State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI 53707-7921

GIS REGISTRY (Cover Sheet)
Form 4400-280 (R 08/16)

Source Property Information

BRRTS #: 02-41-576745

CLOSURE DATE: 10/03/2016

ACTIVITY NAME: Harwood Avenue Commercial Property

FID #: 341270710

PROPERTY ADDRESS: 7600-7610 Harwood Ave

DATCP #:

MUNICIPALITY: Wauwatosa

PECFA#:

PARCEL ID #: 3710061000 & 3710060000

***WTM COORDINATES:**

X: 682254 Y: 288272

** Coordinates are in WTM83, NAD83 (1991)*

WTM COORDINATES REPRESENT:

◯ Approximate Center Of Contaminant Source

◉ Approximate Source Parcel Center

Please check as appropriate: (BRRTS Action Code)

CONTINUING OBLIGATIONS

Contaminated Media for Residual Contamination:

☒ Groundwater Contamination > ES *(236)*

- ☐ Contamination in ROW
- ☐ Off-Site Contamination

☒ Soil Contamination > *RCL or **SSRCL *(232)*

- ☐ Contamination in ROW
- ☐ Off-Site Contamination

Site Specific Obligations:

☐ Soil: maintain industrial zoning *(220)*

*(**note:** soil contamination concentrations between non-industrial and industrial levels)*

☒ Structural Impediment *(224)*

☐ Site Specific Condition *(228)*

☒ Cover or Barrier *(222)*

- ☒ Direct Contact
- ☒ Soil to GW Pathway

☐ Vapor Mitigation *(226)*

☐ Maintain Liability Exemption *(230)*

*(**note:** local government unit or economic development corporation was directed to take a response action)*

Are all monitoring wells properly abandoned per NR 141? *(234)*

◉ Yes ◯ No ◯ N/A

** Residual Contaminant Level*
***Site Specific Residual Contaminant Level*

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
2300 N. Dr. Martin Luther King Jr. Drive
Milwaukee, WI 53212

Scott Walker, Governor
Cathy Stepp, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay – 711

October 3, 2016

Andrew Schneider
7610 Harwood Avenue
Wauwatosa, WI 53213

Dennis Webb
Sage Water | Global Water Center
247 W. Freshwater Way, Mailbox 100, Milwaukee, WI 53204

KEEP THIS DOCUMENT WITH YOUR PROPERTY RECORDS

SUBJECT: Final Case Closure with Continuing Obligations
Harwood Ave. Commercial Property, 7600-7610 Harwood Ave., Wauwatosa, WI 53213
DNR BRRTS Activity #: 02-41-576745
FID #: 341270710

Dear Mr. Schneider and Mr. Webb:

The Department of Natural Resources (DNR) considers Harwood Avenue Commercial Property closed, with continuing obligations. No further investigation or remediation is required at this time. However, you, future property owners, and occupants of the property must comply with the continuing obligations as explained in the conditions of closure in this letter. Please read over this letter closely to ensure that you comply with all conditions and other on-going requirements. Provide this letter and any attachments listed at the end of this letter to anyone who purchases, rents or leases this property from you. For residential property transactions, you may be required to make disclosures under s. 709.02, Wis. Stats.

This final closure decision is based on the correspondence and data provided, and is issued under chs. NR 726 and 727, Wis. Adm. Code. The Southeast Region (SER) Closure Committee reviewed the request for closure on May 12, 2016. The DNR Closure Committee reviewed this environmental remediation case for compliance with state laws and standards to maintain consistency in the closure of these cases. A request for remaining actions needed was issued by the DNR on September 20, 2016, and documentation that the conditions in that letter were met was received on September 28, 2016.

The current subject property serves as a commercial building for multiple occupants ranging from a small café to a home decorations store. The current closure request was submitted as one site, by the current owner of the 7610 Harwood Avenue parcel, based on the intention of combining both 7600 & 7610 Harwood Avenue properties upon case closure. The contaminants of concern at the subject site include polynuclear aromatic hydrocarbons (PAHs), volatile organic compounds (VOCs), and metals. The soil impacts at the site are due to soil fill material that extends across both properties. Additionally, groundwater contamination above NR 140 groundwater enforcement standards was found in the northwest corner of the site, and has been identified as likely coming from an off-site source. The conditions of closure and continuing obligations required were based on the property being used for commercial purposes.

Continuing Obligations

The continuing obligations for this site are summarized below. Further details on actions required are found in the section Closure Conditions.

- Groundwater contamination is present at or above ch. NR 140, Wis. Adm. Code enforcement standards.

- Residual soil contamination exists that must be properly managed should it be excavated or removed.
- Pavement and the existing buildings must be maintained over contaminated soil and the DNR must be notified and approve any changes to this barrier.
- If a structural impediment that obstructed a complete site investigation and/or cleanup is removed or modified, additional environmental work must be completed.

The DNR fact sheet "Continuing Obligations for Environmental Protection," RR-819, helps to explain a property owner's responsibility for continuing obligations on their property. The fact sheet may be obtained at http://dnr.wi.gov/files/PDF/pubs/rr/RR819.pdf.

GIS Registry

This site will be included on the Bureau for Remediation and Redevelopment Tracking System (BRRTS on the Web) at http://dnr.wi.gov/topic/Brownfields/clean.html, to provide public notice of residual contamination and of any continuing obligations. The site can also be viewed on the Remediation and Redevelopment Sites Map (RRSM), a map view, under the Geographic Information System (GIS) Registry layer, at the same web address.

DNR approval prior to well construction or reconstruction is required for all sites shown on the GIS Registry, in accordance with s. NR 812.09 (4) (w), Wis. Adm. Code. This requirement applies to private drinking water wells and high capacity wells. To obtain approval, complete and submit Form 3300-254 to the DNR Drinking and Groundwater program's regional water supply specialist. This form can be obtained on-line at http://dnr.wi.gov/topic/wells/documents/3300254.pdf.

All site information is also on file at the SER Regional DNR office, at 2300 North Dr. Martin Luther King Jr. Drive, Milwaukee, WI 53212. This letter and information that was submitted with your closure request application, including any maintenance plan and maps, can be found as a Portable Document Format (PDF) in BRRTS on the Web.

Prohibited Activities

Certain activities are prohibited at closed sites because maintenance of a barrier is intended to prevent contact with any remaining contamination. When a barrier is required, the condition of closure requires notification of the DNR before making a change, in order to determine if further action is needed to maintain the protectiveness of the remedy employed. The following activities are prohibited on any portion of the property where pavement and building foundation is required, as shown on the attached map Location Map, figure D.2.c., April 7, 2016, unless prior written approval has been obtained from the DNR:

- removal of the existing barrier or cover;
- replacement with another barrier or cover;
- excavating or grading of the land surface;
- filling on covered or paved areas;
- plowing for agricultural cultivation;
- construction or placement of a building or other structure;
- changing the use or occupancy of the property to a residential exposure setting, which may include certain uses, such as single or multiple family residences, a school, day care, senior center, hospital, or similar residential exposure settings.

Closure Conditions

Compliance with the requirements of this letter is a responsibility to which you, and any subsequent property owners must adhere. DNR staff will conduct periodic prearranged inspections to ensure that the conditions included in this letter and the attached maintenance plan are met. If these requirements are not followed, the DNR may take enforcement action under s. 292.11, Wis. Stats. to ensure compliance with the specified requirements, limitations or other conditions related to the property.

Please send written notifications in accordance with the following requirements to:

Department of Natural Resources
Attn: Remediation and Redevelopment Program Environmental Program Associate
2300 N. Dr. Martin Luther King Jr. Drive
Milwaukee, WI 23212

Residual Groundwater Contamination (ch. NR 140, 812, Wis. Adm. Code)
Groundwater contamination greater than enforcement standards is present on this contaminated property, as shown on the attached map Groundwater Isoconcentration, figure B.3.b., June 28, 2016. If you intend to construct a new well, or reconstruct an existing well, you'll need prior DNR approval. Affected property owners and right-of-way holders were notified of the presence of groundwater contamination.

Residual Soil Contamination (ch. NR 718, chs. 500 to 536, Wis. Adm. Code or ch. 289, Wis. Stats.)
Soil contamination remains in soil fill across the property as indicated on the attached map Residual Soil Contamination, figure B.2.b, June 28, 2016. If soil in the specific locations described above is excavated in the future, the property owner or right-of-way holder at the time of excavation must sample and analyze the excavated soil to determine if contamination remains. If sampling confirms that contamination is present, the property owner or right-of-way holder at the time of excavation will need to determine whether the material is considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable standards and rules. Contaminated soil may be managed in accordance with ch. NR 718, Wis. Adm. Code, with prior DNR approval.

In addition, all current and future owners and occupants of the property and right-of-way holders need to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken to prevent a direct contact health threat to humans.

Depending on site-specific conditions, construction over contaminated soils or groundwater may result in vapor migration of contaminants into enclosed structures or migration along newly placed underground utility lines. The potential for vapor inhalation and means of mitigation should be evaluated when planning any future redevelopment, and measures should be taken to ensure the continued protection of public health, safety, welfare and the environment at the site.

Cover or Barrier (s. 292.12 (2) (a), Wis. Stats., s. NR 726.15, s. NR 727.07 Wis. Adm. Code)
The building and pavement that exists in the specific location shown on the attached map Location Map, figure D.2.c., April 7, 2016, shall be maintained in compliance with the attached maintenance plan in order to minimize the infiltration of water and prevent additional groundwater contamination that would violate the groundwater quality standards in ch. NR 140, Wis. Adm. Code, and to prevent direct contact with residual soil contamination that might otherwise pose a threat to human health.

The attached maintenance plan and inspection log (DNR form 4400-305) are to be kept up-to-date and on-site. Inspections shall be conducted annually, in accordance with the attached maintenance plan. Submit the inspection log to the DNR only upon request after the date of this letter.

Structural Impediments (s. 292.12 (2) (b), Wis. Stats., s. NR 726.15, s. NR 727.07, Wis. Adm. Code)
The remaining buildings as shown on the attached map Location Map, figure D.2.a., April 7, 2016, made complete investigation and/or remediation of the soil contamination on this property impracticable. If the structural impediment is to be removed, the property owner shall notify the DNR at least 45 days before removal, and conduct an investigation of the degree and extent of PAH, VOC, and metal contamination below the structural impediment. If contamination is found at that time, the contamination shall be properly remediated in accordance with applicable statutes and rules.

In Closing

Please be aware that the case may be reopened pursuant to s. NR 727.13, Wis. Adm. Code, for any of the following situations:

- if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, or welfare or to the environment,
- if the property owner does not comply with the conditions of closure, with any deed restrictions applied to the property, or with a certificate of completion issued under s. 292.15, Wis. Stats., or
- a property owner fails to maintain or comply with a continuing obligation (imposed under this closure approval letter).

The DNR appreciates your efforts to restore the environment at this site. If you have any questions regarding this closure decision or anything outlined in this letter, please contact the DNR Project Manager, Binyoti Amungwafor at (414) 263-8607, or at Binyoti.Amungwafor@Wisconsin.gov, or me at (414) 263-8561 or at Pamela.Mylotta@Wisconsin.gov.

Sincerely,

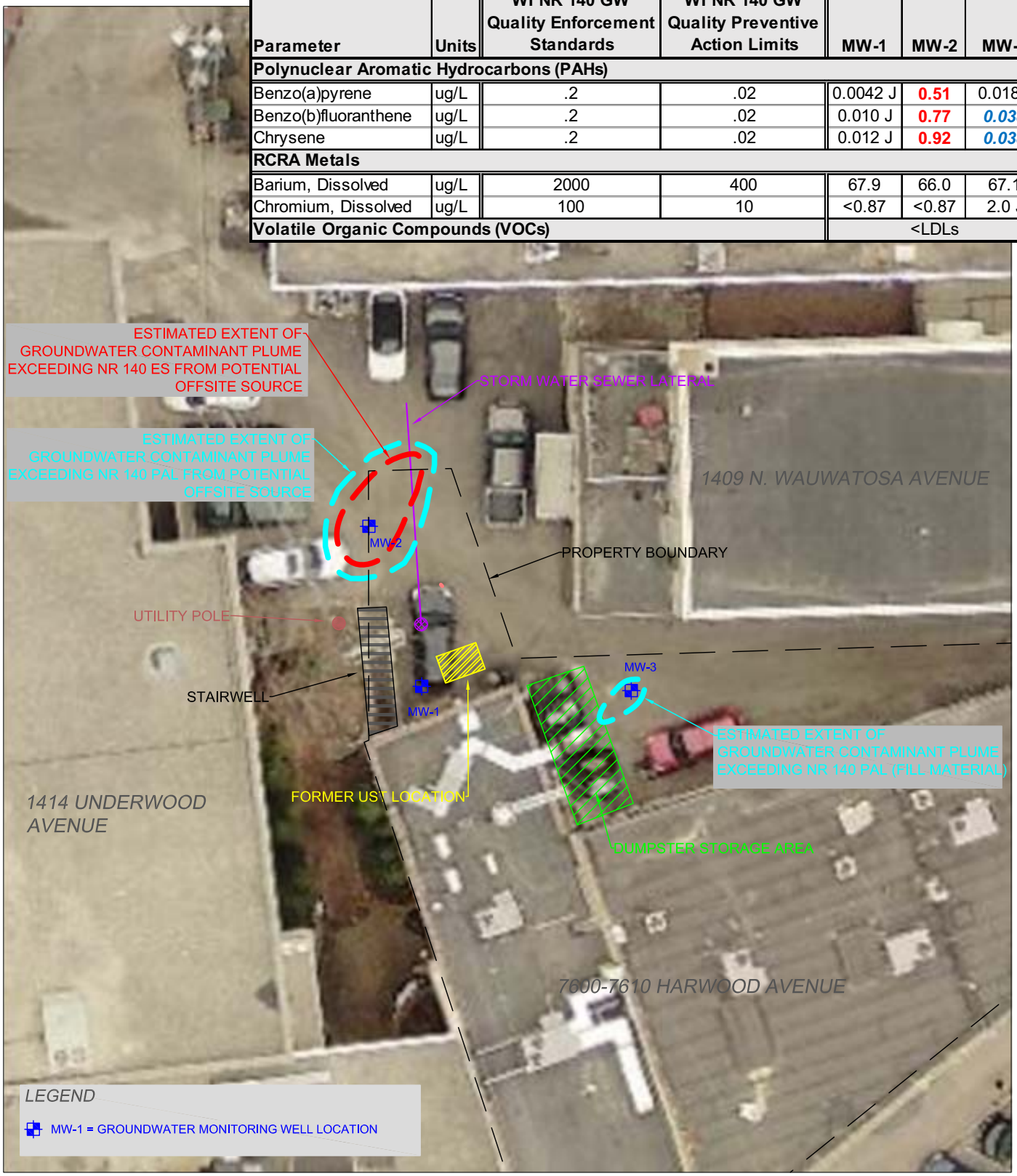
Pamela A. Mylotta
Southeast Region Team Supervisor
Remediation & Redevelopment Program

Attachments:

- Location Map (extent of cap shown), figure D.2.c., April 7, 2016
- Groundwater Isoconcentration, figure B.3.b., June 28, 2016
- Residual Soil Contamination, figure B.2.b., June 28, 2016
- Maintenance Plan, Attachment D, April 7, 2016
- Inspection Log, DNR Form 4400-305
- Location Map (structural impediments shown), figure D.2.a., April 7, 2016

cc: Kapur & Associates, INC, 7711 N. Port Washington Rd, Milwaukee, WI 53217

Parameter	Units	WI NR 140 GW Quality Enforcement Standards	WI NR 140 GW Quality Preventive Action Limits	MW-1	MW-2	MW-3
Polynuclear Aromatic Hydrocarbons (PAHs)						
Benzo(a)pyrene	ug/L	.2	.02	0.0042 J	**0.51**	0.018 J
Benzo(b)fluoranthene	ug/L	.2	.02	0.010 J	**0.77**	***0.038***
Chrysene	ug/L	.2	.02	0.012 J	**0.92**	***0.038***
RCRA Metals						
Barium, Dissolved	ug/L	2000	400	67.9	66.0	67.1
Chromium, Dissolved	ug/L	100	10	<0.87	<0.87	2.0 J
Volatile Organic Compounds (VOCs)				<LDLs		



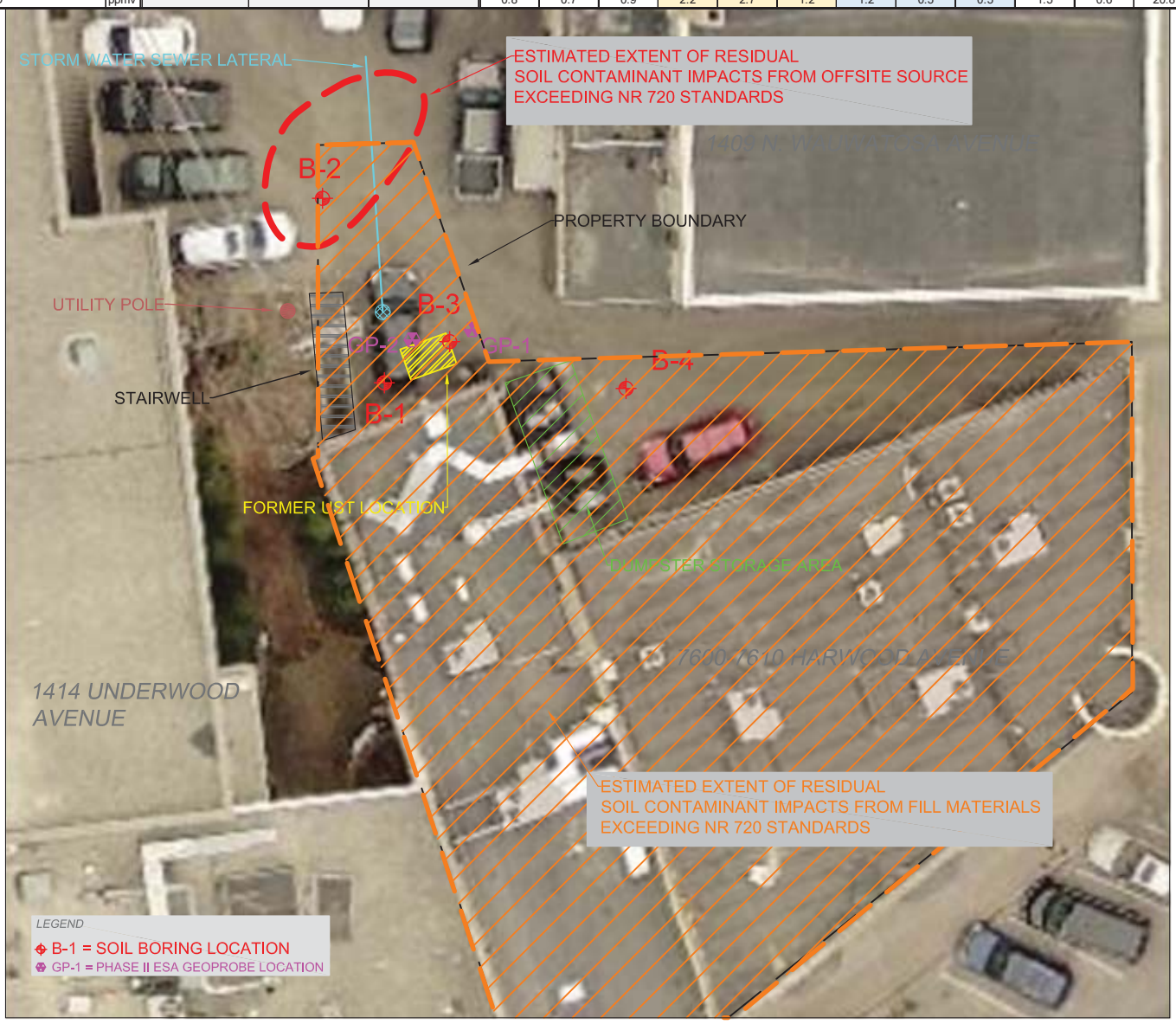
KAPUR & ASSOCIATES, INC.
CONSULTING ENGINEERS
7711 N. PORT WASHINGTON ROAD
MILWAUKEE, WISCONSIN 53217
Phone: 414.351.6668 Fax: 414.351.4117
www.kapurengineers.com

SHEET: GROUNDWATER ISOCONCENTRATION
FIGURE: B.3.b.
PROJECT: LE REVE PATISSERIE & CAFE
LOCATION: 7600-7610 HARWOOD AVENUE, WAUWATOSA, WISCONSIN 53213
NORTH ARROW:
SCALE: 1" = 20' (0, 10, 20)
SEAL:
we listen. we innovate. we turn your vision into reality.

DRAWN BY: TWP | CHECKED BY: RAB | APPROVED BY: TWP | PROJECT NO. 16.0131.01 | DATE: 04/12/2016 | REVISION DATE: 06/28/2016

FILENAME: S:_Environ\160131-7610 Harwood Ave. Tosa ENV\Figs-Photos\GW ISO.dwg PLOT DATE/TIME: 7/19/2016 2:00 PM PLOTTED BY: TRAVIS W. PETERSON

Parameter	Units	WI NR 720 Soil to Groundwater Pathway	WI NR 720 Soil Cleanup Standards Direct Contact Industrial	WI NR 720 Soil Cleanup Standards Direct Contact Non-Industrial	B1 (2-4)	B1 (6-8)	B1 (14-16)	B2 (2-4)	B2 (10-12)	B2 (14-16)	B3 (2-4)	B3 (10-12)	B3 (14-16)	B4 (2-4)	B4 (10-12)	B4 (14-16)
Polynuclear Aromatic Hydrocarbons (PAHs)																
1-Methylnaphthalene	ug/kg		53,100	15,600	<77.6	43.1	<9.1	<37.7	18,200	10,800 J	<384	12.1 J	24.6 J	<76.0	31.8	<8.9
Benzo(a)anthracene	ug/kg		2,110	148	874	356	43.1	430	75,900	48,200	10,900	225	384	757	167	38.8
Benzo(a)pyrene	ug/kg	470	211	15	990	390	41.0	500	62,600	37,300	14,100	278	432	829	181	42.9
Benzo(b)fluoranthene	ug/kg	479	2,110.00	148	876	316	40.7	477	45,500	30,800	13,200	248	494	592	175	39.1
Benzo(k)fluoranthene	ug/kg		21,100	1,480	1,020	352	33.0	558	63,000	38,100	12,100	285	362	751	129	36.8
Chrysene	ug/kg	145	211,000	14,800	978	428	47.5	522	76,500	50,300	12,000	262	440	866	201	45.2
Dibenz(a,h)anthracene	ug/kg		211	15	135	77.8	8.3 J	76.4	11,900	5,450	2,760	37.1	59.8	151	31.1	8.9 J
Fluoranthene	ug/kg	88,900	22,000,000	2,290,000	2,160	1,050	106	1,060	213,000	129,000	22,000	587	1,090	2,180	541	96.1
Fluorene	ug/kg	14,800	22,000,000	2,290,000	132 J	79.8	9.8 J	60.6 J	61,400	35,300	516 J	31.2	70.9	155	41.5	<8.9
Indeno(1,2,3-cd)pyrene	ug/kg		2,110	148	337	206	20.9	183	27,500	12,900	6,500	93.8	154	416	87.2	23.3
Naphthalene	ug/kg	658	26,000	5,150	87.6 J	108	10.0 J	47.5 J	94,700	52,400	<384	23.4	51.2	117 J	41.8	<40.0
Pyrene	ug/kg	54,100	16,500,000	1,720,000	1,770	825	80.0	822	132,000	87,500	16,900	454	864	1,830	467	77.5
RCRA Metals																
Arsenic	ug/kg	584	2,390	613	9,900	3,900	<3.3	5,100	4,900	3,800	6,600	3,600	4,500	<3.1	5,300	4,100
Barium	ug/kg	165,000	100,000,000	15,300,000	89,400	29,300	17,100	47,100	31,300	33,800	287,000	52,400	48,600	37,000	20,400	14,000
Cadmium	ug/kg	752	799,000	70,000	490 J	220 J	130 J	510 J	500 J	340 J	1,000	200 J	160 J	140 J	210 J	160 J
Lead	ug/kg	27,000	800,000	400,000	119,000	36,700	13,600	54,800	37,700	48,200	358,000	42,200	41,300	9,900	11,100	6,500
Volatile Organic Compounds (VOCs)																
Naphthalene	ug/kg	658	26,000	5,150	81.5 J	<40.0	<40.0	68.6 J	82,900	96,000	157 J	<40.0	<40.0	<40.0	<40.0	<40.0
PID	ppmv				0.8	0.7	0.9	2.2	2.7	1.2	1.2	0.5	0.5	1.5	0.6	20.8



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MILWAUKEE, WISCONSIN 53217
Phone: 414.351.6668 Fax: 414.351.4117
www.kapurengineers.com

SHEET: RESIDUAL SOIL CONTAMINATION
FIGURE: B.2.b.
PROJECT: LE REVE PATISSERIE & CAFE
LOCATION: 7600-7610 HARWOOD AVENUE, WAUWATOSA, WISCONSIN 53213
NORTH ARROW:
SCALE: 1" = 20' (0, 10, 20)
SEAL:
we listen. we innovate. we turn your vision into reality.

DRAWN BY:	RAB	CHECKED BY:	TWP	APPROVED BY:	TWP	PROJECT NO.	16.0131.01	DATE:	3/9/2016	REVISION DATE:	06/28/2016

FILENAME: S:_Environ\160131-7610 Harwood Ave. Tosa ENV\Figs-Photos\RES SOIL CONTAM rev.dwg
PLOT DATE/TIME: 9/26/2016 2:39 PM
PLOTTED BY: TRAVIS W. PETERSON

COVER or BARRIER MAINTENANCE PLAN

(to be included in Form 4400-202, as Attachment D)

April 7, 2016

Property Located at:

7600-7610 W. Harwood Avenue, Wauwatosa, WI 53213

DNR BRRTS/Activity #02-41-576745

[LEGAL DESCRIPTION] **"7600"**
LEFEBER SUBD LOT 6 AND ELY STRIP OF ADJ LOT 7 7.5 IN WIDE ON ITS NLY LI AND 5.75 IN WIDE ON ITS SLY LI INCLDG EASEMENT SE 1/4 SEC 21

[TAX /Parcel Identification Number) 3710060000

"7610"
LEFEBER SUBD LOT 7 EX COM NELY COR SD LOT TH WLY 7.5 IN SLY PAR TO ITS ELY LI 22.54 FT SLY TO ITS SLY LI NELY 5.75 IN TO ITS SELY COR TH NLY TO BEG AND ELY 4 FT 7.5 IN LOT 8 AND PT LOT 10 LYING E OF A LI 25 FT E OF AND PAR WITH E LI LOT 11 INCLDG EASEMENT SE 1/.

[TAX /Parcel Identification Number) 3710061000

Introduction

This document is the Maintenance Plan for an asphalt parking lot and building at the above-referenced property in accordance with the requirements of s. NR 724.13 (2), Wis. Adm. Code. The maintenance activities relate to the existing asphalt parking lot and building which addresses or occupies the area over the contaminated groundwater plume or soil.

More site-specific information about this property/site may be found in:

- The case file in the DNR Southeast Region office
- BRRTS on the Web (DNR's internet based data base of contaminated sites)for the link to a PDF for site-specific information at the time of closure and on continuing obligations;
- RR Sites Map/GIS Registry layer for a map view of the site, and
- The DNR project manager for Milwaukee County.

D.1. Descriptions:

Description of Contamination

Analytical results indicate that subsurface contamination containing PAHs (1-Methylnaphthalene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, and pyrene), RCRA metals (arsenic, barium, cadmium, lead, and selenium), and VOCs (naphthalene) is present above the respective applicable NR 720 soil RCLs from approximately 2 to 16 feet bgs throughout the subject property with the highest concentrations occurring in B2 (NW property corner) from 10 to 16 feet bgs. The likely source for the impacted media likely stemming from both fill materials present at the property and an offsite source identified via historical information research including fire insurance maps. Groundwater contaminated by

PAHs is located at a depth of 15-16 feet. The extent of the soil and groundwater contamination is shown on the attached drawings(s) Figures D.2.a and D.2.b.

Description of the [Cover/Barrier] to be Maintained

The asphalt parking lot consists of 3 inches of asphalt over 4-6 inches of compacted base material and the onsite building is of masonry (cream city brick) construction with concrete basement floor and foundation walls. The asphalt parking lot and building is located over the entire subject site as shown on the **attached** drawings D.2.a, D.2.b and D.2.c.

Cover/Building/Slab/Barrier Purpose

The asphalt parking lot and building over the contaminated residual soil and contaminated groundwater plume serves as a barrier to prevent direct human contact with residual soil contamination that might otherwise pose a threat to human health. The cover/barrier also acts as a partial infiltration barrier to minimize future soil-to-groundwater contamination migration that would violate the groundwater standards in ch. NR 140, Wisconsin Administrative Code. Based on the current use of the property, commercial, the barrier should function as intended unless disturbed.

Annual Inspection

The asphalt parking lot and building overlying the residual soil and contaminated groundwater plume and as depicted in Figure 3 will be inspected once a year, normally in the spring after all snow and ice is gone, for deterioration, cracks and other potential problems that can cause [additional infiltration into] [or exposure to] underlying soils. The inspections will be performed by the property owner or their designated representative. The inspections will be performed to evaluate damage due to settling, exposure to the weather, wear from traffic, increasing age and other factors. Any area where soils have become or are likely to become exposed [[and] where infiltration from the surface will not be effectively minimized] will be documented.

A log of the inspections and any repairs will be maintained by the property owner and is included as D.4, Form 4400-305, Continuing Obligations Inspection and Maintenance Log. The log will include recommendations for necessary repair of any areas where underlying soils are exposed and where infiltration from the surface will not be effectively minimized. Once repairs are completed, they will be documented in the inspection log. A copy of the maintenance plan and inspection log will be kept at the site; or, if there is no acceptable place (for example, no building is present) to keep it at the site, at the address of the property owner and available for submittal or inspection by Wisconsin Department of Natural Resources (DNR) representatives upon their request.

[Note: *The DNR may, in some instances, require in the case closure letter that the inspection log be submitted at least annually after every inspection. If the case closure letter requires that, then add the following sentence to the paragraph above*: A copy of the inspection log must be submitted electronically to the DNR after every inspection, at least annually.]

Maintenance Activities

If problems are noted during the annual inspections or at any other time during the year, repairs will be scheduled as soon as practical. Repairs can include patching and filling or larger resurfacing or construction operations. In the event that necessary maintenance activities expose the underlying soil, the owner must

inform maintenance workers of the direct contact exposure hazard and provide them with appropriate personal protection equipment (PPE). The owner must also sample any soil that is excavated from the site prior to disposal to ascertain if contamination remains. The soil must be treated, stored and disposed of by the owner in accordance with applicable local, state and federal law.

In the event the asphalt parking lot and building overlying the residual soil and contaminated groundwater plume is removed or replaced, the replacement barrier must be equally impervious. Any replacement barrier will be subject to the same maintenance and inspection guidelines as outlined in this Maintenance Plan unless indicated otherwise by the DNR or its successor.

The property owner, in order to maintain the integrity of the asphalt parking lot and building, will maintain a copy of this Maintenance Plan at the site; or, if there is no acceptable place to keep it at the site (for example, no building is present), at the address of the property owner and make it available to all interested parties (i.e. on-site employees, contractors, future property owners, etc.) for viewing.

Prohibition of Activities and Notification of DNR Prior to Actions Affecting a Cover/Barrier

The following activities are prohibited on any portion of the property where [pavement, a building foundation, soil cover, engineered cap or other barrier] is required as shown on the attached map, unless prior written approval has been obtained from the Wisconsin Department of Natural Resources: 1) removal of the existing barrier; 2) replacement with another barrier; 3) excavating or grading of the land surface; 4) filling on capped or paved areas; 5) plowing for agricultural cultivation; 6) construction or placement of a building or other structure; 7) changing the use or occupancy of the property to a residential exposure setting, which may include certain uses, such as single or multiple family residences, a school, day care, senior center, hospital, or similar residential exposure settings.

If removal, replacement or other changes to a cover, or a building which is acting as a cover, are considered, the property owner will contact DNR at least 45 days before taking such an action, to determine whether further action may be necessary to protect human health, safety, or welfare or the environment, in accordance with s. NR 727.07, Wis. Adm. Code,

Amendment or Withdrawal of Maintenance Plan

This Maintenance Plan can be amended or withdrawn by the property owner and its successors with the written approval of DNR.

Contact Information
(Form 4400-202, Attachment D, Part 1.) Contact Information, including the name, address and phone number of the individual or facility who will be conducting the maintenance.)

April 2016

Site Owner and Operator: Andrew Schneider, Quatre Chiens, LLC
7610 W. Harwood Avenue, Wauwatosa, WI 53213
414-778-3333

Signature: _____

(DNR may request signature of affected property owners, on a case-by-case basis)

Property Owner: Andrew Schneider, Quatre Chiens, LLC
7610 W. Harwood Avenue, Wauwatosa, WI 53213
414-778-3333

Signature:

Consultant: Kapur & Associates, Inc.
7711 N. Port Washington Road, Milwaukee, WI 53217
414-751-7279

DNR: Binyoti Amungwafor
2300 N. Dr. MLK Jr. Drive, Milwaukee, WI 53218
414-263-8607

D.2 Location Map(s)

Include a location map which shows:

(1) the feature that requires maintenance;
(2) the location of the feature(s) that require(s) maintenance: on and off the source property;
(3) the extent of the structure or feature(s) to be maintained, in relation to other structures or features on the site;
(4) the extent and type of residual contamination; and
(5) all property boundaries.

D. 3 Photographs of Cover/Barrier

Include one or more photographs documenting the condition and extent of the cover/barrier/building/slab at the time of the closure request. Pertinent features must be visible and discernible. Include a title on each photograph, which identifies the site name and location of the feature, and the date on which the photograph was taken.

D.4 Continuing Obligations Inspection and Maintenance Log

Use DNR Fillable Form Form 4400-305

KAPUR & ASSOCIATES, INC.
CONSULTING ENGINEERS
7711 N. PORT WASHINGTON ROAD
MILWAUKEE, WISCONSIN 53217
Phone: 414.351.6668 Fax: 414.351.4117
www.kapurengineers.com

SHEET: LOCATION MAP
FIGURE: D.2.a
PROJECT: LE REVE PATISSERIE & CAFE
LOCATION: 7600-7610 HARWOOD AVENUE, WAUWATOSA, WISCONSIN 53213
NORTH ARROW:
SCALE: 1" = 20' (0, 10, 20)
SEAL:
we listen. we innovate. we turn your vision into reality.

DRAWN BY:	RAB	CHECKED BY:	TWP	APPROVED BY:	TWP	PROJECT NO.	16.0131.01	DATE:	3/9/2016	REVISION DATE:	06/28/2016

FILENAME: S:_Environ\160131-7610 Harwood Ave. Tosa ENV\Figs-Photos\D.2.a.dwg
PLOT DATE/TIME: 9/26/2016 2:56 PM
PLOTTED BY: TRAVIS W. PETERSON

KAPUR & ASSOCIATES, INC.
CONSULTING ENGINEERS
7711 N. PORT WASHINGTON ROAD
MILWAUKEE, WISCONSIN 53217
Phone: 414.351.6668 Fax: 414.351.4117
www.kapurengineers.com

SHEET: LOCATION MAP

FIGURE: D.2.b

PROJECT: LE REVE PATISSERIE & CAFE

LOCATION: 7600-7610 HARWOOD AVENUE, WAUWATOSA, WISCONSIN 53213

NORTH ARROW:

SCALE: 1" = 20'
0 10 20

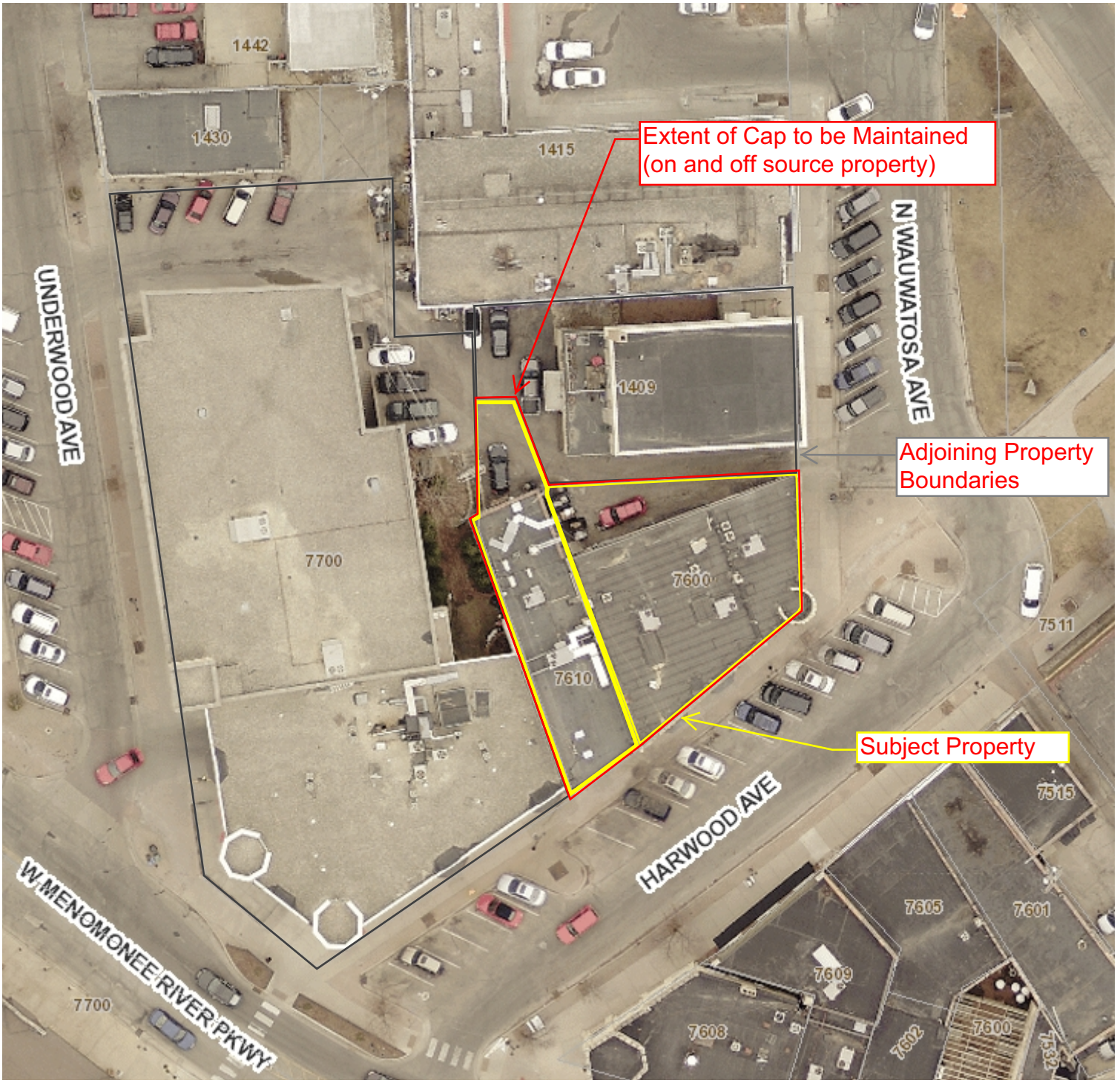
SEAL:

we listen. we innovate. we turn your vision into reality.

DRAWN BY:	TWP	CHECKED BY:	RAB	APPROVED BY:	TWP	PROJECT NO.	16.0131.01	DATE:	04/28/2016	REVISION DATE:	06/28/2016

FILENAME: S:_Environ\160131-7610 Harwood Ave. Tosa ENV\Figs-Photos\D.2.b.dwg PLOT DATE/TIME: 9/26/2016 3:05 PM PLOTTED BY: TRAVIS W. PETERSON

MILWAUKEE COUNTY INTERACTIVE MAPPING SERVICE



Projection
NAD_1927_StatePlane_Wisconsin_South_FIPS_4803

THIS MAP IS NOT TO BE USED FOR NAVIGATION

DISCLAIMER: This map is a user generated static output from the Milwaukee County Land Information Office Interactive Mapping Service website.The contents herein are for reference purposes only and may or may not be accurate, current or otherwise reliable. No liability is assumed for the data delineated herein either expressed or implied by Milwaukee County or its employees.

90 0 45 90 Feet

Figure: D.2.c

Location Map

Legend 1 : 539

- Tax Parcels
- Subdivision Docs
- Condo Docs
- CSM Docs
- 2015 COLOR
  - Red: Band_1
  - Green: Band_2
  - Blue: Band_3
- County Boundary
- City Limits Outline

State of Wisconsin
Department of Natural Resources
dnr.wi.gov

Continuing Obligations Inspection and Maintenance Log

Form 4400-305 (2/14)

Directions: In accordance with s. NR 727.05 (1) (b) 3., Wis. Adm. Code, use of this form for documenting the inspections and maintenance of certain continuing obligations is required. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.]. When using this form, identify the condition that is being inspected. See the closure approval letter for this site for requirements regarding the submittal of this form to the Department of Natural Resources. A copy of this inspection log is required to be maintained either on the property, or at a location specified in the closure approval letter. Do NOT delete previous inspection results. This form was developed to provide a continuous history of site inspection results. The Department of Natural Resources project manager is identified in the closure letter. The project manager may also be identified from the database, BRRTS on the Web, at http://dnr.wi.gov/botw/SetUpBasicSearchForm.do, by searching for the site using the BRRTS ID number, and then looking in the "Who" section.

Activity (Site) Name: HARWOOD AVENUE COMMERCIAL PROPERTY

BRRTS No.: 02-41-576745

Inspections are required to be conducted (see closure approval letter):

- (●) annually
- ( ) semi-annually
- ( ) other – specify ______

When submittal of this form is required, submit the form electronically to the DNR project manager. An electronic version of this filled out form, or a scanned version may be sent to the following email address (see closure approval letter):

Binyoti.Amungwafor@wisconsin.gov

Inspection Date	Inspector Name	Item	Describe the condition of the item that is being inspected	Recommendations for repair or maintenance	Previous recommendations implemented?	Photographs taken and attached?
		☐ monitoring well ☐ cover/barrier ☐ vapor mitigation system ☐ other:			○ Y ○ N	○ Y ○ N
		☐ monitoring well ☐ cover/barrier ☐ vapor mitigation system ☐ other:			○ Y ○ N	○ Y ○ N
		☐ monitoring well ☐ cover/barrier ☐ vapor mitigation system ☐ other:			○ Y ○ N	○ Y ○ N
		☐ monitoring well ☐ cover/barrier ☐ vapor mitigation system ☐ other:			○ Y ○ N	○ Y ○ N
		☐ monitoring well ☐ cover/barrier ☐ vapor mitigation system ☐ other:			○ Y ○ N	○ Y ○ N
		☐ monitoring well ☐ cover/barrier ☐ vapor mitigation system ☐ other:			○ Y ○ N	○ Y ○ N

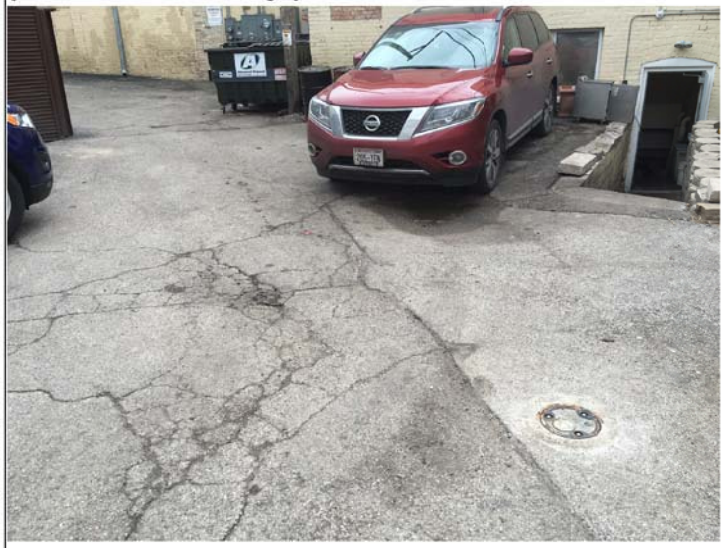
{Click to Add/Edit Image} Date added: 04/12/2016

Title: Asphalt cap with subject property boundary marked (facing south)

{Click to Add/Edit Image} Date added: 04/12/2016

Title: Asphalt cap with subject property boundary marked (facing southwest)

{Click to Add/Edit Image} Date added: 04/12/2016



Title: Asphalt cap with MW-2 (facing south)

{Click to Add/Edit Image} Date added: 04/12/2016

Title: Asphalt cap on west adjoining property with MW-2 (facing west)

{Click to Add/Edit Image} Date added: 04/12/2016

Title: Asphalt cap on east adjoining property with MW-2 (facing northeast)

{Click to Add/Edit Image} Date added: 04/12/2016

Title: Asphalt cap on east adjoining property with MW-3 (facing northwest)

State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI 53707-7921
dnr.wi.gov

SUBMIT AS UNBOUND PACKAGE IN THE ORDER SHOWN

Notice: Pursuant to ch. 292, Wis. Stats., and chs. NR 726 and 746, Wis. Adm. Code, this form is required to be completed for case closure requests. The closure of a case means that the Department of Natural Resources (DNR) has determined that no further response is required at that time based on the information that has been submitted to the DNR. All sections of this form must be completed unless otherwise directed by the Department. DNR will consider your request administratively complete when the form and all sections are completed, all attachments are included, and the applicable fees required under ch. NR 749, Wis. Adm. Code, are included, and sent to the proper destinations. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records Law (ss. 19.31 - 19.39, Wis. Stats.). Incomplete forms will be considered "administratively incomplete" and processing of the request will stop until required information is provided.

Site Information

BRRTS No.	VPLE No.
02-41-576745	

Parcel ID No.
37-10-060000 & 37-10-061000

FID No.	WTM Coordinates X	WTM Coordinates Y
341270710	682241	288291

BRRTS Activity (Site) Name
HARWOOD AVENUE COMMERICAL PROPERTY

WTM Coordinates Represent: ☒ Source Area ☐ Parcel Center

Site Address	City	State	ZIP Code
7600-7610 W. HARWOOD AVENUE	WAUWATOSA	WI	53213

Acres Ready For Use
0.17

Responsible Party (RP) Name
ANDREW SCHNEIDER

Company Name
QUATRE CHIENS, LLC

Mailing Address	City	State	ZIP Code
7610 W. HARWOOD AVENUE	WAUWATOSA	WI	53213

Phone Number	Email
(414) 778-3333	ANDY12874@GMAIL.COM

☒ Check here if the RP is the owner of the source property.

Environmental Consultant Name
TRAVIS PETERSON

Consulting Firm
KAPUR & ASSOCIATES, INC.

Mailing Address	City	State	ZIP Code
7711 N. PORT WASHINGTON ROAD	GLENDALE	WI	53217

Phone Number	Email
(414) 751-7279	TPETERSON@KAPURINC.COM

Fees and Mailing of Closure Request

1. **Send a copy of page one** of this form and the applicable ch. NR 749, Wis. Adm. Code, fee(s) to the DNR Regional EPA (Environmental Program Associate) at http://dnr.wi.gov/topic/Brownfields/Contact.html. Check all fees that apply:

   ☐ $1,050 Closure Fee

   ☐ $350 Database Fee for Groundwater or Monitoring Wells (Not Abandoned)

   ☐ $300 Database Fee for Soil

   Total Amount of Payment $ _____

   ☒ Resubmittal, Fees Previously Paid

2. **Send one paper copy and one e-copy on compact disk of the entire closure package** to the Regional Project Manager assigned to your site. Submit as *unbound, separate documents* in the order and with the titles prescribed by this form. For electronic document submittal requirements, see http://dnr.wi.gov/files/PDF/pubs/rr/RR690.pdf.

Site Summary

If any portion of the Site Summary Section is not relevant to the case closure request, you must fully explain the reasons why in the relevant section of the form. All information submitted shall be legible. Providing illegible information will result in a submittal being considered incomplete until corrected.

1. General Site Information and Site History

A. Site Location: Describe the physical location of the site, both generally and specific to its immediate surroundings.
The site is located south of the intersection of Wauwatosa Avenue and West Harwood Avenue in the City of Wauwatosa, Milwaukee County, Wisconsin in the northeast 1/4 of the southeast 1/4 of Section 21, Township 07N, Range 21 east.

B. Prior and current site usage: Specifically describe the current and historic occupancy and types of use.
The site was originally developed in 1901 as a bank and was utilized as such until 1952. The site is currently occupied by La Reve Patisserie & Cafe, Oro Di Oliva - gourmet grocery store, Urban Laundry - womens clothing store and Blue Lapin - home decorations with a small (single vehicle) asphalt parking area on the north side of the building exterior.

C. Current zoning (e.g., industrial, commercial, residential) for the site and for neighboring properties, and how verified (Provide documentation in Attachment G).
According to the City of Wauwatosa zoning for the subject parcel is currently commercial C1 - Neighborhood/Village Trade, the same for neighboring properties.

D. Describe how and when site contamination was discovered.
Site contamination was discovered in January of 2016 by Sigma Group during the installation of two soil borings to 15 feet at the estimated location a former 1,000 gallon fuel oil Underground Storage Tank (UST), removed on September 22, 1995. The subject property is listed on the WDNR GIS registry as an open ERP site. The Phase II ESA performed identified soil contamination on-site; however, were unable to define the source as the former UST, likely from fill materials present or from a potential off-site source (historic).

