediation, Sheboygan, WI
732 Water Street, Sheboygan, Wisconsin
USEPA# : WIN000S10058 **BRRTS# : 0260000095**

Sample ID	*Depth*	*Collection Date*	*Acenaphthene*	*Acenaph-thylene*	*Anthracene*	*Benzo(a)-anthracene*	*C1-Benz(a) anthracenes/ Chrysenes*	*C2-Benz(a) anthracenes/ Chrysenes*	*C3-Benz(a) anthracenes/ Chrysenes*	*C4-Benz(a) anthracenes/ Chrysenes*	*Benzo(a)-pyrene*	*Benzo(e)-pyrene*	*Benzo(b)-fluoranthene*	*Benzo(g,h,i)-pyrene*	*Benzo(k)-fluoranthene*	*Chrysene*	*Dibenz(a,h)-anthracene*	*Fluoranthene*	*Fluorene*
Sediment Screening Benchmarks																			
Benchmarks			396	385	57.2	108	NS	NS	NS	NS	150	NS	788	662	781	166	33	423	77.4
BKG06																			
	0 - 0.5'	7/22/2008	12	10	36	64	44	44	34	33	58	48	52	40	51	70	10	151	17
BKG07																			
	0 - 0.5'	7/22/2008	6	4 J	15	33	21	22	24	< 4 U	27	26	28	22	26	33	5	79	8
	0.5 - 1.5'	7/22/2008	26	17	37	64	74	76	63	63	69	71	71	58	58	69	14	179	20
BKG08																			
	0 - 0.5'	7/21/2008	27	41	108	241	263	326	134	84	249	194	228	159	210	281	39	617	42
QC04 (TRIP)	0.5 - 1.5'	7/23/2008	2980 JH	1070 JH	6190 JH	5410 JH	4900 JH	1930 JH	819 JH	281 JH	4940 JH	2450 JH	2110 JH	2220 JH	2510 JH	5050 JH	668 JH	8340 JH	2080 JH
QC10 (TRIP)	0.5 - 1.5'	7/25/2008	8810 JH	1100 JH	28700 JH.S	9950 JH	7890 JH	2920 JH	417 JH	334 JH	6820 JH	2930 JH	2850 JH	1810 JH	3790 JH	8720 JH	686 JH	24000 JH.S	10900 JH
T01A																			
	0 - 0.5'	7/21/2008	12	12	32	81	70	35	27	26	119	92	124	90	111	128	19	247	18
T01B																			
	0 - 0.5'	7/21/2008	14	16	6	378	186	204	63	42	170	171	28	117	21	127	31	25	52
T01C																			
	0 - 0.5'	7/21/2008	19	17	38	193	65	44	27	23	109	97	127	92	117	143	20	278	19
T02A																			
	0 - 0.5'	7/21/2008	< 2 U	< 2 U	< 2 U	1 J	2	4	< 2 U	< 2 U	1 J	1 J	2 J	2	2 J	2	< 2 U	4	1 J
	1.8 - 3.3'	7/21/2008	3300 JH	350 JH	3320 JH	1990 JH	872 JH	398 JH	143 JH	113 JH	1550 JH	858 JH	885 JH	732 JH	1030 JH	1810 JH	172 JC.H	3890 JH	2230 JH
T02B																			
	0 - 0.5'	7/21/2008	10	14	36	84	76	67	42	34	91	73	90	67	85	113	16	213	19
T02C																			
	0 - 0.5'	7/21/2008	53	55	42	284	168	220	87	45	172	193	29	130	23	167	31	40	20
	0.5 - 1.5'	7/21/2008	93 JH	68 JH	328 JH	346 JH	317 JH	124 JH	63 JH	67 JH	333 JH	673 JH	254 JH	208 JH	244 JH	397 JH	60 JH	795 JH	66 JH
	1.5 - 2.5'	7/21/2008	133 JH	100 JH	321 JH	934 JH	1390 JH	1010 JH	531 JH	421 JH	890 JH	83 JH	649 JH	586 JH	622 JH	983 JH	163 JH	1540 JH	101 JH
	3.5 - 4.5'	7/21/2008	44 JH	24 JH	70 JH	138 JH	63 JH	61 JH	33 JH	< 3 UJH	124 JH	235 JH	88 JH	77 JH	95 JH	141 JH	19 JH	320 JH	45 JH
T03A																			
	0 - 0.5'	7/23/2008	23 JH	39 JH	54 JH	139 JH	89 JH	86 JH	40 JH	36 JH	184 JH	124 JH	151 JH	123 JH	132 JH	187 JH	31 JH	338 JH	28 JH
T03B																			
	0 - 0.5'	7/23/2008	16	4	19 JC	22	16	16	14	< 3 U	16	16	16	13	17	25	3 J	56	12
T03C																			
	0 - 0.5'	7/23/2008	127	233	627	1240	1030	1050	481	270	1450	974	886	758	806	1250	313	2190	178
T04A																			
	0 - 0.5'	7/28/2008	160	185	267 JC	498	288	174	103	74	472	349	442	335	427	524	86 JC	870	75
	1.7 - 2.8'	7/28/2008	2640	633	3080 JC	3740	1280	627	349	280	3190	1710	2220	1660	2260	2770	421	6280	1640
	7.2 - 8.3'	7/28/2008	18800	1150	8810 JC	4880	2860	1020	358	270	3290	1670	1780	1310	2000	3810	373	10800	9410