E. Describe the type(s) and source(s) or suspected source(s) of contamination.
The identified contaminated soil appears to be of two separate plumes with one likely stemming from fill materials deposited on-site over the course of historic redevelopment activities and the second from an off-site source likely one of those identified as Wauwatosa Fuel & Supply Co., Quickflash Fuels, Inc. and/or Jones Machinery all formerly operating adjacent to the subject site.

F. Other relevant site description information (or enter Not Applicable).
Not Applicable

G. List BRRTS activity/site name and number for BRRTS activities at this source property, including closed cases.
02-41-576745/Harwood Avenue Commercial Property- Open ERP

H. List BRRTS activity/site name(s) and number(s) for all properties immediately adjacent to (abutting) this source property.
None

2. General Site Conditions

A. Soil/Geology

i. Describe soil type(s) and relevant physical properties, thickness of soil column across the site, vertical and lateral variations in soil types.
Native soil type for the Milwaukee region is part of the Ozaukee-Morley-Mequon Association. It is typically well-drained to somewhat poorly drained soil that has a subsoil of silty clay loam and silty clay; formed in thin loess and silty clay loam of glacial till, on moraines. This association is found in the glaciated uplands were the soils formed in a thin layer of loess and the underlying glacial till. The major soils are the Ozaukee, Morley, and Mequon. Ozaukee Soils make up 20 percent of the association; Morley soil, 18 percent; Mequon soil, 11 percent; and minor soils, 51 percent. The Ozaukee and Morley soils are gently sloping, and occupy ridges and convex sloped sides of glacial moraines. The Mequon soils are in drainage ways or old lake basins

Based on observations from soil borings, the site subsurface soils consisted of uniform brown sand and gravelly sand (of brown, red and black coloration), with various non-soil material including trace amounts of non-exempt or solid waste by NR 500.08, WAC, such as concrete and plastic at shallow depths.

ii. Describe the composition, location and lateral extent, and depth of fill or waste deposits on the site.
Soil fill containing trace amounts of concrete and plastic pieces at shallow depths, was found throughout ther investigation area and is estimated to extent throughout the property.

iii. Describe the depth to bedrock, bedrock type, competency and whether or not it was encountered during the investigation.
Depth to bedrock is expected to be greater than 100 feet below ground surface (bgs) and is expected to be of the Silurian System: dolomite undivided; includes Cayugan, Niagaran, and Alexandrian series. Bedrock was not encountered during the investigation.

iv. Describe the nature and locations of current surface cover(s) across the site (e.g., natural vegetation, landscaped areas, gravel, hard surfaces, and buildings).

The building imprint covers the majority of the property. The remaining portion of the site is a small asphalt parking area (single vehicle) to the north of the building.

B. Groundwater

i. Discuss depth to groundwater and piezometric elevations. Describe and explain depth variations, including high and low water table elevation and whether free product affects measurement of water table elevation. Describe the stratigraphic unit(s) where water table was found or which were measured for piezometric levels.

Depths to groundwater ranged between 15.7 to 16.25 feet bgs with corresponding surveyed elevations of 656.79 to 656-81 across the site. Groundwater was encountered within a gavel / sand layer uniformerly across the site.

ii. Discuss groundwater flow direction(s), shallow and deep. Describe and explain flow variations, including fracture flow if present.

Groundwater flow direction is to the southwest toward the Menomonee River.

iii. Discuss groundwater flow characteristics: hydraulic conductivity, flow rate and permeability, or state why this information was not obtained.

Groundwater elevation data in the monitoring wells ranged from 672.24 feet above mean sea level (msl) in MW-2 to 672.71 feet msl in MW-3. The data from these events revealed the general groundwater flow direction is in a southwesterly direction with a horizontal hydraulic gradient of 0.02 ft/ft. The estimated hydraulic conductivity specific to the subject site specific soils (sand to gravel/sand) ranges from 10+2 to 10+5 (m/yr) with an estimated permeability of 5.00 x 10-3 m/sec.

iv. Identify and describe locations/distance of potable and/or municipal wells within 1200 feet of the site. Include general summary of well construction (geology, depth of casing, depth of screened or open interval).

No private or municipal well is located within 1,200 feet of the subject site.

3. Site Investigation Summary

A. General

i. Provide a brief summary of the site investigation history. Reference previous submittals by name and date. Describe site investigation activities undertaken since the last submittal for this project and attach the appropriate documentation in Attachment C, if not previously provided.

A Phase II ESA was conducted in January of 2016 by the Sigma Group where two soil borings were installed to fifteen feet bgs at the estimated location of the former 1,000-gallon fuel oil UST . The Phase II ESA identified soil contamination onsite; however, it was unable to define the source of the identified contamination as the former UST. The Site Investigation activities performed by Kapur in February 2016 were performed to determine a contaminant source and define, to the extent practical, the degree of contamination onsite. The SI activities included installation of 4 soil borings and 3 groundwater monitoring wells. Analytical results of the SI sampling indicated soil and groundwater impacts present above applicable standards. The source of contaminant impacts likely being fill materials distributed at the property and an offsite source contributing the the elevated concentrations at B2/MW-2 and identified via historic fire insurance maps.

ii. Identify whether contamination extends beyond the source property boundary, and if so describe the media affected (e.g., soil, groundwater, vapors and/or sediment, etc.), and the vertical and horizontal extent of impacts.

Soil and groundwater impacts likely extend beyond the property boundary northwest corner due to influence from a historic offsite source. Soil impacts extend from the upper four feet to above the groundwater interface of approx: 16 feet bgs.

iii. Identify any structural impediments to the completion of site investigation and/or remediation and whether these impediments are on the source property or off the source property. Identify the type and location of any structural impediment (e.g., structure) that also serves as the performance standard barrier for protection of the direct contact or the groundwater pathway.

Impediments to completion of the SI included the onsite building and the very small physical nature of the property boundary. The exterior portion, though asphalt covered, is an area not much larger than 1 or 2 automobile parking stalls that determined further soil boring and or monitoring well installations to be excessive.

B. Soil

i. Describe degree and extent of soil contamination. Relate this to known or suspected sources and known or potential receptors/migration pathways.

Analytical results indicate that subsurface contamination containing PAHs (1-Methylnaphthalene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, and pyrene), RCRA metals (arsenic, barium, cadmium, lead, and selenium), and VOCs (naphthalene) is present above the respective applicable NR 720 soil RCLs from approximately 2 to 16 feet bgs throughout the subject property with the highest concentrations occurring in B2 (NW property corner) from 10 to 16 feet bgs. The likely source for the impacted media likely stemming from both fill

materials present at the property and an offsite source identified via historical information research including fire insurance maps. The onsite storm water utility corridor servicing the subject property is a potential receptor for contaminant impacts, however; based upon the depth of the sewer manhole and lateral, proximity to identified impacted subsurface soil and corresponding concentrations; contaminant migration along the sewer does not appear to be evident. Based upon information obtained for this investigation, no other sensitive areas or receptors were identified in the immediate vicinity of the site.

ii. Describe the concentration(s) and types of soil contaminants found in the upper four feet of the soil column.

PAH constituents (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz (a,h)anthracene, and indeno(1,2,3-cd)pyrene), RCRA metals (arsenic, barium, cadmium, and lead) are present within the upper four feet of the soil column at concentrations above the respective applicable NR 720 soil RCLs throughout the subject property. The identified contaminants and concentrations appear indicative of fill materials having been distributed at the property.

iii. Identify the ch. NR 720, Wis. Adm. Code, method used to establish the soil cleanup standards for this site. This includes a soil performance standard established in accordance with s. NR 720.08, a Residual Contaminant Level (RCL) established in accordance with s. NR 720.10 that is protective of groundwater quality, or an RCL established in accordance with s. NR 720.12 that is protective of human health from direct contact with contaminated soil. Identify the land use classification that was used to establish cleanup standards. Provide a copy of the supporting calculations/ information in Attachment C.

A soil performance standard (existing asphalt cap and onsite building) established in accordance with s. NR 720.08 is being utilized for this investigation, along with established ch. NR 720 Soil Residual Contaminant Levels (Web Calculator) were utilized for this investigation.

C. Groundwater

i. Describe degree and extent of groundwater contamination. Relate this to known or suspected sources and known or potential receptors/migration pathways. Specifically address any potential or existing impacts to water supply wells or interception with building foundation drain systems.

Analytical results for PAHs, RCRA Metals, and VOCs indicated concentrations of benzo(a)pyrene, benzo(b) fluoranthene, and chrysene exceeding the NR 140 Enforcement Standards (ES) in MW-2. Benzo(b)fluoranthene, and chrysene concentrations were detected only slightly above the NR 140 Preventive Action Limits (PALs) in MW-3. No analyte detected in MW-1 exceeded laboratory detection limits or the NR 140 PAL. The onsite storm water utility corridor servicing the subject property is a potential receptor for contaminant impacts, however; based upon the depth of the sewer manhole and lateral in relation to the observed depth to groundwater; contaminant migration along the sewer does not appear to be evident.

ii. Describe the presence of free product at the site, including the thickness, depth, and locations. Identify the depth and location of the smear zone.

No free product was encountered during this investigation.

D. Vapor

i. Describe how the vapor migration pathway was assessed, including locations where vapor, soil gas, or indoor air samples were collected. If the vapor pathway was not assessed, explain reasons why.

Three soil vapor probes (SVP-1 through SVP-3) were installed to eight feet bgs within the location of soil borings B1, B3 and B4 along the building north face (adjacent to the former UST cavity) and at the building northwest corner to screen for petroleum vapors. No obvious odor was detected and PID readings of the soil borings remained below background levels (<10 ppmv). Oxygen concentration for SVP-1 and SVP-2 was 17.1 %, 17.9% and 18.3%, respectively. Vapor intrusion can be ruled out in most petroleum releases where five feet (in the horizontal and vertical direction) of clean, unsaturated soil with an oxygen content $\geq$ 5% exists between the residual petroleum contamination and the building (Ref. 1). Based on the analysis of the soil borings, the contaminant type, proximity of the contaminant plume and current onsite building / property layout, it is unlikely that a vapor intrusion risk exists at the subject property.

ii. Identify the applicable DNR action levels and the land use classification used to establish them. Describe where the DNR action levels were reached or exceeded (e.g., sub slab, indoor air or both).

DNR action levels were not required for this investigation.

E. Surface Water and Sediment

i. Identify whether surface water and/or sediment was assessed and describe the impacts found. If this pathway was not assessed, explain why.

This pathway was not assessed as surface water and/or sediment were not present within or adjacent to the subject site of this investigation.

ii. Identify any surface water and/or sediment action levels used to assess the impacts for this pathway and how these were derived. Describe where the DNR action levels were reached or exceeded.

Not applicable to this investigation.

4. Remedial Actions Implemented and Residual Levels at Closure

A. General: Provide a brief summary of the remedial action history. List previous remedial action report submittals by name and date. Identify remedial actions undertaken since the last submittal for this project and provide the appropriate documentation in Attachment C.

Remedial actions were not implemented as part of this investigation at the subject site, however, the existing asphalt cap will be maintained and utilized as an engineered barrier preventing direct contact, surface infiltration and the potential for contaminant migration along with aiding in the ability for natural attenuation processes to continue.

B. Describe any immediate or interim actions taken at the site under ch NR 708, Wis. Adm. Code.

None taken other that utilization of the existing asphalt cap as an engineered barrier preventing surface infiltration and direct contact.

C. Describe the *active* remedial actions taken at the source property, including: type of remedial system(s) used for each media affected; the size and location of any excavation or in-situ treatment; the effectiveness of the systems to address the contaminated media and substances; operational history of the systems; and summarize the performance of the active remedial actions. Provide any system performance documentation in Attachment A.7.

No active remedial actions have been undertaken as part of this investigation at the subject site.

D. Describe the alternatives considered during the Green and Sustainable Remediation evaluation in accordance with NR 722.09 and any practices implemented as a result of the evaluation.

No Green and Sustainable Remediation option is applicable to this investigation.

E. Describe the nature, degree and extent of residual contamination that will remain at the source property or on other affected properties after case closure.

PAHs (1-Methylnaphthalene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k) fluoranthene, chrysene, dibenz(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, and pyrene), RCRA metals (arsenic, barium, cadmium, lead, and selenium), and VOCs (naphthalene) exceeding the respective applicable NR 720 soil RCLs from approximately 2 to 16 feet bgs throughout the subject property with the highest concentrations occurring in B2 (NW property corner) from 10 to 16 feet bgs will remain at the source property after closure.

F. Describe the residual soil contamination within four feet of ground surface (direct contact zone) that attains or exceeds RCLs established under s. NR 720.12, Wis. Adm. Code, for protection of human health from direct contact.

PAH constituents (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h) anthracene, and indeno(1,2,3-cd)pyrene), RCRA metals (arsenic, barium, cadmium, and lead) are present within the upper four feet of the soil column at concentrations above the respective applicable NR 720 soil RCLs throughout the subject property. The identified contaminants and concentrations appear indicative of fill materials having been distributed at the property.

G. Describe the residual soil contamination that is above the observed low water table that attains or exceeds the soil standard(s) for the groundwater pathway.

PAH constituents (benzo(a)pyrene, benzo(b)fluoranthene, chrysene, fluoranthene, fluorene, naphthalene and pyrene), RCRA metals (arsenic, lead and selenium) are present above the observed water table at concentrations above the respective applicable NR 720 soil RCLs groundwater pathway at B2 and B3.

H. Describe how the residual contamination will be addressed, including but not limited to details concerning: covers, engineering controls or other barrier features; use of natural attenuation of groundwater; and vapor mitigation systems or measures.

The existing asphalt cap and onsite building will be maintained and utilized as an engineered barrier preventing surface infiltration and the potential for contaminant migration along with aiding in the ability for natural attenuation processes to continue.

I. If using natural attenuation as a groundwater remedy, describe how the data collected supports the conclusion that natural attenuation is effective in reducing contaminant mass and concentration (e.g., stable or receding groundwater plume).

Given the elevated contaminant concentrations detected in soil (the highest detected at or slightly above the groundwater interface) versus groundwater concentrations being detected only slightly above the ES or PAL reveals that natural attenuation processed are occurring and breaking down the contaminant mass with little to no external influence.

J. Identify how all exposure pathways (soil, groundwater, vapor) were removed and/or adequately addressed by immediate, interim and/or remedial action(s).

The existing asphalt cap and onsite building is being maintained and utilized as an engineered barrier preventing direct contact to soil, surface infiltration and the potential for contaminant migration along with aiding in the ability for natural attenuation processes to continue.

K. Identify any system hardware anticipated to be left in place after site closure, and explain the reasons why it will remain.

No system installed as part of this investigation, other than the existing asphalt cap and onsite building being maintained and utilized as an engineered barrier.

L. Identify the need for a ch. NR 140, Wis. Adm. Code, groundwater Preventive Action Limit (PAL) or Enforcement Standard (ES) exemption, and identify the affected monitoring points and applicable substances.

A PAL exemption is appropriate for contaminants (benzo(b)fluoranthene and chrysene) at MW-3 and an ES exemption at MW-2 (benzo(a)pyrene, benzo(b)fluoranthene and chrysene) given the elevated contaminant concentrations detected in soil (the highest detected at or slightly above the groundwater interface) versus groundwater concentrations being detected, thus, revealing that natural attenuation processed are occurring and breaking down the contaminant mass with little to no external influence.

M. If a DNR action level for vapor intrusion was exceeded (for indoor air, sub slab, or both) describe where it was exceeded and how the pathway was addressed.

N. Describe the surface water and/or sediment contaminant concentrations and areas after remediation. If a DNR action level was exceeded, describe where it was exceeded and how the pathway was addressed.

5. Continuing Obligations: Situations where sites, including all affected properties and rights-of-way (ROWs), are included on the DNR's GIS Registry. In certain situations, maintenance plans are also required, and must be included in Attachment D.

Directions: For each of the 3 property types below, check all situations that apply to this closure request.

(NOTE: Monitoring wells to be transferred to another site are addressed in Attachment E.)

	This situation applies to the following property or Right of Way (ROW):			Case Closure Situation - Continuing Obligation Inclusion on the GIS Registry is Required (ii. - xiv.)	Maintenance Plan Required
	Property Type:				
	Source Property	Affected Property (Off-Source)	ROW		
i.	☐	☐	☐	None of the following situations apply to this case closure request.	NA
ii.	☒	☐	☐	Residual groundwater contamination exceeds ch. NR 140 ESs.	NA
iii.	☒	☐	☐	Residual soil contamination exceeds ch. NR 720 RCLs.	NA
iv.				Monitoring Wells Remain:	
	☐	☐	☐	• Not Abandoned (filled and sealed)	NA
	☐	☐	☐	• Continued Monitoring (requested or required)	Yes
v.	☒	☐	☐	Cover/Barrier/Engineered Cover or Control for (soil) direct contact pathways (includes vapor barriers)	Yes
vi.	☒	☐	☐	Cover/Barrier/Engineered Cover or Control for (soil) groundwater infiltration pathway	Yes
vii.	☒	☐	☐	Structural Impediment: impedes completion of investigation or remedial action (not as a performance standard cover)	NA
viii.	☐	☐	☐	Residual soil contamination meets NR 720 industrial soil RCLs, land use is classified as industrial	NA
ix.	☐	☐	NA	Vapor Mitigation System (VMS) required due to exceedances of vapor risk screening levels or other health based concern	Yes
x.	☐	☐	NA	Vapor: Dewatering System needed for VMS to work effectively	Yes
xi.	☐	☐	NA	Vapor: Compounds of Concern in use: full vapor assessment could not be completed	NA
xii	☐	☐	NA	Vapor: Commercial/industrial exposure assumptions used.	NA
xiii.	☐	☐	☐	Vapor: Residual volatile contamination poses future risk of vapor intrusion	NA
xiv.	☐	☐	☐	Site-specific situation: (e. g., fencing, methane monitoring, other) (*discuss with project manager before submitting the closure request*)	Site specific

6. Underground Storage Tanks

A. Were any tanks, piping or other associated tank system components removed as part of the investigation or remedial action? ○ Yes ◉ No

B. Do any upgraded tanks meeting the requirements of ch. ATCP 93, Wis. Adm. Code, exist on the property? ○ Yes ◉ No

C. If the answer to question 6.B. is yes, is the leak detection system currently being monitored? ○ Yes ○ No

General Instructions

All information shall be legible. Providing illegible information will result in a submittal being considered incomplete until corrected. For each attachment (A-G), provide a Table of Contents page, listing all 'applicable' and 'not applicable' items by Closure Form titles (e.g., A.1. Groundwater Analytical Table, A.2. Soil Analytical Results Table, etc.). If any item is 'not applicable' to the case closure request, you must fully explain the reasons why.

Data Tables (Attachment A)

Directions for Data Tables:

- Use **bold** and italics font for information of importance on tables and figures. Use **bold** font for ch. NR 140, Wis. Adm. Code ES attainments or exceedances, and *italicized font* for ch. NR 140, Wis. Adm. Code, PAL attainments or exceedances.
- Use **bold** font to identify individual ch. NR 720 Wis. Adm. Code RCL exceedances. Tables should also include the corresponding groundwater pathway and direct contact pathway RCLs for comparison purposes. Cumulative hazard index and cumulative cancer risk exceedances should also be tabulated and identified on Tables A.2 and A.3.
- Do not use shading or highlighting on the analytical tables.
- Include on Data Tables the level of detection for results which are below the detection level (i.e., do not just list as no detect (ND)).
- Include the units on data tables.
- Summaries of all data must include information collected by previous consultants.
- Do not submit lab data sheets unless these have not been submitted in a previous report. Tabulate all data required in s. NR 716.15 (3)(c), Wis. Adm. Code, in the format required in s. NR 716.15(4)(e), Wis. Adm. Code.
- Include in Attachment A all of the following tables, in the order prescribed below, with the specific Closure Form titles noted on the separate attachments (e.g., Title: A.1. Groundwater Analytical Table; A.2. Soil Analytical Results Table, etc.).
- For required documents, each table (e.g., A.1., A.2., etc.) should be a separate Portable Document Format (PDF).

A. Data Tables

A.1. **Groundwater Analytical Table(s):** Table(s) showing the analytical results and collection dates for all groundwater sampling points (e.g., monitoring wells, temporary wells, sumps, extraction wells, potable wells) for which samples have been collected.

A.2. **Soil Analytical Results Table(s):** Table(s) showing **all** soil analytical results and collection dates. Indicate if sample was collected above or below the observed low water table (unsaturated versus saturated).

A.3. **Residual Soil Contamination Table(s):** Table(s) showing the analytical results of only the residual soil contamination at the time of closure. This table shall be a subset of table A.2 and should include only the soil sample locations that exceed an RCL. Indicate if sample was collected above or below the observed low water table (unsaturated versus saturated). Table A.3 is optional only if a total of fewer than 15 soil samples have been collected at the site.

A.4. **Vapor Analytical Table(s):** Table(s) showing type(s) of samples, sample collection methods, analytical method, sample results, date of sample collection, time period for sample collection, method and results of leak detection, and date, method and results of communication testing.

A.5. **Other Media of Concern (e.g., sediment or surface water):** Table(s) showing type(s) of sample, sample collection method, analytical method, sample results, date of sample collection, and time period for sample collection.

A.6. **Water Level Elevations:** Table(s) showing all water level elevation measurements and dates from all monitoring wells. If present, free product should be noted on the table.

A.7. **Other:** This attachment should include: 1) any available tabulated natural attenuation data; 2) data tables pertaining to engineered remedial systems that document operational history, demonstrate system performance and effectiveness, and display emissions data; and (3) any other data tables relevant to case closure not otherwise noted above. If this section is not applicable, please explain the reasons why.

Maps, Figures and Photos (Attachment B)

Directions for Maps, Figures and Photos:

- Provide on paper no larger than 11 x 17 inches, unless otherwise directed by the Department. Maps and figures may be submitted in a larger electronic size than 11 x 17 inches, in a PDF readable by the Adobe Acrobat Reader. However, those larger-size documents must be legible when printed.
- Prepare visual aids, including maps, plans, drawings, fence diagrams, tables and photographs according to the applicable portions of ss. NR 716.15(4), 726.09(2) and 726.11(3), (5) and (6), Wis. Adm. Code.
- Include all sample locations.
- Contour lines should be clearly labeled and defined.
- Include in Attachment B all of the following maps and figures, in the order prescribed below, with the specific Closure Form titles noted on the separate attachments (e.g., Title: B.1. Location Map; B.2. Detailed Site Map, etc).
- For the electronic copies that are required, each map (e.g., B.1.a., B.2.a, etc.,) should be a separate PDF.
- Maps, figures and photos should be dated to reflect the most recent revision.

B.1. Location Maps

B.1.a. **Location Map:** A map outlining all properties within the contaminated site boundaries on a United States Geological Survey (U.S.G.S.) topographic map or plat map in sufficient detail to permit easy location of all affected and/or adjacent parcels. If groundwater standards are exceeded, include the location of all potable wells, including municipal wells, within 1200 feet of the area of contamination.

B.1.b. **Detailed Site Map:** A map that shows all relevant features (buildings, roads, current ground surface cover, individual property boundaries for all affected properties, contaminant sources, utility lines, monitoring wells and potable wells) within the contaminated area. This map is to show the location of all contaminated public streets, and highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination attaining or exceeding a ch. NR 140 ES, and/or in relation to the boundaries of soil contamination attaining or exceeding a RCL. Provide parcel identification numbers for all affected properties.

B.1.c. **RR Sites Map:** From RR Sites Map (http://dnrmaps.wi.gov/sl/?Viewer=RR Sites) attach a map depicting the source property, and all open and closed BRRTS sites within a half-mile radius or less of the property.

B.2. Soil Figures

B.2.a. **Soil Contamination:** Figure(s) showing the location of all identified unsaturated soil contamination. Use a single contour to show the horizontal extent of each area of contiguous soil contamination that exceeds a soil to groundwater pathway RCL as determined under ch. NR 720.Wis. Adm. Code. A separate contour line should be used to indicate the horizontal extent of each area of contiguous soil contamination that exceeds a direct contact RCL exceedances (0-4 foot depth).

B.2.b. **Residual Soil Contamination:** Figure(s) showing only the locations of soil samples where unsaturated soil contamination remains at the time of closure (locations represented in Table A.3). Use a single contour to show the horizontal extent of each area of contiguous soil contamination that exceeds a soil to groundwater pathway RCL as determined under ch. NR 720 Wis. Adm. Code. A separate contour line should be used to indicate the horizontal extent of each area of contiguous soil contamination that exceeds a direct contact RCL exceedence (0-4 foot depth).

B.3. Groundwater Figures

B.3.a. **Geologic Cross-Section Figure(s):** One or more cross-section diagrams showing soil types and correlations across the site, water table and piezometric elevations, and locations and elevations of geologic rock units, if encountered. Display on one or more figures all of the following:

- Source location(s) and vertical extent of residual soil contamination exceeding an RCL. Distinguish between direct contact and the groundwater pathway RCLs.
- Source location(s) and lateral and vertical extent if groundwater contamination exceeds ch. NR 140 ES.
- Surface features, including buildings and basements, and show surface elevation changes.
- Any areas of active remediation within the cross section path, such as excavations or treatment zones.
- Include a map displaying the cross-section location(s), if they are not displayed on the Detailed Site Map (Map B.1.b.)

B.3.b. **Groundwater Isoconcentration:** Figure(s) showing the horizontal extent of the post-remedial groundwater contamination exceeding a ch. NR 140, Wis. Adm. Code, PAL and/or an ES. Indicate the date and direction of groundwater flow based on the most recent sampling data.

B.3.c. **Groundwater Flow Direction:** Figure(s) representing groundwater movement at the site. If the flow direction varies by more than 20° over the history of the site, submit two groundwater flow maps showing the maximum variation in flow direction.

B.3.d. **Monitoring Wells:** Figure(s) showing all monitoring wells, with well identification number. Clearly designate any wells that: (1) are proposed to be abandoned; (2) cannot be located; (3) are being transferred; (4) will be retained for further sampling, or (5) have been abandoned.

B.4. Vapor Maps and Other Media

B.4.a. **Vapor Intrusion Map:** Map(s) showing all locations and results for samples taken to investigate the vapor intrusion pathway in relation to residual soil and groundwater contamination, including sub-slab, indoor air, soil vapor, soil gas, ambient air, and communication testing. Show locations and footprints of affected structures and utility corridors, and/or where residual contamination poses a future risk of vapor intrusion.

B.4.b. **Other media of concern (e.g., sediment or surface water):** Map(s) showing all sampling locations and results for other media investigation. Include the date of sample collection and identify where any standards are exceeded.

B.4.c. **Other:** Include any other relevant maps and figures not otherwise noted above. (This section may remain blank).

B.5. Structural Impediment Photos: One or more photographs documenting the structural impediment feature(s) which precluded a complete site investigation or remediation at the time of the closure request. The photographs should document the area that could not be investigated or remediated due to a structural impediment. The structural impediment should be indicated on Figures B.2.a and B.2.b.

Documentation of Remedial Action (Attachment C)

Directions for Documentation of Remedial Action:

- Include in Attachment C all of the following documentation, in the order prescribed below, with the specific Closure Form titles noted on the separate attachments (e.g., Title: C.1. Site Investigation Documentation; C.2. Investigative Waste, etc.).
- If the documentation requested below has already been submitted to the DNR, please note the title and date of the report for that particular document requested.

C.1. **Site Investigation documentation,** that has not otherwise been submitted with the Site Investigation Report.

C.2. **Investigative waste** disposal documentation.

C.3. Provide a **description of the methodology** used along with all supporting documentation if the RCLs are different than those contained in the Department's RCL Spreadsheet available at: http://dnr.wi.gov/topic/Brownfields/Professionals.html.

C.4. **Construction documentation** or as-built report for any constructed remedial action or portion of, or interim action specified in s. NR 724.02(1), Wis. Adm. Code.

C.5. **Decommissioning of Remedial Systems.** Include plans to properly abandon any systems or equipment.

C.6. **Other.** Include any other relevant documentation not otherwise noted above (This section may remain blank).

Maintenance Plan(s) and Photographs (Attachment D)

Directions for Maintenance Plans and Photographs:

Attach a maintenance plan for each affected property (source property, each off-source affected property) with continuing obligations requiring future maintenance (e.g., direct contact, groundwater protection, vapor intrusion). See Site Summary section 5 for all affected property(s) requiring a maintenance plan. Maintenance plan guidance and/or templates for: 1) Cover/barrier systems; 2) Vapor intrusion; and 3) Monitoring wells, can be found at: http://dnr.wi.gov/topic/Brownfields/Professionals.html#tabx3

D.1. **Descriptions of maintenance action(s) required for maximizing effectiveness of the engineered control, vapor mitigation system, feature or other action for which maintenance is required:**

- Provide brief descriptions of the type, depth and location of residual contamination.

- Provide a description of the system/cover/barrier/monitoring well(s) to be maintained.
- Provide a description of the maintenance actions required for maximizing effectiveness of the engineered control, vapor mitigation system, feature or other action for which maintenance is required.
- Provide contact information, including the name, address and phone number of the individual or facility who will be conducting the maintenance.

D.2. **Location map(s) which show(s):** (1) the feature that requires maintenance; (2) the location of the feature(s) that require(s) maintenance - on and off the source property; (3) the extent of the structure or feature(s) to be maintained, in relation to other structures or features on the site; (4) the extent and type of residual contamination; and (5) all property boundaries.

D.3. **Photographs** for site or facilities with a cover or other performance standard, a structural impediment or a vapor mitigation system, include one or more photographs documenting the condition and extent of the feature at the time of the closure request. Pertinent features shall be visible and discernible. Photographs shall be submitted with a title related to the site name and location, and the date on which it was taken.

D.4. **Inspection log**, to be maintained on site, or at a location specified in the maintenance plan or approval letter. The inspection and maintenance log is found at: http://dnr.wi.gov/files/PDF/forms/4400/4400-305.pdf.

Monitoring Well Information (Attachment E)

Directions for Monitoring Well Information:
For all wells that will remain in use, be transferred to another party, or that could not be located; attach monitoring well construction and development forms (DNR Form 4400-113 A and B: http://dnr.wi.gov/topic/groundwater/documents/forms/4400_113_1_2.pdf)

Select One:

- ○ No monitoring wells were installed as part of this response action.
- ◉ All monitoring wells have been located and will be properly abandoned upon the DNR granting conditional closure to the site
- ○ ***Select One or More:***
  - ☐ Not all monitoring wells can be located, despite good faith efforts. Attachment E must include a description of efforts made to locate the wells.
  - ☐ One or more wells will remain in use at the site after this closure. Attachment E must include documentation as to the reason (s) the well(s) will remain in use. When one or more monitoring wells will remain in use this is considered a continuing obligation and a maintenance plan will be required and must be included in Attachment D.
  - ☐ One or more monitoring wells will be transferred to another owner upon case closure being granted. Attachment E should include documentation identifying the name, address and email for the new owner(s). Provide documentation from the party accepting future responsibility for monitoring well(s).

Source Legal Documents (Attachment F)

Directions for Source Legal Documents:
Label documents with the specific closure form titles (e.g., F.1. Deed, F.2. Certified Survey Map, etc.). Include all of the following documents, in the order listed:

F.1. **Deed:** The most recent deed with legal description clearly listed.

Note: If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.

F.2. **Certified Survey Map:** A copy of the certified survey map or the relevant section of the recorded plat map for those properties where the legal description in the most recent deed refers to a certified survey map or a recorded plat map. In cases where the certified survey map or recorded plat map are not legible or are unavailable, a copy of a parcel map from a county land information office may be substituted. A copy of a parcel map from a county land information office shall be legible, and the parcels identified in the legal description shall be clearly identified and labeled with the applicable parcel identification number.

F.3. **Verification of Zoning**: Documentation (e.g., official zoning map or letter from municipality) of the property's or properties' current zoning status.

F.4. **Signed Statement:** A statement signed by the Responsible Party (RP), which states that he or she believes that the attached legal description(s) accurately describe(s) the correct contaminated property or properties. This section applies to the source property only. Signed statements for Other Affected Properties should be included in Attachment G.

Notifications to Owners of Affected Properties (Attachment G)

Directions for Notifications to Owners of Affected Properties:
Complete the table on the following page for sites which require notification to owners of affected properties pursuant to ch. 292, Wis. Stats. and ch. NR 725 and 726, Wis. Adm. Code. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31- 19.39,Wis. Stats.]. The DNR's "Guidance on Case Closure and the Requirements for Managing Continuing Obligations" (PUB-RR-606) lists specific notification requirements http://dnr.wi.gov/files/PDF/pubs/rr/RR606.pdf.

State law requires that the responsible party provide a 30-day, written advance notification to certain persons prior to applying for case closure. This requirement applies if: (1) the person conducting the response action does not own the source property; (2) the contamination has migrated onto another property; and/or (3) one or more monitoring wells will not be abandoned. Use form 4400-286, Notification of Continuing Obligations and Residual Contamination, at http://dnr.wi.gov/files/PDF/forms/4400/4400-286.pdf

Include a copy of each notification sent and accompanying proof of delivery, i.e., return receipt or signature confirmation. (These items will not be placed on the GIS Registry.)

Include the following documents for each property, keeping each property's documents grouped together and labeled with the letter G and the corresponding ID number from the table on the following page. (Source Property documents should only be included in Attachment F):

- **Deed:** The most recent deed with legal descriptions clearly listed for all affected properties.
  Note: If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.
- **Certified Survey Map:** A copy of the certified survey map or the relevant section of the recorded plat map for those properties where the legal description in the most recent deed refers to a certified survey map or a recorded plat map. In cases where the certified survey map or recorded plat map are not legible or are unavailable, a copy of a parcel map from a county land information office may be substituted. A copy of a parcel map from a county land information office shall be legible, and the parcels identified in the legal description shall be clearly identified and labeled with the applicable parcel identification number.
- **Verification of Zoning:** Documentation (e.g., official zoning map or letter from municipality) of the property's or properties' current zoning status.
- **Signed Statement:** A statement signed by the Responsible Party (RP), which states that he or she believes the attached legal description(s) accurately describe(s) the correct contaminated property or properties.

Notifications to Owners of Affected Properties (Attachment G)

ID	Address of Affected Property	Parcel ID No.	Date of Receipt of Letter	Type of Property Owner	WTMX	WTMY	Reasons Notification Letter Sent: Residual Groundwater Contamination = or > ES	Residual Soil Contamination Exceeds RCLs	Monitoring Wells: Not Abandoned	Monitoring Wells: Continued Monitoring	Cover/Barrier/Engineered Control	Structural Impediment	Industrial RCLs Met/Applied	Vapor Mitigation System(VMS)	Dewatering System Needed for VMS	Compounds of Concern in Use	Commercial/Industrial Vapor Exposure Assumptions Applied	Residual Volatile Contamination Poses Future Risk of Vapor Intrusion	Site Specification Situation
A	7600 Harwood Avenue, Wauwatosa, WI	37-10-060000		APO	682254	288272	X	X			X	X							
B																			
C																			
D																			

Signatures and Findings for Closure Determination

Check the correct box for this case closure request, and have either a professional engineer or a hydrogeologist, as defined in ch. NR 712, Wis. Adm. Code, sign this document.

☒ A response action(s) for this site addresses groundwater contamination (including natural attenuation remedies).

☐ The response action(s) for this site addresses media other than groundwater.

Engineering Certification

I Jeremy Schwartz hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this case closure request has been prepared by me or prepared under my supervision in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this case closure request is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code. Specifically, with respect to compliance with the rules, in my professional opinion a site investigation has been conducted in accordance with ch. NR 716, Wis. Adm. Code, and all necessary remedial actions have been completed in accordance with chs. NR 140, NR 718, NR 720, NR 722, NR 724 and NR 726, Wis. Adm. Codes."

WISCONSIN JEREMY E. SCHWARTZ E-40476 MILWAUKEE, WISCONSIN PROFESSIONAL ENGINEER

Jeremy Schwartz	Project Engineer
Printed Name	Title

	9-30-16	
Signature	Date	P.E. Stamp and Number

Hydrogeologist Certification

I _____ hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this case closure request is correct and the document was prepared by me or prepared by me or prepared under my supervision and, in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code. Specifically, with respect to compliance with the rules, in my professional opinion a site investigation has been conducted in accordance with ch. NR 716, Wis. Adm. Code, and all necessary remedial actions have been completed in accordance with chs. NR 140, NR 718, NR 720, NR 722, NR 724 and NR 726, Wis. Adm. Codes."

Printed Name	Title
Signature	Date

KAPUR & ASSOCIATES, INC.
CONSULTING ENGINEERS

Table A.1: Groundwater Analytical Results
Le Reve Patisserie & Café
7600-7610 W. Harwood Avenue, Wauwatosa, Wisconsin

Parameter	Units	WI NR 140 GW Quality Enforcement Standards	WI NR 140 GW Quality Preventive Action Limits	MW-1	MW-2	MW-3	TRIP
Polynuclear Aromatic Hydrocarbons (PAHs)							
1-Methylnaphthalene	ug/L			0.0029 J	0.074	0.0072 J	NA
2-Methylnaphthalene	ug/L			0.0039 J	0.087	0.014 J	
Acenaphthene	ug/L			<0.0045	0.32	<0.0045	
Acenaphthylene	ug/L			<0.0045	0.018 J	<0.0045	
Anthracene	ug/L	3000	600	<0.0037	0.85	0.0041 J	
Benzo(a)anthracene	ug/L			0.0088 J	0.67	0.020 J	
Benzo(a)pyrene	ug/L	.2	.02	0.0042 J	**0.51**	0.018 J	
Benzo(b)fluoranthene	ug/L	.2	.02	0.010 J	**0.77**	***0.038***	
Benzo(g,h,i)perylene	ug/L			0.0040 J	0.29	0.018 J	
Benzo(k)fluoranthene	ug/L			0.0053 J	0.42	0.019 J	
Chrysene	ug/L	.2	.02	0.012 J	**0.92**	***0.038***	
Dibenz(a,h)anthracene	ug/L			<0.0051	0.074	<0.0051	
Fluoranthene	ug/L	400	80	0.018 J	2.1	0.064	
Fluorene	ug/L	400	80	<0.0037	0.52	0.0046 J	
Indeno(1,2,3-cd)pyrene	ug/L			<0.0033	0.25	0.013 J	
Naphthalene	ug/L	100	10	0.028 J	0.23	0.0079 J	
Phenanthrene	ug/L			0.016 J	2.4	0.043 J	
Pyrene	ug/L	250	50	0.017 J	1.5	0.055	
RCRA Metals							
Barium, Dissolved	ug/L	2000	400	67.9	66.0	67.1	NA
Chromium, Dissolved	ug/L	100	10	<0.87	<0.87	2.0 J	
Volatile Organic Compounds (VOCs)				<LDLs			

NOTES: **Sample Collection Date: February 29, 2016**

Only analytes with a detection in at least one sample are shown

NA = Not Analyzed

ug/L = micrograms per Liter

LDLs = Laboratory Detection Limits

Concentrations equal to or exceeding the WI NR 140 GW Quality Enforcement Standards are **bold faced**

Concentrations equal to or exceeding the WI NR 140 GW Quality Preventive Action Limits are ***italicized***

J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

Table A.2.

Soil Analytical Results Table

7600 & 7610 Harwood Avenue, Wauwatosa, Wisconsin

Sigma Project No. 15935

Soil Sample Location:		GP-1			GP-2			Groundwater Pathway RCL [4]	Non-Industrial Direct Contact RCL [5]	Industrial Direct Contact RCL [6]
Sample Depth (feet bgs):		6-8	12-14		6-8	10-12				
Sample Collection Date:		1/7/16	1/7/16		1/7/16	1/7/16				
VOCs										
Benzene	mg/kg	<0.016	<0.016		<0.016	<0.016		0.0051	1.49	7.41
Bromobenzene	mg/kg	<0.039	<0.039		<0.039	<0.039		NS	354	679
Bromodichloromethane	mg/kg	<0.015	<0.015		<0.015	<0.015		0.0003	0.39	1.96
Bromoform	mg/kg	<0.023	<0.023		<0.023	<0.023		0.0023	23.6	115
tert-Butylbenzene	mg/kg	<0.035	<0.035		<0.035	<0.035		NS	183	183
sec-Butylbenzene	mg/kg	<0.036	<0.036		<0.036	<0.036		NS	145	145
n-Butylbenzene	mg/kg	<0.086	<0.086		<0.086	<0.086		NS	108	108
Carbon tetrachloride	mg/kg	<0.021	<0.021		<0.021	<0.021		0.0039	0.854	4.25
Chlorobenzene	mg/kg	<0.039	<0.039		<0.039	<0.039		NS	392	761
Chloroethane	mg/kg	<0.045	<0.045		<0.045	<0.045		0.2266	NS	NS
Chloroform	mg/kg	<0.026	<0.026		<0.026	<0.026		0.0033	0.423	2.13
Chloromethane	mg/kg	<0.25	<0.25		<0.25	<0.25		0.0155	171	720
2-Chlorotoluene	mg/kg	<0.029	<0.029		<0.029	<0.029		NS	907	907
4-Chlorotoluene	mg/kg	<0.032	<0.032		<0.032	<0.032		NS	253	253
1,2-Dibromo-3-chloropropane	mg/kg	<0.078	<0.078		<0.078	<0.078		0.0002	0.008	0.099
Dibromochloromethane	mg/kg	<0.031	<0.031		<0.031	<0.031		0.032	0.971	4.82
1,4-Dichlorobenzene	mg/kg	<0.03	<0.03		<0.03	<0.03		0.144	3.48	17.5
1,3-Dichlorobenzene	mg/kg	<0.03	<0.03		<0.03	<0.03		1.1528	297	297
1,2-Dichlorobenzene	mg/kg	<0.039	<0.039		<0.039	<0.039		1.168	376	376
Dichlorodifluoromethane	mg/kg	<0.043	<0.043		<0.043	<0.043		3.0863	135	571
1,2-Dichloroethane	mg/kg	<0.03	<0.03		<0.03	<0.03		0.0028	0.608	3.03
1,1-Dichloroethane	mg/kg	<0.025	<0.025		<0.025	<0.025		0.4828	4.72	23.7
1,1-Dichloroethene	mg/kg	<0.029	<0.029		<0.029	<0.029		0.005	342	1,190
cis-1,2-Dichloroethene	mg/kg	<0.021	<0.021		<0.021	<0.021		0.0412	156	2,040
trans-1,2-Dichloroethene	mg/kg	<0.024	<0.024		<0.024	<0.024		0.0588	1,560	1,860
1,2-Dichloropropane	mg/kg	<0.025	<0.025		<0.025	<0.025		0.0033	1.33	6.62
2,2-Dichloropropane	mg/kg	<0.1	<0.1		<0.1	<0.1		NS	527	527
1,3-Dichloropropane	mg/kg	<0.031	<0.031		<0.031	<0.031		0.0003	1,490	1,490
Di-isopropyl Ether	mg/kg	<0.012	<0.012		<0.012	<0.012		NS	2,260	2,260
EDB (1,2-Dibromoethane)	mg/kg	<0.035	<0.035		<0.035	<0.035		0.0000282	0.047	0.23
Ethylbenzene	mg/kg	<0.027	<0.027		<0.027	<0.027		1.57	7.47	37
Hexachlorobutadiene	mg/kg	<0.11	<0.11		<0.11	<0.11		NS	1.51	7.45
Isopropylbenzene	mg/kg	<0.037	<0.037		<0.037	<0.037		NS	NS	NS
p-Isopropyltoluene	mg/kg	<0.056	<0.056		<0.056	<0.056		NS	162	162
Methylene chloride	mg/kg	<0.22	<0.22		<0.22	<0.22		0.0026	60.7	1,070
Methyl-tert-butyl-ether	mg/kg	<0.025	<0.025		<0.025	<0.025		0.027	59.4	293
Naphthalene	mg/kg	<0.087	<0.087		<0.087	<0.087		0.6582	5.15	26
n-Propylbenzene	mg/kg	<0.035	<0.035		<0.035	<0.035		NS	264	264
1,1,2,2-Tetrachloroethane	mg/kg	<0.013	<0.013		<0.013	<0.013		0.0002	0.753	3.69
1,1,1,2-Tetrachloroethane	mg/kg	<0.029	<0.029		<0.029	<0.029		0.0534	2.59	12.9
Tetrachloroethene (PCE)	mg/kg	<0.054	<0.054		<0.054	<0.054		0.0045	30.7	153
Toluene	mg/kg	<0.031	<0.031		<0.031	<0.031		1.1072	818	818
1,2,4-Trichlorobenzene	mg/kg	<0.085	<0.085		<0.085	<0.085		0.408	22	98.7
1,2,3-Trichlorobenzene	mg/kg	<0.12	<0.12		<0.12	<0.12		NS	62.6	818
1,1,1-Trichloroethane	mg/kg	<0.04	<0.04		<0.04	<0.04		0.1402	640	640
1,1,2-Trichloroethane	mg/kg	<0.033	<0.033		<0.033	<0.033		0.0032	1.48	7.34
Trichloroethene (TCE)	mg/kg	<0.042	<0.042		<0.042	<0.042		0.0036	1.26	8.81
Trichlorofluoromethane	mg/kg	<0.06	<0.06		<0.06	<0.06		NS	1,120	1,230
1,2,4-Trimethylbenzene	mg/kg	<0.078	<0.078		<0.078	<0.078		1.3821	89.8	219
1,3,5-Trimethylbenzene	mg/kg	<0.089	<0.089		<0.089	<0.089			182	182
Vinyl Chloride	mg/kg	<0.01	<0.01		<0.01	<0.01		0.0001	0.067	2.03
Xylenes (total)	mg/kg	<0.099	<0.099		<0.099	<0.099		3.94	258	258
PAHs										
Acenaphthene	mg/kg	0.050 "J"	<0.0201		<0.0201	<0.0201		NS	3,440	33,000
Acenaphthylene	mg/kg	<0.0198	<0.0198		<0.0198	<0.0198		NS	NS	NS
Anthracene	mg/kg	0.084	0.056		0.082	<0.0171		197.7273	17,200	100,000
Benzo(a)anthracene	mg/kg	**[0.147]**	**[0.184]**		**[0.176]**	<0.0191		NS	0.147	2.1
Benzo(a)pyrene	mg/kg	**[0.2]**	**{0.215}**		**[0.182]**	<0.0143		0.47	0.015	0.211
Benzo(b)fluoranthene	mg/kg	**[0.288]**	**[0.33]**		**[0.258]**	<0.019		0.4793	0.148	2.11
Benzo(ghi)perylene	mg/kg	0.162	0.154		0.121	<0.02		NS	NS	NS
Benzo(k)fluoranthene	mg/kg	0.103	0.116		0.135	<0.0174		NS	1.48	21.1
Chrysene	mg/kg	**0.196**	**0.223**		**0.197**	<0.0192		0.1446	14.8	211
Dibenzo(a,h)anthracene	mg/kg	**[0.0295 "J"]**	**[0.034 "J"]**		**[0.0281 "J"]**	<0.015		NS	0.015	0.211
Fluoranthene	mg/kg	0.52	0.40		0.43	<0.0192		88.8778	2,290	22,000
Fluorene	mg/kg	0.044 "J"	<0.0184		0.029 "J"	<0.0184		14.8027	2,290	22,000
Indeno(1,2,3-cd)pyrene	mg/kg	0.132	0.131		0.099	<0.0165		NS	0.148	2.11
1-Methylnaphthalene	mg/kg	0.0299 "J"	<0.0205		<0.0205	<0.0205		NS	15.6	53.1
2-Methylnaphthalene	mg/kg	0.0277 "J"	<0.0199		<0.0199	<0.0199		NS	229	2,200
Naphthalene	mg/kg	0.064 "J"	<0.0203		<0.0203	<0.0203		0.6582	5.15	26
Phenanthrene	mg/kg	0.55	0.184		0.288	<0.0198		NS	NS	NS
Pyrene	mg/kg	0.48	0.37		0.39	<0.0192		54.1322	1,720	16,500

Notes:

1. Unsaturated/smear zone versus satured soil conditions based on: (1) measured water levels in adjacent/nearby monitoring wells, or (2) soil moisture conditions recorded on soil boring logs during drilling.
2. Analytical units: mg/kg = milligrams per kilogram (equivalent to parts per million, ppm)
3. NA = not analyzed

4. Groundwater Pathway RCL = Residual Contaminant Level for protection of groundwater as presented on the WDNR's RCL Spreadsheet (dated July 2015) referenced in WDNR guidance document PUB-RR-890 "Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator", dated June 2014

5. Non-Industrial Direct Contact RCL = Residual Contaminant Level for protection of direct contact at a non-industrial property as presented on the WDNR's RCL Spreadsheet (dated July 2015) with default input parameters as referenced in WDNR guidance document PUB-RR-890 "Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator", dated June 2014

6. Industrial Direct Contact RCL = Residual Contaminant Level for protection of direct contact at an industrial property as presented on the WDNR's RCL Spreadsheet (dated July 2015) with default input parameters as referenced in WDNR guidance document PUB-RR-890 "Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator", dated June 2014
7. NS = no standard established
8. Laboratory flags: "J" = Analyte detected between Limit of Detection and Limit of Quantitation
9. Exceedances:
   BOLD = Concentration exceeds Groundwater Pathway RCL
   [ ] = Concentration exceeds Non-Industrial Direct Contact RCL (any depth)
   { } = Concentration exceeds Industrial Direct Contact RCL (any depth)