Table B-3 PAH SEDIMENT ANALYTICAL RESULTS (Continued)

1665 Wisconsin Public Service Corp., WPSC-CampMarina Sediment Remediation, Sheboygan, WI
732 Water Street, Sheboygan, Wisconsin
USEPA# : WIN000510058 **BRRTS# : 0260000095**

Sample ID	*Depth*	*Collection Date*	*Acenaphthene*	*Acenaphthylene*	*Anthracene*	*Benzo(a)-anthracene*	*C1-Benz(a) anthracenes/ Chrysenes*	*C2-Benz(a) anthracenes/ Chrysenes*	*C3-Benz(a) anthracenes/ Chrysenes*	*C4-Benz(a) anthracenes/ Chrysenes*	*Benzo(a)-pyrene*	*Benzo(e)-pyrene*	*Benzo(b)-fluoranthene*	*Benzo(g,h,i)-perylene*	*Benzo(k)-fluoranthene*	*Chrysene*	*Dibenzo(a,h)-anthracene*	*Fluoranthene*	*Fluorene*
										Sediment Screening Benchmarks									
Benchmarks			399	385	57.2	108	NS	NS	NS	NS	150	NS	768	882	791	166	33	423	77.4
T04B																			
	0 - 0.5'	7/28/2008	65	21	133	88	43	26	27	13	58	43	45	32	48	87	9 UB	309	199
	1.5 - 2.5'	7/28/2008	1590 JH	308 JH	3280 JH	1780 JH	1280 JH	478 JH	183 JH	113 JH	1180 JH	696 JH	706 JH	443 JH	831 JH	1980 JH	163 JG,H	3890 JH	1240 JH
	4.5 - 5.5'	7/28/2008	880	69	639 JG	423	176	63	26	30	377	188	195	156	242	377	29	1040	493
	6.5 - 7.5'	7/28/2008	108000	12100	117000	53000	22200	11200	2890	1080	32800	14400	17200	11200	21800	44200	2850	97000	77000
T04C																			
	0 - 0.5'	7/25/2008	20 JH	10 JH	55 JH	187 JH	64 JH	39 JH	26 JH	23 JH	187 JH	114 JH	153 JH	106 JH	160 JH	201 JH	28 JH	425 JH	18 JH
T04D																			
	0 - 0.5'	7/28/2008	11 JH	12 JH	28 JH	51 JH	40 JH	37 JH	29 JH	< 4 UJH	51 JH	43 JH	50 JH	41 JH	48 JH	64 JH	8 JH	127 JH	14 JH
T05A																			
	0 - 0.7'	7/23/2008	44	131	126	394	281	267 JTD	102	70	482	332	418	388	397	481	87	712	50
	4.8 - 5.8'	7/23/2008	228000	11400	110000 JG,3	47900	21200	8120	1520	1150	38100	17400	20900	15000	34700	39200	4340	109000	113000
	5.9 - 7.2'	7/23/2008	187000	12800	128000 JG	63600	28200	8980	2020	1190	37700	19400	29400	14400	34700	48900	4510	103000	99000
T05B1																			
	0 - 0.8'	7/25/2008	88	24	159 JG	212	118	76	84	33	209	141	170	131	172	222	37	498	78
T05C2																			
	0 - 0.7'	7/24/2008	24	10	70 JG	102	45	42	32	29	83	63	77	54	74	104	13	326	32
T05D																			
	0 - 0.8'	7/24/2008	2 J	3	5 UJB,C	15	10	18	15	< 2 U	15	17	14	18	12	18	4 UB	31	3 UB
T06E																			
	0 - 0.5'	7/24/2008	7	12	20	56	147	102 J"II	60	43	60	55	60	50	55	82	11	132	15
T06A																			
	0 - 0.6'	7/30/2008	62	172	121 JG	283	278	329	149	198	304	273	322	276	291	349	66 JG	584	64
T06B																			
	0 - 0.5'	7/28/2008	2 JH	5 JH	11 JH	43 JH	19 JH	21 JH	19 JH	21 JH	45 JH	35 JH	39 JH	37 JH	38 JH	48 JH	7 JH	109 JH	3 JH
T06C																			
	0 - 0.5'	7/25/2008	2 JH	6 JH	13 JH	53 JH	28 JH	22 JH	18 JH	20 JH	59 JH	48 JH	51 JH	53 JH	51 JH	52 JH	13 JH	93 JH	4 JH
T07A																			
	0 - 0.9'	7/30/2008	35	51	73 JG	137	148	170	85	61	130	119	142	112	138	179	34 JG	344	47
T07B																			
	0 - 0.5'	7/28/2008	12 JH	5 JH	8 JH	30 JH	21 JH	29 JH	37 JH	27 JH	35 JH	30 JH	33 JH	30 JH	27 JH	38 JH	6 JH	69 JH	8 JH
T07C																			
	0 - 0.5'	7/28/2008	18	5	10 JG	19	23	38	31	32	22	27	20	24	17	27	5 UB	48	13
T08A																			
	0 - 0.5	7/30/2008	1490 JB	993 JB	789 JG,B	1490 JB	1090 JB	478 JB	209 JB	189 JB	1080 JB	1100 JB	1320 JB	1070 JB	1260 JB	1920 JB	275 JG,B	2790 JB	701 JB
T08B																			
	0 - 0.5'	7/29/2008	1180	47	2540	3490	871	385	187	129	3150	1770	3590	1890	2610	3270	429	6910	1180
T08C																			
	0 - 0.5'	7/25/2008	9080 JH	988 JH	22200 JH,3	8180 JH	6190 JH	2030 JH	649 JH	338 JH	5980 JH	2580 JH	3270 JH	2010 JH	3710 JH	7160 JH	697 JH	18100 JH,3	5820 JH
T08D																			
	0 - 0.5'	7/24/2008	< 3 U	< 3 U	5 UB	8 UB	6	< 3 U	< 3 U	< 3 U	7 UB	5 UB	7 UB	6 UB	6 UB	10 UB	< 3 U	19	5 UB

Table B-3 PAH SEDIMENT ANALYTICAL RESULTS (Continued)

1665 Wisconsin Public Service Corp., WPSC-CampMarina Sediment Remediation, Sheboygan, WI
732 Water Street, Sheboygan, Wisconsin
USEPA# : WIN000510058 **BRRTS# : 0260000095**