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Table A.2: Soil Analytical Results
Le Reve Patisserie & Café
7600-7610 W. Harwood Avenue, Wauwatosa, Wisconsin

Parameter	Units	WI NR 720 Soil to Groundwater Pathway	WI NR 720 Soil Cleanup Standards Direct Contact Industrial	WI NR 720 Soil Cleanup Standards Direct Contact Non-Industrial	B1 (2-4)	B1 (6-8)	B1 (14-16)	B2 (2-4)	B2 (10-12)	B2 (14-16)	B3 (2-4)	B3 (10-12)	B3 (14-16)	B4 (2-4)	B4 (10-12)	B4 (14-16)	TRIP
Polynuclear Aromatic Hydrocarbons (PAHs)																	
1-Methylnaphthalene	ug/kg		53,100	15,600	<77.6	43.1	<9.1	<37.7	**18,200**	10,800 J	<384	12.1 J	24.6 J	<76.0	31.8	<8.9	
2-Methylnaphthalene	ug/kg		2,200,000	229,000	<77.6	46.1	<9.1	44.6 J	31,900	17,600	<384	13.2 J	25.1 J	<76.0	27.7	<8.9	
Acenaphthene	ug/kg		33,000,000	3,440,000	125 J	69.6	9.2 J	51.4 J	34,000	20,600	544 J	28.2	73.5	176	42.3	<8.9	
Acenaphthylene	ug/kg				<69.4	40.7	<8.1	<33.7	<6,400	<5,110	<344	14.1 J	<17.0	<68.0	12.6 J	<8.0	
Anthracene	ug/kg	198,000	100,000,000	17,200,000	384	243	29.9	171	107,000	65,100	2,560	88.4	194	450	90.1	17.0 J	
Benzo(a)anthracene	ug/kg		2,110	148	**874**	**356**	43.1	**430**	**75,900**	**48,200**	**10,900**	**225**	**384**	**757**	**167**	38.8	
Benzo(a)pyrene	ug/kg	470	211	15	***990***	**390**	**41.0**	***500***	***62,600***	***37,300***	***14,100***	**278**	**432**	***829***	**181**	**42.9**	
Benzo(b)fluoranthene	ug/kg	479	2,110.00	148	***876***	**316**	40.7	**477**	***45,500***	***30,800***	***13,200***	**248**	***494***	***592***	**175**	39.1	
Benzo(g,h,i)perylene	ug/kg				331	240	23.8	185	28,200	13,200	6,300	94.3	154	481	101	26.7	
Benzo(k)fluoranthene	ug/kg		21,100	1,480	1,020	352	33.0	558	**63,000**	**38,100**	**12,100**	285	362	751	129	36.8	NA
Chrysene	ug/kg	145	211,000	14,800	*978*	*428*	47.5	*522*	***76,500***	***50,300***	*12,000*	*262*	*440*	*866*	*201*	45.2	
Dibenz(a,h)anthracene	ug/kg		211	15	**135**	**77.8**	8.3 J	**76.4**	**11,900**	**5,450**	**2,760**	**37.1**	**59.8**	**151**	**31.1**	8.9 J	
Fluoranthene	ug/kg	88,900	22,000,000	2,290,000	2,160	1,050	106	1,060	*213,000*	*129,000*	22,000	587	1,090	2,180	541	96.1	
Fluorene	ug/kg	14,800	22,000,000	2,290,000	132 J	79.8	9.8 J	60.6 J	*61,400*	*35,300*	516 J	31.2	70.9	155	41.5	<8.9	
Indeno(1,2,3-cd)pyrene	ug/kg		2,110	148	**337**	**206**	20.9	**183**	**27,500**	**12,900**	**6,500**	93.8	**154**	**416**	87.2	23.3	
Naphthalene	ug/kg	658	26,000	5,150	87.6 J	108	10.0 J	47.5 J	***94,700***	***52,400***	<384	23.4	51.2	117 J	41.8	<40.0	
Phenanthrene	ug/kg				1,630	1,020	100	643	307,000	186,000	8,160	359	884	2,220	650	75.9	
Pyrene	ug/kg	54,100	16,500,000	1,720,000	1,770	825	80.0	822	*132,000*	*87,500*	16,900	454	864	1,830	467	77.5	
RCRA Metals																	
Arsenic	ug/kg	584	2,390	613	***9,900***	***3,900***	<3.3	***5,100***	***4,900***	***3,800***	***6,600***	***3,600***	***4,500***	<3.1	***5,300***	***4,100***	
Barium	ug/kg	165,000	100,000,000	15,300,000	89,400	29,300	17,100	47,100	31,300	33,800	*287,000*	52,400	48,600	37,000	20,400	14,000	
Cadmium	ug/kg	752	799,000	70,000	490 J	220 J	130 J	510 J	500 J	340 J	*1,000*	200 J	160 J	140 J	210 J	160 J	NA
Chromium	ug/kg	360000000			11,900	7,500	6,500	11,200	10,500	8,100	11,800	9,300	11,000	7,600	7,000	5,600	
Lead	ug/kg	27,000	800,000	400,000	*119,000*	*36,700*	13,600	*54,800*	*37,700*	*48,200*	*358,000*	*42,200*	*41,300*	9,900	11,100	6,500	
Selenium	ug/kg	520	5,110,000	391,000	<890	<780	<790	<820	<800	<790	<770	<760	*1,300*	<750	<800	<720	
Volatile Organic Compounds (VOCs)																	
Naphthalene	ug/kg	658	26,000	5,150	81.5 J	<40.0	<40.0	68.6 J	***82,900***	***96,000***	157 J	<40.0	<40.0	<40.0	<40.0	<40.0	<40
Percent Moisture	%				14.1	9.6	8.0	11.6	6.8	8.7	13.2	11.5	12.1	12.3	7.5	6.7	NA
PID	ppmv				0.8	0.7	0.9	2.2	2.7	1.2	1.2	0.5	0.5	1.5	0.6	20.8	

NOTES:
Only analytes with a detection in at least one sample are shown
(2-3) = sample depth in feet below ground surface
µg/kg = micrograms per kilogram
RCL = Residual Contaminant Level
PID - Photoionization Detector
ppmv = parts per million by volume in air
NR = Not Reported/Below Detection Limits
NA = Not Analyzed

Sample Collection Date: February 16, 2016
Concentrations equal to or exceeding the NR 720 Soil RCL Industrial Direct Contact Standards are **'boxed' outlined & in bold**
Concentrations equal to or exceeding the NR 720 Soil RCL Non-Industrial Direct Contact Standards are **bold faced**
Concentrations equal to or exceeding the NR 720 Soil RCL (via EPA RSLs) Soil to Groundwater Standards are *italicized* in red
J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

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Table A.3: Residual Soil Contamination
Le Reve Patisserie & Café
7600-7610 W. Harwood Avenue, Wauwatosa, Wisconsin

Parameter	Units	WI NR 720 Soil to Groundwater Pathway	WI NR 720 Soil Cleanup Standards Direct Contact Industrial	WI NR 720 Soil Cleanup Standards Direct Contact Non-Industrial	B1 (2-4)	B1 (6-8)	B1 (14-16)	B2 (2-4)	B2 (10-12)	B2 (14-16)	B3 (2-4)	B3 (10-12)	B3 (14-16)	B4 (2-4)	B4 (10-12)	B4 (14-16)	TRIP
Polynuclear Aromatic Hydrocarbons (PAHs)																	
1-Methylnaphthalene	ug/kg		53,100	15,600	<77.6	43.1	<9.1	<37.7	**18,200**	10,800 J	<384	12.1 J	24.6 J	<76.0	31.8	<8.9	
2-Methylnaphthalene	ug/kg		2,200,000	229,000	<77.6	46.1	<9.1	44.6 J	31,900	17,600	<384	13.2 J	25.1 J	<76.0	27.7	<8.9	
Acenaphthene	ug/kg		33,000,000	3,440,000	125 J	69.6	9.2 J	51.4 J	34,000	20,600	544 J	28.2	73.5	176	42.3	<8.9	
Acenaphthylene	ug/kg				<69.4	40.7	<8.1	<33.7	<6,400	<5,110	<344	14.1 J	<17.0	<68.0	12.6 J	<8.0	
Anthracene	ug/kg	198,000	100,000,000	17,200,000	384	243	29.9	171	107,000	65,100	2,560	88.4	194	450	90.1	17.0 J	
Benzo(a)anthracene	ug/kg		2,110	148	**874**	**356**	43.1	**430**	**75,900**	**48,200**	**10,900**	**225**	**384**	**757**	**167**	38.8	
Benzo(a)pyrene	ug/kg	470	211	15	***990***	**390**	**41.0**	***500***	***62,600***	***37,300***	***14,100***	**278**	**432**	***829***	**181**	**42.9**	
Benzo(b)fluoranthene	ug/kg	479	2,110.00	148	***876***	**316**	40.7	**477**	***45,500***	***30,800***	***13,200***	**248**	***494***	***592***	**175**	39.1	
Benzo(g,h,i)perylene	ug/kg				331	240	23.8	185	28,200	13,200	6,300	94.3	154	481	101	26.7	
Benzo(k)fluoranthene	ug/kg		21,100	1,480	1,020	352	33.0	558	**63,000**	**38,100**	**12,100**	285	362	751	129	36.8	NA
Chrysene	ug/kg	145	211,000	14,800	*978*	*428*	47.5	*522*	***76,500***	***50,300***	*12,000*	*262*	*440*	*866*	*201*	45.2	
Dibenz(a,h)anthracene	ug/kg		211	15	**135**	**77.8**	8.3 J	**76.4**	**11,900**	**5,450**	**2,760**	**37.1**	**59.8**	**151**	**31.1**	8.9 J	
Fluoranthene	ug/kg	88,900	22,000,000	2,290,000	2,160	1,050	106	1,060	*213,000*	*129,000*	22,000	587	1,090	2,180	541	96.1	
Fluorene	ug/kg	14,800	22,000,000	2,290,000	132 J	79.8	9.8 J	60.6 J	*61,400*	*35,300*	516 J	31.2	70.9	155	41.5	<8.9	
Indeno(1,2,3-cd)pyrene	ug/kg		2,110	148	**337**	**206**	20.9	**183**	**27,500**	**12,900**	**6,500**	93.8	**154**	**416**	87.2	23.3	
Naphthalene	ug/kg	658	26,000	5,150	87.6 J	108	10.0 J	47.5 J	***94,700***	***52,400***	<384	23.4	51.2	117 J	41.8	<40.0	
Phenanthrene	ug/kg				1,630	1,020	100	643	307,000	186,000	8,160	359	884	2,220	650	75.9	
Pyrene	ug/kg	54,100	16,500,000	1,720,000	1,770	825	80.0	822	*132,000*	*87,500*	16,900	454	864	1,830	467	77.5	
RCRA Metals																	
Arsenic	ug/kg	584	2,390	613	***9,900***	***3,900***	<3.3	***5,100***	***4,900***	***3,800***	***6,600***	***3,600***	***4,500***	<3.1	***5,300***	***4,100***	
Barium	ug/kg	165,000	100,000,000	15,300,000	89,400	29,300	17,100	47,100	31,300	33,800	*287,000*	52,400	48,600	37,000	20,400	14,000	
Cadmium	ug/kg	752	799,000	70,000	490 J	220 J	130 J	510 J	500 J	340 J	*1,000*	200 J	160 J	140 J	210 J	160 J	NA
Chromium	ug/kg	360000000			11,900	7,500	6,500	11,200	10,500	8,100	11,800	9,300	11,000	7,600	7,000	5,600	
Lead	ug/kg	27,000	800,000	400,000	*119,000*	*36,700*	13,600	*54,800*	*37,700*	*48,200*	*358,000*	*42,200*	*41,300*	9,900	11,100	6,500	
Selenium	ug/kg	520	5,110,000	391,000	<890	<780	<790	<820	<800	<790	<770	<760	*1,300*	<750	<800	<720	
Volatile Organic Compounds (VOCs)																	
Naphthalene	ug/kg	658	26,000	5,150	81.5 J	<40.0	<40.0	68.6 J	***82,900***	***96,000***	157 J	<40.0	<40.0	<40.0	<40.0	<40.0	<40
Percent Moisture	%				14.1	9.6	8.0	11.6	6.8	8.7	13.2	11.5	12.1	12.3	7.5	6.7	NA
PID	ppmv				0.8	0.7	0.9	2.2	2.7	1.2	1.2	0.5	0.5	1.5	0.6	20.8	

NOTES:
Only analytes with a detection in at least one sample are shown
(2-3) = sample depth in feet below ground surface
µg/kg = micrograms per kilogram
RCL = Residual Contaminant Level
PID - Photoionization Detector
ppmv = parts per million by volume in air
NR = Not Reported/Below Detection Limits
NA = Not Analyzed

Sample Collection Date: February 16, 2016
Concentrations equal to or exceeding the NR 720 Soil RCL Industrial Direct Contact Standards are **'boxed' outlined & in bold**
Concentrations equal to or exceeding the NR 720 Soil RCL Non-Industrial Direct Contact Standards are **bold faced**
Concentrations equal to or exceeding the NR 720 Soil RCL (via EPA RSLs) Soil to Groundwater Standards are *italicized* in red
J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

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Table A.4: Vapor Analytical Results
7600-7610 W. Harwood Avenue
Wauwatosa, Wisconsin

Parameter	Units	SVP-1	SVP-2	SVP-3
Oxygen	%	17.1	17.9	18.3
PID	PPMV	< 10	<10	<10

Date Samples Collected: February 16, 2016

PID: Photoionization Detector
PPMV: Parts Per Million by Volume

A.5. Other Media of Concern (e.g., sediment or surface water)

Not Applicable for this Investigation.

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A.6 Water Level Elevations
La Reve Patisserie & Café
7600-7610 W. Harwood Avenue, Wauwatosa, Wisconsin

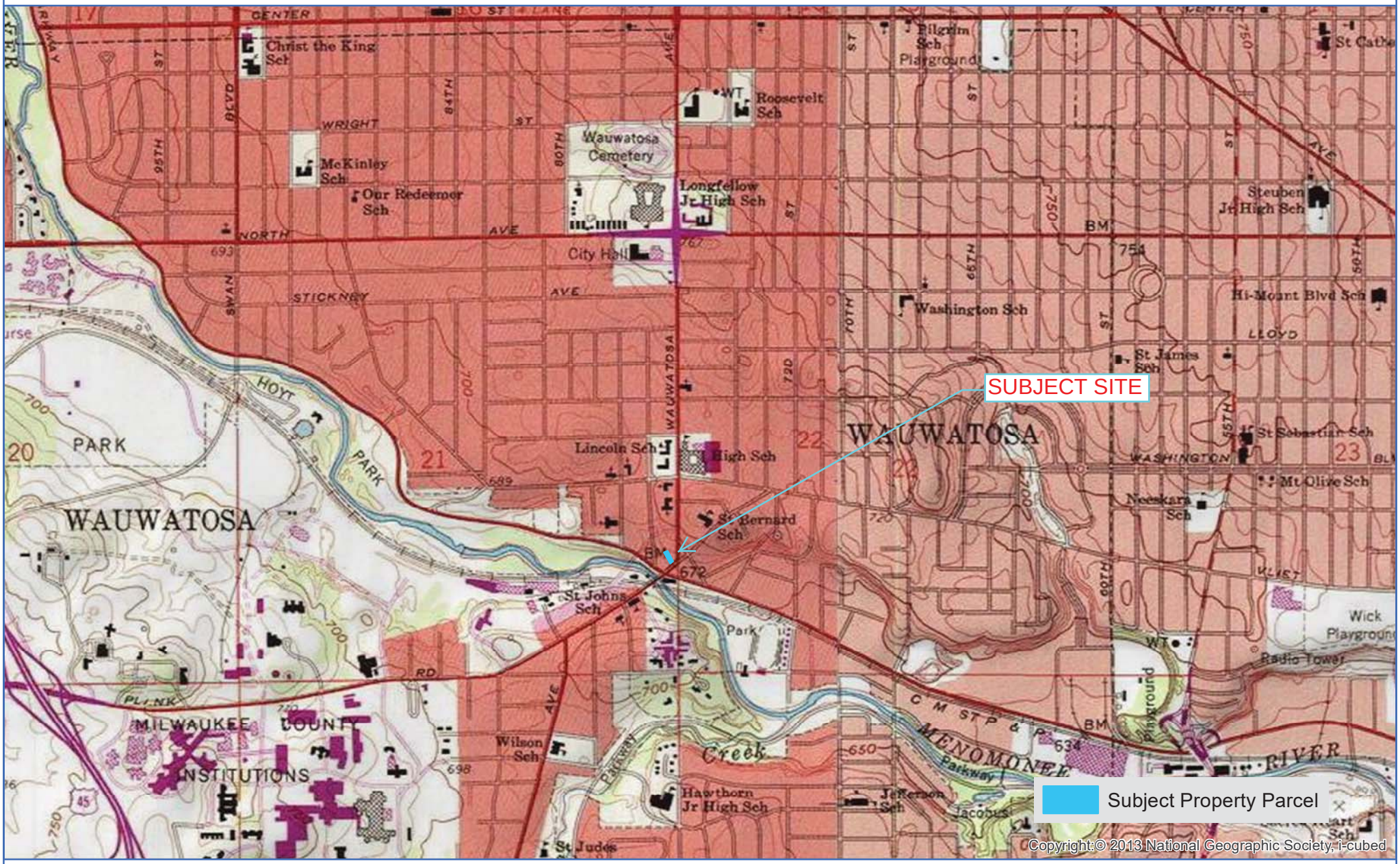
Well Data					
Well ID	Date	Surface Elevation (ft MSL)	PVC Well Elevation (ft MSL)	Depth to Water (From TOC in feet bgs)	Water Elevation (ft MSL)
MW-1	February 29, 2016	672.85	*672.62*	16	656.62
MW-2	February 29, 2016	672.5	*672.24*	15.45	656.79
MW-3	February 29, 2016	672.95	*672.71*	15.9	656.81

Notes:

ft MSL = Feet above Mean Sea Level
TOC = Top of casing

A.7. Other

Not Applicable for this Investigation.



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SHEET: LOCATION MAP

FIGURE: B.1.a

PROJECT: LE REVE PATISSERIE & CAFE

LOCATION: 7600-7610 W. HARWOOD AVENUE, WAUWATOSA, WI 53213

NORTH ARROW:

0 1,100 2,200 Feet

1 inch = 1,600 feet

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RAB	TWP	TWP	16.0131.01	3/11/2016	

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SHEET: DETAILED SITE MAP

FIGURE: B.1.b.

PROJECT: LE REVE PATISSERIE & CAFE

LOCATION: 7600-7610 HARWOOD AVENUE, WAUWATOSA, WISCONSIN 53213

NORTH ARROW:

SCALE: 1" = 20'
0 10 20

SEAL:

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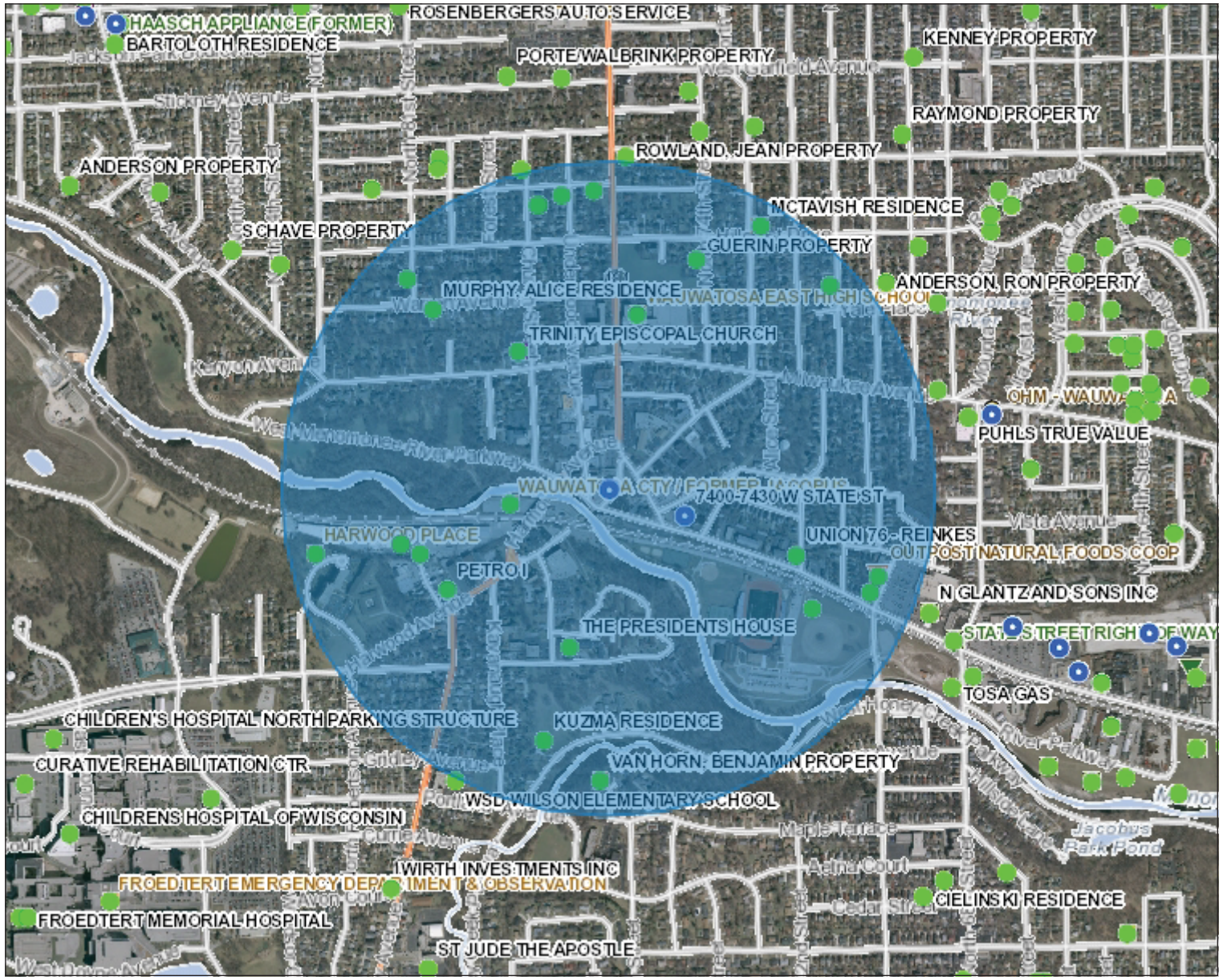
DRAWN BY:	RAB	CHECKED BY:	TWP	APPROVED BY:	TWP	PROJECT NO.	16.0131.01	DATE:	3/9/2016	REVISION DATE:	06/28/2016

FILENAME: S:_Environ\160131-7610 Harwood Ave. Tosa ENV\Figs-Photos\Site Plan-Utilities rev.dwg PLOT DATE/TIME: 7/19/2016 2:06 PM PLOTTED BY: TRAVIS W. PETERSON

Figure B.1.c. RR Sites Map



Legend

- Open Site (ongoing cleanup)
- Open Site Boundary
- Closed Site (completed cleanup)
- Closed Site Boundary
- Groundwater Contamination
- Soil Contamination
- Groundwater and Soil Contamination
- Contamination From Another Property
- Dryclean Environmental Response Fund (DERF)
- Green Space Grant (2004-2009)
- Ready for Reuse
- Site Assessment Grant (2001-2009)
- State Funded Response
- Sustainable Urban Development Zone (S
- General Liability Clarification Letters
- Superfund NPL
- Voluntary Party Liability Exemption
- Rivers and Streams
- Open Water
- Municipality
- State Boundaries
- County Boundaries
- Major Roads
  - Interstate Highway
  - State Highway
  - US Highway

0.5 0 0.23 0.5 Miles

NAD_1983_HARN_Wisconsin_TM

1: 14,654

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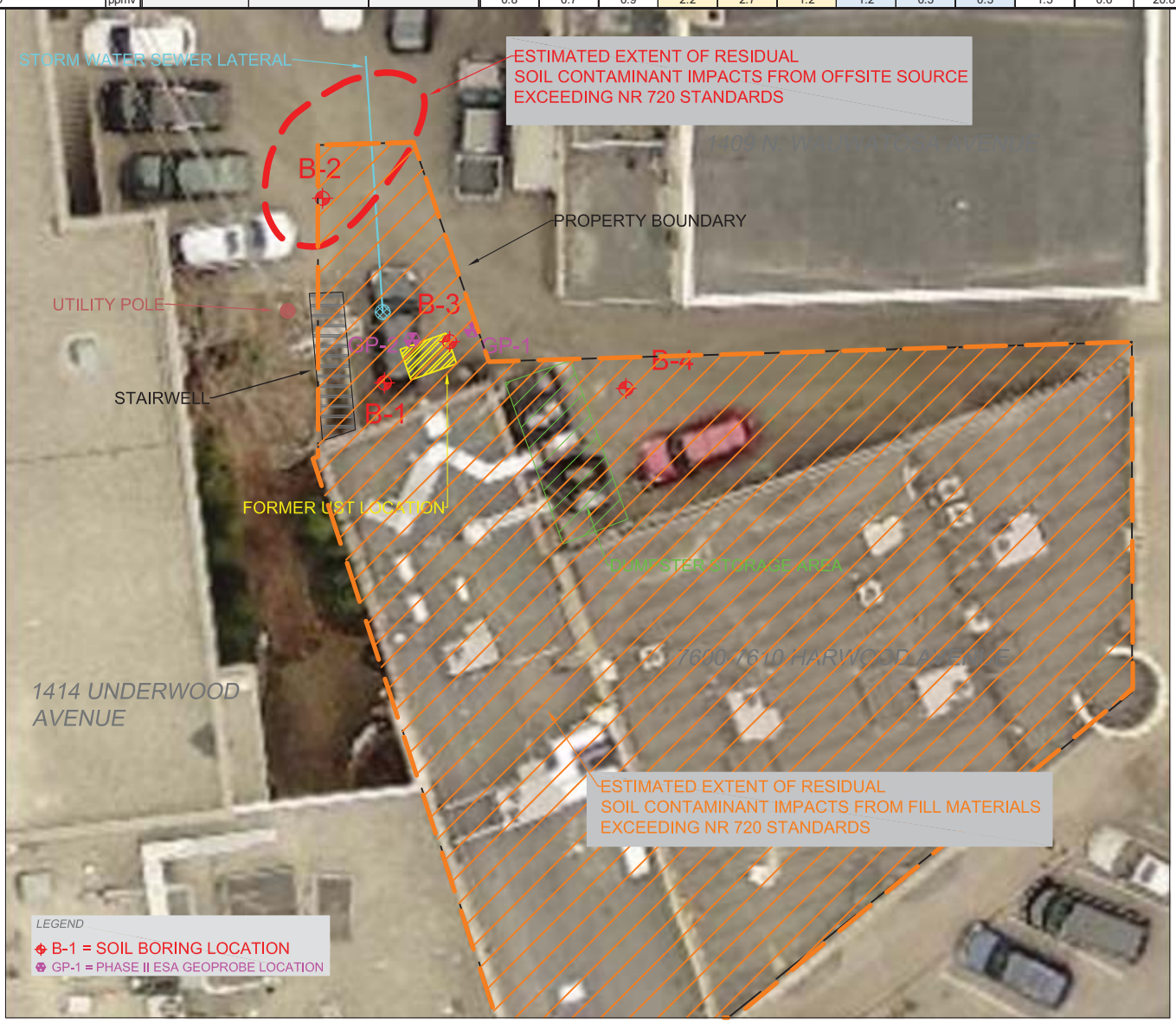
Note: Not all sites are mapped.

Notes

7600-7610 W. Harwood Ave.
Wauwatosa, WI 53213

Parameter	Units	WI NR 720 Soil to Groundwater Pathway	WI NR 720 Soil Cleanup Standards Direct Contact Industrial	WI NR 720 Soil Cleanup Standards Direct Contact Non-Industrial	B1 (2-4)	B1 (6-8)	B1 (14-16)	B2 (2-4)	B2 (10-12)	B2 (14-16)	B3 (2-4)	B3 (10-12)	B3 (14-16)	B4 (2-4)	B4 (10-12)	B4 (14-16)
Polynuclear Aromatic Hydrocarbons (PAHs)																
1-Methylnaphthalene	ug/kg		53,100	15,600	<77.6	43.1	<9.1	<37.7	18,200	10,800 J	<384	12.1 J	24.6 J	<76.0	31.8	<8.9
Benzo(a)anthracene	ug/kg		2,110	148	874	356	43.1	430	75,900	48,200	10,900	225	384	757	167	38.8
Benzo(a)pyrene	ug/kg	470	211	15	990	390	41.0	500	62,600	37,300	14,100	278	432	829	181	42.9
Benzo(b)fluoranthene	ug/kg	479	2,110.00	148	876	316	40.7	477	45,500	30,800	13,200	248	494	592	175	39.1
Benzo(k)fluoranthene	ug/kg		21,100	1,480	1,020	352	33.0	558	63,000	38,100	12,100	285	362	751	129	36.8
Chrysene	ug/kg	145	211,000	14,800	978	428	47.5	522	76,500	50,300	12,000	262	440	866	201	45.2
Dibenz(a,h)anthracene	ug/kg		211	15	135	77.8	8.3 J	76.4	11,900	5,450	2,760	37.1	59.8	151	31.1	8.9 J
Fluoranthene	ug/kg	88,900	22,000,000	2,290,000	2,160	1,050	106	1,060	213,000	129,000	22,000	587	1,090	2,180	541	96.1
Fluorene	ug/kg	14,800	22,000,000	2,290,000	132 J	79.8	9.8 J	60.6 J	61,400	35,300	516 J	31.2	70.9	155	41.5	<8.9
Indeno(1,2,3-cd)pyrene	ug/kg		2,110	148	337	206	20.9	183	27,500	12,900	6,500	93.8	154	416	87.2	23.3
Naphthalene	ug/kg	658	26,000	5,150	87.6 J	108	10.0 J	47.5 J	94,700	52,400	<384	23.4	51.2	117 J	41.8	<40.0
Pyrene	ug/kg	54,100	16,500,000	1,720,000	1,770	825	80.0	822	132,000	87,500	16,900	454	864	1,830	467	77.5
RCRA Metals																
Arsenic	ug/kg	584	2,390	613	9,900	3,900	<3.3	5,100	4,900	3,800	6,600	3,600	4,500	<3.1	5,300	4,100
Barium	ug/kg	165,000	100,000,000	15,300,000	89,400	29,300	17,100	47,100	31,300	33,800	287,000	52,400	48,600	37,000	20,400	14,000
Cadmium	ug/kg	752	799,000	70,000	490 J	220 J	130 J	510 J	500 J	340 J	1,000	200 J	160 J	140 J	210 J	160 J
Lead	ug/kg	27,000	800,000	400,000	119,000	36,700	13,600	54,800	37,700	48,200	358,000	42,200	41,300	9,900	11,100	6,500
Volatile Organic Compounds (VOCs)																
Naphthalene	ug/kg	658	26,000	5,150	81.5 J	<40.0	<40.0	68.6 J	82,900	96,000	157 J	<40.0	<40.0	<40.0	<40.0	<40.0
PID	ppmv				0.8	0.7	0.9	2.2	2.7	1.2	1.2	0.5	0.5	1.5	0.6	20.8



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SHEET: SOIL CONTAMINATION
FIGURE: B.2.a.
PROJECT: LE REVE PATISSERIE & CAFE
LOCATION: 7600-7610 HARWOOD AVENUE, WAUWATOSA, WISCONSIN 53213
NORTH ARROW:
SCALE: 1" = 20' (0, 10, 20)
SEAL:
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DRAWN BY: RAB | CHECKED BY: TWP | APPROVED BY: TWP | PROJECT NO. 16.0131.01 | DATE: 3/9/2016 | REVISION DATE: 06/28/2016

FILENAME: S:_Environ\160131-7610 Harwood Ave. Tosa ENV\Figs-Photos\SOIL CONTAM rev.dwg
PLOT DATE/TIME: 9/26/2016 2:34 PM
PLOTTED BY: TRAVIS W. PETERSON

Parameter	Units	WI NR 720 Soil to Groundwater Pathway	WI NR 720 Soil Cleanup Standards Direct Contact Industrial	WI NR 720 Soil Cleanup Standards Direct Contact Non-Industrial	B1 (2-4)	B1 (6-8)	B1 (14-16)	B2 (2-4)	B2 (10-12)	B2 (14-16)	B3 (2-4)	B3 (10-12)	B3 (14-16)	B4 (2-4)	B4 (10-12)	B4 (14-16)
Polynuclear Aromatic Hydrocarbons (PAHs)																
1-Methylnaphthalene	ug/kg		53,100	15,600	<77.6	43.1	<9.1	<37.7	18,200	10,800 J	<384	12.1 J	24.6 J	<76.0	31.8	<8.9
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Benzo(a)pyrene	ug/kg	470	211	15	990	390	41.0	500	62,600	37,300	14,100	278	432	829	181	42.9
Benzo(b)fluoranthene	ug/kg	479	2,110.00	148	876	316	40.7	477	45,500	30,800	13,200	248	494	592	175	39.1
Benzo(k)fluoranthene	ug/kg		21,100	1,480	1,020	352	33.0	558	63,000	38,100	12,100	285	362	751	129	36.8
Chrysene	ug/kg	145	211,000	14,800	978	428	47.5	522	76,500	50,300	12,000	262	440	866	201	45.2
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Fluoranthene	ug/kg	88,900	22,000,000	2,290,000	2,160	1,050	106	1,060	213,000	129,000	22,000	587	1,090	2,180	541	96.1
Fluorene	ug/kg	14,800	22,000,000	2,290,000	132 J	79.8	9.8 J	60.6 J	61,400	35,300	516 J	31.2	70.9	155	41.5	<8.9
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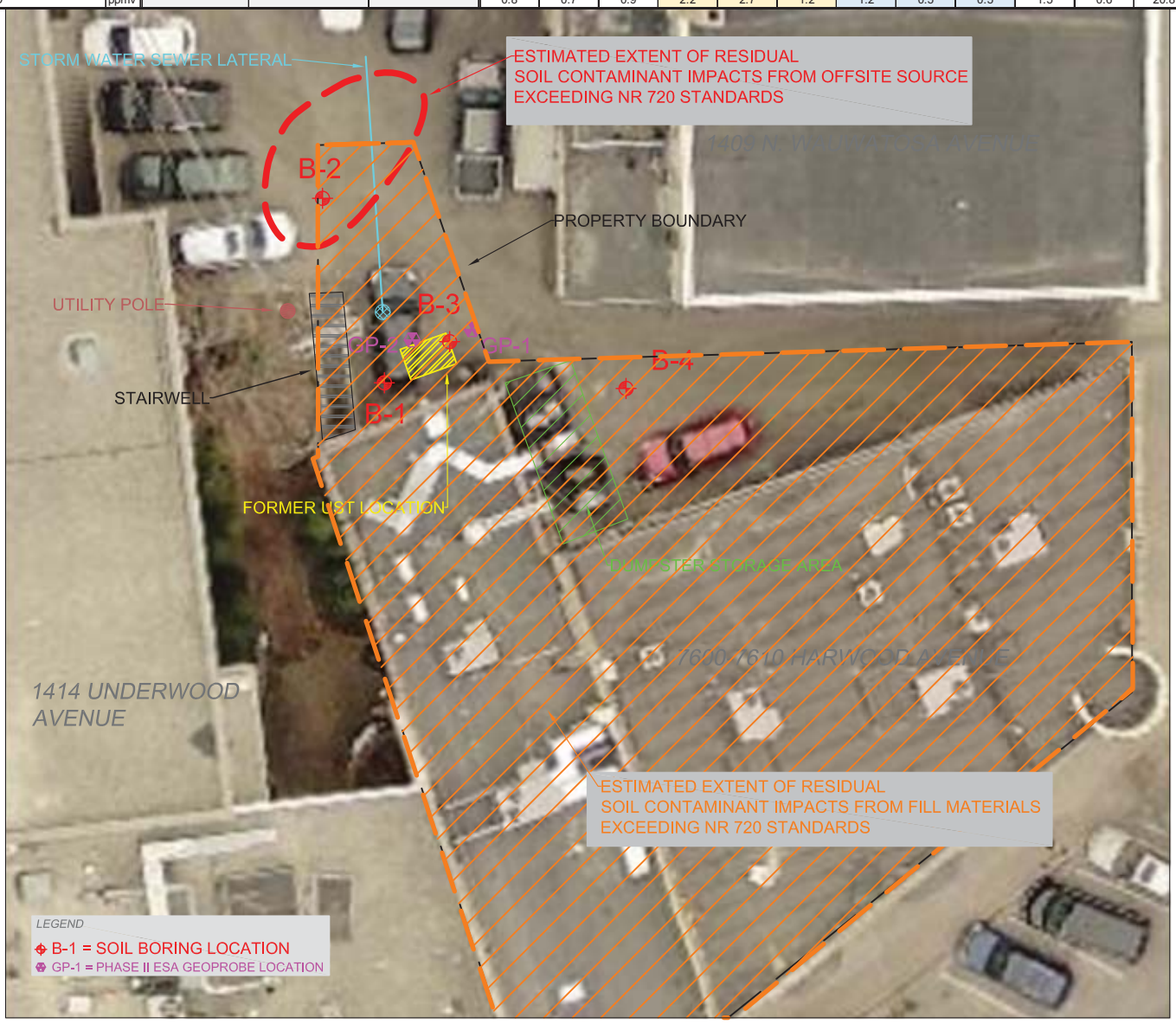
Naphthalene	ug/kg	658	26,000	5,150	87.6 J	108	10.0 J	47.5 J	94,700	52,400	<384	23.4	51.2	117 J	41.8	<40.0
Pyrene	ug/kg	54,100	16,500,000	1,720,000	1,770	825	80.0	822	132,000	87,500	16,900	454	864	1,830	467	77.5
RCRA Metals																
Arsenic	ug/kg	584	2,390	613	9,900	3,900	<3.3	5,100	4,900	3,800	6,600	3,600	4,500	<3.1	5,300	4,100
Barium	ug/kg	165,000	100,000,000	15,300,000	89,400	29,300	17,100	47,100	31,300	33,800	287,000	52,400	48,600	37,000	20,400	14,000
Cadmium	ug/kg	752	799,000	70,000	490 J	220 J	130 J	510 J	500 J	340 J	1,000	200 J	160 J	140 J	210 J	160 J
Lead	ug/kg	27,000	800,000	400,000	119,000	36,700	13,600	54,800	37,700	48,200	358,000	42,200	41,300	9,900	11,100	6,500
Volatile Organic Compounds (VOCs)																
Naphthalene	ug/kg	658	26,000	5,150	81.5 J	<40.0	<40.0	68.6 J	82,900	96,000	157 J	<40.0	<40.0	<40.0	<40.0	<40.0
PID	ppmv				0.8	0.7	0.9	2.2	2.7	1.2	1.2	0.5	0.5	1.5	0.6	20.8



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SHEET: RESIDUAL SOIL CONTAMINATION
FIGURE: B.2.b.
PROJECT: LE REVE PATISSERIE & CAFE
LOCATION: 7600-7610 HARWOOD AVENUE, WAUWATOSA, WISCONSIN 53213
NORTH ARROW:
SCALE: 1" = 20' (0, 10, 20)
SEAL:
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DRAWN BY:	RAB	CHECKED BY:	TWP	APPROVED BY:	TWP	PROJECT NO.	16.0131.01	DATE:	3/9/2016	REVISION DATE:	06/28/2016

FILENAME: S:_Environ\160131-7610 Harwood Ave. Tosa ENV\Figs-Photos\RES SOIL CONTAM rev.dwg
PLOT DATE/TIME: 9/26/2016 2:39 PM
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SHEET: GEOLOGIC CROSS-SECTION

FIGURE: B.3.a.

PROJECT: LE REVE PATISSERIE & CAFE

LOCATION: 7600-7610 HARWOOD AVENUE, WAUWATOSA, WISCONSIN 53213

NORTH ARROW:

SCALE: 1" = 20' (0, 10, 20)

SEAL:

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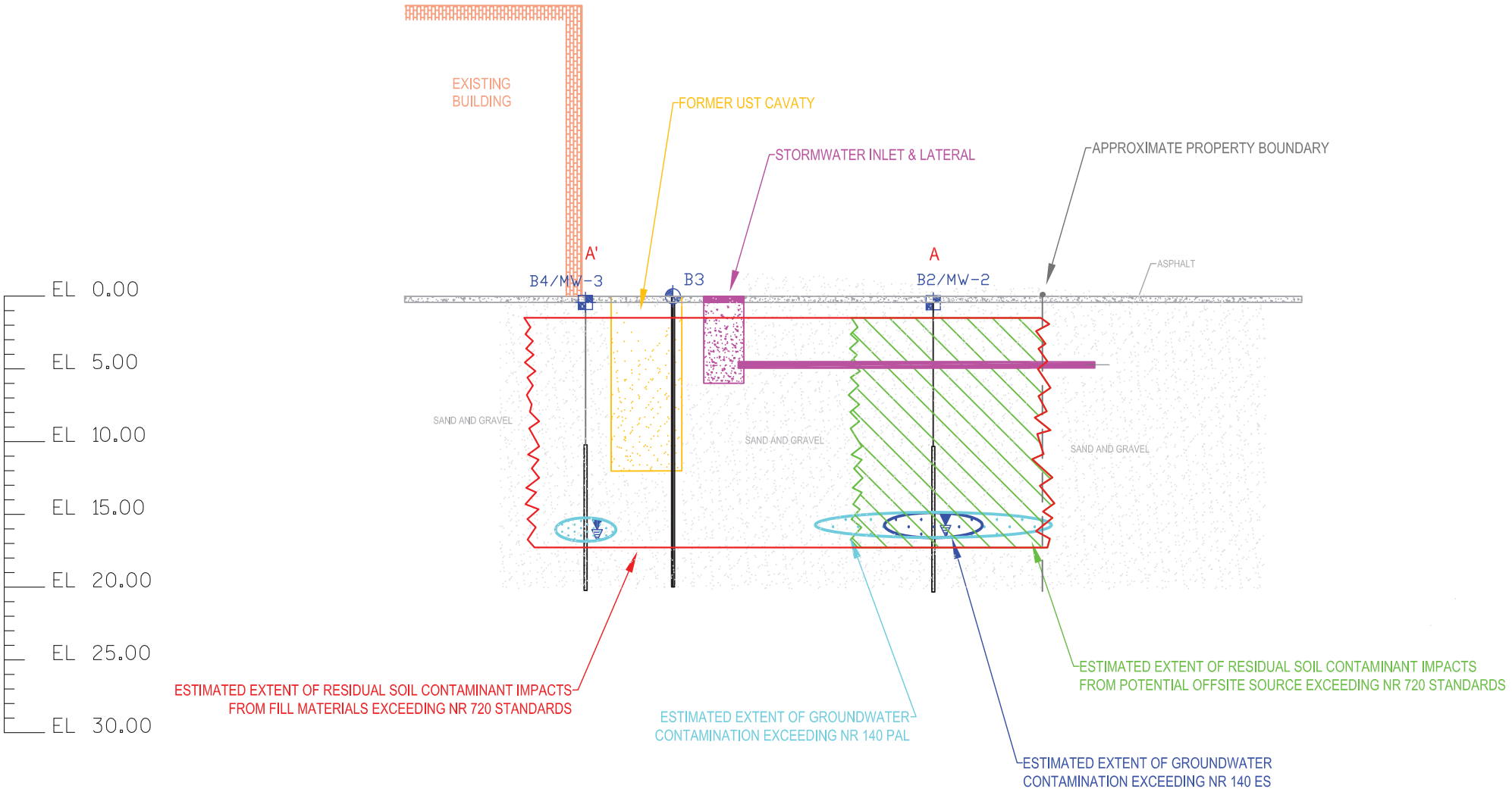
DRAWN BY:	RAB	CHECKED BY:	TWP	APPROVED BY:	TWP	PROJECT NO.	16.0131.01	DATE:	3/9/2016	REVISION DATE:	06/28/2016

FILENAME: S:_Environ\160131-7610 Harwood Ave. Tosa ENV\Figs-Photos\X-SECTION PLAN.dwg PLOT DATE/TIME: 7/19/2016 2:13 PM PLOTTED BY: TRAVIS W. PETERSON



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SHEET: GEOLOGIC CROSS-SECTION A - A' FACING WEST

FIGURE: B.3.a.i.

PROJECT: LE REVE PATISSERIE & CAFE

LOCATION: 7600-7610 HARWOOD AVENUE, WAUWATOSA, WISCONSIN 53213

NORTH ARROW:

SCALE: 1" = 10'
0 5 10

SEAL:

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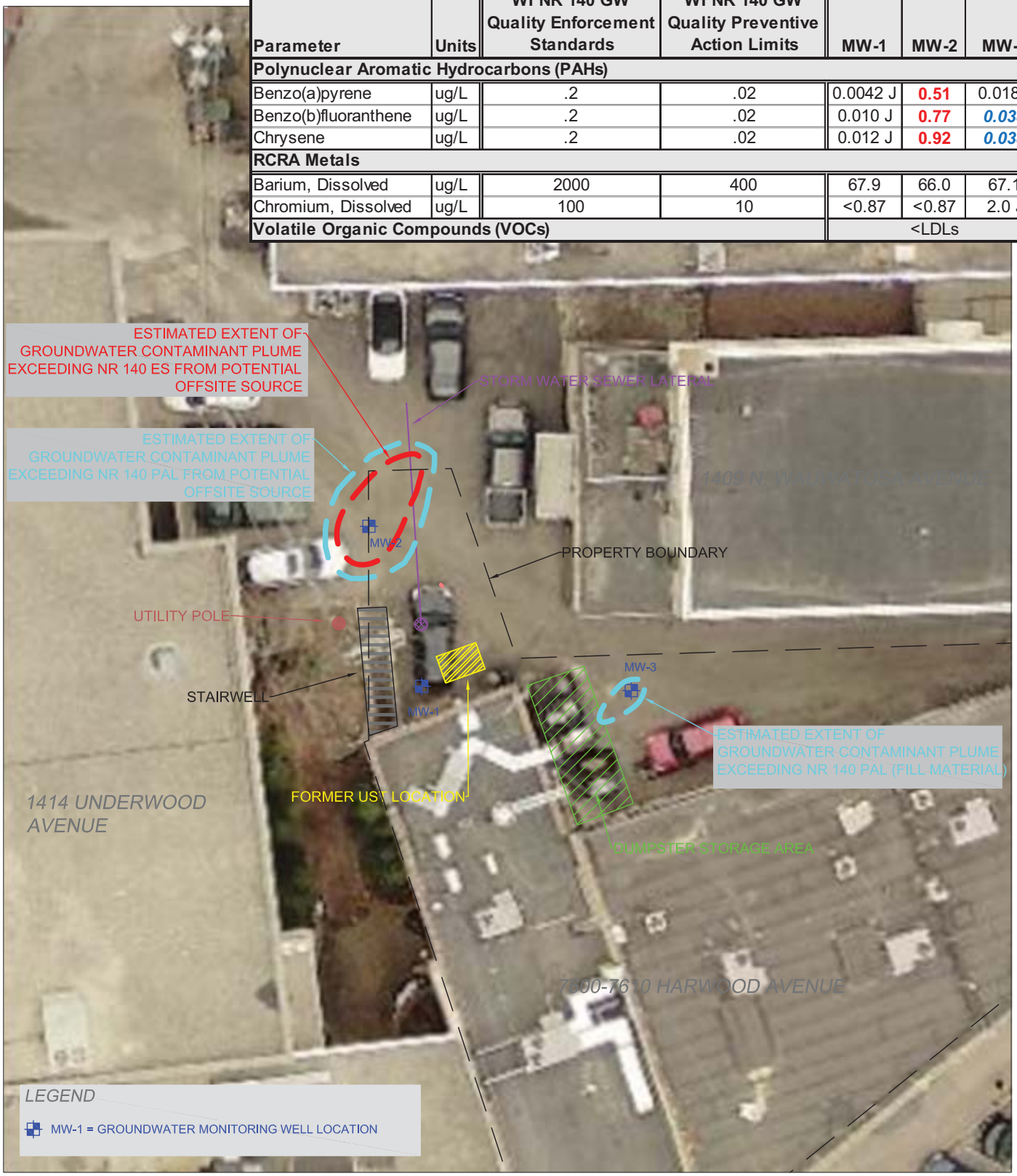
FILENAME: S:_Environ\160131-7610 Harwood Ave. Toxs ENV\Figs-Photos\Geologic Cross-Section A-A'.dwg

Parameter	Units	WI NR 140 GW Quality Enforcement Standards	WI NR 140 GW Quality Preventive Action Limits	MW-1	MW-2	MW-3
Polynuclear Aromatic Hydrocarbons (PAHs)						
Benzo(a)pyrene	ug/L	.2	.02	0.0042 J	**0.51**	0.018 J
Benzo(b)fluoranthene	ug/L	.2	.02	0.010 J	**0.77**	***0.038***
Chrysene	ug/L	.2	.02	0.012 J	**0.92**	***0.038***
RCRA Metals						
Barium, Dissolved	ug/L	2000	400	67.9	66.0	67.1
Chromium, Dissolved	ug/L	100	10	<0.87	<0.87	2.0 J
Volatile Organic Compounds (VOCs)				<LDLs		



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SHEET: GROUNDWATER ISOCONCENTRATION
FIGURE: B.3.b.
PROJECT: LE REVE PATISSERIE & CAFE
LOCATION: 7600-7610 HARWOOD AVENUE, WAUWATOSA, WISCONSIN 53213
NORTH ARROW:
SCALE: 1" = 20' (0, 10, 20)
SEAL:
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DRAWN BY:	TWP	CHECKED BY:	RAB	APPROVED BY:	TWP	PROJECT NO.	16.0131.01	DATE:	04/12/2016	REVISION DATE:	06/28/2016

FILENAME: S:_Environ\160131-7610 Harwood Ave. Tosa ENV\Figs-Photos\GW ISO.dwg
PLOT DATE/TIME: 7/19/2016 2:00 PM
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SHEET: GROUNDWATER FLOW DIRECTION

FIGURE: B.3.c.