Sample ID	Depth	Collection Date	Acenaphthene	Acenaph-thylene	Anthracene	Benzo(a)-anthracene	C1-Benz(a) anthracenes/ Chrysenes	C2-Benz(a) anthracenes/ Chrysenes	C3-Benz(a) anthracenes/ Chrysenes	C4-Benz(a) anthracenes/ Chrysenes	Benzo(a)-pyrene	Benzo(e)-pyrene	Benzo(b)-fluoranthene	Benzo(g,h,i)-pyrene	Benzo(k)-fluoranthene	Chrysene	Dibenzo(a,h)-anthracene	Fluoranthene	Fluorene
Sediment Screening Benchmarks																			
Benchmarks			396	385	57.2	108	NS	NS	NS	NS	150	NS	788	882	791	166	33	423	77.4
T12B																			
	0 - 0.6'	7/22/2008	100	283	2870	6320	1930	670	320	225	5320	3050	4320	3040	4140	4890	783	12600	184
	0.8 - 1.7'	7/22/2008	1990 J14.8	829 J14.8	4780 J14.8	4910 J14.8	3080 J14.8	1330 J14.8	458 J14.8	347 J14.8	3950 J14.8	1330 J14.8	3720 J14.8	1910 J14.8	2990 J14.8	4530 J14.8	803 JC,14.8	7410 J14.8	1310 J14.8
	2.8 - 3.9'	7/22/2008	19700	498	7490	6810	3100	936	432	301	6740	2910	4780	3070	7060	4930	723	16800	6910
T12C																			
	0 0.5'	7/22/2008	89	44	271	573	240	132	78	60	560	298	487	330	485	606	83	1380	114
	2.7 - 3.6'	7/22/2008	11100	827	9170	3310	2000	691	171	138	2460	1140	1330	831	1870	2070	332	7290	7350
	3.8 - 4.9'	7/22/2008	84000	3360	81500	25000	14700	4340	838	614	18800	8740	9040	6150	19700	22000	2110	52100	44000
T12D																			
	0 - 0.6'	7/22/2008	8 UB	5 UB	13 JC	38	27	16	15	< 3 U	43	36	45	37	40	49	8 UB	103	8 UB
T13A																			
	0 - 0.5'	7/22/2008	< 5 U	< 5 U	6	18	13	10	< 5 U	< 5 U	27	23	28	21	28	33	4 J	84	4 J
T13B																			
	0 - 0.5'	7/22/2008	6	6	14	38	101	84	33	28	41	37	44	33	36	63	7	69	10
T13C																			
	0 - 0.6'	7/23/2008	849	112	723	804	458	168	67	41	737	280	327	229	384	555	67	879	458
T14A																			
	0 - 0.6'	7/23/2008	128 J6	30 J6	70 J6	131 J6	109 J6	90 J6	67 J6	49 J6	131 J5	109 J6	133 J6	69 J5	118 J6	160 J6	25 J6	305 J6	63 J6
T14B																			
	0 - 0.6'	7/28/2008	51	9 UB	61 JC	68	43	31	25	20	81	51	61	48	59	76	8 JC	170	45
T14C																			
	0 - 0.5'	7/26/2008	5 UB	26	26 JC	65	28	17	13	< 3 U	60	47	58	40	53	64	11 JC	114	10 UB
T15A																			
	0 - 0.6'	7/23/2008	10	6	12	30	12	7	< 2 U	< 2 U	18	11	14	9 UB	14	32	2	145	7
T15B																			
	0 - 0.6'	7/24/2008	23	16	46	128	90	47	33	28	169	125	162	120	144	183	27	367	24
T15C																			
	0 - 0.5'	7/24/2008	18	19	56	173	100	58	42	31	189	144	195	138	172	229	24	472	29
T16A																			
	0 - 0.75'	7/23/2008	66	101	189	631	338	99	37	29	699	393	355	247	356	484	66	923	61
T16B																			
	0 - 0.5'	7/24/2008	14	14	30	92	58	33	23	< 4 U	109	68	118	85	104	130	19	262	17
T16C																			
	0 - 0.6'	7/24/2008	5	4	10	24	22	32	26	29	28	30	26	31	23	30	4 UB	71	6
T17A																			
	0 - 0.5'	7/29/2008	7720 J3	531 J3	18000 JC,3	20600 J3	9110 J3	1900 J3	833 J3	676 J3	22000 J3	10700 J3	26500 J3	17400 J3	24300 J3	31400 J3	4660 JC,3	72400 J3	7200 J3
T17B																			
	0 - 0.5'	7/29/2008	54	23	92 JC	130	130	111	71	50	130	100	123	83	114	164	21 JC	313	50
T17C																			
	0 - 0.5	7/29/2008	15	15	47 JC	107	64	39	34	32	111	83	102	62	93	127	22 JC	316	20

Table B-3 PAH SEDIMENT ANALYTICAL RESULTS (Continued)

1665 Wisconsin Public Service Corp., WPSC-CampMarina Sediment Remediation, Sheboygan, WI
732 Water Street, Sheboygan, Wisconsin
USEPA# : WIN000510058 **BRRTS# : 0260000095**

Sample ID	*Depth*	*Collection Date*	*Acenaphthene*	*Acenaph-thylene*	*Anthracene*	*Benzo(a)-anthracene*	*C1-Benz(a) anthracenes/ Chrysenes*	*C2-Benz(a) anthracenes/ Chrysenes*	*C3-Benz(a) anthracenes/ Chrysenes*	*C4-Benz(a) anthracenes/ Chrysenes*	*Benzo(a)-pyrene*	*Benzo(e)-pyrene*	*Benzo(b)-fluoranthene*	*Benzo(g,h,i)-pyrene*	*Benzo(k)-fluoranthene*	*Chrysene*	*Dibenzo(a,h)-anthracene*	*Fluoranthene*	*Fluorene*
Sediment Screening Benchmarks																			
Benchmarks			596	365	57.2	108	NS	NS	NS	NS	150	NS	788	552	791	166	33	423	77.4
T18A																			
	0 - 0.5'	7/30/2008	15 J,H	13 J,H	32 J,H	64 J,H	49 J,H	30 J,H	18 J,H	< 2 U,H	59 J,H	33 J,H	46 J,H	34 J,H	61 J,H	75 J,H	9 J,H,C	145 J,H	13 J,H
T18B																			
	0 - 0.5'	7/30/2008	1 J,H	2 J,H	2 J,H	4 J,H	13 J,H	17 J,H	14 J,H	< 3 U,H	6 J,H	10 J,H	4 J,H	6 J,H	4 J,H	7 J,H	< 3 U,H,C	12 J,H	2 J,H
T18C																			
	0 - 0.7'	7/29/2008	14 J,H,S	11 J,H,S	27 J,H,S	45 J,H,S	34 J,H,S	25 J,H,S	31 J,H,S	< 6 U,H	41 J,H,S	31 J,H,S	39 J,H,S	31 J,H,S	40 J,H,S	50 J,H,S	8 J,H,S,C	114 J,H,S	17 J,H,S

Notes See figures for sample locations

1) Parameters that attain or exceed a Sediment Screening Benchmark are identified in bold and underlined.
2) The hierarchy for the Sediment Benchmarks is provided on Table 14 - Sediment Screening Benchmark Values
3) Depth reflects core correction for fine-grained borings

<2.0 Parameter not detected above the Limit of Detection indicated
NS Sediment Quality Guideline Value has not been established for this parameter.
Qualifiers (J, N, R, etc.) Analyte result has been qualified by data validator, see validation report for additional information.
-- Analysis not performed
QC Quality Control duplicate sample

ATTACHMENT 1 - ADMINISTRATIVE RECORD INDEX

U.S. ENVIRONMENTAL PROTECTION AGENCY
REMEDIAL ACTION

ADMINISTRATIVE RECORD
FOR
WPSC CAMPMARINA MGP SITE
SHEBOYGAN, SHEBOYGAN COUNTY, WISCONSIN

ORIGINAL
FEBRUARY 16, 2011

NO.	DATE	AUTHOR	RECIPIENT	TITLE/DESCRIPTION	PAGES
1	06/30/92	Simon Hydro-Search	Wisconsin Public Service Corporation	Phase I Environmental Investigation Report for Manufactured Gas Plant Site (SDMS ID: 278256)	69
2	06/28/96	Natural Resource Technology, Inc.	Wisconsin Public Service Corporation	Phase II Environmental Investigation Report for Former Manufactured Gas Plant Site (SDMS ID: 277986)	210
3	11/10/98	Natural Resources Technology, Inc.	Wisconsin Public Service Corporation	Sediment Investigation Report for the Former Manufactured Gas Plant Site (SDMS ID: 277993)	190
4	02/28/03	Natural Resource Technology, Inc.	Wisconsin Public Service Corporation	Phase I and II Remedy Documentation Report for the Campmarina Former Coal Gas Facility: Volume 1 of 2 (Text, Tables, Figures and Appendices A-D (SDMS ID: 277983)	438
5	02/28/03	Natural Resource Technology, Inc.	Wisconsin Public Service Corporation	Phase I and II Remedy Documentation Report for the Campmarina Former Coal Gas Facility: Volume 2 of 2 (Appendices E-Y (SDMS ID: 277984)	1007
6	07/09/04	Natural Resource Technology, Inc.	Wisconsin Public Service Corporation	Remedial Investigation/ Feasibility Study Work Plan for the Campmarina Former Manufactured Gas Plant Site (SDMS ID: 277991)	374
7	02/05/07	Nagle, R., U.S. EPA	Lawniczak, C., Wisconsin Public Service Corporation	Letter Forwarding Attached January 26, 2007 Administrative Settlement Agreement and Order on Consent for Remedial Investigation and Feasibility Study for the WPSC Campmarina MGB Site (SDMS ID: 266126)	79