PROJECT: LE REVE PATISSERIE & CAFE

LOCATION: 7600-7610 HARWOOD AVENUE, WAUWATOSA, WISCONSIN 53213

NORTH ARROW:

SCALE: 1" = 20'
0 10 20

SEAL:

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DRAWN BY:	TWP	CHECKED BY:	RAB	APPROVED BY:	TWP	PROJECT NO.	16.0131.01	DATE:	04/12/2016	REVISION DATE:	06/28/2016

FILENAME: S:_Environ\160131-7610 Harwood Ave. Tosa ENV\Figs-Photos\GW FLOW.dwg PLOT DATE/TIME: 7/19/2016 1:58 PM PLOTTED BY: TRAVIS W. PETERSON

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SHEET: MONITORING WELLS

FIGURE: B.3.d.

PROJECT: LE REVE PATISSERIE & CAFE

LOCATION: 7600-7610 HARWOOD AVENUE, WAUWATOSA, WISCONSIN 53213

NORTH ARROW:

SCALE: 1" = 20'
0 10 20

SEAL:

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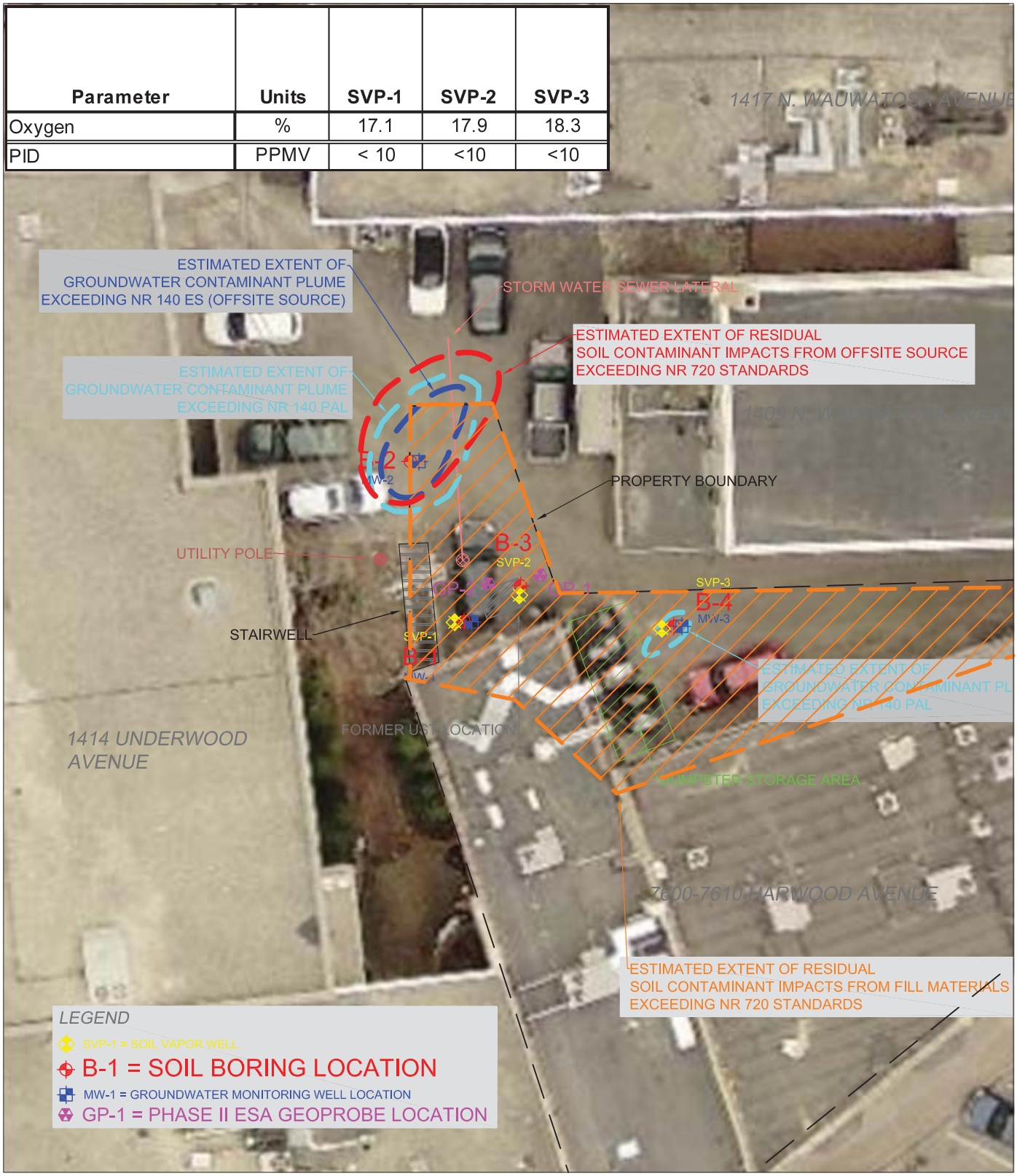
DRAWN BY:	TWP	CHECKED BY:	RAB	APPROVED BY:	TWP	PROJECT NO.	16.0131.01	DATE:	04/12/2016	REVISION DATE:	06/28/2016

FILENAME: S:_Environ\160131-7610 Harwood Ave. Tosa ENV\Figs-Photos\GW WELLS.dwg PLOT DATE/TIME: 7/19/2016 2:02 PM PLOTTED BY: TRAVIS W. PETERSON

Parameter	Units	SVP-1	SVP-2	SVP-3
Oxygen	%	17.1	17.9	18.3
PID	PPMV	< 10	<10	<10



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SHEET: VAPOR INTRUSION MAP

FIGURE: B.4.a.

PROJECT: LE REVE PATISSERIE & CAFE

LOCATION: 7600-7610 HARWOOD AVENUE, WAUWATOSA, WISCONSIN 53213

NORTH ARROW:

SCALE: 1" = 20' (0, 10, 20)

SEAL:

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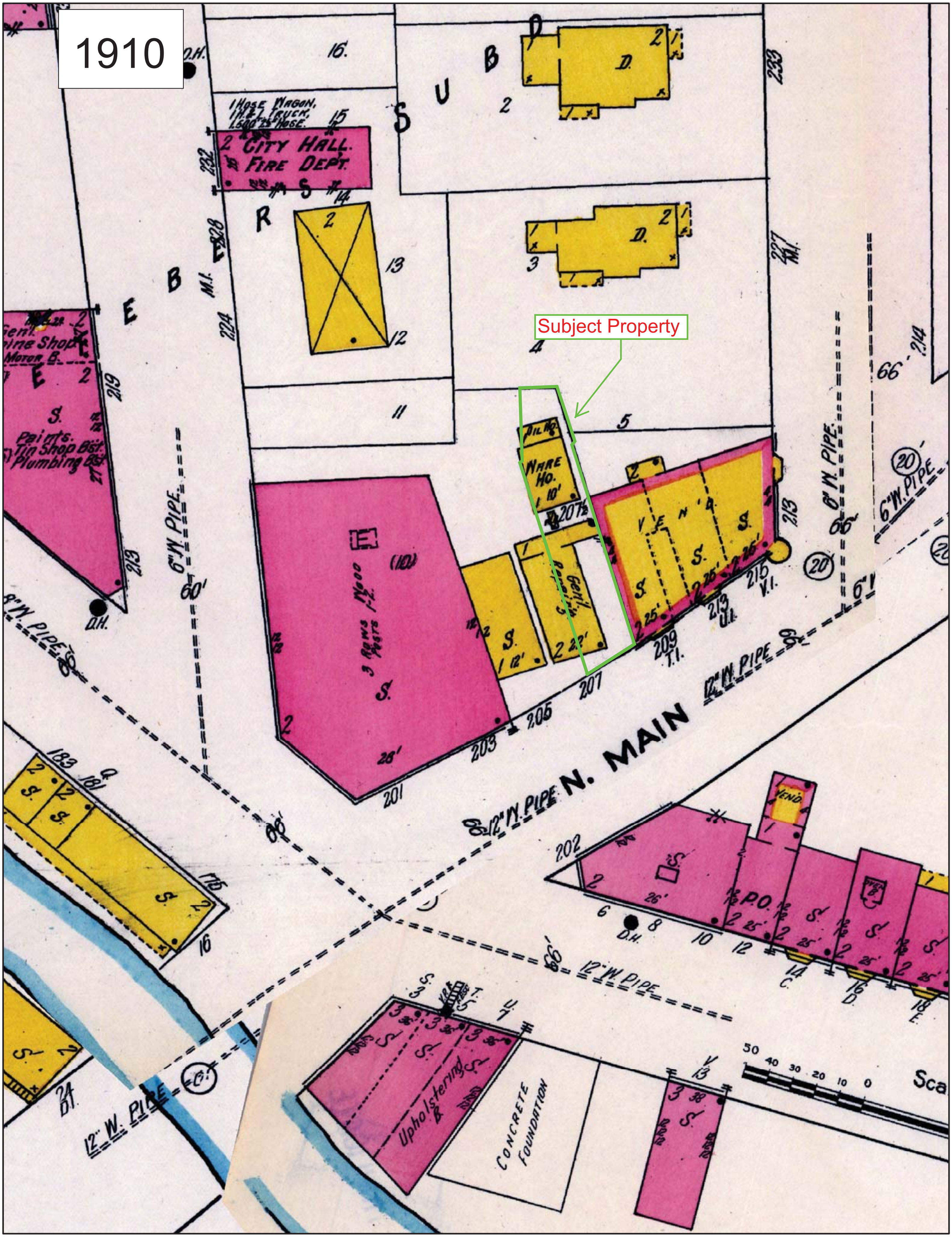
DRAWN BY:	CHECKED BY:	APPROVED BY:	PROJECT NO.	DATE:	REVISION DATE:
RAB	TWP	TWP	16.0131.01	3/9/2016	06/28/2016

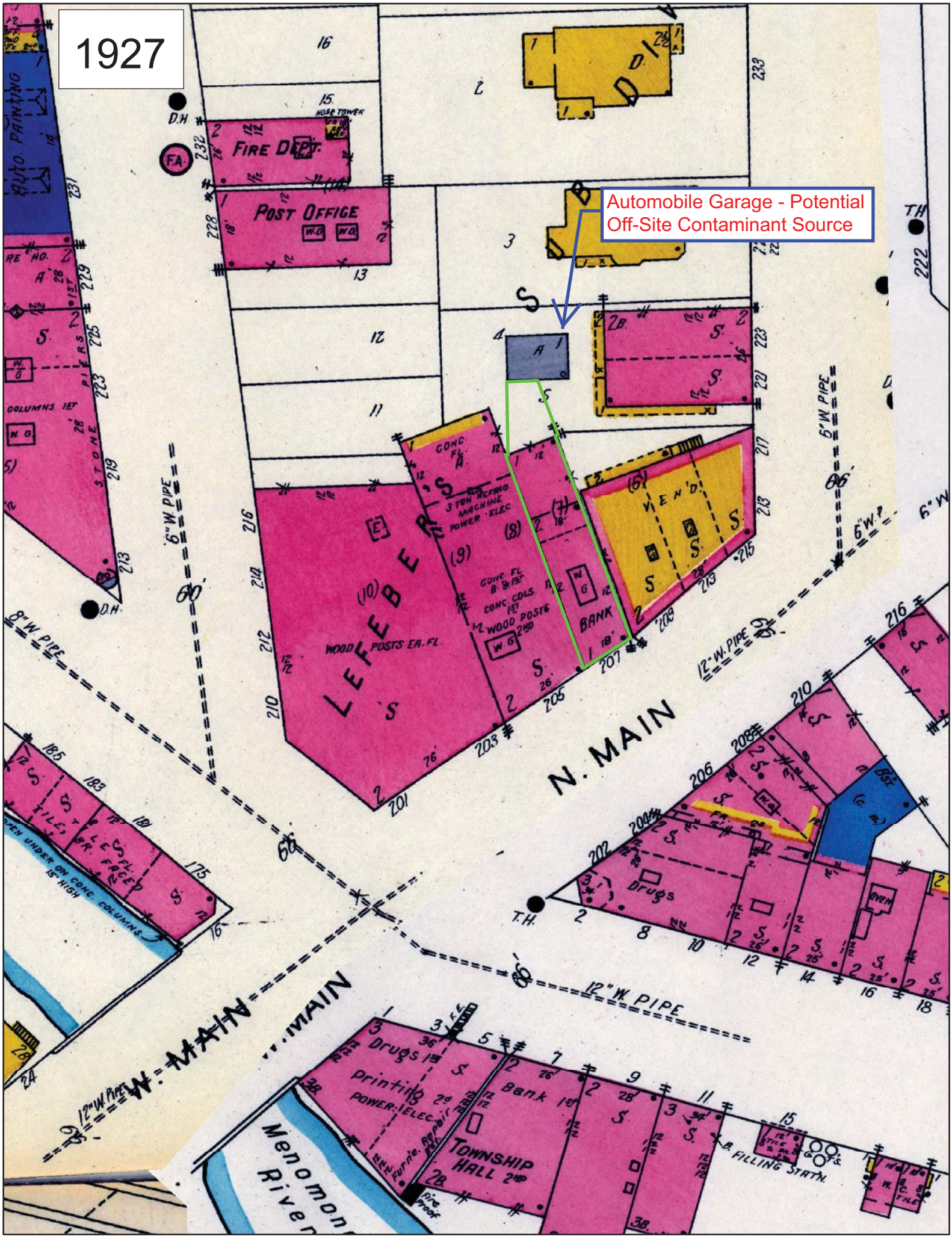
FILENAME: S:_Environ\160131-7610 Harwood Ave. Tosa ENV\Figs-Photos\Vapor Intrusion Map.dwg
PLOT DATE/TIME: 7/19/2016 2:16 PM
PLOTTED BY: TRAVIS W. PETERSON

B.4.b. Other Media of Concern (e.g., Sediment or Surface Water)

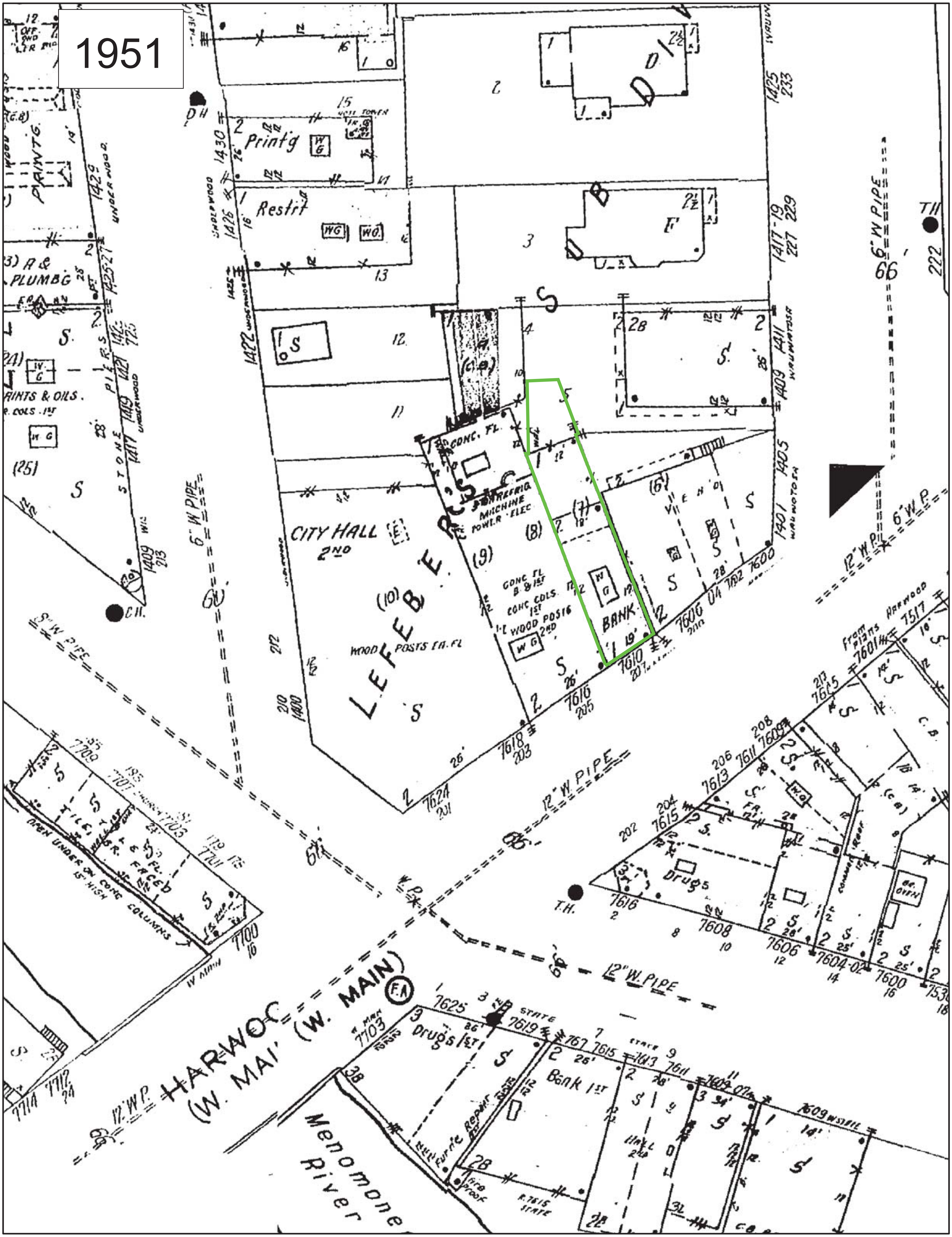
Other media were not a concern as part of this Site Investigation.

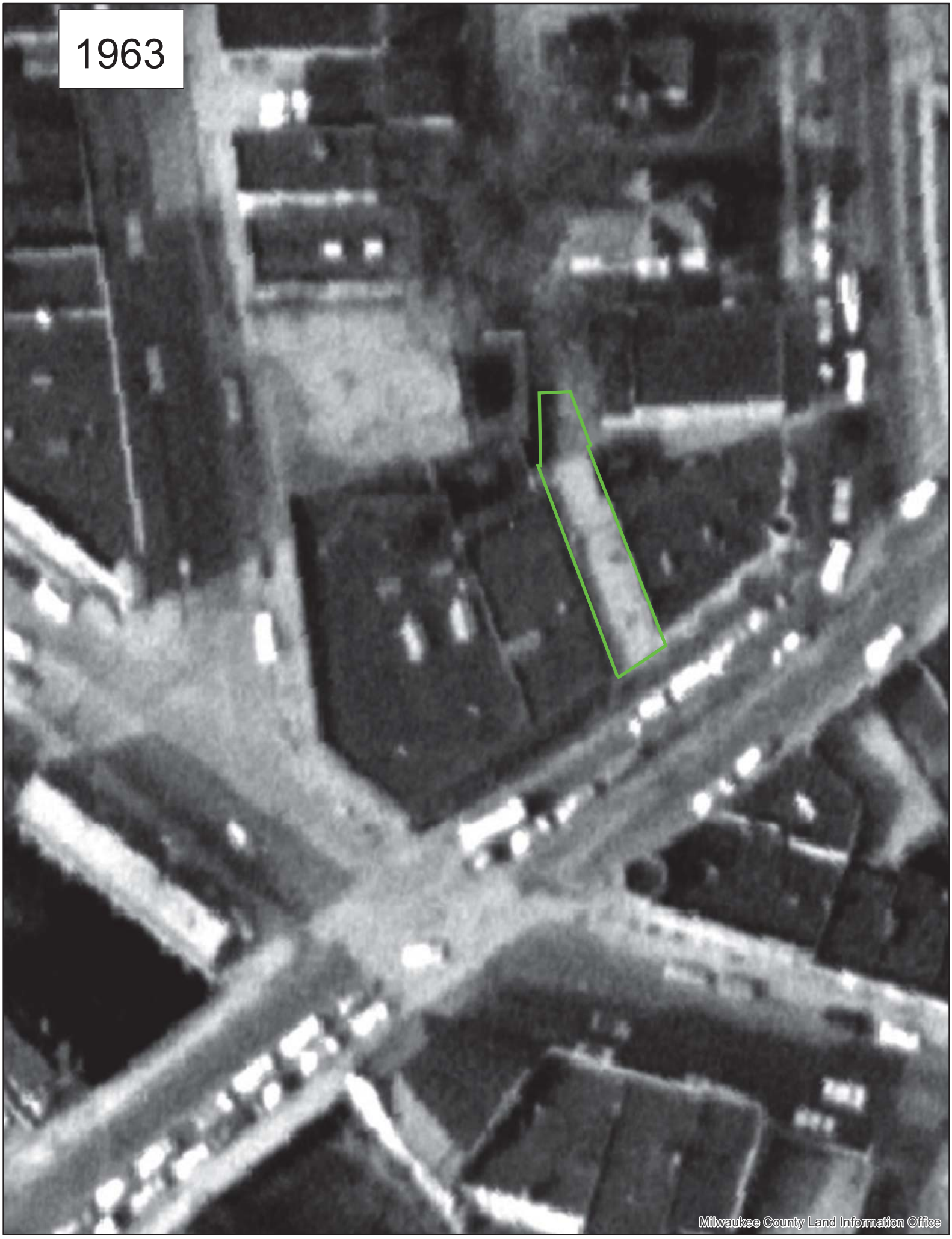
B.4.c. Other

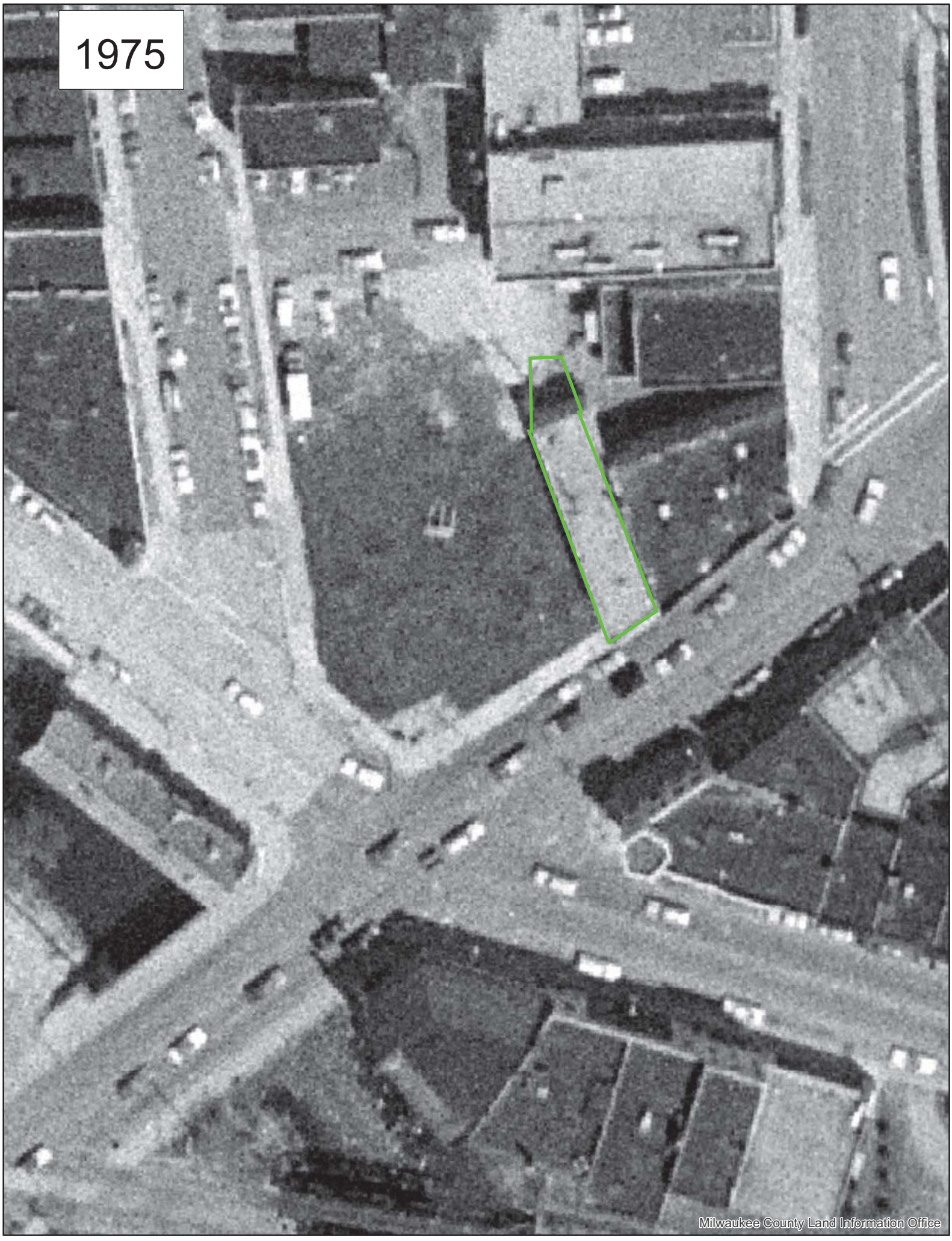

1910
Subject Property
CITY HALL FIRE DEPT.
1 HOSE WAGON, 1 H.&L. TRUCK, 1,500 2½ HOSE
SUBD
WARE HO.
OIL HO.
Gen'l Repair'g
VEN'G
N. MAIN
12" W. PIPE
6" W. PIPE
8" W. PIPE
3 ROWS WOOD POSTS
P.O.
VEND.
Upholstering
CONCRETE FOUNDATION
Paints. Tin Shop Bst. Plumbing Bst.
Gen'l Machine Shop
Motor B.
201
203
205
207
207½
209
213
215
202
Scale

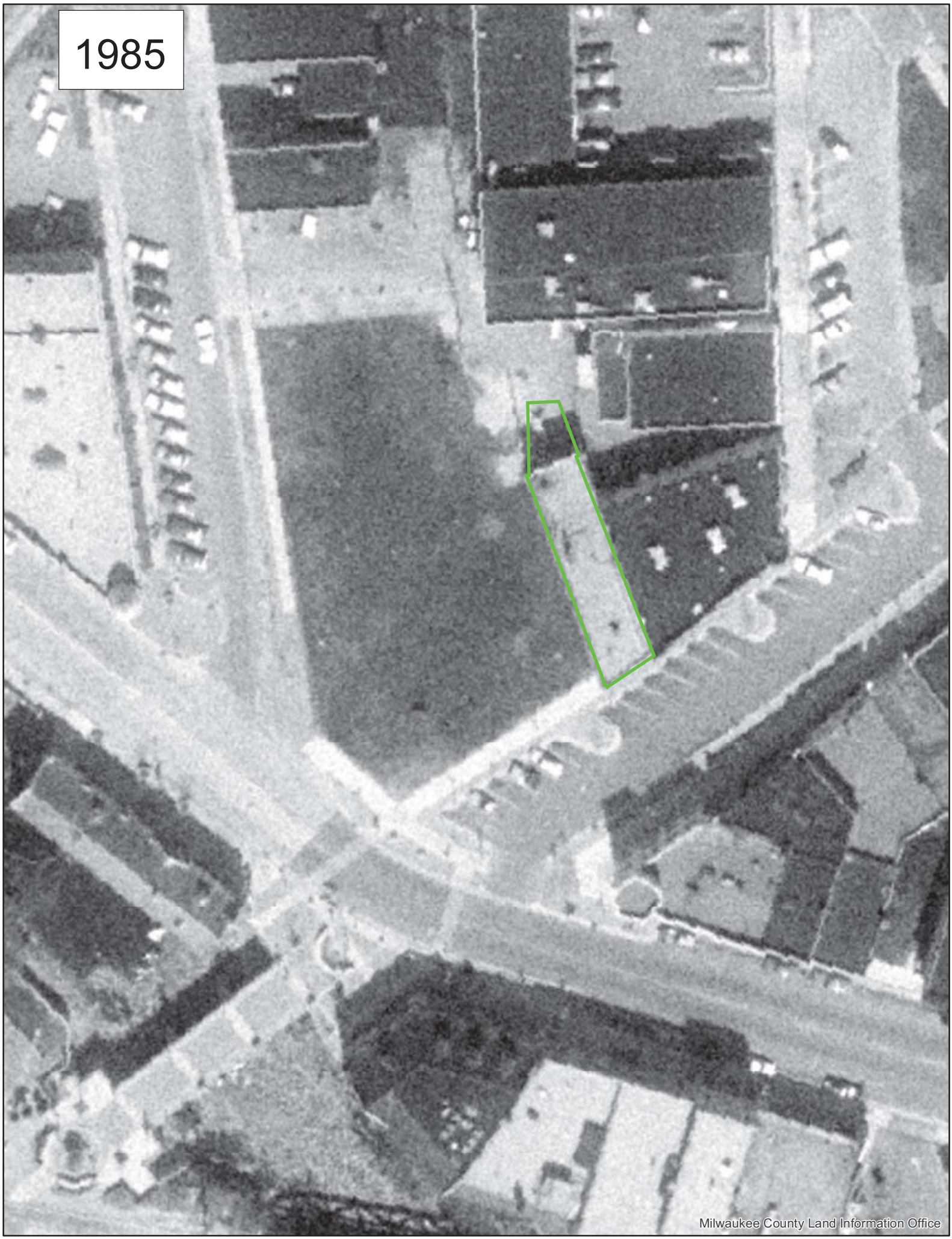

1927
Automobile Garage - Potential Off-Site Contaminant Source
FIRE DEPT.
POST OFFICE
LEFEBER
BANK
N. MAIN
W. MAIN
Drugs
Printing
Bank
TOWNSHIP HALL
Menomonee River
6" W. PIPE
8" W. PIPE
12" W. PIPE


1937
Milwaukee County Land Information Office


1951
Print'g
Restr't
PAINTS & OILS
CITY HALL
2ND
LEFEBER
CONC. FL.
BANK
Drugs
Bank 1ST
12" W. PIPE
6" W. PIPE
HARWOOD
(W. MAIN)
Menomonee
River


1963
Milwaukee County Land Information Office


1975
Milwaukee County Land Information Office


1985
Milwaukee County Land Information Office

B.5. Structural Impediment Photos

Impediments to completion of the SI included the on-site building and the very small physical nature of the property. The exterior portion, though asphalt covered, is an area not much larger than 1 or 2 automobile parking stalls that determined further soil boring and or monitoring well installations to be excessive.

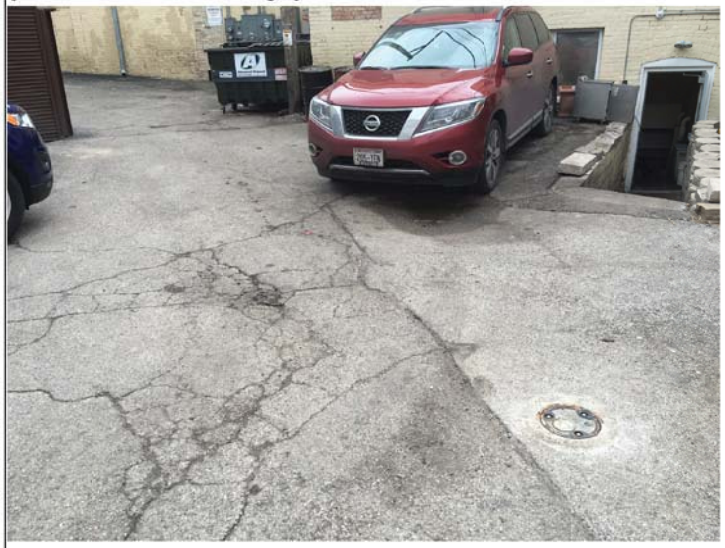
{Click to Add/Edit Image} Date added: 04/12/2016

Title: Asphalt cap with subject property boundary marked (facing south)

{Click to Add/Edit Image} Date added: 04/12/2016

Title: Asphalt cap with subject property boundary marked (facing southwest)

{Click to Add/Edit Image} Date added: 04/12/2016



Title: Asphalt cap with MW-2 (facing south)

{Click to Add/Edit Image} Date added: 04/12/2016

Title: Asphalt cap on west adjoining property with MW-2 (facing west)

{Click to Add/Edit Image} Date added: 04/12/2016

Title: Asphalt cap on east adjoining property with MW-2 (facing northeast)

{Click to Add/Edit Image} Date added: 04/12/2016

Title: Asphalt cap on east adjoining property with MW-3 (facing northwest)

C.1. Site Investigation Documentation

Kapur & Associates, Inc., Site Investigation Report - Le Reve Patisserie & Cafe, 7600-7610 W. Harwood Avenue, Wauwatosa, Wisconsin 53213 (attached)

SITE INVESTIGATION REPORT

LE REVE PATISSERIE & CAFÉ

7600-7610 W. HARWOOD AVENUE

WAUWATOSA, WISCONSIN 53213

WDNR Activity # 02-41-576745

Prepared for:

Quatre Chiens, LLC
7610 W. Harwood Avenue
Wauwatosa, Wisconsin 53213

Prepared by:

Kapur & Associates, Inc.
7711 North Port Washington Road
Milwaukee, Wisconsin 53217

April 2016

SUBMITTAL CERTIFICATION
SITE INVESTIGATION AND REMEDIAL ACTION REPORT

Quatre Chiens, LLC
7600-7610 W. Harwood Avenue
Wauwatosa, Wisconsin 53213

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

Travis W. Peterson — April 7, 2016
Kapur & Associates, Inc. — Date
Travis W. Peterson
Environmental Manager

Rachel Beyer — April 7, 2016
Kapur & Associates, Inc. — Date
Rachel A. Beyer
Environmental Scientist

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

_____ _____
Kapur & Associates, Inc — Date
Jeremy Schwartz, P.E.
(Title)

_____
P.E. stamp

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SITE MAPS AND FIGURES

TABLES

APPENDICES

EXECUTIVE SUMMARY

This report documents the findings of an environmental Site Investigation (SI) for the Le Reve Patisserie & Café commercial property located at 7600-7610 West Harwood Avenue in the City of Wauwatosa, Wisconsin. Kapur & Associates, Inc. (Kapur) performed this investigation in compliance with Wisconsin Administrative Code (Chapter NR 716) as part of a pending real estate transaction and in conjunction with the proposed redevelopment plans for the subject property.

The purpose of the investigation was to determine degree and extent along with the likely contaminant source for known soil and potential groundwater contamination at the subject property (WDNR Activity # 02-41-76745) including that of a former 1,000 gallon fuel oil UST onsite. Kapur conducted site investigation activities from February through March 2016, at the subject site that included monitoring the installation of soil borings, ch. NR 141 permanent groundwater monitoring wells, collection of soil and groundwater samples for laboratory analysis, and a vapor intrusion screening.

Findings and Conclusions

The findings and conclusions regarding the commercial property SI activities at 7600-7610 West Harwood Avenue in the City of Wauwatosa, Wisconsin are summarized below:

Soil:

Site specific soil was generally composed of sand with intermixed gravel and trace clay. The sand appeared uniform from a depth of 7-10 feet bgs to the maximum drill depth of 20 feet bgs. Groundwater was encountered at approximately 16 to 17 feet bgs in all of the soil borings. Analytical results indicate that subsurface contamination containing PAHs (1-Methylnaphthalene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, and pyrene), RCRA metals (arsenic, barium, cadmium, lead, and selenium), and VOCs (naphthalene) is present above the respective applicable NR 720 soil RCLs from approximately 2 to 16 feet bgs throughout the subject property with the highest concentrations occurring in B2 (NW property corner) from 10 to 16 feet bgs.

Groundwater:

Depth to groundwater levels ranged from 15.45 to 16 feet bgs (656.62 to 656.81 MSL). Onsite groundwater flow is generally southwest. Based upon local geology and surface elevations localized groundwater flow is expected to be southwest toward the Menomonee River while regional groundwater is anticipated to flow east toward Lake Michigan. Analytical results for PAHs, RCRA Metals, and VOCs indicated concentrations of benzo(a)pyrene,

benzo(b)fluoranthene, and chrysene exceeding the NR 140 Enforcement Standards (ES) in MW-2. Benzo(b)fluoranthene, and chrysene concentration were detected only slightly above the NR 140 Preventive Action Limit (PAL) in MW-3. No analyte detected in MW-1 exceeded laboratory detection limits or the NR 140 PAL.

Vapor Intrusion Screening:

Three soil vapor probes (SVP-1 through SVP-3) were installed to eight feet bgs within the location of soil borings B1, B3 and B4 along the building north face (adjacent to the former UST cavity) and at the building northwest corner to screen for petroleum vapors. No obvious odor was detected and PID readings of the soil borings remained below background levels (<10 ppmv). Oxygen concentration for SVP-1 and SVP-2 was 17.1 %, 17.9% and 18.3%, respectively. Vapor intrusion can be ruled out in most petroleum releases where five feet (in the horizontal and vertical direction) of clean, unsaturated soil with an oxygen content ≥ 5% exists between the residual petroleum contamination and the building (Ref. 1). Based on the analysis of the soil borings, the contaminant type, proximity of the contaminant plume and current onsite building / property layout, it is unlikely that a vapor intrusion risk exists at the subject property.

Contaminant Migration:

Based on field results from groundwater sampling activities the general groundwater flow direction is to the southwest with a relatively horizontal hydraulic gradient. Hydraulic gradient, along with the estimated hydraulic conductivity of site specific groundwater interface soils (gravel-sand), permeability, and flow rate indicate that the onsite storm water utility corridor servicing the subject property is a potential receptor for contaminant impacts. However, the field data and analytical results do not indicate that the stormwater utility corridor servicing the subject site has or is currently acting as a migratory pathway or potential receptor for contaminant impacts.

Potential Offsite Contaminant Sources:

In reviewing available historical documentation including fire insurance maps, aerial photographs and city directory records, it has been determined than from the early to late 1920's an auto service facility was located adjacent to the northern property boundary of the subject site. In addition, the adjacent property to the west at 7700 W. State Street & 7616 Harwood Avenue was listed as Wauwatosa Fuel & Supply Co. from 1936 to 1965, Quickflash Fuels, Inc. from 1970 to 1984 and Jones Machinery (manufacturing) at 7616 Harwood Avenue from 1957 to at least 1959.

In an effort to further investigate this potential, a request was made to the adjoining property owners to allow for additional borings/wells to be installed, however; access has not been granted.

Opinions and Recommendations

The identified contaminated soil appears to be of two separate plumes with one stemming from likely fill materials deposited onsite over the course of historic redevelopment activities and the second from an offsite source likely one of those identified as Wauwatosa Fuel & Supply Co., Quickflash Fuels, Inc. and/or Jones Machinery all formerly operating adjacent to the subject site. In as much, soil contamination appears to have been defined to the extent practical within the property boundary and further subsurface soil investigation is not warranted. The site has an in place engineered cap (asphalt parking) that will be maintained over the existing contaminated soil. This engineered cap will be part of the cap maintenance plan and will serve as a barrier continuing to prevent surficial influence and contaminant migration at the subject property.

The observed groundwater impacts appear minimal, either slightly above the ES or PAL, in the same identified areas of impacted soils and, given the elevated concentrations in soil, it does not appear that significant leaching or 'soil to groundwater' movement of contaminants is occurring nor have historic seasonal fluctuations in groundwater elevation been influenced.

It is Kapur's opinion that offsite investigation would likely confirm the presence of an offsite source contributing to the elevated contaminant concentrations, not contributed to site fill materials indicative of subsurface conditions in the immediate area, and not as a result of an onsite source (former fuel oil UST). Therefore, Kapur recommends no further investigative activities and case closure per ch. NR 726 for the Harwood Avenue Commercial Property ERP site with registry on the WDNR Geographic Information System (GIS) for residual soil and groundwater contamination at the subject property.

LIST OF ABBREVIATIONS

bgs	Below Ground Surface
ES	Enforcement Standard
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
LDL	Laboratory Detection Limit
LUST	Leaking Underground Storage Tank
MDL	Method Detection Limit
MRL	Method Reporting Limit
MSL	Mean Sea Level
PAH	Polynuclear Aromatic Hydrocarbons
PAL	Preventive Action Limit
PID	Photoionization Detector
ppm	Parts Per Million
ppmv	Parts Per Million by Volume in air
ppb	Parts Per Billion
RP	Responsible Party
RAP	Remedial Action Plan
RCL	Residual Contaminant Level
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Condition
SI	Site Investigation
USGS	United States Geologic Survey
UST	Underground Storage Tank
VOC	Volatile Organic Compound
WDNR	Wisconsin Department of Natural Resources

1.0 INTRODUCTION

Kapur & Associates, Inc. (Kapur) has performed an environmental Site Investigation (SI) for the Le Reve Patisserie & Café commercial property located at 7600-7610 West Harwood Avenue in the City of Milwaukee, Wisconsin. Kapur has performed this investigation in accordance with Wisconsin Administrative Code (Chapter NR 716) and in conjunction with the proposed development of the current property including renovation of the building interior. This report was prepared for Quatre Chiens, LLC, current owner and responsible party.

1.1 Site Location

The subject property consists of a single Tax Parcel ID Number 3710060000 totaling approximately 0.11 acres located in the northeast ¼ of the southeast ¼ of Section 21, Township 7 north, Range 21 east (Ref. 1). The site is located south of the intersection of Wauwatosa Avenue and West Harwood Avenue in the City of Wauwatosa, Milwaukee County, Wisconsin (See Figure B.1.a for topographic site location and Figure B.1.b for an aerial map of the subject property). The recorded parcel legal description is:

LEFEBER SUBD LOT 6 AND ELY STRIP OF ADJ LOT 7 7.5 IN WIDE ON ITS NLY LI AND 5.75 IN WIDE ON ITS SLY LI INCLDG EASEMENT SE 1/4 SEC 21

1.2 Site Background

The subject property was originally developed in 1901 as a bank, occupied by 1st National Bank of Wauwatosa from 1926-1952 with remodeling occurring in 1947. A former 1,000-gallon fuel oil tank was located in the paved area just north of the building until it was removed on September 22, 1995. A Phase I ESA was completed for the subject property and adjacent building in March of 2006 by the Sigma Group (Ref. 2). In April of 2011 a limited Phase II ESA was performed by Sigma Group where two soil borings to a six-foot depth were installed in the basement of the 7600 property, adjacent to the subject property (Ref. 3). A second Phase II ESA was conducted in January of 2016 by the Sigma Group where two additional borings were installed to fifteen feet bgs at the estimated location of the former UST (Ref. 4). The subject property is listed on the WDNR GIS registry as an open ERP site. The Phase II ESA's performed identified soil contamination onsite; however, were unable to define the source as the former UST. The purpose of the Site Investigation activities performed by Kapur in February 2016 was to determine a contaminant source and define, to the extent practical, the degree of contamination onsite.

1.3 Site Description

The subject property, approximately 2,400 square feet or 0.06-acres in area (Milwaukee County GIS) consists of a 1 ½ story brick commercial building currently utilized as a La Reve Patisserie & Café restaurant with a small (single vehicle) asphalt parking area to the north of the building. A stairwell leads from the basement on the north side of the building to the exterior and parking area.

Based on the USGS Milwaukee Quadrangle topographic map, the subject site is relatively flat with an elevation of 677 feet above the MSL (Ref. 1). The surrounding topography shows a general gentle sloping to the west/southwest in the direction of the Menomonee River located approximately 300 feet from subject site. Localized groundwater is between 15 and 16 feet below ground surface (bgs) with a southwesterly flow direction. Regionally, groundwater is expected to flow east toward Lake Michigan. Depth to bedrock is expected to be greater than 100 feet bgs (Ref. 5).

The subject property is located in an area containing mixed residential and commercial properties as follows:

- The site is bounded on the north by an asphalt parking lot servicing 1409 N. Wauwatosa Avenue and a multi-commercial tenant building (1415 N. Wauwatosa Avenue) beyond.
- The property is bounded on the east by the same asphalt parking lot servicing 1409 N. Wauwatosa Avenue and a commercial building at 7600 W. Harwood Avenue.
- The property is bounded on the south by West Harwood Avenue with commercial development beyond.
- The property is bounded on the west by a multitenant commercial building including Noodles and Company (7700 W. State Street) tenant immediately west of the subject site.

The City of Wauwatosa supplies municipal water and controls the sanitary sewer lateral lines servicing the subject property. The onsite facility utilizes natural gas heat and electricity supplied by WE Energies.

1.4 Purpose

The purpose of the SI activities at the subject property was to determine the source of known contamination onsite and to determine the nature and extent of soil and potential groundwater contamination. The following scope of work was completed with regard to the SI activities:

- Preparation of a site specific Health & Safety Plan.
- Coordination with drilling subcontractor, laboratory, and Diggers Hotline.
- Review of available historical information pertaining to the location and status of the former tank.
- Review of previous ESAs completed at the subject property.

- Installation of four direct push soil borings.
- Field screening of soil borings in two foot increments during drilling operations utilizing a PID.
- Collection of twelve soil samples for laboratory analysis of PAHs, RCRA Metals, and VOCs.
- Vapor screen analysis of three (3) soil vapor points.
- Conversion of three soil borings into permanent 1-inch ch. NR 141 groundwater monitoring wells.
- Collection of three (3) groundwater samples for laboratory analysis of PAHs, RCRA Metals, and VOCs.

1.5 Owner, Consultant, and Subcontractors List

The following section summarizes the names, addresses, and telephone numbers of the property owner, consultant, and subcontractors:

Owner:
Quatre Schiens, LLC
7610 W. Harwood Avenue
Wauwatosa, Wisconsin 53213
Phone: (414) 778-3333
Contact: Mr. Andrew Schneider

Consultant:
Kapur & Associates, Inc.
7711 North Port Washington Road
Milwaukee, Wisconsin 53217
Phone: (414) 351-6668
Contact: Travis Peterson, Environmental Manager

Contractors for Commodity Services

Geoprobe Borings:
Horizon Construction and Exploration
764 Tower Drive
Fredonia, Wisconsin 53021
Phone: (262) 692-3374
Contact: Adam Sweet

Analytical Testing:
Pace Analytical Services, Inc.
1241 Bellevue Street, Green Bay, Wisconsin 54302
WDNR Lab Certification # 405132750
Phone: (920) 321-6405
Contact: Christopher Hyska

2.0 GEOLOGY AND RECEPTORS

2.1 Regional and Local Geology and Hydrology

2.1.1 Site Topography

The topography of the site is relatively flat. The ground surface elevation is approximately 677 feet above MSL (Ref. 1). Surface water at the subject property enters storm sewers/drains located onsite.

2.1.2 Site Geology

Native soil type for the Milwaukee region is part of the Ozaukee-Morley-Mequon Association. It is typically well-drained to somewhat poorly drained soil that has a subsoil of silty clay loam and silty clay; formed in thin loess and silty clay loam of glacial till, on moraines. This association is found in the glaciated uplands were the soils formed in a thin layer of loess and the underlying glacial till. The major soils are the Ozaukee, Morley, and Mequon. Ozaukee Soils make up 20 percent of the association; Morley soil, 18 percent; Mequon soil, 11 percent; and minor soils, 51 percent. The Ozaukee and Morley soils are gently sloping, and occupy ridges and convex sloped sides of glacial moraines. The Mequon soils are in drainage ways or old lake basins (Ref. 7).

Based on observations from soil borings, the site subsurface soils consisted of uniform brown sand and gravelly sand (of brown, red and black coloration), with various non-soil material including trace amounts of non-exempt or solid waste by NR 500.08, WAC, such as concrete and plastic at shallow depths. Bedrock in the region is expected to be greater than 100 feet bgs (Ref. 5 and 6).

2.1.3 Site Hydrogeology

Based on field results from groundwater sampling activities performed on February 29, 2016, groundwater elevation data in the monitoring wells ranged from 672.24 feet above mean sea level (msl) in MW-2 to 672.71 feet msl in MW-3. The data from these events revealed the general groundwater flow direction is in a southwesterly direction with a horizontal hydraulic gradient of 0.02 ft/ft. Hydraulic conductivity specific to the subject property was not obtained, however, the estimated hydraulic conductivity of site specific soils (sand to gravel/sand) ranges from 10^{+2} to 10^{+5} (m/yr) with an estimated permeability of 5.00×10^{-3} m/sec (Ref. 8).

2.2 Receptors

Field and laboratory results indicate residual soil and groundwater contamination is present north of the site building within the asphalted parking area and alley, the highest concentrations present at the northwest property corner. The onsite storm water utility corridor servicing the subject property is a potential receptor for contaminant impacts, however; based upon the depth of the sewer manhole and lateral, proximity to identified impacted subsurface soil and corresponding concentrations; contaminant migration along the sewer does not appear to be evident. Based upon information obtained for this investigation, no other sensitive areas or receptors were identified in the immediate vicinity of the site. Municipal water and sewer is supplied to the subject property by the City of Wauwatosa (Figures B.1.a and B.1.b depict monitoring wells, utility lines, onsite sub-grade utilities, and public street rights of way in relation to the subject property). According to Wisconsin Department of Agriculture, Trade, and Consumer Protection (DATCP) and Wisconsin Department of Natural Resources (WDNR) online well records database, there are zero private (potable) or municipal wells within 1,200 feet of the subject property.