NO.	DATE	AUTHOR	RECIPIENT	TITLE/DESCRIPTION	PAGES
8	03/22/07	Natural Resource Technology, Inc.	Wisconsin Public Services Corporation	River Operable Unit Technical Letter Report for Campmarina Former Manufactured Gas Plant (SDMS ID: 630633)	56
9	04/00/07	U.S. EPA	File	Community Involvement Plan for the WPSC Campmarina MGP Site (SDMS ID: 360637)	9
10	04/10/07	Natural Resource Technology, Inc. and Exponent	Wisconsin Public Service Corporation	Multi-Risk Assessment Framework for RI/FS at WPSC's Former Manufactured Gas Plant Sites (SDMS ID: 360631)	91
11	08/02/07	Integrys	File	Multi-Site Health and Safety Plan for the Former Manufactured Gas Plant Sites (SDMS ID: 360622)	69
12	08/05/07	Kelley, M., Burns & McDonnell	Logan, M. & T. Prendiville, U.S. EPA	Letter Forwarding Attached Multi-Site Conceptual Site Model for the Former Manufactured Gas Plant Sites (SDMS ID: 360624)	31
13	09/04/07	Integrys Business Support	Wisconsin Public Service Corporation, Peoples Gas Light and Coke Company, North Shore Gas Company	Multi-Site Quality Assurance Project Plan for Former Manufactured Gas Plant Sites: Volume 1 of 2 (SDMS ID: 360616)	1576
14	09/04/07	Integrys Business Support	Wisconsin Public Service Corporation, Peoples Gas Light and Coke Company, North Shore Gas Company	Multi-Site Quality Assurance Project Plan for Former Manufactured Gas Plant Sites: Volume 2 of 2 (SDMS ID: 360617)	1407
15	09/17/07	WDNR	Wisconsin Public Service Corporation	Preliminary Assessment Report for Wisconsin Public Service Corporation Camp Marina Former Manufactured Gas Plant (SDMS ID: 296276)	50

NO.	DATE	AUTHOR	RECIPIENT	TITLE/DESCRIPTION	PAGES
16	02/20/08	Integrys Business Support	Wisconsin Public Service Corporation, Peoples Gas Light and Coke Company, North Shore Gas Company	Multi-Site Field Sampling Plan for Former Manufactured Gas Plant Sites (SDMS ID: 360619)	486
17	07/00/08	Environmental Chemistry Consulting Services, Inc.	Kahler, J., Natural Resource Technology, Inc.	Remedial Investigation Report for the River Operable Unit at the WPSC Campmarina MGP Site: Appendix G Analytical Report (SDMS ID: 360971)	13482
18	07/00/08	Environmental Chemistry Consulting Services, Inc.	Kahler, J., Natural Resource Technology, Inc.	Remedial Investigation Report for the River Operable Unit at the WPSC Campmarina MGP Site: Appendix G Analytical Report (SDMS ID: 360972)	10560
19	08/18/08	Young, K., TestAmerica	Kahler, J., Natural Resource Technology, Inc.	Remedial Investigation Report for the River Operable Unit at the WPSC Campmarina MGP Site: Appendix G Extended Data Package (SDMS ID: 360970)	20904
20	12/11/08	Kahler, J. & R. Weber, Natural Resource Technology, Inc.	Valentin, P., U.S. EPA	Letter Forwarding Attached Remedial Investigation/Feasibility Study Work Plan (SDMS ID: 360627)	244
21	07/29/09	Natural Resource Technology, Inc.	Integrys Business Support	Remedial Investigation Report for the River Operable Unit at the WPSC's Sheboygan-Campmarina Former Manufactured Gas Plant (SDMS ID: 360630)	3381