3.0 SITE INVESTIGATION RESULTS

3.1 Methods of Investigation

3.1.1 Site Reconnaissance

In February 2016, Kapur conducted a reconnaissance of the site to inspect the areas with potential sources or indicators of contamination. In addition, as further information became available for review, Kapur evaluated the data and adjusted and/or added to the investigation plan accordingly.

3.1.2 Soil Boring and Well Installation

Four soil borings were advanced to 20 feet bgs on February 16, 2016 using direct push methods. Borings were located along the north of the property. These borings, along with analytical results from previous Phase II soil boring activities, were used to investigate subsurface conditions and determine the nature and extent of residual contamination at the subject property (Ref. 3&6). Excess soil cuttings were handled by Horizon Construction and Exploration using proper disposal methods. A total of thirty soil samples were field screened for VOCs using a miniRAE 2000 PID throughout sampling activities.

Three soil borings (B-1, B-2, B-4) installed on February 16, 2016, were converted into permanent 1-inch groundwater monitoring wells in accordance with WDNR Administrative Code Chapter NR 140. These wells (MW-1, MW-2, MW-3), were used to define the nature and extent of residual groundwater contamination at the subject property (Ref. 3&6). Purged water was disposed of down the storm sewer located onsite per Wauwatosa Department of Public Works (DPW) instructions. Monitoring wells were constructed of polyvinyl chloride (PVC) pipe with a 10-foot slotted screen section at the bottom and solid pipe to the surface.

Soil boring and groundwater monitoring well locations are shown in Figures B.2.a and B.3.b, respectively. The extent of residual subsurface contamination shown in these figures is based upon analytical results obtained during site investigation activities. Appendix A shows photographs taken during the SI investigation. Appendix B contains the WDNR Soil Boring Logs, PID screening results of soil samples, Well Construction Forms, and Well Development Forms. Detailed descriptions of drilling, soil sampling, field screening, and temporary well installation methods are included in Appendix D.

3.2 Analytical Results

Pace Analytical Services, Inc. of Green Bay, Wisconsin (WDNR Certification Number: 405132750) analyzed the soil and groundwater samples for this investigation. Methods used for analyzing soil and groundwater samples are presented in Appendix C.

3.2.1 Soil

Kapur collected soil boring samples on February 16, 2016. Soil samples were submitted for analysis of PAHS, VOCs, and RCRA metals. Field observation and laboratory analytical results of the soil investigation indicated:

- PID readings remained below background levels (<10 ppmv) for all boring samples except B4, at a depth of 14-16 feet bgs with a PID reading of 20.8 ppmv.

B1

- PAHs including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene were detected at concentrations above the respective NR 720 Soil to Groundwater Pathway, Industrial and/or Non-Industrial Direct Contact Standards at depths of 2-4 feet bgs and 6-8 bgs. Only benzo(a)pyrene (41 ug/kg) was detected at a depth of 14-16 feet bgs above the Non-Industrial Direct Contact Standard of 15 ug/kg.
- RCRA Metals concentrations of arsenic 9,900 ug/kg (2-4 feet bgs) and 3,900 ug/kg (6-8 feet bgs) were detected at above the respective NR 720 Soil to Groundwater Pathway, Industrial and Non-Industrial Direct Contact Standards. Lead concentrations of 119,000 ug/kg and 36,700 ug/kg exceeded only the NR 720 Soil to Groundwater Pathway standard of 27,000 ug/kg at the same respective depths. No other metals detected exceeded any applicable standard.
- VOCs were not detected above laboratory detection limits (LDLs) and/or applicable NR 720 RCL standards.

B2

- PAHs including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene chrysene, dibenz(a,h)anthracene, fluoranthene, fluorine, indeno(1,2,3-cd)pyrene, naphthalene and pyrene were detected at concentrations above the respective NR 720 Soil to Groundwater Pathway, Industrial and/or Non-Industrial Direct Contact Standards at depths of 2-4 feet bgs, 10-12 feet bgs and 14-16 bgs. The highest concentrations within the 10-12 feet bgs sample depth.
- RCRA Metals concentrations of arsenic 5,100 ug/kg (2-4 feet bgs), 4,900 ug/kg (10-12 feet bgs) and 3,800 ug/kg (14-16 feet bgs) were detected at above the respective NR 720 Soil to Groundwater Pathway, Industrial and Non-Industrial Direct Contact Standards. Lead concentrations of 54,800 ug/kg, 37,700 ug/kg and 48,200 ug/kg exceeded only the NR 720 Soil to Groundwater Pathway standard of 27,000 ug/kg at the same respective depths. No other metals detected exceeded applicable NR 720 standards.

- Of the VOCs; only naphthalene concentrations of 82,900 ug/kg (10-12 feet bgs) and 96,000 ug/kg (14-16 feet bgs) were detected above the NR 720 Soil to Groundwater Pathway standard of 27,000 ug/kg. No other VOC was detected above LDLs.

B3

- PAHs including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene were detected at concentrations above the respective NR 720 Soil to Groundwater Pathway, Industrial and/or Non-Industrial Direct Contact Standards at depths of 2-4 feet bgs, 10-12 bgs and 14-16 feet bgs.
- RCRA Metals concentrations of arsenic 6,600 ug/kg (2-4 feet bgs), 3,600 ug/kg (10-12 feet bgs) and 4,500 ug/kg (14-16 feet bgs) were detected at above the respective NR 720 Soil to Groundwater Pathway, Industrial and Non-Industrial Direct Contact Standards. Lead concentrations of 358,000 ug/kg, 42,200 ug/kg and 41,300 ug/kg exceeded only the NR 720 Soil to Groundwater Pathway standard of 27,000 ug/kg at the same respective depths. Barium (287,000 ug/kg) and cadmium (1,000 ug/kg) exceeded the NR 720 Soil to Groundwater Pathway standard of 165,000 ug/kg and 752 ug/kg, respectively, at a depth of 2-4 feet bgs. Selenium (1,300 ug/kg) exceeded the NR 720 Soil to Groundwater Pathway standard of 520 ug/kg at a depth of 14-16 feet bgs.
- VOCs were not detected above laboratory detection limits (LDLs) and/or applicable NR 720 RCL standards.

B4

- PAHs including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene were detected at concentrations above the respective NR 720 Soil to Groundwater Pathway, Industrial and/or Non-Industrial Direct Contact Standards at depths of 2-4 feet bgs and 6-8 bgs. Only benzo(a)pyrene (42.9 ug/kg) was detected at a depth of 14-16 feet bgs above the Non-Industrial Direct Contact Standard of 15 ug/kg.
- RCRA Metals concentrations of arsenic 5,300 ug/kg (10-12 feet bgs) and 4,100 ug/kg (14-16 feet bgs) were detected at above the respective NR 720 Soil to Groundwater Pathway, Industrial and Non-Industrial Direct Contact Standards. No other metals detected exceeded applicable NR 720 standards.
- VOCs were not detected above laboratory detection limits (LDLs) and/or applicable NR 720 RCL standards.

Figure B.2.a. illustrates the soil boring locations and estimated extent of residual soil contamination based upon analytical results. Figures B.3.a. and B.3.a.i show the plan view

and geologic cross section from A to A'. WDNR Soil Boring Logs and PID screening results of soil samples are included in Appendix B. Complete analytical reports and chain of custody are included in Appendix C.

3.2.2 Groundwater

Monitoring wells MW-1, MW-2 and MW-3 were installed on February 16, 2016. The wells were subsequently developed and sampled on February 29, 2016. All groundwater samples were submitted for laboratory analysis of PAHs, RCRA Metals, and VOCs. Field monitoring and laboratory analytical data indicated:

- Depth to groundwater measurements ranged between 15.7 feet bgs to 16.23 feet bgs with measured elevations from 656.62 feet MSL to 656.81 feet MSL indicating a southwesterly flow direction.

MW-1

- No PAH, RCRA metal or VOC analyte was detected above LDLs or ch. NR 140 Preventive Action Limit (PAL).

MW-2

- PAH concentrations of benzo(a)pyrene (0.51 ug/L), benzo(b)fluoranthene (0.77 ug/L) and chrysene (0.92 ug/L) exceeded the respective ch. NR 140 Enforcement Standard (ES) standard of 0.2 ug/L.
- Of the RCRA metals; barium was detected at a concentration of 66.0 ug/L well below the NR 140 PAL of 400 ug/L.
- VOCs were not detected above LDLs.

MW-3

- PAH concentrations of benzo(b)fluoranthene (0.038 ug/L) and chrysene (0.038 ug/L) exceeded the respective ch. NR 140 PAL standard of 0.02 ug/L, yet remaining below the NR 140 ES of 0.2 ug/L.
- Of the RCRA metals; barium was detected at a concentration of 67.1 ug/L below the NR 140 PAL of 400 ug/L.
- VOCs were not detected above LDLs.

Table A.1 details the groundwater analytical results for the groundwater sampling activities. Figure B.3.b details location of the monitoring wells and the horizontal extent of groundwater contamination. Figure B.3.c outlines the observed groundwater flow direction. Complete laboratory analytical reports and chain of custody are included in Appendix C.

3.2.3 Vapor Intrusion Study

Given the historic presence of a 1,000 gallon fuel oil UST, subsurface soil contamination identified within close proximity to the building foundation, the potential for vapor intrusion into the onsite building was deemed present and, as such, a vapor screening completed. Three soil vapor probes (SVP-1 through SVP-3) were installed to eight feet bgs within the location of soil borings B1, B3 and B4 along the building north face (adjacent to the former UST cavity) and at the building northwest corner to screen for petroleum vapors. No obvious odor was detected and PID readings of the soil borings remained below background levels (<10 ppmv). Oxygen concentrations for SVP-1, SVP-2 and SVP-3 were 17.1 %, 17.9% and 18.3%, respectively. Vapor intrusion can be ruled out in most petroleum releases where five feet (in the horizontal and vertical direction) of clean, unsaturated soil with an oxygen content ≥ 5% exists between the residual petroleum contamination and the building (Ref. 9). Based on the analysis of the soil borings, the contaminant type and proximity of the contaminant plume to the building, it is unlikely that a vapor intrusion risk exists at the subject property.

Table A.4 illustrates the vapor probe analytical results. A vapor intrusion map is included in figure B.4.a that depicts the location of vapor probes (SVP-1 through SVP-3).

3.3 Contaminant Migration

Based on field results from groundwater sampling activities the general groundwater flow direction is to the southwest with a relatively horizontal hydraulic gradient. Hydraulic gradient, along with the estimated hydraulic conductivity of site specific groundwater interface soils (gravel-sand), permeability, and flow rate indicate that the onsite subgrade utility corridors servicing the subject property are potential receptors for contaminant impacts. However, the field data and analytical results do not indicate that the stormwater utility corridor servicing the subject site has or is currently acting as a migratory pathway or potential receptor for contaminant impacts.

4.0 CONCLUSIONS

Based on the findings of this SI, Kapur concludes the following regarding the current subsurface conditions at 7600-7610 West Harwood Avenue in the City of Wauwatosa, Wisconsin:

Soil

Site specific soil was generally composed of non-native soils (uniform sand to gravelly sand) with trace clay and debris (plastic, concrete) to depths ranging from ground surface to approximately 20 feet bgs.

Field observations and analytical results indicate that subsurface contamination containing PAHs (1-methylnaphthalene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, fluoranthene, fluorine, indeno(1,2,3-cd)pyrene, naphthalene, and/or pyrene), RCRA metals (arsenic, barium, cadmium, lead, and/or selenium), and VOCs (naphthalene) is present above the respective applicable NR 720 soil RCLs from approximately 2 to 16 feet bgs throughout the subject property with the highest concentrations in B2 from 10-16 feet.

Groundwater:

Depth to groundwater levels ranged from 15.45 to 16 feet bgs (656.62 to 656.81 MSL). Onsite groundwater flow is generally southwest. Based upon local geology and surface elevations localized groundwater flow is expected to be southwest toward the Menomonee River while regional groundwater is anticipated to flow east toward Lake Michigan. Analytical results for PAHs, RCRA Metals, and VOCs indicated concentrations of benzo(a)pyrene, benzo(b)fluoranthene, and chrysene exceeding the NR 140 ES in MW-2. Benzo(b)fluoranthene, and chrysene concentration were detected only slightly above the NR 140 PAL in MW-3. No analyte detected in MW-1 exceeded laboratory detection limits or the NR 140 PAL.

Vapor Intrusion Screening:

Three soil vapor probes (SVP-1 through SVP-3) were installed to eight feet bgs within the location of soil borings B1, B3 and B4 along the building north face (adjacent to the former UST cavity) and at the building northwest corner to screen for petroleum vapors. No obvious odor was detected and PID readings of the soil borings remained below background levels (<10 ppmv). Oxygen concentration for SVP-1 and SVP-2 was 17.1 %, 17.9% and 18.3%, respectively. Vapor intrusion can be ruled out in most petroleum releases where five feet (in the horizontal and vertical direction) of clean, unsaturated soil with an oxygen content ≥ 5% exists between the residual petroleum contamination and the building (Ref. 1). Based on the analysis of the soil borings, the contaminant

type, proximity of the contaminant plume and current onsite building / property layout, it is unlikely that a vapor intrusion risk exists at the subject property.

Contaminant Migration:
Based on field results from groundwater sampling activities the general groundwater flow direction is to the southwest with a relatively horizontal hydraulic gradient. Hydraulic gradient, along with the estimated hydraulic conductivity of site specific groundwater interface soils (gravel-sand), permeability, and flow rate indicate that the onsite subgrade utility corridors servicing the subject property are potential receptors for contaminant impacts. However, the field data and analytical results do not indicate that the stormwater utility corridor servicing the subject site has or is currently acting as a migratory pathway or potential receptor for contaminant impacts.

Potential Offsite Contaminant Sources:
In reviewing available historical documentation including fire insurance maps, aerial photographs and city directory records, it has been determined than from the early to late 1920's an auto service facility was located adjacent to the northern property boundary of the subject site. In addition, the adjacent property to the west at 7700 W. State Street & 7616 Harwood Avenue was listed as Wauwatosa Fuel & Supply Co. from 1936 to 1965, Quickflash Fuels, Inc. from 1970 to 1984 and Jones Machinery (manufacturing) at 7616 Harwood Avenue from 1957 to at least 1959.

In an effort to further investigate this potential, a request was made to the adjoining property owners to allow for additional borings/wells to be installed, however; access has not been granted.

5.0 OPINIONS AND RECOMMENDATIONS

The identified contaminated soil appears to be of two separate plumes with one stemming from likely fill materials deposited onsite over the course of historic redevelopment activities and the second from an offsite source likely one of those identified as Wauwatosa Fuel & Supply Co., Quickflash Fuels, Inc. and/or Jones Machinery all formerly operating adjacent to the subject site. In as much, soil contamination appears to have been defined to the extent practical within the property boundary and further subsurface soil investigation is not warranted. The site has an in place engineered cap (asphalt parking) that will be maintained over the existing contaminated soil. This engineered cap will be part of the cap maintenance plan and will serve as a barrier continuing to prevent surficial influence and contaminant migration at the subject property.

The observed groundwater impacts appear minimal, either slightly above the ES or PAL, in the same identified areas of impacted soils and, given the elevated concentrations in soil, it does not appear that significant leaching or 'soil to groundwater' movement of contaminants is occurring nor have historic seasonal fluctuations in groundwater elevation been influenced.

It is Kapur's opinion that offsite investigation would likely confirm the presence of an offsite source contributing to the elevated contaminant concentrations, not contributed to site fill materials indicative of subsurface conditions in the immediate area, and not as a result of an onsite source (former fuel oil UST). Therefore, Kapur recommends no further investigative activities and case closure per ch. NR 726 for the Harwood Avenue Commercial Property ERP site with registry on the WDNR Geographic Information System (GIS) for residual soil and groundwater contamination at the subject property.

6.0 REFERENCES

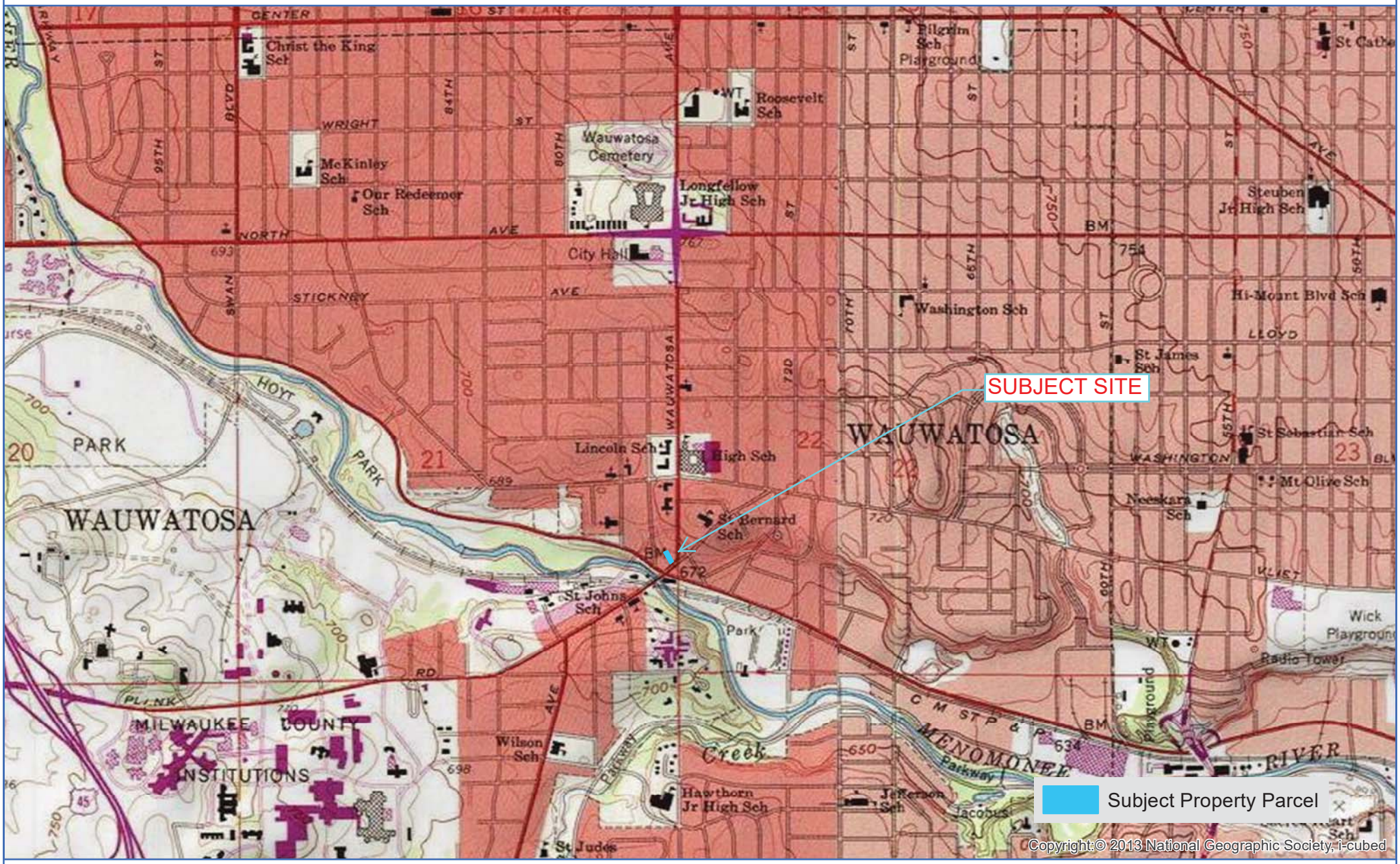
1. United States Geological Survey Topographic Maps (1958). Wauwatosa, Wisconsin Quadrangle, 7.5 Minute Series.
2. The Sigma Group (March 2006) Phase I Environmental Site Assessment: Former Streff Advertising Building, 7600 & 7610 Harwood Avenue, Wauwatosa, Wisconsin.
3. The Sigma Group (April 5, 2011) Limited Phase II Assessment: 7600 & 7610 Harwood Avenue, Wauwatosa, Wisconsin.
4. The Sigma Group (January 20, 2016) Phase II Site Investigation Results: 7600 & 7610 Harwood Avenue, Wauwatosa, Wisconsin.
5. M. G. Mudrey, Jr, B.A. Brown and J. K. Greenberg (1982). Bed Rock Geologic Map of Wisconsin.
6. Southeastern Wisconsin Regional Planning Commission and the Wisconsin Geological and Natural History Survey (June, 2002). Technical Report Number 37, Groundwater Resources of Southeastern Wisconsin.
7. U.S. Department of Agriculture, Soil Conservation Service, University of Wisconsin, Wisconsin Geological and Natural History Survey, Soils Department, and Wisconsin Agricultural Experiment Station (July 1971). Soil Survey of Milwaukee and Waukesha Counties, Wisconsin.
8. Freeze, R.A., and Cherry, J.A., 1979, Groundwater: Englewood Cliffs, NJ, Prentice-Hall, 604 p.
9. WDNR Guidance on Addressing Vapor Intrusion at Remediation & Redevelopment Sites in Wisconsin (RR-800) - http://dnr.wi.gov/topic/Brownfields/Vapor.html

Disclaimer:

This investigation has been conducted to assess likely sources of environmental concern, and does not represent an exhaustive study of all possible concerns at the Site. The conclusions and recommendations contained herein have been developed through the interpretation of currently available information and represent the professional opinion of Kapur. Other than this, no warranty is implied or intended.

S:_Environ\160131-7610 Harwood Ave. Tosa ENV\Report\SI_Harwood.docx

SITE MAPS AND FIGURES



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SHEET: LOCATION MAP

FIGURE: B.1.a

PROJECT: LE REVE PATISSERIE & CAFE

LOCATION: 7600-7610 W. HARWOOD AVENUE, WAUWATOSA, WI 53213

NORTH ARROW:

0 1,100 2,200 Feet

1 inch = 1,600 feet

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SHEET: DETAILED SITE MAP

FIGURE: B.1.b.

PROJECT: LE REVE PATISSERIE & CAFE

LOCATION: 7600-7610 HARWOOD AVENUE, WAUWATOSA, WISCONSIN 53213

NORTH ARROW:

SCALE: 1" = 20'
0 10 20

SEAL:

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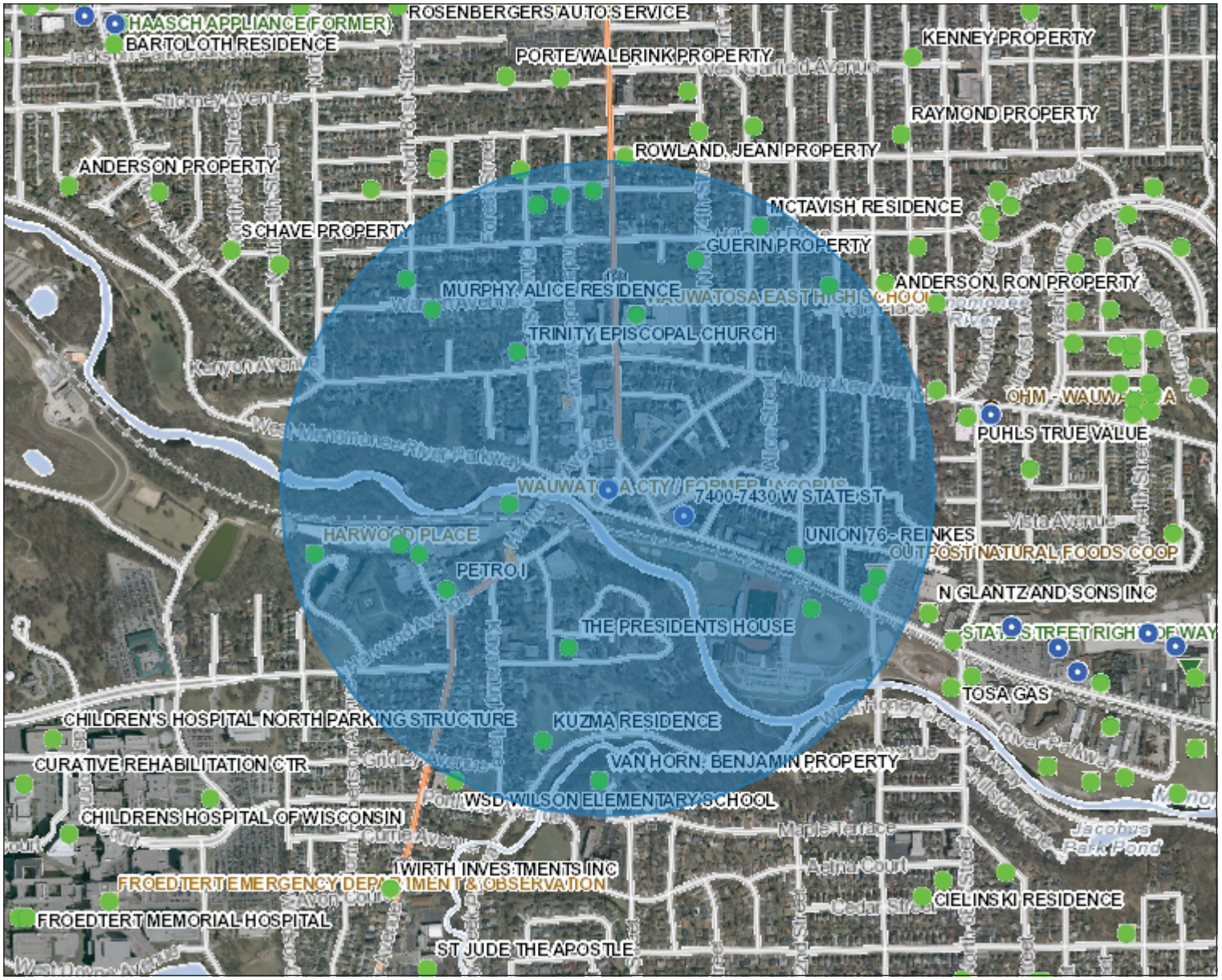
FILENAME: S:_Environ\160131-7610 Harwood Ave. Tosa ENV\Figs-Photos\Site Plan-Utilities rev.dwg PLOT DATE/TIME: 7/19/2016 2:06 PM PLOTTED BY: TRAVIS W. PETERSON

Figure B.1.c. RR Sites Map



Legend

- Open Site (ongoing cleanup)
- Open Site Boundary
- Closed Site (completed cleanup)
- Closed Site Boundary
- Groundwater Contamination
- Soil Contamination
- Groundwater and Soil Contamination
- Contamination From Another Property
- Dryclean Environmental Response Fund (DERF)
- Green Space Grant (2004-2009)
- Ready for Reuse
- Site Assessment Grant (2001-2009)
- State Funded Response
- Sustainable Urban Development Zone (S
- General Liability Clarification Letters
- Superfund NPL
- Voluntary Party Liability Exemption
- Rivers and Streams
- Open Water
- Municipality
- State Boundaries
- County Boundaries
- Major Roads
  - Interstate Highway
  - State Highway
  - US Highway

0.5 0 0.23 0.5 Miles

NAD_1983_HARN_Wisconsin_TM

1: 14,654

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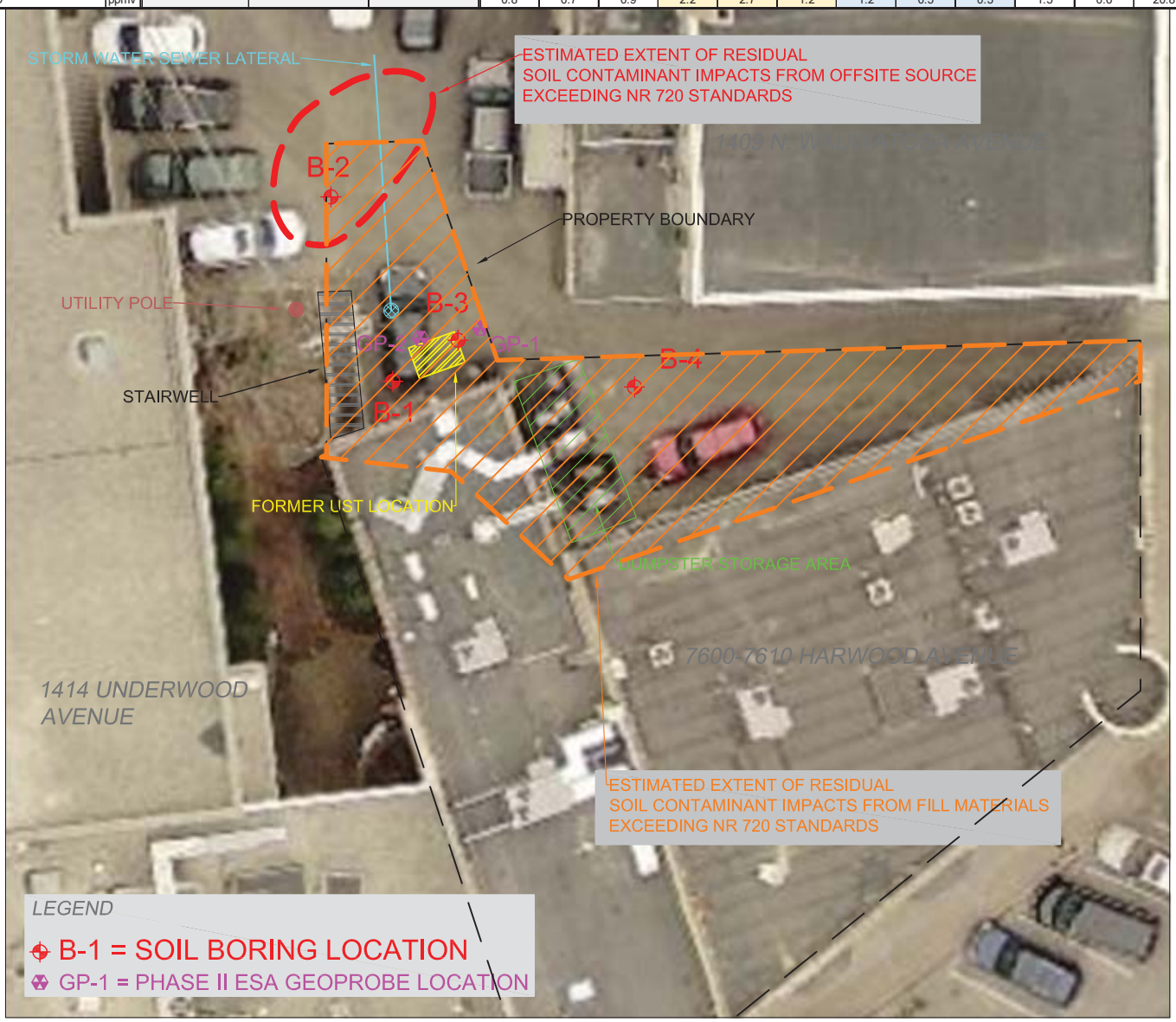
Note: Not all sites are mapped.

Notes

7600-7610 W. Harwood Ave.
Wauwatosa, WI 53213

Parameter	Units	WI NR 720 Soil to Groundwater Pathway	WI NR 720 Soil Cleanup Standards Direct Contact Industrial	WI NR 720 Soil Cleanup Standards Direct Contact Non-Industrial	B1 (2-4)	B1 (6-8)	B1 (14-16)	B2 (2-4)	B2 (10-12)	B2 (14-16)	B3 (2-4)	B3 (10-12)	B3 (14-16)	B4 (2-4)	B4 (10-12)	B4 (14-16)
Polynuclear Aromatic Hydrocarbons (PAHs)																
1-Methylnaphthalene	ug/kg		53,100	15,600	<77.6	43.1	<9.1	<37.7	18,200	10,800 J	<384	12.1 J	24.6 J	<76.0	31.8	<8.9
Benzo(a)anthracene	ug/kg		2,110	148	874	356	43.1	430	75,900	48,200	10,900	225	384	757	167	38.8
Benzo(a)pyrene	ug/kg	470	211	15	990	390	41.0	500	62,600	37,300	14,100	278	432	829	181	42.9
Benzo(b)fluoranthene	ug/kg	479	2,110.00	148	876	316	40.7	477	45,500	30,800	13,200	248	494	592	175	39.1
Benzo(k)fluoranthene	ug/kg		21,100	1,480	1,020	352	33.0	558	63,000	38,100	12,100	285	362	751	129	36.8
Chrysene	ug/kg	145	211,000	14,800	978	428	47.5	522	76,500	50,300	12,000	262	440	866	201	45.2
Dibenz(a,h)anthracene	ug/kg		211	15	135	77.8	8.3 J	76.4	11,900	5,450	2,760	37.1	59.8	151	31.1	8.9 J
Fluoranthene	ug/kg	88,900	22,000,000	2,290,000	2,160	1,050	106	1,060	213,000	129,000	22,000	587	1,090	2,180	541	96.1
Fluorene	ug/kg	14,800	22,000,000	2,290,000	132 J	79.8	9.8 J	60.6 J	61,400	35,300	516 J	31.2	70.9	155	41.5	<8.9
Indeno(1,2,3-cd)pyrene	ug/kg		2,110	148	337	206	20.9	183	27,500	12,900	6,500	93.8	154	416	87.2	23.3
Naphthalene	ug/kg	658	26,000	5,150	87.6 J	108	10.0 J	47.5 J	94,700	52,400	<384	23.4	51.2	117 J	41.8	<40.0
Pyrene	ug/kg	54,100	16,500,000	1,720,000	1,770	825	80.0	822	132,000	87,500	16,900	454	864	1,830	467	77.5
RCRA Metals																
Arsenic	ug/kg	584	2,390	613	9,900	3,900	<3.3	5,100	4,900	3,800	6,600	3,600	4,500	<3.1	5,300	4,100
Barium	ug/kg	165,000	100,000,000	15,300,000	89,400	29,300	17,100	47,100	31,300	33,800	287,000	52,400	48,600	37,000	20,400	14,000
Cadmium	ug/kg	752	799,000	70,000	490 J	220 J	130 J	510 J	500 J	340 J	1,000	200 J	160 J	140 J	210 J	160 J
Lead	ug/kg	27,000	800,000	400,000	119,000	36,700	13,600	54,800	37,700	48,200	358,000	42,200	41,300	9,900	11,100	6,500
Volatile Organic Compounds (VOCs)																
Naphthalene	ug/kg	658	26,000	5,150	81.5 J	<40.0	<40.0	68.6 J	82,900	96,000	157 J	<40.0	<40.0	<40.0	<40.0	<40.0
PID	ppmv				0.8	0.7	0.9	2.2	2.7	1.2	1.2	0.5	0.5	1.5	0.6	20.8



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SHEET: SOIL CONTAMINATION
FIGURE: B.2.a.
PROJECT: LE REVE PATISSERIE & CAFE
LOCATION: 7600-7610 HARWOOD AVENUE, WAUWATOSA, WISCONSIN 53213
NORTH ARROW:
SCALE: 1" = 20' (0, 10, 20)
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FILENAME: S:_Environ\160131-7610 Harwood Ave. Tosa ENV\Figs-Photos\SOIL CONTAM rev.dwg
PLOT DATE/TIME: 7/19/2016 2:09 PM
PLOTTED BY: TRAVIS W. PETERSON

Parameter	Units	WI NR 720 Soil to Groundwater Pathway	WI NR 720 Soil Cleanup Standards Direct Contact Industrial	WI NR 720 Soil Cleanup Standards Direct Contact Non-Industrial	B1 (2-4)	B1 (6-8)	B1 (14-16)	B2 (2-4)	B2 (10-12)	B2 (14-16)	B3 (2-4)	B3 (10-12)	B3 (14-16)	B4 (2-4)	B4 (10-12)	B4 (14-16)
Polynuclear Aromatic Hydrocarbons (PAHs)																
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Fluorene	ug/kg	14,800	22,000,000	2,290,000	132 J	79.8	9.8 J	60.6 J	61,400	35,300	516 J	31.2	70.9	155	41.5	<8.9
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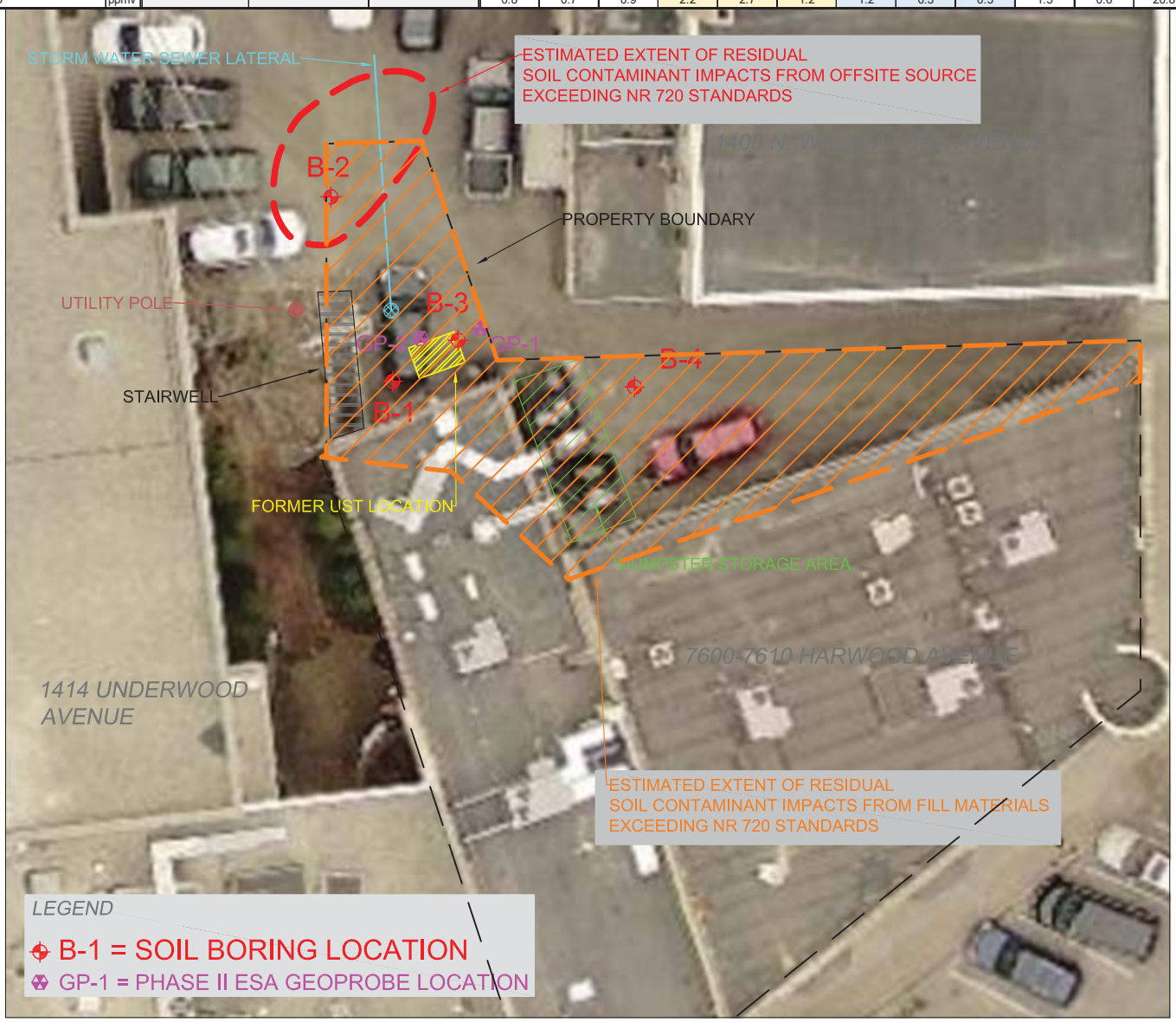
RCRA Metals																
Arsenic	ug/kg	584	2,390	613	9,900	3,900	<3.3	5,100	4,900	3,800	6,600	3,600	4,500	<3.1	5,300	4,100
Barium	ug/kg	165,000	100,000,000	15,300,000	89,400	29,300	17,100	47,100	31,300	33,800	287,000	52,400	48,600	37,000	20,400	14,000
Cadmium	ug/kg	752	799,000	70,000	490 J	220 J	130 J	510 J	500 J	340 J	1,000	200 J	160 J	140 J	210 J	160 J
Lead	ug/kg	27,000	800,000	400,000	119,000	36,700	13,600	54,800	37,700	48,200	358,000	42,200	41,300	9,900	11,100	6,500
Volatile Organic Compounds (VOCs)																
Naphthalene	ug/kg	658	26,000	5,150	81.5 J	<40.0	<40.0	68.6 J	82,900	96,000	157 J	<40.0	<40.0	<40.0	<40.0	<40.0
PID	ppmv				0.8	0.7	0.9	2.2	2.7	1.2	1.2	0.5	0.5	1.5	0.6	20.8



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SHEET: RESIDUAL SOIL CONTAMINATION
FIGURE: B.2.b.
PROJECT: LE REVE PATISSERIE & CAFE
LOCATION: 7600-7610 HARWOOD AVENUE, WAUWATOSA, WISCONSIN 53213
NORTH ARROW:
SCALE: 1" = 20' (0, 10, 20)
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FILENAME: S:_Environ\160131-7610 Harwood Ave. Tosa ENV\Figs-Photos\RESIDUAL SOIL CONTAM.dwg
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SHEET: GEOLOGIC CROSS-SECTION

FIGURE: B.3.a.

PROJECT: LE REVE PATISSERIE & CAFE

LOCATION: 7600-7610 HARWOOD AVENUE, WAUWATOSA, WISCONSIN 53213

NORTH ARROW:

SCALE: 1" = 20' (0, 10, 20)

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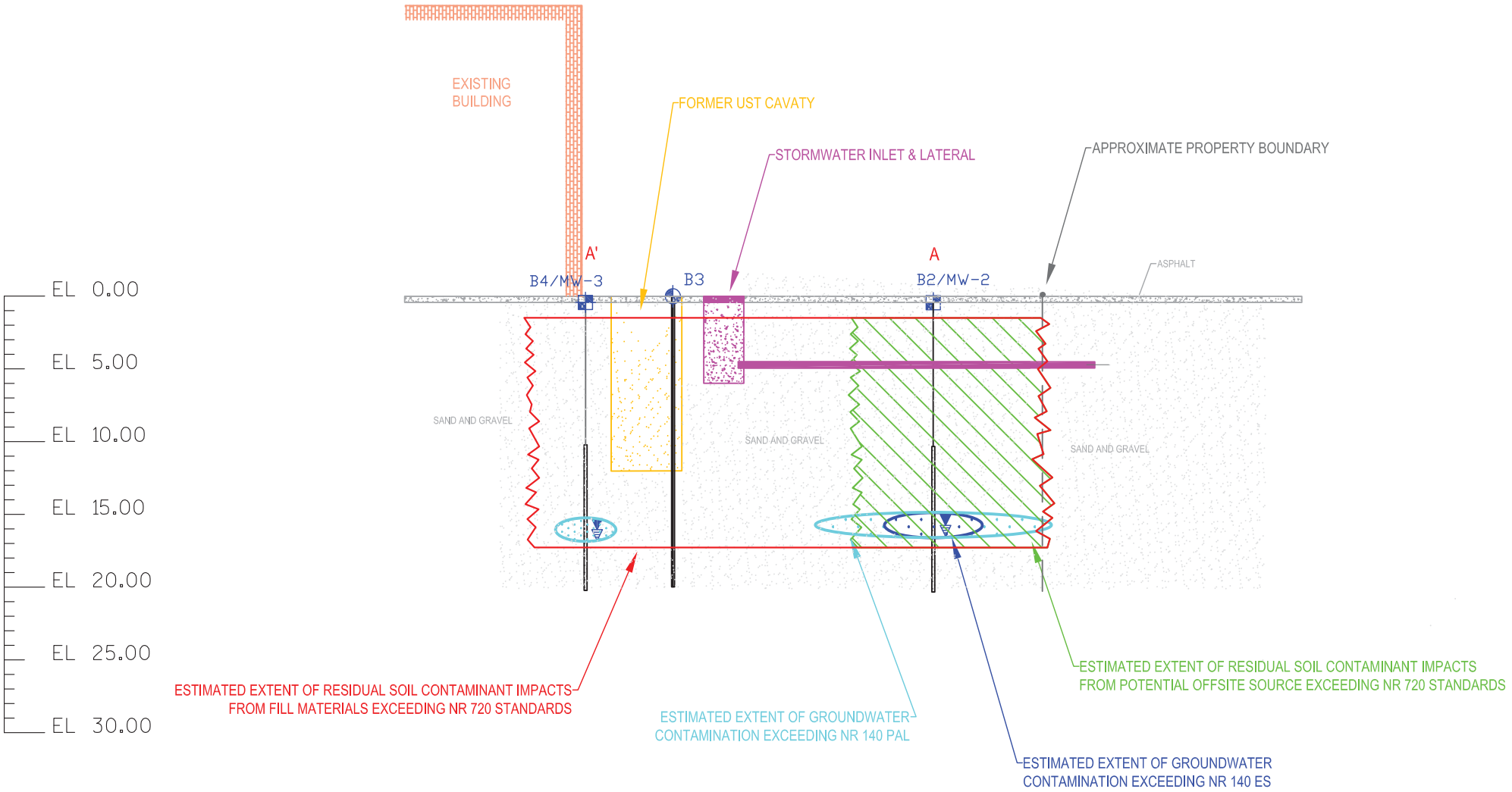
FILENAME: S:_Environ\160131-7610 Harwood Ave. Tosa ENV\Figs-Photos\X-SECTION PLAN.dwg PLOT DATE/TIME: 7/19/2016 2:13 PM PLOTTED BY: TRAVIS W. PETERSON



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SHEET: GEOLOGIC CROSS-SECTION A - A' FACING WEST

FIGURE: B.3.a.i.

PROJECT: LE REVE PATISSERIE & CAFE

LOCATION: 7600-7610 HARWOOD AVENUE, WAUWATOSA, WISCONSIN 53213

NORTH ARROW:

SCALE: 1" = 10' (0, 5, 10)

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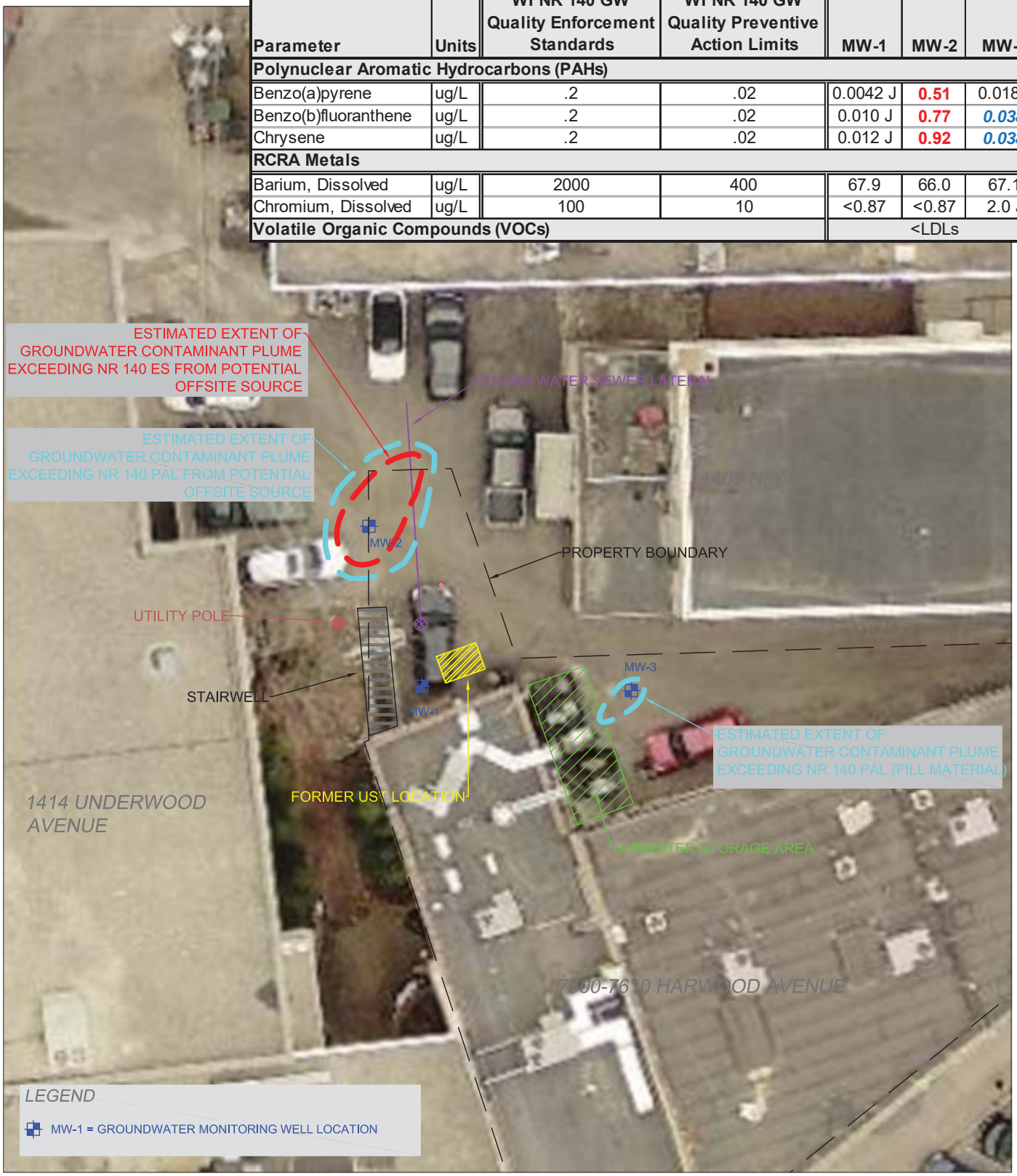
FILENAME: S:_Environ\160131-7610 Harwood Ave. Toss ENV\Figs-Photos\Geologic Cross-Section A-A'.dwg

Parameter	Units	WI NR 140 GW Quality Enforcement Standards	WI NR 140 GW Quality Preventive Action Limits	MW-1	MW-2	MW-3
Polynuclear Aromatic Hydrocarbons (PAHs)						
Benzo(a)pyrene	ug/L	.2	.02	0.0042 J	**0.51**	0.018 J
Benzo(b)fluoranthene	ug/L	.2	.02	0.010 J	**0.77**	***0.038***
Chrysene	ug/L	.2	.02	0.012 J	**0.92**	***0.038***
RCRA Metals						
Barium, Dissolved	ug/L	2000	400	67.9	66.0	67.1
Chromium, Dissolved	ug/L	100	10	<0.87	<0.87	2.0 J
Volatile Organic Compounds (VOCs)				<LDLs		



KAPUR & ASSOCIATES, INC.
CONSULTING ENGINEERS
7711 N. PORT WASHINGTON ROAD
MILWAUKEE, WISCONSIN 53217
Phone: 414.351.6668 Fax: 414.351.4117
www.kapurengineers.com

SHEET: GROUNDWATER ISOCONCENTRATION
FIGURE: B.3.b.
PROJECT: LE REVE PATISSERIE & CAFE
LOCATION: 7600-7610 HARWOOD AVENUE, WAUWATOSA, WISCONSIN 53213
NORTH ARROW:
SCALE: 1" = 20' (0, 10, 20)
SEAL:
we listen. we innovate. we turn your vision into reality.