ATTACHMENT 2 – Environmental Justice Analysis

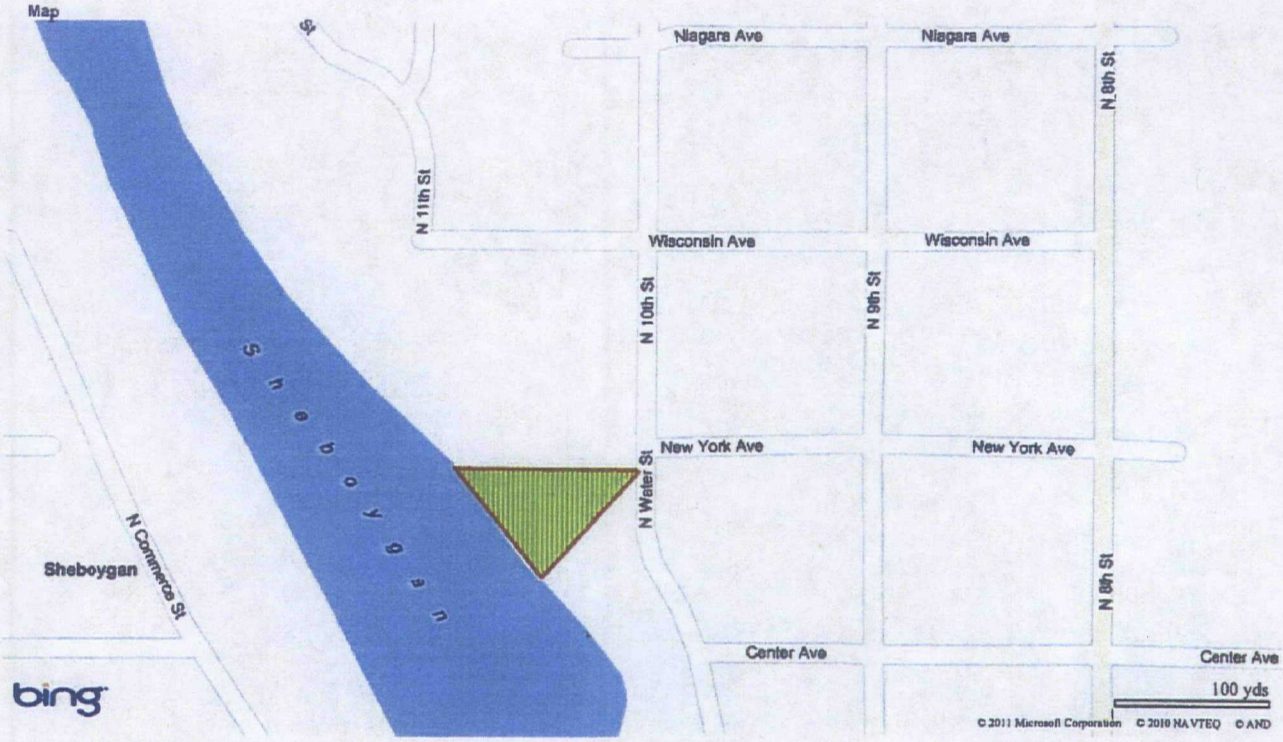
Jump to main content.

Region 5 EJAssist Analysis

Local Navigation

- Close Window

Map



Area of digitized polygon	0.00 sq mi
Eco	
Within a Great Lakes Area of Concern?	yes
Within a NWI Wetland?	click here *May take several minutes*
Demog	
Within 1 miles of Census Tracts designated as a high-priority area of potential environmental justice concern?	no
Within Tribal Land?	no
Facility	
Within .25 miles of a RCRA 2020 facility?	yes
Within 1 miles of a Nuclear Power Plant?	no
Within 1 miles of an Electric Power Plant?	no

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