DRAWN BY:	TWP	CHECKED BY:	RAB	APPROVED BY:	TWP	PROJECT NO.	16.0131.01	DATE:	04/12/2016	REVISION DATE:	06/28/2016

FILENAME: S:_Environ\160131-7610 Harwood Ave. Tosa ENV\Figs-Photos\GW ISO.dwg
PLOT DATE/TIME: 7/19/2016 2:00 PM
PLOTTED BY: TRAVIS W. PETERSON

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SHEET: GROUNDWATER FLOW DIRECTION

FIGURE: B.3.c.

PROJECT: LE REVE PATISSERIE & CAFE

LOCATION: 7600-7610 HARWOOD AVENUE, WAUWATOSA, WISCONSIN 53213

NORTH ARROW:

SCALE: 1" = 20'
0 10 20

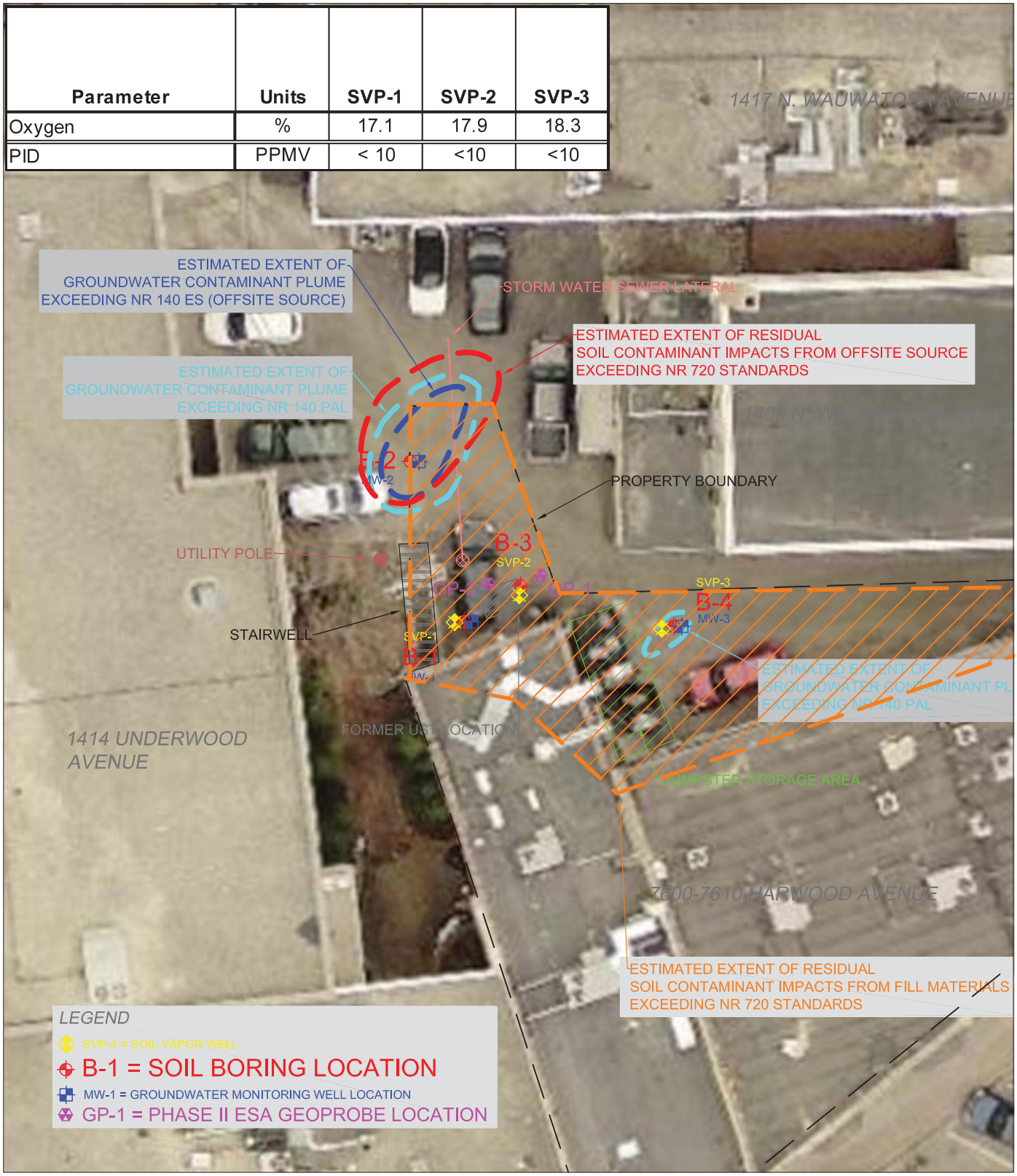
SEAL:

we listen. we innovate.
we turn your vision into reality.

DRAWN BY:	TWP	CHECKED BY:	RAB	APPROVED BY:	TWP	PROJECT NO.	16.0131.01	DATE:	04/12/2016	REVISION DATE:	06/28/2016

FILENAME: S:_Environ\160131-7610 Harwood Ave. Tosa ENV\Figs-Photos\GW FLOW.dwg PLOT DATE/TIME: 7/19/2016 1:58 PM PLOTTED BY: TRAVIS W. PETERSON

Parameter	Units	SVP-1	SVP-2	SVP-3
Oxygen	%	17.1	17.9	18.3
PID	PPMV	< 10	<10	<10



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MILWAUKEE, WISCONSIN 53217
Phone: 414.351.6668 Fax: 414.351.4117
www.kapurengineers.com

SHEET: VAPOR INTRUSION MAP

FIGURE: B.4.a.

PROJECT: LE REVE PATISSERIE & CAFE

LOCATION: 7600-7610 HARWOOD AVENUE, WAUWATOSA, WISCONSIN 53213

NORTH ARROW:

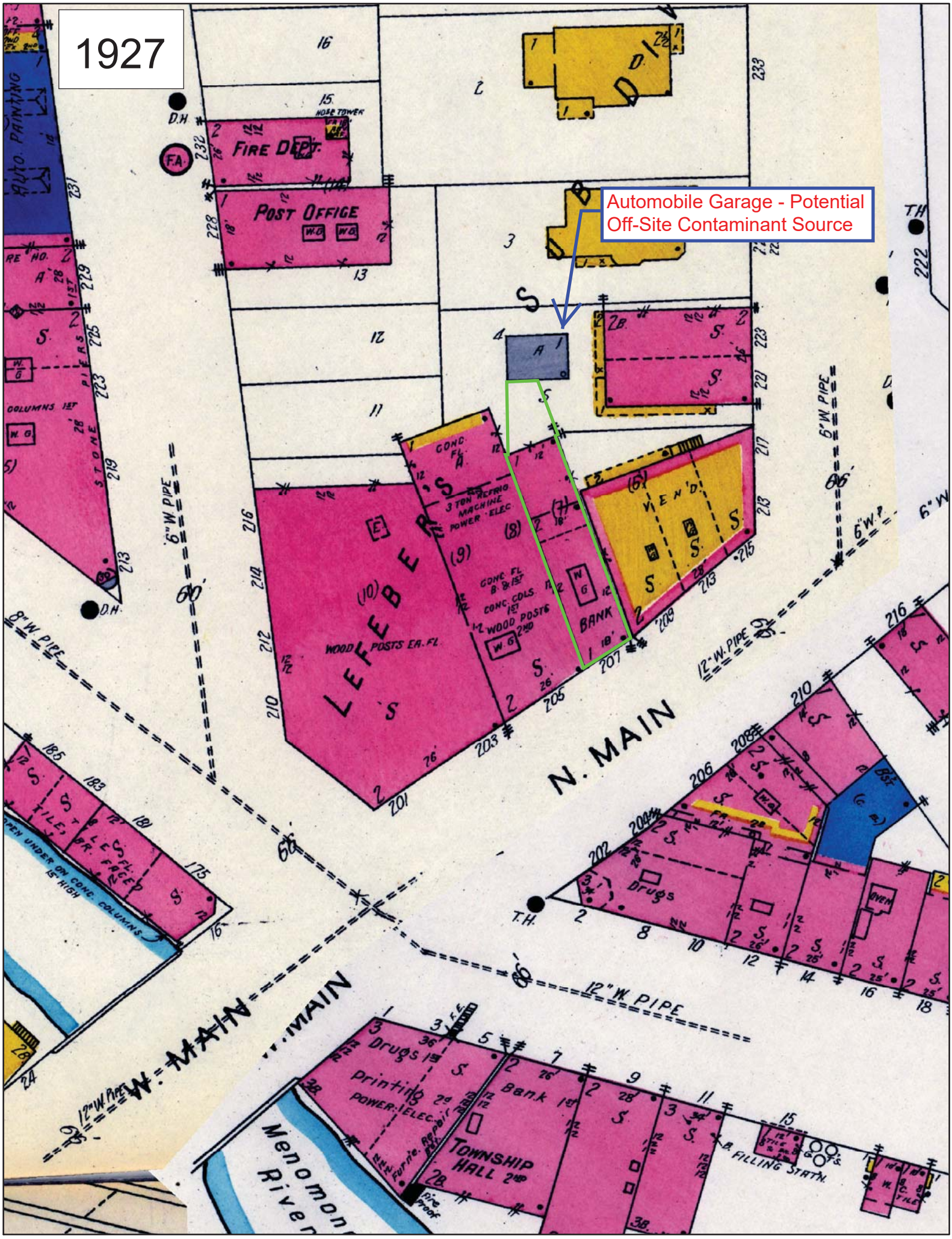
SCALE: 1" = 20' (0, 10, 20)

SEAL:

we listen. we innovate. we turn your vision into reality.

DRAWN BY:	RAB	CHECKED BY:	TWP	APPROVED BY:	TWP	PROJECT NO.	16.0131.01	DATE:	3/9/2016	REVISION DATE:	06/28/2016

FILENAME: S:_Environ\160131-7610 Harwood Ave. Tosa ENV\Figs-Photos\Vapor Intrusion Map.dwg PLOT DATE/TIME: 7/19/2016 2:16 PM PLOTTED BY: TRAVIS W. PETERSON


1927
Automobile Garage - Potential Off-Site Contaminant Source
FIRE DEPT.
POST OFFICE
LEFEBER
BANK
N. MAIN
W. MAIN
Drugs
Printing
Bank
TOWNSHIP HALL
Menomonee River
6" W. PIPE
8" W. PIPE
12" W. PIPE

TABLES

KAPUR & ASSOCIATES, INC.
CONSULTING ENGINEERS

Table A.1: Groundwater Analytical Results
Le Reve Patisserie & Café
7600-7610 W. Harwood Avenue, Wauwatosa, Wisconsin

Parameter	Units	WI NR 140 GW Quality Enforcement Standards	WI NR 140 GW Quality Preventive Action Limits	MW-1	MW-2	MW-3	TRIP
Polynuclear Aromatic Hydrocarbons (PAHs)							
1-Methylnaphthalene	ug/L			0.0029 J	0.074	0.0072 J	NA
2-Methylnaphthalene	ug/L			0.0039 J	0.087	0.014 J	
Acenaphthene	ug/L			<0.0045	0.32	<0.0045	
Acenaphthylene	ug/L			<0.0045	0.018 J	<0.0045	
Anthracene	ug/L	3000	600	<0.0037	0.85	0.0041 J	
Benzo(a)anthracene	ug/L			0.0088 J	0.67	0.020 J	
Benzo(a)pyrene	ug/L	.2	.02	0.0042 J	**0.51**	0.018 J	
Benzo(b)fluoranthene	ug/L	.2	.02	0.010 J	**0.77**	***0.038***	
Benzo(g,h,i)perylene	ug/L			0.0040 J	0.29	0.018 J	
Benzo(k)fluoranthene	ug/L			0.0053 J	0.42	0.019 J	
Chrysene	ug/L	.2	.02	0.012 J	**0.92**	***0.038***	
Dibenz(a,h)anthracene	ug/L			<0.0051	0.074	<0.0051	
Fluoranthene	ug/L	400	80	0.018 J	2.1	0.064	
Fluorene	ug/L	400	80	<0.0037	0.52	0.0046 J	
Indeno(1,2,3-cd)pyrene	ug/L			<0.0033	0.25	0.013 J	
Naphthalene	ug/L	100	10	0.028 J	0.23	0.0079 J	
Phenanthrene	ug/L			0.016 J	2.4	0.043 J	
Pyrene	ug/L	250	50	0.017 J	1.5	0.055	
RCRA Metals							
Barium, Dissolved	ug/L	2000	400	67.9	66.0	67.1	NA
Chromium, Dissolved	ug/L	100	10	<0.87	<0.87	2.0 J	
Volatile Organic Compounds (VOCs)				<LDLs			

NOTES: **Sample Collection Date: February 29, 2016**

Only analytes with a detection in at least one sample are shown

NA = Not Analyzed

ug/L = micrograms per Liter

LDLs = Laboratory Detection Limits

Concentrations equal to or exceeding the WI NR 140 GW Quality Enforcement Standards are **bold faced**

Concentrations equal to or exceeding the WI NR 140 GW Quality Preventive Action Limits are ***italicized***

J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

KAPUR & ASSOCIATES, INC.
CONSULTING ENGINEERS

Table A.2: Soil Analytical Results
Le Reve Patisserie & Café
7600-7610 W. Harwood Avenue, Wauwatosa, Wisconsin

Parameter	Units	WI NR 720 Soil to Groundwater Pathway	WI NR 720 Soil Cleanup Standards Direct Contact Industrial	WI NR 720 Soil Cleanup Standards Direct Contact Non-Industrial	B1 (2-4)	B1 (6-8)	B1 (14-16)	B2 (2-4)	B2 (10-12)	B2 (14-16)	B3 (2-4)	B3 (10-12)	B3 (14-16)	B4 (2-4)	B4 (10-12)	B4 (14-16)	TRIP
Polynuclear Aromatic Hydrocarbons (PAHs)																	
1-Methylnaphthalene	ug/kg		53,100	15,600	<77.6	43.1	<9.1	<37.7	**18,200**	10,800 J	<384	12.1 J	24.6 J	<76.0	31.8	<8.9	
2-Methylnaphthalene	ug/kg		2,200,000	229,000	<77.6	46.1	<9.1	44.6 J	31,900	17,600	<384	13.2 J	25.1 J	<76.0	27.7	<8.9	
Acenaphthene	ug/kg		33,000,000	3,440,000	125 J	69.6	9.2 J	51.4 J	34,000	20,600	544 J	28.2	73.5	176	42.3	<8.9	
Acenaphthylene	ug/kg				<69.4	40.7	<8.1	<33.7	<6,400	<5,110	<344	14.1 J	<17.0	<68.0	12.6 J	<8.0	
Anthracene	ug/kg	198,000	100,000,000	17,200,000	384	243	29.9	171	107,000	65,100	2,560	88.4	194	450	90.1	17.0 J	
Benzo(a)anthracene	ug/kg		2,110	148	**874**	**356**	43.1	**430**	**75,900**	**48,200**	**10,900**	**225**	**384**	**757**	**167**	38.8	
Benzo(a)pyrene	ug/kg	470	211	15	***990***	**390**	**41.0**	***500***	***62,600***	***37,300***	***14,100***	**278**	**432**	***829***	**181**	**42.9**	
Benzo(b)fluoranthene	ug/kg	479	2,110.00	148	***876***	**316**	40.7	**477**	***45,500***	***30,800***	***13,200***	**248**	***494***	***592***	**175**	39.1	
Benzo(g,h,i)perylene	ug/kg				331	240	23.8	185	28,200	13,200	6,300	94.3	154	481	101	26.7	
Benzo(k)fluoranthene	ug/kg		21,100	1,480	1,020	352	33.0	558	**63,000**	**38,100**	**12,100**	285	362	751	129	36.8	NA
Chrysene	ug/kg	145	211,000	14,800	*978*	*428*	47.5	*522*	***76,500***	***50,300***	*12,000*	*262*	*440*	*866*	*201*	45.2	
Dibenz(a,h)anthracene	ug/kg		211	15	**135**	**77.8**	8.3 J	**76.4**	**11,900**	**5,450**	**2,760**	**37.1**	**59.8**	**151**	**31.1**	8.9 J	
Fluoranthene	ug/kg	88,900	22,000,000	2,290,000	2,160	1,050	106	1,060	*213,000*	*129,000*	22,000	587	1,090	2,180	541	96.1	
Fluorene	ug/kg	14,800	22,000,000	2,290,000	132 J	79.8	9.8 J	60.6 J	*61,400*	*35,300*	516 J	31.2	70.9	155	41.5	<8.9	
Indeno(1,2,3-cd)pyrene	ug/kg		2,110	148	**337**	**206**	20.9	**183**	**27,500**	**12,900**	**6,500**	93.8	**154**	**416**	87.2	23.3	
Naphthalene	ug/kg	658	26,000	5,150	87.6 J	108	10.0 J	47.5 J	***94,700***	***52,400***	<384	23.4	51.2	117 J	41.8	<40.0	
Phenanthrene	ug/kg				1,630	1,020	100	643	307,000	186,000	8,160	359	884	2,220	650	75.9	
Pyrene	ug/kg	54,100	16,500,000	1,720,000	1,770	825	80.0	822	*132,000*	*87,500*	16,900	454	864	1,830	467	77.5	
RCRA Metals																	
Arsenic	ug/kg	584	2,390	613	***9,900***	***3,900***	<3.3	***5,100***	***4,900***	***3,800***	***6,600***	***3,600***	***4,500***	<3.1	***5,300***	***4,100***	
Barium	ug/kg	165,000	100,000,000	15,300,000	89,400	29,300	17,100	47,100	31,300	33,800	*287,000*	52,400	48,600	37,000	20,400	14,000	
Cadmium	ug/kg	752	799,000	70,000	490 J	220 J	130 J	510 J	500 J	340 J	*1,000*	200 J	160 J	140 J	210 J	160 J	NA
Chromium	ug/kg	360000000			11,900	7,500	6,500	11,200	10,500	8,100	11,800	9,300	11,000	7,600	7,000	5,600	
Lead	ug/kg	27,000	800,000	400,000	*119,000*	*36,700*	13,600	*54,800*	*37,700*	*48,200*	*358,000*	*42,200*	*41,300*	9,900	11,100	6,500	
Selenium	ug/kg	520	5,110,000	391,000	<890	<780	<790	<820	<800	<790	<770	<760	*1,300*	<750	<800	<720	
Volatile Organic Compounds (VOCs)																	
Naphthalene	ug/kg	658	26,000	5,150	81.5 J	<40.0	<40.0	68.6 J	***82,900***	***96,000***	157 J	<40.0	<40.0	<40.0	<40.0	<40.0	<40
Percent Moisture	%				14.1	9.6	8.0	11.6	6.8	8.7	13.2	11.5	12.1	12.3	7.5	6.7	NA
PID	ppmv				0.8	0.7	0.9	2.2	2.7	1.2	1.2	0.5	0.5	1.5	0.6	20.8	

NOTES:
Only analytes with a detection in at least one sample are shown
(2-3) = sample depth in feet below ground surface
µg/kg = micrograms per kilogram
RCL = Residual Contaminant Level
PID - Photoionization Detector
ppmv = parts per million by volume in air
NR = Not Reported/Below Detection Limits
NA = Not Analyzed

Sample Collection Date: February 16, 2016
Concentrations equal to or exceeding the NR 720 Soil RCL Industrial Direct Contact Standards are **'boxed' outlined & in bold**
Concentrations equal to or exceeding the NR 720 Soil RCL Non-Industrial Direct Contact Standards are **bold faced**
Concentrations equal to or exceeding the NR 720 Soil RCL (via EPA RSLs) Soil to Groundwater Standards are *italicized* in red
J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

KAPUR & ASSOCIATES, INC.
CONSULTING ENGINEERS

Table A.4: Vapor Analytical Results
7600-7610 W. Harwood Avenue
Wauwatosa, Wisconsin

Parameter	Units	SVP-1	SVP-2	SVP-3
Oxygen	%	17.1	17.9	18.3
PID	PPMV	< 10	<10	<10

Date Samples Collected: February 16, 2016

PID: Photoionization Detector
PPMV: Parts Per Million by Volume

KAPUR & ASSOCIATES, INC.
CONSULTING ENGINEERS

A.6 Water Level Elevations
La Reve Patisserie & Café
7600-7610 W. Harwood Avenue, Wauwatosa, Wisconsin

Well Data					
Well ID	Date	Surface Elevation (ft MSL)	PVC Well Elevation (ft MSL)	Depth to Water (From TOC in feet bgs)	Water Elevation (ft MSL)
MW-1	February 29, 2016	672.85	*672.62*	16	656.62
MW-2	February 29, 2016	672.5	*672.24*	15.45	656.79
MW-3	February 29, 2016	672.95	*672.71*	15.9	656.81

Notes:

ft MSL = Feet above Mean Sea Level
TOC = Top of casing

APPENDICES

APPENDIX A

SITE PHOTOGRAPHS

PHOTOGRAPHIC LOG

Photo #	Date
1	02/16/16

Description

Subject Property:

Site boundaries and boring/MW locations (facing south)

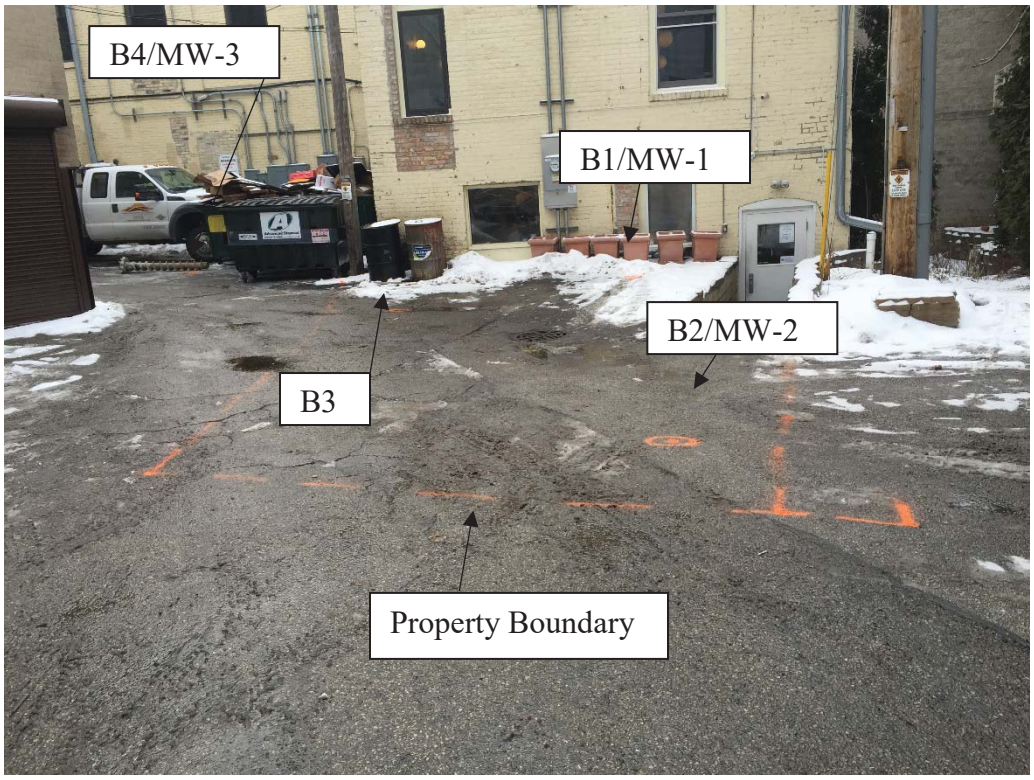
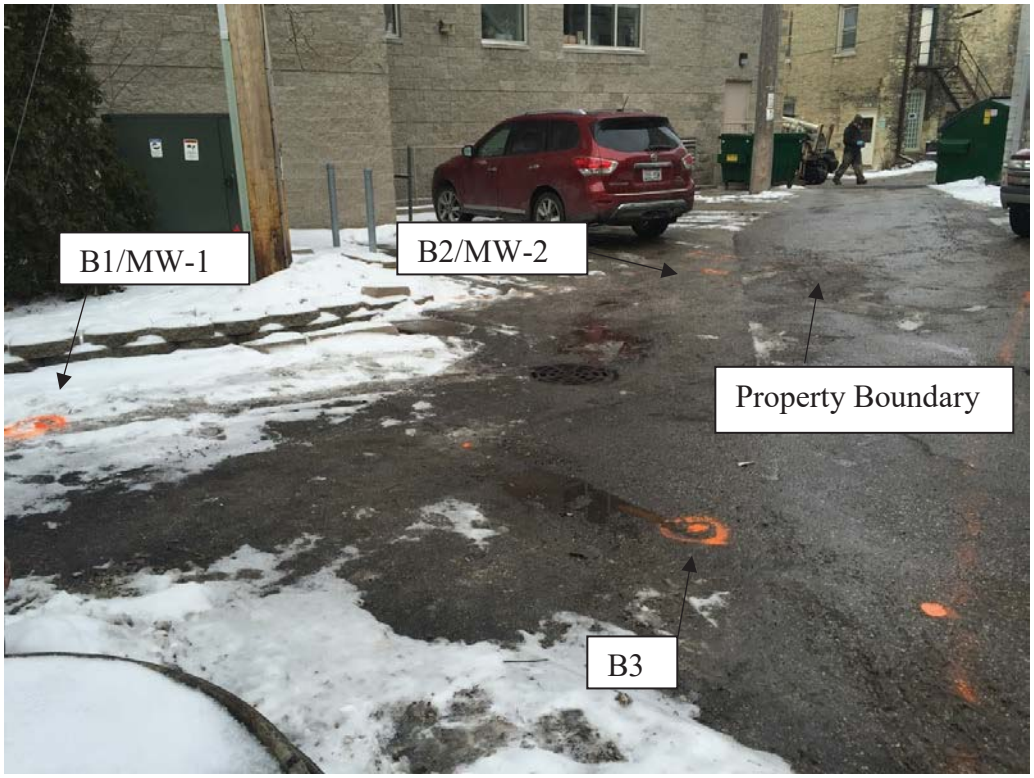


Photo #	Date
2	02/16/16

Description

Subject Property:

Site boundaries and boring/MW locations (facing northwest)



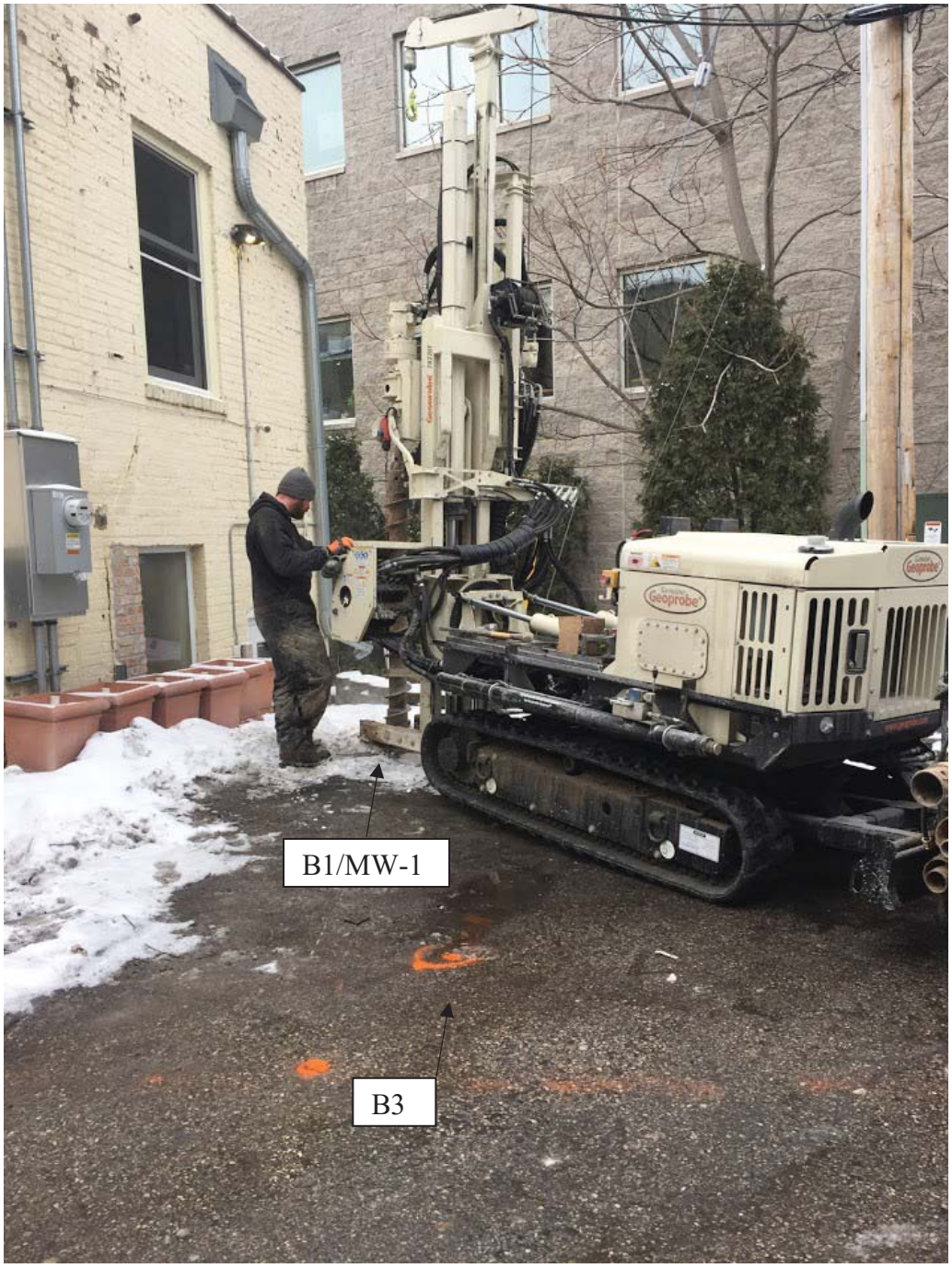
PHOTOGRAPHIC LOG

Photo #	Date
3	02/16/16

Description

Subject Property:

Typical drilling activities at B1/MW-1 (facing southwest)



PHOTOGRAPHIC LOG

Photo #	Date
4	02/16/16

Description

Subject Property:

Former tank cavity location (facing west)

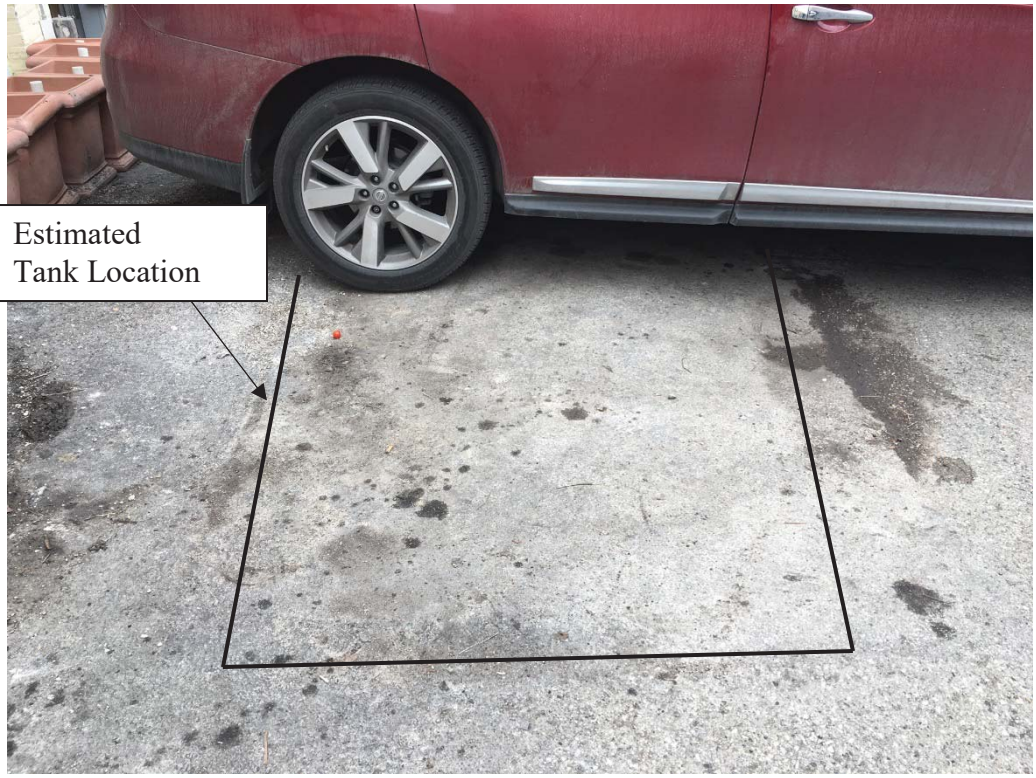


Photo #	Date
5	02/16/16

Description

Subject Property:

Location of B1/MW-1 in asphalt parking area to the north of the building (facing east)

PHOTOGRAPHIC LOG

Photo #	Date
6	02/16/16

Description

Subject Property:

View of asphalt lot on north side of subject property with B2/MW-2 visible at photo right (facing southeast)

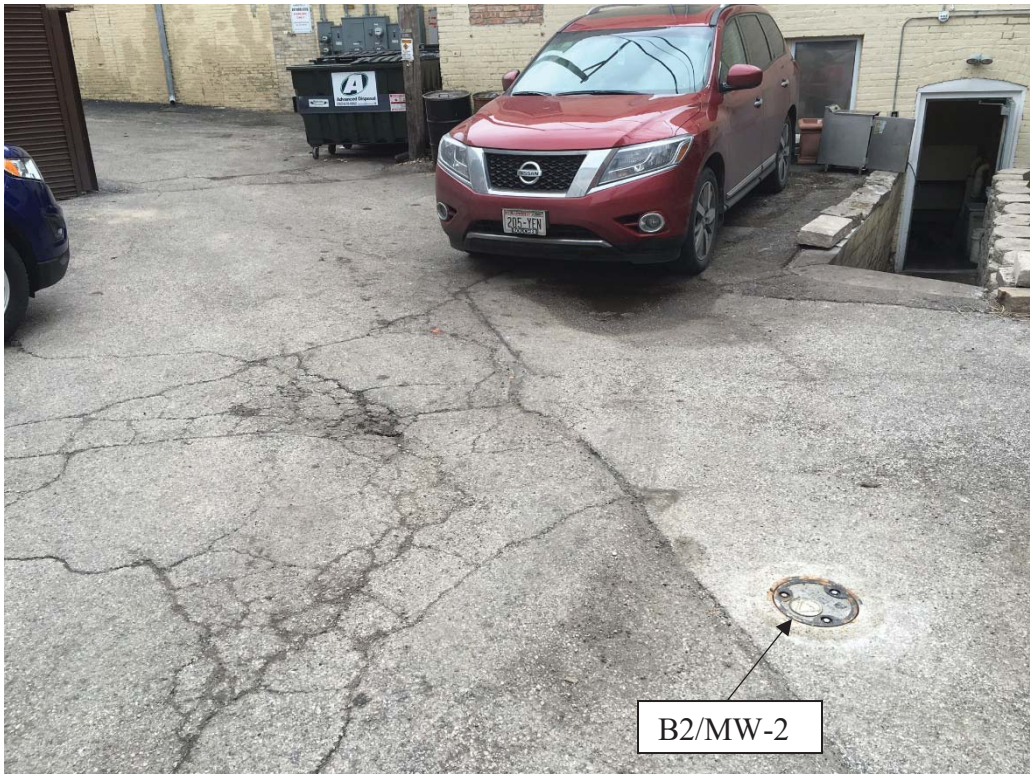


Photo #	Date
7	02/16/16

Description

Subject Property:

Location of B4/MW-3 (facing northwest)

PHOTOGRAPHIC LOG

Photo #	Date
6	02/16/16

Description

Subject Property:

Northern edge of subject property with adjoining property to the north (facing northeast)

Photo #	Date
7	02/16/16

Description

Subject Property:

Location of B2/MW-2 in reference to western adjoining property (facing southwest)

APPENDIX B

WDNR SOIL BORING LOGS & ABANDONMENT FORMS

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Harwood Avenue		B1

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Fischer Horizon Construction and Exploration	2/16/2016	2/16/2016	GeoProbe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-1	655.6 Feet MSL	672.6 Feet MSL	1.0 inches

Local Grid Origin ☒ (estimated: ☒) or Boring Location ☐
State Plane N, E S/C/N
Lat 43° 2' 59.2" Long 88° 0' 28.0"
Local Grid Location: Feet ☐ N ☐ S Feet ☐ E ☐ W
NE 1/4 of SE 1/4 of Section 21, T 7 N, R 21 E

Facility ID	County	County Code	Civil Town/City/ or Village
341270710	Milwaukee	41	Wauwatosa

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GS	24 12		0	Asphalt light brown and tan sandy gravel	GP			0						
GS	24 12		2	dark brown gravelly sand	SP			0.8						
GS	24 12		4	dark brown sand	SW			0						
				yellow sand and rock	SP									
GS	24 12		6	red and brown sand with some gravel	GP			0.7						
				gravel seam	SW									
GS	24 12		8	uniform brown sand light brown sand and fine gravel	SP			0						
GS	24 12		10					0						
			12	dark brown sand with some gravel	SP									
GS	24 12			light brown gravelly sand				0						
GS	24 24		14					0.9						
GS	2 12		16		SW		▼	0						
GS	24 12		18					0						groundwater at 17 feet
			20											END OF BORING

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Rachel Bay Firm: Kapur & Associates, Inc. 7711 N. Port Washington Rd 53217 Tel: 414-751-7200 Fax:

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Harwood Avenue		B2

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Fischer Horizon Construction and Exploration	2/16/2016	2/16/2016	GeoProbe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-2	655.2 Feet MSL	672.2 Feet MSL	1.0 inches

Local Grid Origin ☒ (estimated ☒) or Boring Location ☐
State Plane N, E S/C/N
NE 1/4 of SE 1/4 of Section 21, T 7 N, R 21 E
Lat 43° 2' 59.2" Long 88° 0' 28.0"
Local Grid Location ☐ N ☐ S Feet ☐ E ☐ W Feet

Facility ID	County	County Code	Civil Town/City/ or Village
341270710	Milwaukee	41	Wauwatosa

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GS	24 0			asphalt, wet				0						
				white sandy gravel	GP									
GS	24 6		2	uniform light brown sand	SW			0.7						
				large white gravel and rock (concrete)										
GS	24 6		4	black sand with some odor	SP			2.2						
				gray gravel seam	GP									
GS	24 12		6	uniform light brown sand	SW			0.8						
				white gravel	GW									
GS	24 12		8	uniform light brown sand, wet	SW			1.0						
GS	24 12		10					2.7						
				black sand, slight odor	SW									
GS	24 12		12	light brown gravelly sand, slight odor	SP			1.2						
GS	24 12		14					1.2						
GS	24 12		16	black sand, odor	SP		▼	7.5						groundwater at 17 feet
GS	24 12		18											
			20											END OF BORING

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel
Rachel Berg	Kapur & Associates, Inc. 7711 N. Port Washington Rd 53217	414-751-7200 Fax:

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Harwood Avenue		B3

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Fischer Horizon Construction and Exploration	2/16/2016	2/16/2016	GeoProbe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			655.7 Feet MSL	672.7 Feet MSL	1.0 inches

Local Grid Origin ☒ (estimated: ☒) or Boring Location ☐
State Plane N, E S/C/N
NE 1/4 of SE 1/4 of Section 21, T 7 N, R 21 E
Lat 43° 2' 59.2" Long 88° 0' 28.0"
Local Grid Location ☐ N ☐ S Feet ☐ E ☐ W Feet

Facility ID	County	County Code	Civil Town/City/ or Village
341270710	Milwaukee	41	Wauwatosa

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GS	24 12		0	asphalt				0						
			2	dark and light brown mixed sand with some debris (plastic) and gravel, moist	SP									
GS	24 24							1.2						
GS	24 12		4					0.6						
			6	wet, black and brown sand with some gravel, slight odor	SP									
GS	24 12			uniform light brown sand				0.8						
GS	24 12		8		SW			1.3						
GS	24 24		10	uniform light brown sand, wet	SW			0.5						
				wet gravel seam with some sand	GP									
GS	24 12		12	gravelly sand, light brown and red, slight odor				1.3						
GS	24 24		14					0.5						
GS	24 24		16		SP		▼	0.5						
GS	24		18											groundwater at 17 feet
GS			20											END OF BORING

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Rachel Beyer Firm: Kapur & Associates, Inc. 7711 N. Port Washington Rd 53217 Tel: 414-751-7200 Fax:

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Harwood Avenue		B4

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Fischer Horizon Construction and Exploration	2/16/2016	2/16/2016	GeoProbe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-3	655.7 Feet MSL	672.7 Feet MSL	1.0 inches

Local Grid Origin ☒ (estimated: ☒) or Boring Location ☐
State Plane N, E S/C/N
NE 1/4 of SE 1/4 of Section 21, T 7 N, R 21 E
Lat 43° 2' 59.2" Long 88° 0' 28.0"
Local Grid Location: Feet ☐ N ☐ S Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
341270710	Milwaukee	41	Wauwatosa

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GS	24 12		0	asphalt				0						
GS	24 24		2	uniform light brown sand	SW			1.5						
GS	24 12		4	dark brown wet clay	CL			0.7						
				uniform dark brown sand	SW									
				uniform light brown sand	SW									
GS	24 24		6	sand seam, black odor	SP			1.3						
				uniform light brown sand, odor										
GS	24 24		8					0.9						
GS	24 24		10		SW			0.9						
GS	24 24		12					0.9						
GS	24 24		14					20.8						
GS	24 24		16	gravelly sand, odor, light brown			▼							
GS	24 24		18		SP									groundwater at 17 feet
			20											END OF BORING

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Rachel Bays

Firm: Kapur & Associates, Inc.
7711 N. Port Washington Rd 53217

Tel: 414-751-7200
Fax:

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI 53707-7921
dnr.wi.gov

Well / Drillhole / Borehole Abandonment

Form 3300-005 (R 12/04) Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☐ Waste Management ☒ Remediation/Redevelopment ☐ Other _____

1. General Information

WI Unique Well No.	DNR Well ID No.	County
		Milwaukee

Common Well Name	Gov't Lot # (if applicable)
B3	

¼ / ¼	¼	Section	Township	Range
NE	SE	21	7 N	21 ☒ E ☐ W

Well Location ft / m (Local Grid ☒) Datum
_____ N/S _____ E/W _____ Zone

WTM- ☐ UTM- ☐ Latitude/Longitude - ☐ State Plane- ☐ S C N

Local Grid Origin ft / m Datum
_____ N, _____ E/W _____ Zone

WTM- ☐ UTM- ☐ Latitude/Longitude - ☐ State Plane- ☐ S C N

Reason For Abandonment	WI Unique Well No. of Replacement Well
Soil Borings Complete	

2. Facility / Owner Information

Facility Name	
Harwood Ave. Tosa	
Facility ID	**License/Permit/Monitoring No.**
341270710	
Street Address of Well	
7610 Harwood Ave, Wauwatosa, WI	
City, Village, or Town	
Wauwatosa	
Present Well Owner	**Original Well Owner**
Street Address or Route of Present Owner	
City	**State / Zip Code**

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☐ Drillhole / Borehole

Original Construction Date:

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify) _____

Formation Type: ☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Groundsurface (ft.)	Casing Diameter (in.)
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
1.0	

Was Well Annular Space Grouted? ☒ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (Feet)
	17.0

4. Pump, Liner, Screen, Casing & Sealing Material

Pump & Piping Removed?	☐ Yes	☐ No	☒ N/A
Liner(s) Removed?	☐ Yes	☐ No	☒ N/A
Screen Removed?	☐ Yes	☐ No	☒ N/A
Casing Left in Place?	☐ Yes	☒ No	☐ N/A
Was Casing Cut Off Below Surface?	☐ Yes	☒ No	☐ N/A
Did Sealing Material Rise to Surface?	☒ Yes	☐ No	☐ N/A
Did Material Settle After 24 Hours?	☐ Yes	☒ No	☐ N/A
If Yes, Was Hole Retopped?	☐ Yes	☒ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe - Gravity ☐ Conductor Pipe - Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☒ Chipped Bentonite

For monitoring wells and monitoring well boreholes only
☐ Bentonite Chips
☐ Granular Bentonite
☐ Bentonite-Cement Grout
☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

	From (Ft.)	To (Ft.)	Cubic Feet	Mix Ratio or Mud Weight
Bentonite	Surface	15.0	0.409	

6. Comments

7. Supervison of Work

Name of Person or Firm Doing Sealing Work	Date of Abandonment
Horizon Construction	2/16/16
Street or Route	**Telephone Number**
764 Tower Drive	2623772896

City	State	Zip Code	Signature of Person Doing Work	Date Signed
Fredonia	WI	53021	Rachel Berger	4/8/16

DNR Use Only

Date Received	Noted By
Comments	

WELL CONSTRUCTION &
DEVELOPMENT FORMS

Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☒ Other ☐

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Harwood Avenue	Local Grid Location of Well: ____ ft. ☐N ☐S ____ ft. ☐E ☐W	Well Name: MW-1
Facility License, Permit or Monitoring No.	Local Grid Origin ☒ (estimated: ☒) or Well Location ☐ Lat. 43° 2' 59.2" Long. 88° 0' 28.0" or St. Plane ____ ft. N. ____ ft. E. Ⓢ/C/N	Wis. Unique Well No. / DNR Well Number
Facility ID: 341270710	Section Location of Waste/Source: NE 1/4 of SE 1/4 of Sec. 21 T. 7 N. R. 21 ☒E ☐W	Date Well Installed: 02/16/2016
Type of Well: Well Code 11/mw	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Well Installed By: (Person's Name and Firm) Dan Fischer; Horizon Construction and Exploration
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☐	Gov. Lot Number	

A. Protective pipe, top elevation 672.85 ft. MSL

B. Well casing, top elevation 672.84 ft. MSL

C. Land surface elevation 672.6 ft. MSL

D. Surface seal, bottom ____ ft. MSL or ____ ft.

12. USCS classification of soil near screen:
GP ☒ GM ☐ GC ☐ GW ☐ SW ☒ SP ☒
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50; Hollow Stem Auger ☒ 41; ____ Other ☐ __

15. Drilling fluid used: Water ☐ 02 Air ☐ 01 Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☒ Yes ☐ No

Describe None

17. Source of water (attach analysis, if required):

E. Bentonite seal, top 672.6 ft. MSL or 0.0 ft.

F. Fine sand, top 671.6 ft. MSL or 1.0 ft.

G. Filter pack, top 670.6 ft. MSL or 2.0 ft.

H. Screen joint, top 662.6 ft. MSL or 10.0 ft.

I. Well bottom 652.6 ft. MSL or 20.0 ft.

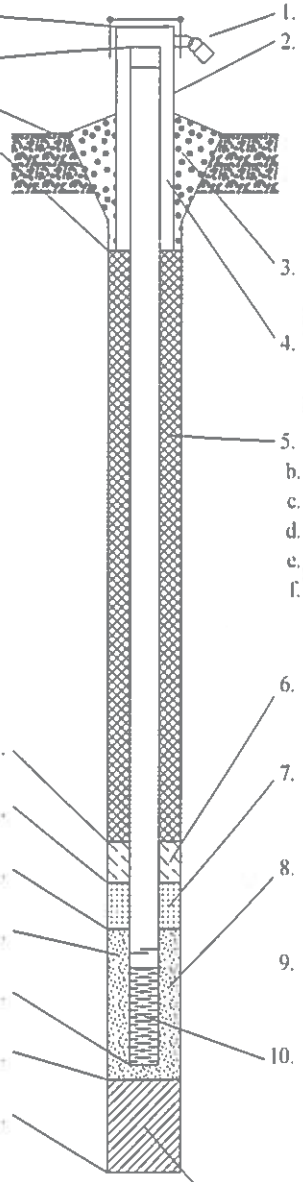
J. Filter pack, bottom 652.6 ft. MSL or 20.0 ft.

K. Borehole, bottom 652.6 ft. MSL or 20.0 ft.

L. Borehole, diameter 1.0 in.

M. O.D. well casing 2.25 in.

N. I.D. well casing 1.00 in.



1. Cap and lock? ☐ Yes ☒ No

2. Protective cover pipe:
a. Inside diameter: 8.0 in.
b. Length: 0.5 ft.
c. Material: PVC — Steel ☐ 04; Other ☒ __
d. Additional protection? ☐ Yes ☒ No
If yes, describe: ____

3. Surface seal: Bentonite ☒ 30; Concrete ☐ 01; ____ Other ☐

4. Material between well casing and protective pipe: Bentonite ☒ 30; ____ Other ☐

5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. ____ Lbs/gal mud weight ... Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight ... Bentonite slurry ☐ 31
d. ____ % Bentonite ... Bentonite-cement grout ☐ 50
e. ____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01; Tremie pumped ☐ 02; Gravity ☒ 08

6. Bentonite seal: a. Bentonite granules ☒ 33
b. ☐ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite chips ☐ 32
c. ____ Other ☐ __

7. Fine sand material: Manufacturer, product name & mesh size
a. R.W. Siltley #4000
b. Volume added 0.409 ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. R.W. Siltley 10/20
b. Volume added 0.912 ft^3

9. Well casing: Flush threaded PVC schedule 40 ☒ 23; Flush threaded PVC schedule 80 ☐ 24; ____ Other ☐ __

10. Screen material: PVC
a. Screen Type: Factory cut ☒ 11; Continuous slot ☐ 01; ____ Other ☐ __
b. Manufacturer Monoflex
c. Slot size: 0.010 in.
d. Slotted length: 10.0 ft.

11. Backfill material (below filter pack): None ☐ 14; ____ Other ☒ __

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Rahul Kapur

Firm: Kapur & Associates, Inc., 7711 N. Port Washington Rd 53217

Tel: 414-751-7200 Fax:

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☒ Other ☐

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Harwood Avenue	Local Grid Location of Well: ☐ N ____ ft. ☐ S, ☐ E ____ ft. ☐ W.	Well Name: MW-2
Facility License, Permit or Monitoring No.	Local Grid Origin ☒ (estimated: ☒) or Well Location ☐ Lat. 43° 2' 59.2" Long. 88° 0' 28.0" or St. Plane ____ ft. N, ____ ft. E. (S)/C/N	Wis. Unique Well No. / DNR Well Number
Facility ID: 341270710	Section Location of Waste/Source: NE 1/4 of SE 1/4 of Sec. 21 T. 7 N, R. 21 ☒ E ☐ W	Date Well Installed: 02/16/2016
Type of Well: Well Code 11/mw	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Well Installed By: (Person's Name and Firm): Dan Fischer; Horizon Construction and Exploration
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☐	Gov. Lot Number: ____	

A. Protective pipe, top elevation 672.50 ft. MSL

B. Well casing, top elevation 672.49 ft. MSL

C. Land surface elevation 672.2 ft. MSL

D. Surface seal, bottom ____ ft. MSL or ____ ft.

12. USCS classification of soil near screen:
GP ☒ GM ☐ GC ☐ GW ☒ SW ☒ SP ☒
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50 / Hollow Stem Auger ☒ 41 / ____ Other ☐ __

15. Drilling fluid used: Water ☐ 02 Air ☐ 01 Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☒ Yes ☐ No

Describe None

17. Source of water (attach analysis, if required):

E. Bentonite seal, top 672.2 ft. MSL or 0.0 ft.

F. Fine sand, top 671.2 ft. MSL or 1.0 ft.

G. Filter pack, top 670.2 ft. MSL or 2.0 ft.

H. Screen joint, top 662.2 ft. MSL or 10.0 ft.

I. Well bottom 652.2 ft. MSL or 20.0 ft.

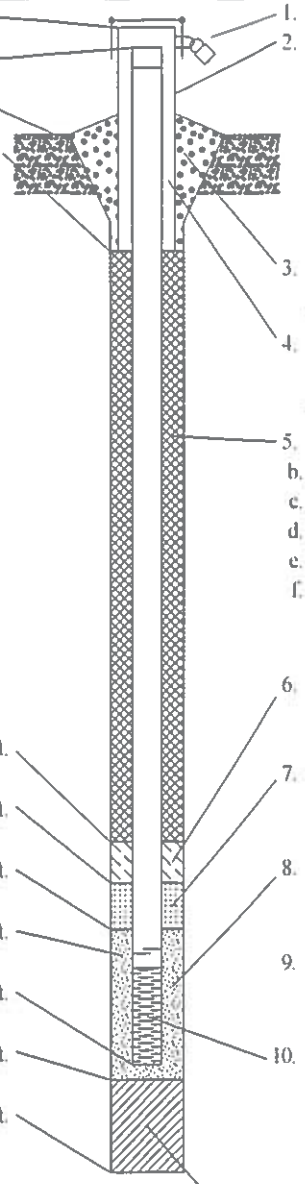
J. Filter pack, bottom 652.2 ft. MSL or 20.0 ft.

K. Borehole, bottom 652.2 ft. MSL or 20.0 ft.

L. Borehole, diameter 1.0 in.

M. O.D. well casing 2.25 in.

N. I.D. well casing 1.00 in.



1. Cap and lock? ☐ Yes ☒ No

2. Protective cover pipe:
a. Inside diameter: 8.0 in.
b. Length: 0.5 ft.
c. Material: PVC — Steel ☐ 04 / Other ☒ __
d. Additional protection? ☐ Yes ☒ No
If yes, describe: ____

3. Surface seal: Bentonite ☒ 30 / Concrete ☐ 01 / ____ Other ☐

4. Material between well casing and protective pipe: Bentonite ☒ 30 / ____ Other ☐

5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight . . . Bentonite slurry ☐ 31
d. ____ % Bentonite . . . Bentonite-cement grout ☐ 50
e. ____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☒ 08

6. Bentonite seal: a. Bentonite granules ☒ 33
b. ☐ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite chips ☐ 32
c. ____ Other ☐ __

7. Fine sand material: Manufacturer, product name & mesh size
a. R.W. Siltley #4000
b. Volume added 0.409 ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. R.W. Siltley 10/20
b. Volume added 0.912 ft^3

9. Well casing: Flush threaded PVC schedule 40 ☒ 23 / Flush threaded PVC schedule 80 ☐ 24 / ____ Other ☐ __

10. Screen material: PVC
a. Screen Type: Factory cut ☒ 11 / Continuous slot ☐ 01 / ____ Other ☐ __
b. Manufacturer Monoflex
c. Slot size: 0.010 in.
d. Slotted length: 10.0 ft.

11. Backfill material (below filter pack): None ☐ 14 / ____ Other ☒ __

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] Firm: Kapur & Associates, Inc., 7711 N. Port Washington Rd 53217 Tel: 414-751-7200 Fax:

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☒ Other ☐

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Harwood Avenue	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: MW-3
Facility License, Permit or Monitoring No.	Local Grid Origin ☒ (estimated: ☒) or Well Location ☐ Lat. 43° 2' 59.2" Long. 88° 0' 28.0" or St. Plane ____ ft. N, ____ ft. E. Ⓢ/C/N	Wis. Unique Well No. / DNR Well Number
Facility ID: 341270710	Section Location of Waste/Source: NE 1/4 of SE 1/4 of Sec. 21 T. 7 N, R. 21 ☒ E ☐ W	Date Well Installed: 02/16/2016
Type of Well: Well Code 11/mw	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Well Installed By: (Person's Name and Firm): Dan Fischer; Horizon Construction and Exploration
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☐	Gov. Lot Number: ____	

A. Protective pipe, top elevation 672.95 ft. MSL

B. Well casing, top elevation 672.94 ft. MSL

C. Land surface elevation 672.7 ft. MSL

D. Surface seal, bottom ____ ft. MSL or ____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☒
SM ☐ SC ☐ ML ☐ MH ☐ CL ☒ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50; Hollow Stem Auger ☒ 41; ____ Other ☐ __

15. Drilling fluid used: Water ☐ 02 Air ☐ 01 Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☒ Yes ☐ No

Describe None

17. Source of water (attach analysis, if required): ____

E. Bentonite seal, top 672.7 ft. MSL or 0.0 ft.

F. Fine sand, top 671.7 ft. MSL or 1.0 ft.

G. Filter pack, top 670.7 ft. MSL or 2.0 ft.

H. Screen joint, top 662.7 ft. MSL or 10.0 ft.

I. Well bottom 652.7 ft. MSL or 20.0 ft.

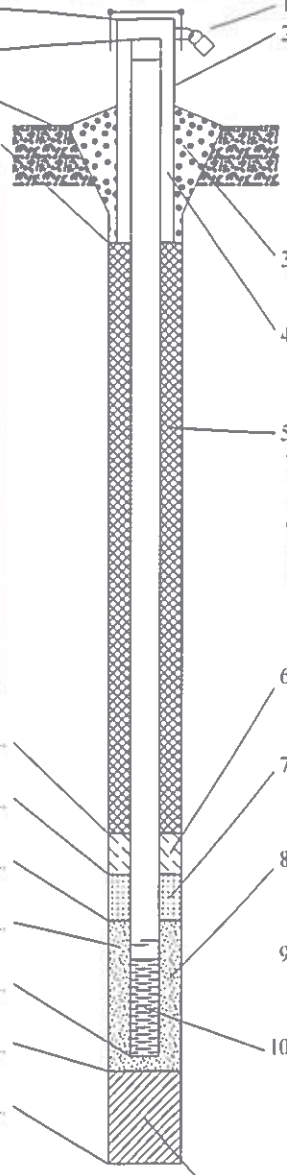
J. Filter pack, bottom 652.7 ft. MSL or 20.0 ft.

K. Borehole, bottom 652.7 ft. MSL or 20.0 ft.

L. Borehole, diameter 1.0 in.

M. O.D. well casing 2.25 in.

N. I.D. well casing 1.00 in.



1. Cap and lock? ☐ Yes ☒ No

2. Protective cover pipe:
a. Inside diameter: 8.0 in.
b. Length: 0.5 ft.
c. Material: PVC — Steel ☐ 04; Other ☒ __
d. Additional protection? ☐ Yes ☒ No
If yes, describe: ____

3. Surface seal: Bentonite ☒ 30; Concrete ☐ 01; ____ Other ☐

4. Material between well casing and protective pipe: Bentonite ☒ 30; ____ Other ☐

5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight . . . Bentonite slurry ☐ 31
d. ____ % Bentonite . . . Bentonite-cement grout ☐ 50
e. ____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01; Tremie pumped ☐ 02; Gravity ☒ 08

6. Bentonite seal: a. Bentonite granules ☒ 33
b. ☐ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite chips ☐ 32
c. ____ Other ☐ __

7. Fine sand material: Manufacturer, product name & mesh size
a. R.W. Siltley #4000
b. Volume added 0.409 ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. R.W. Siltley 10/20
b. Volume added 0.912 ft^3

9. Well casing: Flush threaded PVC schedule 40 ☒ 23; Flush threaded PVC schedule 80 ☐ 24; ____ Other ☐ __

10. Screen material: PVC
a. Screen Type: Factory cut ☒ 11; Continuous slot ☐ 01; ____ Other ☐ __
b. Manufacturer Monoflex
c. Slot size: 0.010 in.
d. Slotted length: 10.0 ft.

11. Backfill material (below filter pack): None ☐ 14; ____ Other ☒ __

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Rachel Beyer | Firm: Kapur & Associates, Inc., 7711 N. Port Washington Rd 53217 | Tel: 414-751-7200 | Fax:

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	County	Well Name
Harwood Avenue	Milwaukee	MW-1

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	41		

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method:

surged with bailer and bailed	☐	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☒	50
other _____	☐	__

3. Time spent developing well: 30 min.

4. Depth of well (from top of well casing): 19.0 ft.

5. Inside diameter of well: 1.00 in.

6. Volume of water in filter pack and well casing: gal.

7. Volume of water removed from well: 9.0 gal.

8. Volume of water added (if any): gal.

9. Source of water added: _____

10. Analysis performed on water added? ☐ Yes ☒ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing) a.	16.00 ft.	15.80 ft.
Date b.	2/29/2016	2/29/2016
Time c.	☐ a.m. 12:15 ☒ p.m.	☐ a.m. 12:45 ☒ p.m.
12. Sediment in well bottom	10.0 inches	4.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☒ 20 Turbid ☐ 25 (Describe)
14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

Fill in if drilling fluids were used and well is at solid waste facility:

16. Well developed by: Person's Name and Firm
Rachel Beyer
Kapur and Associates

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party

Name: _____

Firm: Quatre Chiens, LLC

Street: 7610 W. Harwood Ave

City/State/Zip: Wauwatosa, WI 53213

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Rachel Beyer

Print Name: Rachel Beyer

Firm: Kapur & Associates, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	County	Well Name
Harwood Avenue	Milwaukee	MW-2

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	41		

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method:

surged with bailer and bailed	☐	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☒	50
other _____	☐	__

3. Time spent developing well: 40 min.

4. Depth of well (from top of well casing): 19.2 ft.

5. Inside diameter of well: 1.00 in.

6. Volume of water in filter pack and well casing: gal.

7. Volume of water removed from well: 7.0 gal.

8. Volume of water added (if any): gal.

9. Source of water added: _____

10. Analysis performed on water added? ☐ Yes ☒ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing) a.	15.45 ft.	15.20 ft.
Date b.	2/29/2016	2/29/2016
Time c.	☐ a.m. 12:45 ☒ p.m.	☐ a.m. 01:25 ☒ p.m.
12. Sediment in well bottom	2.0 inches	2.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☒ 20 Turbid ☐ 25 (Describe)
14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

Fill in if drilling fluids were used and well is at solid waste facility:

16. Well developed by: Person's Name and Firm
Rachel Beyer
Kapur and Associates

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party

Name: _____

Firm: Quatre Chiens, LLC

Street: 7610 W. Harwood Ave

City/State/Zip: Wauwatosa, WI 53213

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Rachel Beyer

Print Name: Rachel Beyer

Firm: Kapur & Associates, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	County	Well Name
Harwood Avenue	Milwaukee	MW-3

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	41		

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method:

surged with bailer and bailed	☐	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☒	50
other _____	☐	__

3. Time spent developing well: 30 min.

4. Depth of well (from top of well casing): 19.5 ft.

5. Inside diameter of well: 1.00 in.

6. Volume of water in filter pack and well casing: gal.

7. Volume of water removed from well: 5.0 gal.

8. Volume of water added (if any): gal.

9. Source of water added: _____

10. Analysis performed on water added? ☐ Yes ☒ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing) a.	15.90 ft.	15.20 ft.
Date b.	2/29/2016	2/29/2016
Time c.	☒ a.m. 11:15 ☐ p.m.	☐ a.m. 11:45 ☒ p.m.
12. Sediment in well bottom	8.0 inches	4.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☒ 20 Turbid ☐ 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
Rachel Beyer
Kapur and Associates

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party

Name: _____

Firm: Quatre Chiens, LLC

Street: 7610 W. Harwood Ave

City/State/Zip: Wauwatosa, WI 53213

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Rachel Beyer

Print Name: Rachel Beyer

Firm: Kapur & Associates, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

APPENDIX C

LABORATORY ANALYTICAL REPORTS
&
CHAIN OF CUSTODY

SOIL

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

March 04, 2016

Travis Peterson
Kapur & Associates, Inc.
7711 N. Port Washington Road
Milwaukee, WI 53217

RE: Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Dear Travis Peterson:
Enclosed are the analytical results for sample(s) received by the laboratory on February 18, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Christopher Hyska

Christopher Hyska
christopher.hyska@pacelabs.com
Project Manager

Enclosures

cc: Kapur ALL, Kapur & Associates, Inc.
Nicholas Connor, Kapur & Associates, Inc.
Trish Hermann, Kapur & Associates, Inc.

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
Virginia VELAP ID: 460263
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Virginia VELAP Certification ID: 460263
Virginia VELAP ID: 460263
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40128386001	**B1 (2-4)**	Solid	02/16/16 10:22	02/18/16 09:40
40128386002	**B1 (6-8)**	Solid	02/16/16 10:29	02/18/16 09:40
40128386003	**B1 (14-16)**	Solid	02/16/16 10:40	02/18/16 09:40
40128386004	**B2 (2-4)**	Solid	02/16/16 11:07	02/18/16 09:40
40128386005	**B2 (10-12)**	Solid	02/16/16 11:15	02/18/16 09:40
40128386006	**B2 (14-16)**	Solid	02/16/16 11:19	02/18/16 09:40
40128386007	**B3 (2-4)**	Solid	02/16/16 11:43	02/18/16 09:40
40128386008	**B3 (10-12)**	Solid	02/16/16 11:50	02/18/16 09:40
40128386009	**B3 (14-16)**	Solid	02/16/16 11:54	02/18/16 09:40
40128386010	**B4 (2-4)**	Solid	02/16/16 12:19	02/18/16 09:40
40128386011	**B4 (10-12)**	Solid	02/16/16 12:25	02/18/16 09:40
40128386012	**B4 (14-16)**	Solid	02/16/16 12:25	02/18/16 09:40
40128386013	**TRIP**	Solid	02/16/16 12:30	02/18/16 09:40

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40128386001	**B1 (2-4)**	EPA 6010	DLB	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	BTH	1	PASI-G
40128386002	**B1 (6-8)**	EPA 6010	DLB	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	BTH	1	PASI-G
40128386003	**B1 (14-16)**	EPA 6010	DLB	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	BTH	1	PASI-G
40128386004	**B2 (2-4)**	EPA 6010	DLB	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	BTH	1	PASI-G
40128386005	**B2 (10-12)**	EPA 6010	DLB	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	BTH	1	PASI-G
40128386006	**B2 (14-16)**	EPA 6010	DLB	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	BTH	1	PASI-G
40128386007	**B3 (2-4)**	EPA 6010	DLB	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	BTH	1	PASI-G
40128386008	**B3 (10-12)**	EPA 6010	DLB	7	PASI-G
		EPA 7471	AJT	1	PASI-G

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	BTH	1	PASI-G
40128386009	**B3 (14-16)**	EPA 6010	DLB	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	MAM	1	PASI-G
40128386010	**B4 (2-4)**	EPA 6010	DLB	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	MAM	1	PASI-G
40128386011	**B4 (10-12)**	EPA 6010	DLB	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	MAM	1	PASI-G
40128386012	**B4 (14-16)**	EPA 6010	DLB	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	MAM	1	PASI-G
40128386013	**TRIP**	EPA 8260	SMT	64	PASI-G

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SUMMARY OF DETECTION

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40128386001	**B1 (2-4)**					
EPA 6010	Arsenic	9.9	mg/kg	2.3	03/01/16 18:02	
EPA 6010	Barium	89.4	mg/kg	0.58	03/01/16 18:02	M0
EPA 6010	Cadmium	0.49J	mg/kg	0.58	03/01/16 18:02	
EPA 6010	Chromium	11.9	mg/kg	1.2	03/01/16 18:02	
EPA 6010	Lead	119	mg/kg	1.4	03/01/16 18:02	M0
EPA 7471	Mercury	0.57	mg/kg	0.056	03/02/16 11:20	M0
EPA 8270 by SIM	Acenaphthene	125J	ug/kg	155	02/29/16 18:00	
EPA 8270 by SIM	Anthracene	384	ug/kg	155	02/29/16 18:00	
EPA 8270 by SIM	Benzo(a)anthracene	874	ug/kg	155	02/29/16 18:00	
EPA 8270 by SIM	Benzo(a)pyrene	990	ug/kg	155	02/29/16 18:00	
EPA 8270 by SIM	Benzo(b)fluoranthene	876	ug/kg	155	02/29/16 18:00	Ip
EPA 8270 by SIM	Benzo(g,h,i)perylene	331	ug/kg	155	02/29/16 18:00	
EPA 8270 by SIM	Benzo(k)fluoranthene	1020	ug/kg	155	02/29/16 18:00	Ip
EPA 8270 by SIM	Chrysene	978	ug/kg	155	02/29/16 18:00	
EPA 8270 by SIM	Dibenz(a,h)anthracene	135J	ug/kg	155	02/29/16 18:00	
EPA 8270 by SIM	Fluoranthene	2160	ug/kg	155	02/29/16 18:00	
EPA 8270 by SIM	Fluorene	132J	ug/kg	155	02/29/16 18:00	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	337	ug/kg	155	02/29/16 18:00	
EPA 8270 by SIM	Naphthalene	87.6J	ug/kg	155	02/29/16 18:00	
EPA 8270 by SIM	Phenanthrene	1630	ug/kg	155	02/29/16 18:00	
EPA 8270 by SIM	Pyrene	1770	ug/kg	155	02/29/16 18:00	
EPA 8260	Naphthalene	81.5J	ug/kg	310	02/22/16 15:35	
ASTM D2974-87	Percent Moisture	14.1	%	0.10	02/18/16 16:48	
40128386002	**B1 (6-8)**					
EPA 6010	Arsenic	3.9J	mg/kg	10.1	03/02/16 12:36	D3
EPA 6010	Barium	29.3	mg/kg	0.51	03/01/16 18:09	
EPA 6010	Cadmium	0.22J	mg/kg	0.51	03/01/16 18:09	
EPA 6010	Chromium	7.5	mg/kg	1.0	03/01/16 18:09	
EPA 6010	Lead	36.7	mg/kg	1.2	03/01/16 18:09	
EPA 7471	Mercury	0.095	mg/kg	0.010	03/02/16 09:20	
EPA 8270 by SIM	Acenaphthene	69.6	ug/kg	36.9	03/01/16 16:16	
EPA 8270 by SIM	Acenaphthylene	40.7	ug/kg	36.9	03/01/16 16:16	
EPA 8270 by SIM	Anthracene	243	ug/kg	36.9	03/01/16 16:16	
EPA 8270 by SIM	Benzo(a)anthracene	356	ug/kg	36.9	03/01/16 16:16	
EPA 8270 by SIM	Benzo(a)pyrene	390	ug/kg	36.9	03/01/16 16:16	
EPA 8270 by SIM	Benzo(b)fluoranthene	316	ug/kg	36.9	03/01/16 16:16	
EPA 8270 by SIM	Benzo(g,h,i)perylene	240	ug/kg	36.9	03/01/16 16:16	
EPA 8270 by SIM	Benzo(k)fluoranthene	352	ug/kg	36.9	03/01/16 16:16	
EPA 8270 by SIM	Chrysene	428	ug/kg	36.9	03/01/16 16:16	
EPA 8270 by SIM	Dibenz(a,h)anthracene	77.8	ug/kg	36.9	03/01/16 16:16	
EPA 8270 by SIM	Fluoranthene	1050	ug/kg	36.9	03/01/16 16:16	
EPA 8270 by SIM	Fluorene	79.8	ug/kg	36.9	03/01/16 16:16	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	206	ug/kg	36.9	03/01/16 16:16	
EPA 8270 by SIM	1-Methylnaphthalene	43.1	ug/kg	36.9	03/01/16 16:16	
EPA 8270 by SIM	2-Methylnaphthalene	46.1	ug/kg	36.9	03/01/16 16:16	
EPA 8270 by SIM	Naphthalene	108	ug/kg	36.9	03/01/16 16:16	
EPA 8270 by SIM	Phenanthrene	1020	ug/kg	36.9	03/01/16 16:16	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SUMMARY OF DETECTION

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40128386002	**B1 (6-8)**					
EPA 8270 by SIM	Pyrene	825	ug/kg	36.9	03/01/16 16:16	
ASTM D2974-87	Percent Moisture	9.6	%	0.10	02/18/16 16:48	
40128386003	**B1 (14-16)**					
EPA 6010	Barium	17.1	mg/kg	0.52	03/01/16 18:12	
EPA 6010	Cadmium	0.13J	mg/kg	0.52	03/01/16 18:12	
EPA 6010	Chromium	6.5	mg/kg	1.0	03/01/16 18:12	
EPA 6010	Lead	13.6	mg/kg	1.2	03/01/16 18:12	
EPA 7471	Mercury	0.035	mg/kg	0.010	03/02/16 09:22	
EPA 8270 by SIM	Acenaphthene	9.2J	ug/kg	18.1	03/01/16 11:16	
EPA 8270 by SIM	Anthracene	29.9	ug/kg	18.1	03/01/16 11:16	
EPA 8270 by SIM	Benzo(a)anthracene	43.1	ug/kg	18.1	03/01/16 11:16	
EPA 8270 by SIM	Benzo(a)pyrene	41.0	ug/kg	18.1	03/01/16 11:16	
EPA 8270 by SIM	Benzo(b)fluoranthene	40.7	ug/kg	18.1	03/01/16 11:16	
EPA 8270 by SIM	Benzo(g,h,i)perylene	23.8	ug/kg	18.1	03/01/16 11:16	
EPA 8270 by SIM	Benzo(k)fluoranthene	33.0	ug/kg	18.1	03/01/16 11:16	
EPA 8270 by SIM	Chrysene	47.5	ug/kg	18.1	03/01/16 11:16	
EPA 8270 by SIM	Dibenz(a,h)anthracene	8.3J	ug/kg	18.1	03/01/16 11:16	
EPA 8270 by SIM	Fluoranthene	106	ug/kg	18.1	03/01/16 11:16	
EPA 8270 by SIM	Fluorene	9.8J	ug/kg	18.1	03/01/16 11:16	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	20.9	ug/kg	18.1	03/01/16 11:16	
EPA 8270 by SIM	Naphthalene	10.0J	ug/kg	18.1	03/01/16 11:16	
EPA 8270 by SIM	Phenanthrene	100	ug/kg	18.1	03/01/16 11:16	
EPA 8270 by SIM	Pyrene	80.0	ug/kg	18.1	03/01/16 11:16	
ASTM D2974-87	Percent Moisture	8.0	%	0.10	02/18/16 16:48	
40128386004	**B2 (2-4)**					
EPA 6010	Arsenic	5.1J	mg/kg	10.6	03/02/16 12:40	D3
EPA 6010	Barium	47.1	mg/kg	0.53	03/01/16 18:14	
EPA 6010	Cadmium	0.51J	mg/kg	0.53	03/01/16 18:14	
EPA 6010	Chromium	11.2	mg/kg	1.1	03/01/16 18:14	
EPA 6010	Lead	54.8	mg/kg	1.3	03/01/16 18:14	
EPA 7471	Mercury	0.059	mg/kg	0.010	03/02/16 09:25	
EPA 8270 by SIM	Acenaphthene	51.4J	ug/kg	75.4	02/29/16 18:18	
EPA 8270 by SIM	Anthracene	171	ug/kg	75.4	02/29/16 18:18	
EPA 8270 by SIM	Benzo(a)anthracene	430	ug/kg	75.4	02/29/16 18:18	
EPA 8270 by SIM	Benzo(a)pyrene	500	ug/kg	75.4	02/29/16 18:18	
EPA 8270 by SIM	Benzo(b)fluoranthene	477	ug/kg	75.4	02/29/16 18:18	Ip
EPA 8270 by SIM	Benzo(g,h,i)perylene	185	ug/kg	75.4	02/29/16 18:18	
EPA 8270 by SIM	Benzo(k)fluoranthene	558	ug/kg	75.4	02/29/16 18:18	Ip
EPA 8270 by SIM	Chrysene	522	ug/kg	75.4	02/29/16 18:18	
EPA 8270 by SIM	Dibenz(a,h)anthracene	76.4	ug/kg	75.4	02/29/16 18:18	
EPA 8270 by SIM	Fluoranthene	1060	ug/kg	75.4	02/29/16 18:18	
EPA 8270 by SIM	Fluorene	60.6J	ug/kg	75.4	02/29/16 18:18	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	183	ug/kg	75.4	02/29/16 18:18	
EPA 8270 by SIM	2-Methylnaphthalene	44.6J	ug/kg	75.4	02/29/16 18:18	
EPA 8270 by SIM	Naphthalene	47.5J	ug/kg	75.4	02/29/16 18:18	
EPA 8270 by SIM	Phenanthrene	643	ug/kg	75.4	02/29/16 18:18	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SUMMARY OF DETECTION

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40128386004	**B2 (2-4)**					
EPA 8270 by SIM	Pyrene	822	ug/kg	75.4	02/29/16 18:18	
EPA 8260	Naphthalene	68.6J	ug/kg	283	02/22/16 19:42	
ASTM D2974-87	Percent Moisture	11.6	%	0.10	02/18/16 16:49	
40128386005	**B2 (10-12)**					
EPA 6010	Arsenic	4.9J	mg/kg	10.4	03/02/16 12:43	D3
EPA 6010	Barium	31.3	mg/kg	0.52	03/01/16 18:17	
EPA 6010	Cadmium	0.50J	mg/kg	0.52	03/01/16 18:17	
EPA 6010	Chromium	10.5	mg/kg	1.0	03/01/16 18:17	
EPA 6010	Lead	37.7	mg/kg	1.3	03/01/16 18:17	
EPA 7471	Mercury	0.12	mg/kg	0.0098	03/02/16 09:27	
EPA 8270 by SIM	Acenaphthene	34000	ug/kg	14300	03/01/16 10:51	
EPA 8270 by SIM	Anthracene	107000	ug/kg	14300	03/01/16 10:51	
EPA 8270 by SIM	Benzo(a)anthracene	75900	ug/kg	14300	03/01/16 10:51	
EPA 8270 by SIM	Benzo(a)pyrene	62600	ug/kg	14300	03/01/16 10:51	
EPA 8270 by SIM	Benzo(b)fluoranthene	45500	ug/kg	14300	03/01/16 10:51	
EPA 8270 by SIM	Benzo(g,h,i)perylene	28200	ug/kg	14300	03/01/16 10:51	
EPA 8270 by SIM	Benzo(k)fluoranthene	63000	ug/kg	14300	03/01/16 10:51	
EPA 8270 by SIM	Chrysene	76500	ug/kg	14300	03/01/16 10:51	
EPA 8270 by SIM	Dibenz(a,h)anthracene	11900J	ug/kg	14300	03/01/16 10:51	
EPA 8270 by SIM	Fluoranthene	213000	ug/kg	14300	03/01/16 10:51	
EPA 8270 by SIM	Fluorene	61400	ug/kg	14300	03/01/16 10:51	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	27500	ug/kg	14300	03/01/16 10:51	
EPA 8270 by SIM	1-Methylnaphthalene	18200	ug/kg	14300	03/01/16 10:51	
EPA 8270 by SIM	2-Methylnaphthalene	31900	ug/kg	14300	03/01/16 10:51	
EPA 8270 by SIM	Naphthalene	94700	ug/kg	14300	03/01/16 10:51	
EPA 8270 by SIM	Phenanthrene	307000	ug/kg	14300	03/01/16 10:51	
EPA 8270 by SIM	Pyrene	132000	ug/kg	14300	03/01/16 10:51	
EPA 8260	Naphthalene	82900	ug/kg	3350	02/23/16 09:16	
ASTM D2974-87	Percent Moisture	6.8	%	0.10	02/18/16 16:49	
40128386006	**B2 (14-16)**					
EPA 6010	Arsenic	3.8J	mg/kg	10.3	03/02/16 12:45	D3
EPA 6010	Barium	33.8	mg/kg	0.51	03/01/16 18:19	
EPA 6010	Cadmium	0.34J	mg/kg	0.51	03/01/16 18:19	
EPA 6010	Chromium	8.1	mg/kg	1.0	03/01/16 18:19	
EPA 6010	Lead	48.2	mg/kg	1.2	03/01/16 18:19	
EPA 7471	Mercury	0.11	mg/kg	0.010	03/02/16 09:29	
EPA 8270 by SIM	Acenaphthene	20600	ug/kg	11400	03/03/16 17:17	
EPA 8270 by SIM	Anthracene	65100	ug/kg	11400	03/03/16 17:17	
EPA 8270 by SIM	Benzo(a)anthracene	48200	ug/kg	11400	03/03/16 17:17	
EPA 8270 by SIM	Benzo(a)pyrene	37300	ug/kg	11400	03/03/16 17:17	
EPA 8270 by SIM	Benzo(b)fluoranthene	30800	ug/kg	11400	03/03/16 17:17	
EPA 8270 by SIM	Benzo(g,h,i)perylene	13200	ug/kg	11400	03/03/16 17:17	
EPA 8270 by SIM	Benzo(k)fluoranthene	38100	ug/kg	11400	03/03/16 17:17	
EPA 8270 by SIM	Chrysene	50300	ug/kg	11400	03/03/16 17:17	
EPA 8270 by SIM	Dibenz(a,h)anthracene	5450J	ug/kg	11400	03/03/16 17:17	
EPA 8270 by SIM	Fluoranthene	129000	ug/kg	11400	03/03/16 17:17	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
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(920)469-2436

SUMMARY OF DETECTION

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40128386006	**B2 (14-16)**					
EPA 8270 by SIM	Fluorene	35300	ug/kg	11400	03/03/16 17:17	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	12900	ug/kg	11400	03/03/16 17:17	
EPA 8270 by SIM	1-Methylnaphthalene	10800J	ug/kg	11400	03/03/16 17:17	
EPA 8270 by SIM	2-Methylnaphthalene	17600	ug/kg	11400	03/03/16 17:17	
EPA 8270 by SIM	Naphthalene	52400	ug/kg	11400	03/03/16 17:17	
EPA 8270 by SIM	Phenanthrene	186000	ug/kg	11400	03/03/16 17:17	
EPA 8270 by SIM	Pyrene	87500	ug/kg	11400	03/03/16 17:17	
EPA 8260	Naphthalene	96000	ug/kg	3420	02/23/16 09:39	
ASTM D2974-87	Percent Moisture	8.7	%	0.10	02/18/16 16:49	
40128386007	**B3 (2-4)**					
EPA 6010	Arsenic	6.6	mg/kg	2.0	03/01/16 18:22	
EPA 6010	Barium	287	mg/kg	0.50	03/01/16 18:22	
EPA 6010	Cadmium	1.0	mg/kg	0.50	03/01/16 18:22	
EPA 6010	Chromium	11.8	mg/kg	1.0	03/01/16 18:22	
EPA 6010	Lead	358	mg/kg	1.2	03/01/16 18:22	
EPA 7471	Mercury	0.15	mg/kg	0.011	03/02/16 09:42	
EPA 8270 by SIM	Acenaphthene	544J	ug/kg	768	03/02/16 19:19	
EPA 8270 by SIM	Anthracene	2560	ug/kg	768	03/02/16 19:19	
EPA 8270 by SIM	Benzo(a)anthracene	10900	ug/kg	768	03/02/16 19:19	
EPA 8270 by SIM	Benzo(a)pyrene	14100	ug/kg	768	03/02/16 19:19	
EPA 8270 by SIM	Benzo(b)fluoranthene	13200	ug/kg	768	03/02/16 19:19	
EPA 8270 by SIM	Benzo(g,h,i)perylene	6300	ug/kg	768	03/02/16 19:19	
EPA 8270 by SIM	Benzo(k)fluoranthene	12100	ug/kg	768	03/02/16 19:19	
EPA 8270 by SIM	Chrysene	12000	ug/kg	768	03/02/16 19:19	
EPA 8270 by SIM	Dibenz(a,h)anthracene	2760	ug/kg	768	03/02/16 19:19	
EPA 8270 by SIM	Fluoranthene	22000	ug/kg	768	03/02/16 19:19	
EPA 8270 by SIM	Fluorene	516J	ug/kg	768	03/02/16 19:19	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	6500	ug/kg	768	03/02/16 19:19	
EPA 8270 by SIM	Phenanthrene	8160	ug/kg	768	03/02/16 19:19	
EPA 8270 by SIM	Pyrene	16900	ug/kg	768	03/02/16 19:19	
EPA 8260	Naphthalene	157J	ug/kg	288	02/22/16 20:05	
ASTM D2974-87	Percent Moisture	13.2	%	0.10	02/18/16 16:49	
40128386008	**B3 (10-12)**					
EPA 6010	Arsenic	3.6J	mg/kg	9.8	03/02/16 12:48	D3
EPA 6010	Barium	52.4	mg/kg	0.49	03/01/16 18:24	
EPA 6010	Cadmium	0.20J	mg/kg	0.49	03/01/16 18:24	
EPA 6010	Chromium	9.3	mg/kg	0.98	03/01/16 18:24	
EPA 6010	Lead	42.2	mg/kg	1.2	03/01/16 18:24	
EPA 7471	Mercury	0.065	mg/kg	0.010	03/02/16 11:27	
EPA 8270 by SIM	Acenaphthene	28.2	ug/kg	18.8	02/29/16 17:43	
EPA 8270 by SIM	Acenaphthylene	14.1J	ug/kg	18.8	02/29/16 17:43	
EPA 8270 by SIM	Anthracene	88.4	ug/kg	18.8	02/29/16 17:43	
EPA 8270 by SIM	Benzo(a)anthracene	225	ug/kg	18.8	02/29/16 17:43	
EPA 8270 by SIM	Benzo(a)pyrene	278	ug/kg	18.8	02/29/16 17:43	
EPA 8270 by SIM	Benzo(b)fluoranthene	248	ug/kg	18.8	02/29/16 17:43	lp
EPA 8270 by SIM	Benzo(g,h,i)perylene	94.3	ug/kg	18.8	02/29/16 17:43	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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SUMMARY OF DETECTION

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40128386008	**B3 (10-12)**					
EPA 8270 by SIM	Benzo(k)fluoranthene	285	ug/kg	18.8	02/29/16 17:43	lp
EPA 8270 by SIM	Chrysene	262	ug/kg	18.8	02/29/16 17:43	
EPA 8270 by SIM	Dibenz(a,h)anthracene	37.1	ug/kg	18.8	02/29/16 17:43	
EPA 8270 by SIM	Fluoranthene	587	ug/kg	18.8	02/29/16 17:43	
EPA 8270 by SIM	Fluorene	31.2	ug/kg	18.8	02/29/16 17:43	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	93.8	ug/kg	18.8	02/29/16 17:43	
EPA 8270 by SIM	1-Methylnaphthalene	12.1J	ug/kg	18.8	02/29/16 17:43	
EPA 8270 by SIM	2-Methylnaphthalene	13.2J	ug/kg	18.8	02/29/16 17:43	
EPA 8270 by SIM	Naphthalene	23.4	ug/kg	18.8	02/29/16 17:43	
EPA 8270 by SIM	Phenanthrene	359	ug/kg	18.8	02/29/16 17:43	
EPA 8270 by SIM	Pyrene	454	ug/kg	18.8	02/29/16 17:43	
ASTM D2974-87	Percent Moisture	11.5	%	0.10	02/18/16 16:49	
40128386009	**B3 (14-16)**					
EPA 6010	Arsenic	4.5J	mg/kg	10.5	03/02/16 12:50	D3
EPA 6010	Barium	48.6	mg/kg	0.52	03/01/16 18:31	
EPA 6010	Cadmium	0.16J	mg/kg	0.52	03/01/16 18:31	
EPA 6010	Chromium	11.0	mg/kg	1.0	03/01/16 18:31	
EPA 6010	Lead	41.3	mg/kg	1.3	03/01/16 18:31	
EPA 6010	Selenium	1.3J	mg/kg	2.1	03/01/16 18:31	
EPA 7471	Mercury	0.11	mg/kg	0.010	03/02/16 09:47	
EPA 8270 by SIM	Acenaphthene	73.5	ug/kg	37.9	02/29/16 18:35	
EPA 8270 by SIM	Anthracene	194	ug/kg	37.9	02/29/16 18:35	
EPA 8270 by SIM	Benzo(a)anthracene	384	ug/kg	37.9	02/29/16 18:35	
EPA 8270 by SIM	Benzo(a)pyrene	432	ug/kg	37.9	02/29/16 18:35	
EPA 8270 by SIM	Benzo(b)fluoranthene	494	ug/kg	37.9	02/29/16 18:35	lp
EPA 8270 by SIM	Benzo(g,h,i)perylene	154	ug/kg	37.9	02/29/16 18:35	
EPA 8270 by SIM	Benzo(k)fluoranthene	362	ug/kg	37.9	02/29/16 18:35	lp
EPA 8270 by SIM	Chrysene	440	ug/kg	37.9	02/29/16 18:35	
EPA 8270 by SIM	Dibenz(a,h)anthracene	59.8	ug/kg	37.9	02/29/16 18:35	
EPA 8270 by SIM	Fluoranthene	1090	ug/kg	37.9	02/29/16 18:35	
EPA 8270 by SIM	Fluorene	70.9	ug/kg	37.9	02/29/16 18:35	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	154	ug/kg	37.9	02/29/16 18:35	
EPA 8270 by SIM	1-Methylnaphthalene	24.6J	ug/kg	37.9	02/29/16 18:35	
EPA 8270 by SIM	2-Methylnaphthalene	25.1J	ug/kg	37.9	02/29/16 18:35	
EPA 8270 by SIM	Naphthalene	51.2	ug/kg	37.9	02/29/16 18:35	
EPA 8270 by SIM	Phenanthrene	884	ug/kg	37.9	02/29/16 18:35	
EPA 8270 by SIM	Pyrene	864	ug/kg	37.9	02/29/16 18:35	
ASTM D2974-87	Percent Moisture	12.1	%	0.10	02/20/16 11:34	
40128386010	**B4 (2-4)**					
EPA 6010	Barium	37.0	mg/kg	0.49	03/01/16 18:33	
EPA 6010	Cadmium	0.14J	mg/kg	0.49	03/01/16 18:33	
EPA 6010	Chromium	7.6	mg/kg	0.97	03/01/16 18:33	
EPA 6010	Lead	9.9	mg/kg	1.2	03/01/16 18:33	
EPA 7471	Mercury	0.029	mg/kg	0.011	03/02/16 09:49	
EPA 8270 by SIM	Acenaphthene	176	ug/kg	152	03/01/16 10:34	
EPA 8270 by SIM	Anthracene	450	ug/kg	152	03/01/16 10:34	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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(920)469-2436

SUMMARY OF DETECTION

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40128386010	**B4 (2-4)**					
EPA 8270 by SIM	Benzo(a)anthracene	757	ug/kg	152	03/01/16 10:34	
EPA 8270 by SIM	Benzo(a)pyrene	829	ug/kg	152	03/01/16 10:34	
EPA 8270 by SIM	Benzo(b)fluoranthene	592	ug/kg	152	03/01/16 10:34	
EPA 8270 by SIM	Benzo(g,h,i)perylene	481	ug/kg	152	03/01/16 10:34	
EPA 8270 by SIM	Benzo(k)fluoranthene	751	ug/kg	152	03/01/16 10:34	
EPA 8270 by SIM	Chrysene	866	ug/kg	152	03/01/16 10:34	
EPA 8270 by SIM	Dibenz(a,h)anthracene	151J	ug/kg	152	03/01/16 10:34	
EPA 8270 by SIM	Fluoranthene	2180	ug/kg	152	03/01/16 10:34	
EPA 8270 by SIM	Fluorene	155	ug/kg	152	03/01/16 10:34	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	416	ug/kg	152	03/01/16 10:34	
EPA 8270 by SIM	Naphthalene	117J	ug/kg	152	03/01/16 10:34	
EPA 8270 by SIM	Phenanthrene	2220	ug/kg	152	03/01/16 10:34	
EPA 8270 by SIM	Pyrene	1830	ug/kg	152	03/01/16 10:34	
ASTM D2974-87	Percent Moisture	12.3	%	0.10	02/20/16 11:34	
40128386011	**B4 (10-12)**					
EPA 6010	Arsenic	5.3J	mg/kg	10.4	03/02/16 13:00	D3
EPA 6010	Barium	20.4	mg/kg	0.52	03/01/16 18:36	
EPA 6010	Cadmium	0.21J	mg/kg	0.52	03/01/16 18:36	
EPA 6010	Chromium	7.0	mg/kg	1.0	03/01/16 18:36	
EPA 6010	Lead	11.1	mg/kg	1.3	03/01/16 18:36	
EPA 7471	Mercury	0.015	mg/kg	0.010	03/02/16 09:51	
EPA 8270 by SIM	Acenaphthene	42.3	ug/kg	18.0	03/01/16 12:07	
EPA 8270 by SIM	Acenaphthylene	12.6J	ug/kg	18.0	03/01/16 12:07	
EPA 8270 by SIM	Anthracene	90.1	ug/kg	18.0	03/01/16 12:07	
EPA 8270 by SIM	Benzo(a)anthracene	167	ug/kg	18.0	03/01/16 12:07	
EPA 8270 by SIM	Benzo(a)pyrene	181	ug/kg	18.0	03/01/16 12:07	
EPA 8270 by SIM	Benzo(b)fluoranthene	175	ug/kg	18.0	03/01/16 12:07	
EPA 8270 by SIM	Benzo(g,h,i)perylene	101	ug/kg	18.0	03/01/16 12:07	
EPA 8270 by SIM	Benzo(k)fluoranthene	129	ug/kg	18.0	03/01/16 12:07	
EPA 8270 by SIM	Chrysene	201	ug/kg	18.0	03/01/16 12:07	
EPA 8270 by SIM	Dibenz(a,h)anthracene	31.1	ug/kg	18.0	03/01/16 12:07	
EPA 8270 by SIM	Fluoranthene	541	ug/kg	18.0	03/01/16 12:07	
EPA 8270 by SIM	Fluorene	41.5	ug/kg	18.0	03/01/16 12:07	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	87.2	ug/kg	18.0	03/01/16 12:07	
EPA 8270 by SIM	1-Methylnaphthalene	31.8	ug/kg	18.0	03/01/16 12:07	
EPA 8270 by SIM	2-Methylnaphthalene	27.7	ug/kg	18.0	03/01/16 12:07	
EPA 8270 by SIM	Naphthalene	41.8	ug/kg	18.0	03/01/16 12:07	
EPA 8270 by SIM	Phenanthrene	650	ug/kg	18.0	03/01/16 12:07	
EPA 8270 by SIM	Pyrene	467	ug/kg	18.0	03/01/16 12:07	
ASTM D2974-87	Percent Moisture	7.5	%	0.10	02/20/16 11:34	
40128386012	**B4 (14-16)**					
EPA 6010	Arsenic	4.1J	mg/kg	9.4	03/02/16 13:02	D3
EPA 6010	Barium	14.0	mg/kg	0.47	03/01/16 18:38	
EPA 6010	Cadmium	0.16J	mg/kg	0.47	03/01/16 18:38	
EPA 6010	Chromium	5.6	mg/kg	0.94	03/01/16 18:38	
EPA 6010	Lead	6.5	mg/kg	1.1	03/01/16 18:38	

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SUMMARY OF DETECTION

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40128386012	**B4 (14-16)**					
EPA 7471	Mercury	0.0098	mg/kg	0.0094	03/02/16 09:54	
EPA 8270 by SIM	Anthracene	17.0J	ug/kg	17.9	03/01/16 10:17	
EPA 8270 by SIM	Benzo(a)anthracene	38.8	ug/kg	17.9	03/01/16 10:17	
EPA 8270 by SIM	Benzo(a)pyrene	42.9	ug/kg	17.9	03/01/16 10:17	
EPA 8270 by SIM	Benzo(b)fluoranthene	39.1	ug/kg	17.9	03/01/16 10:17	
EPA 8270 by SIM	Benzo(g,h,i)perylene	26.7	ug/kg	17.9	03/01/16 10:17	
EPA 8270 by SIM	Benzo(k)fluoranthene	36.8	ug/kg	17.9	03/01/16 10:17	
EPA 8270 by SIM	Chrysene	45.2	ug/kg	17.9	03/01/16 10:17	
EPA 8270 by SIM	Dibenz(a,h)anthracene	8.9J	ug/kg	17.9	03/01/16 10:17	
EPA 8270 by SIM	Fluoranthene	96.1	ug/kg	17.9	03/01/16 10:17	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	23.3	ug/kg	17.9	03/01/16 10:17	
EPA 8270 by SIM	Phenanthrene	75.9	ug/kg	17.9	03/01/16 10:17	
EPA 8270 by SIM	Pyrene	77.5	ug/kg	17.9	03/01/16 10:17	
ASTM D2974-87	Percent Moisture	6.7	%	0.10	02/20/16 11:34	

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ANALYTICAL RESULTS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Sample: B1 (2-4) **Lab ID: 40128386001** Collected: 02/16/16 10:22 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**9.9**	mg/kg	2.3	0.74	1	02/25/16 08:06	03/01/16 18:02	7440-38-2	
Barium	**89.4**	mg/kg	0.58	0.14	1	02/25/16 08:06	03/01/16 18:02	7440-39-3	M0
Cadmium	**0.49J**	mg/kg	0.58	0.077	1	02/25/16 08:06	03/01/16 18:02	7440-43-9	
Chromium	**11.9**	mg/kg	1.2	0.22	1	02/25/16 08:06	03/01/16 18:02	7440-47-3	
Lead	**119**	mg/kg	1.4	0.50	1	02/25/16 08:06	03/01/16 18:02	7439-92-1	M0
Selenium	**<0.89**	mg/kg	2.3	0.89	1	02/25/16 08:06	03/01/16 18:02	7782-49-2	
Silver	**<0.32**	mg/kg	1.2	0.32	1	02/25/16 08:06	03/01/16 18:02	7440-22-4	L5
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.57**	mg/kg	0.056	0.017	5	03/01/16 10:40	03/02/16 11:20	7439-97-6	M0
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**125J**	ug/kg	155	77.6	8	02/25/16 09:21	02/29/16 18:00	83-32-9	
Acenaphthylene	**<69.4**	ug/kg	155	69.4	8	02/25/16 09:21	02/29/16 18:00	208-96-8	
Anthracene	**384**	ug/kg	155	80.5	8	02/25/16 09:21	02/29/16 18:00	120-12-7	
Benzo(a)anthracene	**874**	ug/kg	155	53.8	8	02/25/16 09:21	02/29/16 18:00	56-55-3	
Benzo(a)pyrene	**990**	ug/kg	155	55.5	8	02/25/16 09:21	02/29/16 18:00	50-32-8	
Benzo(b)fluoranthene	**876**	ug/kg	155	77.6	8	02/25/16 09:21	02/29/16 18:00	205-99-2	Ip
Benzo(g,h,i)perylene	**331**	ug/kg	155	59.1	8	02/25/16 09:21	02/29/16 18:00	191-24-2	
Benzo(k)fluoranthene	**1020**	ug/kg	155	85.9	8	02/25/16 09:21	02/29/16 18:00	207-08-9	Ip
Chrysene	**978**	ug/kg	155	71.8	8	02/25/16 09:21	02/29/16 18:00	218-01-9	
Dibenz(a,h)anthracene	**135J**	ug/kg	155	56.9	8	02/25/16 09:21	02/29/16 18:00	53-70-3	
Fluoranthene	**2160**	ug/kg	155	77.6	8	02/25/16 09:21	02/29/16 18:00	206-44-0	
Fluorene	**132J**	ug/kg	155	77.6	8	02/25/16 09:21	02/29/16 18:00	86-73-7	
Indeno(1,2,3-cd)pyrene	**337**	ug/kg	155	59.0	8	02/25/16 09:21	02/29/16 18:00	193-39-5	
1-Methylnaphthalene	**<77.6**	ug/kg	155	77.6	8	02/25/16 09:21	02/29/16 18:00	90-12-0	
2-Methylnaphthalene	**<77.6**	ug/kg	155	77.6	8	02/25/16 09:21	02/29/16 18:00	91-57-6	
Naphthalene	**87.6J**	ug/kg	155	77.6	8	02/25/16 09:21	02/29/16 18:00	91-20-3	
Phenanthrene	**1630**	ug/kg	155	77.6	8	02/25/16 09:21	02/29/16 18:00	85-01-8	
Pyrene	**1770**	ug/kg	155	77.6	8	02/25/16 09:21	02/29/16 18:00	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	43	%	26-130		8	02/25/16 09:21	02/29/16 18:00	321-60-8	
Terphenyl-d14 (S)	46	%	10-130		8	02/25/16 09:21	02/29/16 18:00	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	630-20-6	W
1,1,1-Trichloroethane	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	71-55-6	W
1,1,2,2-Tetrachloroethane	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	79-34-5	W
1,1,2-Trichloroethane	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	79-00-5	W
1,1-Dichloroethane	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	75-34-3	W
1,1-Dichloroethene	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	75-35-4	W
1,1-Dichloropropene	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	563-58-6	W
1,2,3-Trichlorobenzene	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	87-61-6	W
1,2,3-Trichloropropane	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	96-18-4	W
1,2,4-Trichlorobenzene	**<50.6**	ug/kg	266	50.6	1	02/19/16 10:00	02/22/16 15:35	120-82-1	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Sample: B1 (2-4) **Lab ID: 40128386001** Collected: 02/16/16 10:22 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,2,4-Trimethylbenzene	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	95-63-6	W
1,2-Dibromo-3-chloropropane	**<97.1**	ug/kg	266	97.1	1	02/19/16 10:00	02/22/16 15:35	96-12-8	W
1,2-Dibromoethane (EDB)	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	106-93-4	W
1,2-Dichlorobenzene	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	95-50-1	W
1,2-Dichloroethane	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	107-06-2	W
1,2-Dichloropropane	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	78-87-5	W
1,3,5-Trimethylbenzene	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	108-67-8	W
1,3-Dichlorobenzene	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	541-73-1	W
1,3-Dichloropropane	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	142-28-9	W
1,4-Dichlorobenzene	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	106-46-7	W
2,2-Dichloropropane	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	594-20-7	W
2-Chlorotoluene	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	95-49-8	W
4-Chlorotoluene	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	106-43-4	W
Benzene	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	71-43-2	W
Bromobenzene	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	108-86-1	W
Bromochloromethane	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	74-97-5	W
Bromodichloromethane	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	75-27-4	W
Bromoform	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	75-25-2	W
Bromomethane	**<74.4**	ug/kg	266	74.4	1	02/19/16 10:00	02/22/16 15:35	74-83-9	W
Carbon tetrachloride	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	56-23-5	W
Chlorobenzene	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	108-90-7	W
Chloroethane	**<71.3**	ug/kg	266	71.3	1	02/19/16 10:00	02/22/16 15:35	75-00-3	W
Chloroform	**<49.4**	ug/kg	266	49.4	1	02/19/16 10:00	02/22/16 15:35	67-66-3	W
Chloromethane	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	74-87-3	W
Dibromochloromethane	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	124-48-1	W
Dibromomethane	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	74-95-3	W
Dichlorodifluoromethane	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	75-71-8	W
Diisopropyl ether	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	108-20-3	W
Ethylbenzene	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	100-41-4	W
Hexachloro-1,3-butadiene	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	87-68-3	W
Isopropylbenzene (Cumene)	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	98-82-8	W
Methyl-tert-butyl ether	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	1634-04-4	W
Methylene Chloride	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	75-09-2	W
Naphthalene	**81.5J**	ug/kg	310	49.6	1	02/19/16 10:00	02/22/16 15:35	91-20-3	
Styrene	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	100-42-5	W
Tetrachloroethene	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	127-18-4	W
Toluene	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	108-88-3	W
Trichloroethene	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	79-01-6	W
Trichlorofluoromethane	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	75-69-4	W
Vinyl chloride	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	75-01-4	W
cis-1,2-Dichloroethene	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	156-59-2	W
cis-1,3-Dichloropropene	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	10061-01-5	W
m&p-Xylene	**<53.2**	ug/kg	128	53.2	1	02/19/16 10:00	02/22/16 15:35	179601-23-1	W
n-Butylbenzene	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	104-51-8	W
n-Propylbenzene	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	103-65-1	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Sample: B1 (2-4) **Lab ID: 40128386001** Collected: 02/16/16 10:22 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
o-Xylene	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	95-47-6	W
p-Isopropyltoluene	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	99-87-6	W
sec-Butylbenzene	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	135-98-8	W
tert-Butylbenzene	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	98-06-6	W
trans-1,2-Dichloroethene	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	156-60-5	W
trans-1,3-Dichloropropene	**<26.6**	ug/kg	63.8	26.6	1	02/19/16 10:00	02/22/16 15:35	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	117	%	49-157		1	02/19/16 10:00	02/22/16 15:35	1868-53-7	
Toluene-d8 (S)	121	%	61-148		1	02/19/16 10:00	02/22/16 15:35	2037-26-5	
4-Bromofluorobenzene (S)	112	%	53-134		1	02/19/16 10:00	02/22/16 15:35	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.1**	%	0.10	0.10	1		02/18/16 16:48		

Sample: B1 (6-8) **Lab ID: 40128386002** Collected: 02/16/16 10:29 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**3.9J**	mg/kg	10.1	3.2	5	02/25/16 08:06	03/02/16 12:36	7440-38-2	D3
Barium	**29.3**	mg/kg	0.51	0.12	1	02/25/16 08:06	03/01/16 18:09	7440-39-3	
Cadmium	**0.22J**	mg/kg	0.51	0.067	1	02/25/16 08:06	03/01/16 18:09	7440-43-9	
Chromium	**7.5**	mg/kg	1.0	0.20	1	02/25/16 08:06	03/01/16 18:09	7440-47-3	
Lead	**36.7**	mg/kg	1.2	0.44	1	02/25/16 08:06	03/01/16 18:09	7439-92-1	
Selenium	**<0.78**	mg/kg	2.0	0.78	1	02/25/16 08:06	03/01/16 18:09	7782-49-2	
Silver	**<0.28**	mg/kg	1.0	0.28	1	02/25/16 08:06	03/01/16 18:09	7440-22-4	L5
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.095**	mg/kg	0.010	0.0031	1	03/01/16 10:40	03/02/16 09:20	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**69.6**	ug/kg	36.9	18.4	2	02/25/16 09:21	03/01/16 16:16	83-32-9	
Acenaphthylene	**40.7**	ug/kg	36.9	16.5	2	02/25/16 09:21	03/01/16 16:16	208-96-8	
Anthracene	**243**	ug/kg	36.9	19.1	2	02/25/16 09:21	03/01/16 16:16	120-12-7	
Benzo(a)anthracene	**356**	ug/kg	36.9	12.8	2	02/25/16 09:21	03/01/16 16:16	56-55-3	
Benzo(a)pyrene	**390**	ug/kg	36.9	13.2	2	02/25/16 09:21	03/01/16 16:16	50-32-8	
Benzo(b)fluoranthene	**316**	ug/kg	36.9	18.4	2	02/25/16 09:21	03/01/16 16:16	205-99-2	
Benzo(g,h,i)perylene	**240**	ug/kg	36.9	14.0	2	02/25/16 09:21	03/01/16 16:16	191-24-2	
Benzo(k)fluoranthene	**352**	ug/kg	36.9	20.4	2	02/25/16 09:21	03/01/16 16:16	207-08-9	
Chrysene	**428**	ug/kg	36.9	17.0	2	02/25/16 09:21	03/01/16 16:16	218-01-9	
Dibenz(a,h)anthracene	**77.8**	ug/kg	36.9	13.5	2	02/25/16 09:21	03/01/16 16:16	53-70-3	
Fluoranthene	**1050**	ug/kg	36.9	18.4	2	02/25/16 09:21	03/01/16 16:16	206-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Sample: B1 (6-8) **Lab ID: 40128386002** Collected: 02/16/16 10:29 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Fluorene	**79.8**	ug/kg	36.9	18.4	2	02/25/16 09:21	03/01/16 16:16	86-73-7	
Indeno(1,2,3-cd)pyrene	**206**	ug/kg	36.9	14.0	2	02/25/16 09:21	03/01/16 16:16	193-39-5	
1-Methylnaphthalene	**43.1**	ug/kg	36.9	18.4	2	02/25/16 09:21	03/01/16 16:16	90-12-0	
2-Methylnaphthalene	**46.1**	ug/kg	36.9	18.4	2	02/25/16 09:21	03/01/16 16:16	91-57-6	
Naphthalene	**108**	ug/kg	36.9	18.4	2	02/25/16 09:21	03/01/16 16:16	91-20-3	
Phenanthrene	**1020**	ug/kg	36.9	18.4	2	02/25/16 09:21	03/01/16 16:16	85-01-8	
Pyrene	**825**	ug/kg	36.9	18.4	2	02/25/16 09:21	03/01/16 16:16	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	56	%	26-130		2	02/25/16 09:21	03/01/16 16:16	321-60-8	
Terphenyl-d14 (S)	66	%	10-130		2	02/25/16 09:21	03/01/16 16:16	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	75-35-4	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	563-58-6	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	87-61-6	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	96-18-4	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	02/19/16 10:00	02/22/16 15:12	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	95-63-6	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	02/19/16 10:00	02/22/16 15:12	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	02/19/16 10:00	02/22/16 15:12	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	02/19/16 10:00	02/22/16 15:12	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	02/19/16 10:00	02/22/16 15:12	67-66-3	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Sample: B1 (6-8) **Lab ID: 40128386002** Collected: 02/16/16 10:29 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	74-87-3	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	1634-04-4	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	75-09-2	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	02/19/16 10:00	02/22/16 15:12	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	100-42-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	75-01-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	156-59-2	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	02/19/16 10:00	02/22/16 15:12	179601-23-1	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	02/19/16 10:00	02/22/16 15:12	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	109	%	49-157		1	02/19/16 10:00	02/22/16 15:12	1868-53-7	
Toluene-d8 (S)	114	%	61-148		1	02/19/16 10:00	02/22/16 15:12	2037-26-5	
4-Bromofluorobenzene (S)	103	%	53-134		1	02/19/16 10:00	02/22/16 15:12	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**9.6**	%	0.10	0.10	1		02/18/16 16:48		

Sample: B1 (14-16) **Lab ID: 40128386003** Collected: 02/16/16 10:40 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**<3.3**	mg/kg	10.3	3.3	5	02/25/16 08:06	03/02/16 12:38	7440-38-2	D3

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Sample: B1 (14-16) **Lab ID: 40128386003** Collected: 02/16/16 10:40 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Barium	**17.1**	mg/kg	0.52	0.12	1	02/25/16 08:06	03/01/16 18:12	7440-39-3	
Cadmium	**0.13J**	mg/kg	0.52	0.068	1	02/25/16 08:06	03/01/16 18:12	7440-43-9	
Chromium	**6.5**	mg/kg	1.0	0.20	1	02/25/16 08:06	03/01/16 18:12	7440-47-3	
Lead	**13.6**	mg/kg	1.2	0.44	1	02/25/16 08:06	03/01/16 18:12	7439-92-1	
Selenium	**<0.79**	mg/kg	2.1	0.79	1	02/25/16 08:06	03/01/16 18:12	7782-49-2	
Silver	**<0.29**	mg/kg	1.0	0.29	1	02/25/16 08:06	03/01/16 18:12	7440-22-4	L5
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.035**	mg/kg	0.010	0.0030	1	03/01/16 10:40	03/02/16 09:22	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**9.2J**	ug/kg	18.1	9.1	1	02/25/16 09:21	03/01/16 11:16	83-32-9	
Acenaphthylene	**<8.1**	ug/kg	18.1	8.1	1	02/25/16 09:21	03/01/16 11:16	208-96-8	
Anthracene	**29.9**	ug/kg	18.1	9.4	1	02/25/16 09:21	03/01/16 11:16	120-12-7	
Benzo(a)anthracene	**43.1**	ug/kg	18.1	6.3	1	02/25/16 09:21	03/01/16 11:16	56-55-3	
Benzo(a)pyrene	**41.0**	ug/kg	18.1	6.5	1	02/25/16 09:21	03/01/16 11:16	50-32-8	
Benzo(b)fluoranthene	**40.7**	ug/kg	18.1	9.1	1	02/25/16 09:21	03/01/16 11:16	205-99-2	
Benzo(g,h,i)perylene	**23.8**	ug/kg	18.1	6.9	1	02/25/16 09:21	03/01/16 11:16	191-24-2	
Benzo(k)fluoranthene	**33.0**	ug/kg	18.1	10.0	1	02/25/16 09:21	03/01/16 11:16	207-08-9	
Chrysene	**47.5**	ug/kg	18.1	8.4	1	02/25/16 09:21	03/01/16 11:16	218-01-9	
Dibenz(a,h)anthracene	**8.3J**	ug/kg	18.1	6.6	1	02/25/16 09:21	03/01/16 11:16	53-70-3	
Fluoranthene	**106**	ug/kg	18.1	9.1	1	02/25/16 09:21	03/01/16 11:16	206-44-0	
Fluorene	**9.8J**	ug/kg	18.1	9.1	1	02/25/16 09:21	03/01/16 11:16	86-73-7	
Indeno(1,2,3-cd)pyrene	**20.9**	ug/kg	18.1	6.9	1	02/25/16 09:21	03/01/16 11:16	193-39-5	
1-Methylnaphthalene	**<9.1**	ug/kg	18.1	9.1	1	02/25/16 09:21	03/01/16 11:16	90-12-0	
2-Methylnaphthalene	**<9.1**	ug/kg	18.1	9.1	1	02/25/16 09:21	03/01/16 11:16	91-57-6	
Naphthalene	**10.0J**	ug/kg	18.1	9.1	1	02/25/16 09:21	03/01/16 11:16	91-20-3	
Phenanthrene	**100**	ug/kg	18.1	9.1	1	02/25/16 09:21	03/01/16 11:16	85-01-8	
Pyrene	**80.0**	ug/kg	18.1	9.1	1	02/25/16 09:21	03/01/16 11:16	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	56	%	26-130		1	02/25/16 09:21	03/01/16 11:16	321-60-8	
Terphenyl-d14 (S)	55	%	10-130		1	02/25/16 09:21	03/01/16 11:16	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	75-35-4	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	563-58-6	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	87-61-6	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	96-18-4	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	02/22/16 07:00	02/22/16 19:20	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	95-63-6	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Sample: B1 (14-16) **Lab ID: 40128386003** Collected: 02/16/16 10:40 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	02/22/16 07:00	02/22/16 19:20	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	02/22/16 07:00	02/22/16 19:20	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	02/22/16 07:00	02/22/16 19:20	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	02/22/16 07:00	02/22/16 19:20	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	74-87-3	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	1634-04-4	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	75-09-2	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	02/22/16 07:00	02/22/16 19:20	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	100-42-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	75-01-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	156-59-2	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	02/22/16 07:00	02/22/16 19:20	179601-23-1	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	95-47-6	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Sample: B1 (14-16) **Lab ID: 40128386003** Collected: 02/16/16 10:40 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:20	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	123	%	49-157		1	02/22/16 07:00	02/22/16 19:20	1868-53-7	
Toluene-d8 (S)	116	%	61-148		1	02/22/16 07:00	02/22/16 19:20	2037-26-5	
4-Bromofluorobenzene (S)	103	%	53-134		1	02/22/16 07:00	02/22/16 19:20	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**8.0**	%	0.10	0.10	1		02/18/16 16:48		

Sample: B2 (2-4) **Lab ID: 40128386004** Collected: 02/16/16 11:07 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**5.1J**	mg/kg	10.6	3.4	5	02/25/16 08:06	03/02/16 12:40	7440-38-2	D3
Barium	**47.1**	mg/kg	0.53	0.13	1	02/25/16 08:06	03/01/16 18:14	7440-39-3	
Cadmium	**0.51J**	mg/kg	0.53	0.070	1	02/25/16 08:06	03/01/16 18:14	7440-43-9	
Chromium	**11.2**	mg/kg	1.1	0.21	1	02/25/16 08:06	03/01/16 18:14	7440-47-3	
Lead	**54.8**	mg/kg	1.3	0.46	1	02/25/16 08:06	03/01/16 18:14	7439-92-1	
Selenium	**<0.82**	mg/kg	2.1	0.82	1	02/25/16 08:06	03/01/16 18:14	7782-49-2	
Silver	**<0.30**	mg/kg	1.1	0.30	1	02/25/16 08:06	03/01/16 18:14	7440-22-4	L5
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.059**	mg/kg	0.010	0.0031	1	03/01/16 10:40	03/02/16 09:25	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**51.4J**	ug/kg	75.4	37.7	4	02/25/16 09:21	02/29/16 18:18	83-32-9	
Acenaphthylene	**<33.7**	ug/kg	75.4	33.7	4	02/25/16 09:21	02/29/16 18:18	208-96-8	
Anthracene	**171**	ug/kg	75.4	39.1	4	02/25/16 09:21	02/29/16 18:18	120-12-7	
Benzo(a)anthracene	**430**	ug/kg	75.4	26.1	4	02/25/16 09:21	02/29/16 18:18	56-55-3	
Benzo(a)pyrene	**500**	ug/kg	75.4	27.0	4	02/25/16 09:21	02/29/16 18:18	50-32-8	
Benzo(b)fluoranthene	**477**	ug/kg	75.4	37.7	4	02/25/16 09:21	02/29/16 18:18	205-99-2	Ip
Benzo(g,h,i)perylene	**185**	ug/kg	75.4	28.7	4	02/25/16 09:21	02/29/16 18:18	191-24-2	
Benzo(k)fluoranthene	**558**	ug/kg	75.4	41.7	4	02/25/16 09:21	02/29/16 18:18	207-08-9	Ip
Chrysene	**522**	ug/kg	75.4	34.9	4	02/25/16 09:21	02/29/16 18:18	218-01-9	
Dibenz(a,h)anthracene	**76.4**	ug/kg	75.4	27.7	4	02/25/16 09:21	02/29/16 18:18	53-70-3	
Fluoranthene	**1060**	ug/kg	75.4	37.7	4	02/25/16 09:21	02/29/16 18:18	206-44-0	
Fluorene	**60.6J**	ug/kg	75.4	37.7	4	02/25/16 09:21	02/29/16 18:18	86-73-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Sample: B2 (2-4) **Lab ID: 40128386004** Collected: 02/16/16 11:07 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Indeno(1,2,3-cd)pyrene	**183**	ug/kg	75.4	28.6	4	02/25/16 09:21	02/29/16 18:18	193-39-5	
1-Methylnaphthalene	**<37.7**	ug/kg	75.4	37.7	4	02/25/16 09:21	02/29/16 18:18	90-12-0	
2-Methylnaphthalene	**44.6J**	ug/kg	75.4	37.7	4	02/25/16 09:21	02/29/16 18:18	91-57-6	
Naphthalene	**47.5J**	ug/kg	75.4	37.7	4	02/25/16 09:21	02/29/16 18:18	91-20-3	
Phenanthrene	**643**	ug/kg	75.4	37.7	4	02/25/16 09:21	02/29/16 18:18	85-01-8	
Pyrene	**822**	ug/kg	75.4	37.7	4	02/25/16 09:21	02/29/16 18:18	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	47	%	26-130		4	02/25/16 09:21	02/29/16 18:18	321-60-8	
Terphenyl-d14 (S)	47	%	10-130		4	02/25/16 09:21	02/29/16 18:18	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	75-35-4	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	563-58-6	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	87-61-6	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	96-18-4	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	02/22/16 07:00	02/22/16 19:42	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	95-63-6	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	02/22/16 07:00	02/22/16 19:42	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	02/22/16 07:00	02/22/16 19:42	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	02/22/16 07:00	02/22/16 19:42	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	02/22/16 07:00	02/22/16 19:42	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	74-87-3	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Sample: B2 (2-4) **Lab ID: 40128386004** Collected: 02/16/16 11:07 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	1634-04-4	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	75-09-2	W
Naphthalene	**68.6J**	ug/kg	283	45.3	1	02/22/16 07:00	02/22/16 19:42	91-20-3	
Styrene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	100-42-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	75-01-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	156-59-2	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	02/22/16 07:00	02/22/16 19:42	179601-23-1	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 19:42	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	113	%	49-157		1	02/22/16 07:00	02/22/16 19:42	1868-53-7	
Toluene-d8 (S)	107	%	61-148		1	02/22/16 07:00	02/22/16 19:42	2037-26-5	
4-Bromofluorobenzene (S)	94	%	53-134		1	02/22/16 07:00	02/22/16 19:42	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**11.6**	%	0.10	0.10	1		02/18/16 16:49		

Sample: B2 (10-12) **Lab ID: 40128386005** Collected: 02/16/16 11:15 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**4.9J**	mg/kg	10.4	3.3	5	02/25/16 08:06	03/02/16 12:43	7440-38-2	D3
Barium	**31.3**	mg/kg	0.52	0.12	1	02/25/16 08:06	03/01/16 18:17	7440-39-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Sample: B2 (10-12) **Lab ID: 40128386005** Collected: 02/16/16 11:15 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Cadmium	**0.50J**	mg/kg	0.52	0.069	1	02/25/16 08:06	03/01/16 18:17	7440-43-9	
Chromium	**10.5**	mg/kg	1.0	0.20	1	02/25/16 08:06	03/01/16 18:17	7440-47-3	
Lead	**37.7**	mg/kg	1.3	0.45	1	02/25/16 08:06	03/01/16 18:17	7439-92-1	
Selenium	**<0.80**	mg/kg	2.1	0.80	1	02/25/16 08:06	03/01/16 18:17	7782-49-2	
Silver	**<0.29**	mg/kg	1.0	0.29	1	02/25/16 08:06	03/01/16 18:17	7440-22-4	L5
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.12**	mg/kg	0.0098	0.0029	1	03/01/16 10:40	03/02/16 09:27	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**34000**	ug/kg	14300	7150	400	02/25/16 09:21	03/01/16 10:51	83-32-9	
Acenaphthylene	**<6400**	ug/kg	14300	6400	400	02/25/16 09:21	03/01/16 10:51	208-96-8	
Anthracene	**107000**	ug/kg	14300	7420	400	02/25/16 09:21	03/01/16 10:51	120-12-7	
Benzo(a)anthracene	**75900**	ug/kg	14300	4960	400	02/25/16 09:21	03/01/16 10:51	56-55-3	
Benzo(a)pyrene	**62600**	ug/kg	14300	5110	400	02/25/16 09:21	03/01/16 10:51	50-32-8	
Benzo(b)fluoranthene	**45500**	ug/kg	14300	7150	400	02/25/16 09:21	03/01/16 10:51	205-99-2	
Benzo(g,h,i)perylene	**28200**	ug/kg	14300	5450	400	02/25/16 09:21	03/01/16 10:51	191-24-2	
Benzo(k)fluoranthene	**63000**	ug/kg	14300	7920	400	02/25/16 09:21	03/01/16 10:51	207-08-9	
Chrysene	**76500**	ug/kg	14300	6610	400	02/25/16 09:21	03/01/16 10:51	218-01-9	
Dibenz(a,h)anthracene	**11900J**	ug/kg	14300	5250	400	02/25/16 09:21	03/01/16 10:51	53-70-3	
Fluoranthene	**213000**	ug/kg	14300	7150	400	02/25/16 09:21	03/01/16 10:51	206-44-0	
Fluorene	**61400**	ug/kg	14300	7150	400	02/25/16 09:21	03/01/16 10:51	86-73-7	
Indeno(1,2,3-cd)pyrene	**27500**	ug/kg	14300	5430	400	02/25/16 09:21	03/01/16 10:51	193-39-5	
1-Methylnaphthalene	**18200**	ug/kg	14300	7150	400	02/25/16 09:21	03/01/16 10:51	90-12-0	
2-Methylnaphthalene	**31900**	ug/kg	14300	7150	400	02/25/16 09:21	03/01/16 10:51	91-57-6	
Naphthalene	**94700**	ug/kg	14300	7150	400	02/25/16 09:21	03/01/16 10:51	91-20-3	
Phenanthrene	**307000**	ug/kg	14300	7150	400	02/25/16 09:21	03/01/16 10:51	85-01-8	
Pyrene	**132000**	ug/kg	14300	7150	400	02/25/16 09:21	03/01/16 10:51	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	0	%	26-130		400	02/25/16 09:21	03/01/16 10:51	321-60-8	S4
Terphenyl-d14 (S)	0	%	10-130		400	02/25/16 09:21	03/01/16 10:51	1718-51-0	S4
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	630-20-6	W
1,1,1-Trichloroethane	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	71-55-6	W
1,1,2,2-Tetrachloroethane	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	79-34-5	W
1,1,2-Trichloroethane	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	79-00-5	W
1,1-Dichloroethane	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	75-34-3	W
1,1-Dichloroethene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	75-35-4	W
1,1-Dichloropropene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	563-58-6	W
1,2,3-Trichlorobenzene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	87-61-6	W
1,2,3-Trichloropropane	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	96-18-4	W
1,2,4-Trichlorobenzene	**<594**	ug/kg	3120	594	12.5	02/22/16 07:00	02/23/16 09:16	120-82-1	W
1,2,4-Trimethylbenzene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	95-63-6	W
1,2-Dibromo-3-chloropropane	**<1140**	ug/kg	3120	1140	12.5	02/22/16 07:00	02/23/16 09:16	96-12-8	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Sample: B2 (10-12) **Lab ID: 40128386005** Collected: 02/16/16 11:15 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,2-Dibromoethane (EDB)	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	106-93-4	W
1,2-Dichlorobenzene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	95-50-1	W
1,2-Dichloroethane	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	107-06-2	W
1,2-Dichloropropane	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	78-87-5	W
1,3,5-Trimethylbenzene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	108-67-8	W
1,3-Dichlorobenzene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	541-73-1	W
1,3-Dichloropropane	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	142-28-9	W
1,4-Dichlorobenzene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	106-46-7	W
2,2-Dichloropropane	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	594-20-7	W
2-Chlorotoluene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	95-49-8	W
4-Chlorotoluene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	106-43-4	W
Benzene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	71-43-2	W
Bromobenzene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	108-86-1	W
Bromochloromethane	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	74-97-5	W
Bromodichloromethane	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	75-27-4	W
Bromoform	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	75-25-2	W
Bromomethane	**<874**	ug/kg	3120	874	12.5	02/22/16 07:00	02/23/16 09:16	74-83-9	W
Carbon tetrachloride	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	56-23-5	W
Chlorobenzene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	108-90-7	W
Chloroethane	**<838**	ug/kg	3120	838	12.5	02/22/16 07:00	02/23/16 09:16	75-00-3	W
Chloroform	**<581**	ug/kg	3120	581	12.5	02/22/16 07:00	02/23/16 09:16	67-66-3	W
Chloromethane	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	74-87-3	W
Dibromochloromethane	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	124-48-1	W
Dibromomethane	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	74-95-3	W
Dichlorodifluoromethane	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	75-71-8	W
Diisopropyl ether	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	108-20-3	W
Ethylbenzene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	100-41-4	W
Hexachloro-1,3-butadiene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	87-68-3	W
Isopropylbenzene (Cumene)	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	98-82-8	W
Methyl-tert-butyl ether	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	1634-04-4	W
Methylene Chloride	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	75-09-2	W
Naphthalene	**82900**	ug/kg	3350	537	12.5	02/22/16 07:00	02/23/16 09:16	91-20-3	
Styrene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	100-42-5	W
Tetrachloroethene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	127-18-4	W
Toluene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	108-88-3	W
Trichloroethene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	79-01-6	W
Trichlorofluoromethane	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	75-69-4	W
Vinyl chloride	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	75-01-4	W
cis-1,2-Dichloroethene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	156-59-2	W
cis-1,3-Dichloropropene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	10061-01-5	W
m&p-Xylene	**<625**	ug/kg	1500	625	12.5	02/22/16 07:00	02/23/16 09:16	179601-23-1	W
n-Butylbenzene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	104-51-8	W
n-Propylbenzene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	103-65-1	W
o-Xylene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	95-47-6	W
p-Isopropyltoluene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	99-87-6	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Sample: B2 (10-12) **Lab ID: 40128386005** Collected: 02/16/16 11:15 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
sec-Butylbenzene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	135-98-8	W
tert-Butylbenzene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	98-06-6	W
trans-1,2-Dichloroethene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	156-60-5	W
trans-1,3-Dichloropropene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:16	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	0	%	49-157		12.5	02/22/16 07:00	02/23/16 09:16	1868-53-7	S4
Toluene-d8 (S)	0	%	61-148		12.5	02/22/16 07:00	02/23/16 09:16	2037-26-5	S4
4-Bromofluorobenzene (S)	0	%	53-134		12.5	02/22/16 07:00	02/23/16 09:16	460-00-4	S4
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**6.8**	%	0.10	0.10	1		02/18/16 16:49		

Sample: B2 (14-16) **Lab ID: 40128386006** Collected: 02/16/16 11:19 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**3.8J**	mg/kg	10.3	3.3	5	02/25/16 08:06	03/02/16 12:45	7440-38-2	D3
Barium	**33.8**	mg/kg	0.51	0.12	1	02/25/16 08:06	03/01/16 18:19	7440-39-3	
Cadmium	**0.34J**	mg/kg	0.51	0.068	1	02/25/16 08:06	03/01/16 18:19	7440-43-9	
Chromium	**8.1**	mg/kg	1.0	0.20	1	02/25/16 08:06	03/01/16 18:19	7440-47-3	
Lead	**48.2**	mg/kg	1.2	0.44	1	02/25/16 08:06	03/01/16 18:19	7439-92-1	
Selenium	**<0.79**	mg/kg	2.1	0.79	1	02/25/16 08:06	03/01/16 18:19	7782-49-2	
Silver	**<0.29**	mg/kg	1.0	0.29	1	02/25/16 08:06	03/01/16 18:19	7440-22-4	L5
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.11**	mg/kg	0.010	0.0031	1	03/01/16 10:40	03/02/16 09:29	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**20600**	ug/kg	11400	5710	625	02/25/16 09:21	03/03/16 17:17	83-32-9	
Acenaphthylene	**<5110**	ug/kg	11400	5110	625	02/25/16 09:21	03/03/16 17:17	208-96-8	
Anthracene	**65100**	ug/kg	11400	5920	625	02/25/16 09:21	03/03/16 17:17	120-12-7	
Benzo(a)anthracene	**48200**	ug/kg	11400	3960	625	02/25/16 09:21	03/03/16 17:17	56-55-3	
Benzo(a)pyrene	**37300**	ug/kg	11400	4080	625	02/25/16 09:21	03/03/16 17:17	50-32-8	
Benzo(b)fluoranthene	**30800**	ug/kg	11400	5710	625	02/25/16 09:21	03/03/16 17:17	205-99-2	
Benzo(g,h,i)perylene	**13200**	ug/kg	11400	4350	625	02/25/16 09:21	03/03/16 17:17	191-24-2	
Benzo(k)fluoranthene	**38100**	ug/kg	11400	6320	625	02/25/16 09:21	03/03/16 17:17	207-08-9	
Chrysene	**50300**	ug/kg	11400	5280	625	02/25/16 09:21	03/03/16 17:17	218-01-9	
Dibenz(a,h)anthracene	**5450J**	ug/kg	11400	4190	625	02/25/16 09:21	03/03/16 17:17	53-70-3	
Fluoranthene	**129000**	ug/kg	11400	5710	625	02/25/16 09:21	03/03/16 17:17	206-44-0	
Fluorene	**35300**	ug/kg	11400	5710	625	02/25/16 09:21	03/03/16 17:17	86-73-7	
Indeno(1,2,3-cd)pyrene	**12900**	ug/kg	11400	4340	625	02/25/16 09:21	03/03/16 17:17	193-39-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Sample: B2 (14-16) **Lab ID: 40128386006** Collected: 02/16/16 11:19 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
1-Methylnaphthalene	**10800J**	ug/kg	11400	5710	625	02/25/16 09:21	03/03/16 17:17	90-12-0	
2-Methylnaphthalene	**17600**	ug/kg	11400	5710	625	02/25/16 09:21	03/03/16 17:17	91-57-6	
Naphthalene	**52400**	ug/kg	11400	5710	625	02/25/16 09:21	03/03/16 17:17	91-20-3	
Phenanthrene	**186000**	ug/kg	11400	5710	625	02/25/16 09:21	03/03/16 17:17	85-01-8	
Pyrene	**87500**	ug/kg	11400	5710	625	02/25/16 09:21	03/03/16 17:17	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	0	%	26-130		625	02/25/16 09:21	03/03/16 17:17	321-60-8	S4
Terphenyl-d14 (S)	0	%	10-130		625	02/25/16 09:21	03/03/16 17:17	1718-51-0	S4
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	630-20-6	W
1,1,1-Trichloroethane	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	71-55-6	W
1,1,2,2-Tetrachloroethane	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	79-34-5	W
1,1,2-Trichloroethane	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	79-00-5	W
1,1-Dichloroethane	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	75-34-3	W
1,1-Dichloroethene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	75-35-4	W
1,1-Dichloropropene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	563-58-6	W
1,2,3-Trichlorobenzene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	87-61-6	W
1,2,3-Trichloropropane	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	96-18-4	W
1,2,4-Trichlorobenzene	**<594**	ug/kg	3120	594	12.5	02/22/16 07:00	02/23/16 09:39	120-82-1	W
1,2,4-Trimethylbenzene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	95-63-6	W
1,2-Dibromo-3-chloropropane	**<1140**	ug/kg	3120	1140	12.5	02/22/16 07:00	02/23/16 09:39	96-12-8	W
1,2-Dibromoethane (EDB)	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	106-93-4	W
1,2-Dichlorobenzene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	95-50-1	W
1,2-Dichloroethane	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	107-06-2	W
1,2-Dichloropropane	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	78-87-5	W
1,3,5-Trimethylbenzene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	108-67-8	W
1,3-Dichlorobenzene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	541-73-1	W
1,3-Dichloropropane	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	142-28-9	W
1,4-Dichlorobenzene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	106-46-7	W
2,2-Dichloropropane	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	594-20-7	W
2-Chlorotoluene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	95-49-8	W
4-Chlorotoluene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	106-43-4	W
Benzene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	71-43-2	W
Bromobenzene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	108-86-1	W
Bromochloromethane	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	74-97-5	W
Bromodichloromethane	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	75-27-4	W
Bromoform	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	75-25-2	W
Bromomethane	**<874**	ug/kg	3120	874	12.5	02/22/16 07:00	02/23/16 09:39	74-83-9	W
Carbon tetrachloride	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	56-23-5	W
Chlorobenzene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	108-90-7	W
Chloroethane	**<838**	ug/kg	3120	838	12.5	02/22/16 07:00	02/23/16 09:39	75-00-3	W
Chloroform	**<581**	ug/kg	3120	581	12.5	02/22/16 07:00	02/23/16 09:39	67-66-3	W
Chloromethane	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	74-87-3	W
Dibromochloromethane	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	124-48-1	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Sample: B2 (14-16) **Lab ID: 40128386006** Collected: 02/16/16 11:19 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Dibromomethane	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	74-95-3	W
Dichlorodifluoromethane	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	75-71-8	W
Diisopropyl ether	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	108-20-3	W
Ethylbenzene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	100-41-4	W
Hexachloro-1,3-butadiene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	87-68-3	W
Isopropylbenzene (Cumene)	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	98-82-8	W
Methyl-tert-butyl ether	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	1634-04-4	W
Methylene Chloride	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	75-09-2	W
Naphthalene	**96000**	ug/kg	3420	549	12.5	02/22/16 07:00	02/23/16 09:39	91-20-3	
Styrene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	100-42-5	W
Tetrachloroethene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	127-18-4	W
Toluene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	108-88-3	W
Trichloroethene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	79-01-6	W
Trichlorofluoromethane	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	75-69-4	W
Vinyl chloride	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	75-01-4	W
cis-1,2-Dichloroethene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	156-59-2	W
cis-1,3-Dichloropropene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	10061-01-5	W
m&p-Xylene	**<625**	ug/kg	1500	625	12.5	02/22/16 07:00	02/23/16 09:39	179601-23-1	W
n-Butylbenzene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	104-51-8	W
n-Propylbenzene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	103-65-1	W
o-Xylene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	95-47-6	W
p-Isopropyltoluene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	99-87-6	W
sec-Butylbenzene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	135-98-8	W
tert-Butylbenzene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	98-06-6	W
trans-1,2-Dichloroethene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	156-60-5	W
trans-1,3-Dichloropropene	**<312**	ug/kg	750	312	12.5	02/22/16 07:00	02/23/16 09:39	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	0	%	49-157		12.5	02/22/16 07:00	02/23/16 09:39	1868-53-7	S4
Toluene-d8 (S)	0	%	61-148		12.5	02/22/16 07:00	02/23/16 09:39	2037-26-5	S4
4-Bromofluorobenzene (S)	0	%	53-134		12.5	02/22/16 07:00	02/23/16 09:39	460-00-4	S4
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**8.7**	%	0.10	0.10	1		02/18/16 16:49		

Sample: B3 (2-4) **Lab ID: 40128386007** Collected: 02/16/16 11:43 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**6.6**	mg/kg	2.0	0.63	1	02/25/16 08:06	03/01/16 18:22	7440-38-2	
Barium	**287**	mg/kg	0.50	0.12	1	02/25/16 08:06	03/01/16 18:22	7440-39-3	
Cadmium	**1.0**	mg/kg	0.50	0.066	1	02/25/16 08:06	03/01/16 18:22	7440-43-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Sample: B3 (2-4) **Lab ID: 40128386007** Collected: 02/16/16 11:43 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Chromium	**11.8**	mg/kg	1.0	0.19	1	02/25/16 08:06	03/01/16 18:22	7440-47-3	
Lead	**358**	mg/kg	1.2	0.43	1	02/25/16 08:06	03/01/16 18:22	7439-92-1	
Selenium	**<0.77**	mg/kg	2.0	0.77	1	02/25/16 08:06	03/01/16 18:22	7782-49-2	
Silver	**<0.28**	mg/kg	1.0	0.28	1	02/25/16 08:06	03/01/16 18:22	7440-22-4	L5
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.15**	mg/kg	0.011	0.0032	1	03/01/16 10:40	03/02/16 09:42	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**544J**	ug/kg	768	384	40	02/25/16 09:21	03/02/16 19:19	83-32-9	
Acenaphthylene	**<344**	ug/kg	768	344	40	02/25/16 09:21	03/02/16 19:19	208-96-8	
Anthracene	**2560**	ug/kg	768	398	40	02/25/16 09:21	03/02/16 19:19	120-12-7	
Benzo(a)anthracene	**10900**	ug/kg	768	266	40	02/25/16 09:21	03/02/16 19:19	56-55-3	
Benzo(a)pyrene	**14100**	ug/kg	768	275	40	02/25/16 09:21	03/02/16 19:19	50-32-8	
Benzo(b)fluoranthene	**13200**	ug/kg	768	384	40	02/25/16 09:21	03/02/16 19:19	205-99-2	
Benzo(g,h,i)perylene	**6300**	ug/kg	768	293	40	02/25/16 09:21	03/02/16 19:19	191-24-2	
Benzo(k)fluoranthene	**12100**	ug/kg	768	425	40	02/25/16 09:21	03/02/16 19:19	207-08-9	
Chrysene	**12000**	ug/kg	768	355	40	02/25/16 09:21	03/02/16 19:19	218-01-9	
Dibenz(a,h)anthracene	**2760**	ug/kg	768	282	40	02/25/16 09:21	03/02/16 19:19	53-70-3	
Fluoranthene	**22000**	ug/kg	768	384	40	02/25/16 09:21	03/02/16 19:19	206-44-0	
Fluorene	**516J**	ug/kg	768	384	40	02/25/16 09:21	03/02/16 19:19	86-73-7	
Indeno(1,2,3-cd)pyrene	**6500**	ug/kg	768	292	40	02/25/16 09:21	03/02/16 19:19	193-39-5	
1-Methylnaphthalene	**<384**	ug/kg	768	384	40	02/25/16 09:21	03/02/16 19:19	90-12-0	
2-Methylnaphthalene	**<384**	ug/kg	768	384	40	02/25/16 09:21	03/02/16 19:19	91-57-6	
Naphthalene	**<384**	ug/kg	768	384	40	02/25/16 09:21	03/02/16 19:19	91-20-3	
Phenanthrene	**8160**	ug/kg	768	384	40	02/25/16 09:21	03/02/16 19:19	85-01-8	
Pyrene	**16900**	ug/kg	768	384	40	02/25/16 09:21	03/02/16 19:19	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	43	%	26-130		40	02/25/16 09:21	03/02/16 19:19	321-60-8	
Terphenyl-d14 (S)	64	%	10-130		40	02/25/16 09:21	03/02/16 19:19	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	75-35-4	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	563-58-6	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	87-61-6	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	96-18-4	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	02/22/16 07:00	02/22/16 20:05	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	95-63-6	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	02/22/16 07:00	02/22/16 20:05	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	106-93-4	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Sample: B3 (2-4) **Lab ID: 40128386007** Collected: 02/16/16 11:43 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	02/22/16 07:00	02/22/16 20:05	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	02/22/16 07:00	02/22/16 20:05	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	02/22/16 07:00	02/22/16 20:05	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	74-87-3	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	1634-04-4	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	75-09-2	W
Naphthalene	**157J**	ug/kg	288	46.1	1	02/22/16 07:00	02/22/16 20:05	91-20-3	
Styrene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	100-42-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	75-01-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	156-59-2	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	02/22/16 07:00	02/22/16 20:05	179601-23-1	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	135-98-8	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Sample: B3 (2-4) **Lab ID: 40128386007** Collected: 02/16/16 11:43 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:05	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	129	%	49-157		1	02/22/16 07:00	02/22/16 20:05	1868-53-7	
Toluene-d8 (S)	131	%	61-148		1	02/22/16 07:00	02/22/16 20:05	2037-26-5	
4-Bromofluorobenzene (S)	116	%	53-134		1	02/22/16 07:00	02/22/16 20:05	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**13.2**	%	0.10	0.10	1		02/18/16 16:49		

Sample: B3 (10-12) **Lab ID: 40128386008** Collected: 02/16/16 11:50 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**3.6J**	mg/kg	9.8	3.1	5	02/25/16 08:06	03/02/16 12:48	7440-38-2	D3
Barium	**52.4**	mg/kg	0.49	0.12	1	02/25/16 08:06	03/01/16 18:24	7440-39-3	
Cadmium	**0.20J**	mg/kg	0.49	0.065	1	02/25/16 08:06	03/01/16 18:24	7440-43-9	
Chromium	**9.3**	mg/kg	0.98	0.19	1	02/25/16 08:06	03/01/16 18:24	7440-47-3	
Lead	**42.2**	mg/kg	1.2	0.42	1	02/25/16 08:06	03/01/16 18:24	7439-92-1	
Selenium	**<0.76**	mg/kg	2.0	0.76	1	02/25/16 08:06	03/01/16 18:24	7782-49-2	
Silver	**<0.27**	mg/kg	0.98	0.27	1	02/25/16 08:06	03/01/16 18:24	7440-22-4	L5
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.065**	mg/kg	0.010	0.0031	1	03/01/16 10:40	03/02/16 11:27	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**28.2**	ug/kg	18.8	9.4	1	02/25/16 09:21	02/29/16 17:43	83-32-9	
Acenaphthylene	**14.1J**	ug/kg	18.8	8.4	1	02/25/16 09:21	02/29/16 17:43	208-96-8	
Anthracene	**88.4**	ug/kg	18.8	9.8	1	02/25/16 09:21	02/29/16 17:43	120-12-7	
Benzo(a)anthracene	**225**	ug/kg	18.8	6.5	1	02/25/16 09:21	02/29/16 17:43	56-55-3	
Benzo(a)pyrene	**278**	ug/kg	18.8	6.7	1	02/25/16 09:21	02/29/16 17:43	50-32-8	
Benzo(b)fluoranthene	**248**	ug/kg	18.8	9.4	1	02/25/16 09:21	02/29/16 17:43	205-99-2	Ip
Benzo(g,h,i)perylene	**94.3**	ug/kg	18.8	7.2	1	02/25/16 09:21	02/29/16 17:43	191-24-2	
Benzo(k)fluoranthene	**285**	ug/kg	18.8	10.4	1	02/25/16 09:21	02/29/16 17:43	207-08-9	Ip
Chrysene	**262**	ug/kg	18.8	8.7	1	02/25/16 09:21	02/29/16 17:43	218-01-9	
Dibenz(a,h)anthracene	**37.1**	ug/kg	18.8	6.9	1	02/25/16 09:21	02/29/16 17:43	53-70-3	
Fluoranthene	**587**	ug/kg	18.8	9.4	1	02/25/16 09:21	02/29/16 17:43	206-44-0	
Fluorene	**31.2**	ug/kg	18.8	9.4	1	02/25/16 09:21	02/29/16 17:43	86-73-7	
Indeno(1,2,3-cd)pyrene	**93.8**	ug/kg	18.8	7.2	1	02/25/16 09:21	02/29/16 17:43	193-39-5	
1-Methylnaphthalene	**12.1J**	ug/kg	18.8	9.4	1	02/25/16 09:21	02/29/16 17:43	90-12-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Sample: B3 (10-12) **Lab ID: 40128386008** Collected: 02/16/16 11:50 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
2-Methylnaphthalene	**13.2J**	ug/kg	18.8	9.4	1	02/25/16 09:21	02/29/16 17:43	91-57-6	
Naphthalene	**23.4**	ug/kg	18.8	9.4	1	02/25/16 09:21	02/29/16 17:43	91-20-3	
Phenanthrene	**359**	ug/kg	18.8	9.4	1	02/25/16 09:21	02/29/16 17:43	85-01-8	
Pyrene	**454**	ug/kg	18.8	9.4	1	02/25/16 09:21	02/29/16 17:43	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	67	%	26-130		1	02/25/16 09:21	02/29/16 17:43	321-60-8	
Terphenyl-d14 (S)	68	%	10-130		1	02/25/16 09:21	02/29/16 17:43	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	75-35-4	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	563-58-6	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	87-61-6	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	96-18-4	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	02/22/16 07:00	02/22/16 20:28	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	95-63-6	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	02/22/16 07:00	02/22/16 20:28	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	02/22/16 07:00	02/22/16 20:28	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	02/22/16 07:00	02/22/16 20:28	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	02/22/16 07:00	02/22/16 20:28	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	74-87-3	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	74-95-3	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Sample: B3 (10-12) **Lab ID: 40128386008** Collected: 02/16/16 11:50 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	1634-04-4	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	75-09-2	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	02/22/16 07:00	02/22/16 20:28	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	100-42-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	75-01-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	156-59-2	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	02/22/16 07:00	02/22/16 20:28	179601-23-1	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:28	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	107	%	49-157		1	02/22/16 07:00	02/22/16 20:28	1868-53-7	
Toluene-d8 (S)	112	%	61-148		1	02/22/16 07:00	02/22/16 20:28	2037-26-5	
4-Bromofluorobenzene (S)	98	%	53-134		1	02/22/16 07:00	02/22/16 20:28	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**11.5**	%	0.10	0.10	1		02/18/16 16:49		

Sample: B3 (14-16) **Lab ID: 40128386009** Collected: 02/16/16 11:54 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**4.5J**	mg/kg	10.5	3.3	5	02/25/16 08:06	03/02/16 12:50	7440-38-2	D3
Barium	**48.6**	mg/kg	0.52	0.12	1	02/25/16 08:06	03/01/16 18:31	7440-39-3	
Cadmium	**0.16J**	mg/kg	0.52	0.069	1	02/25/16 08:06	03/01/16 18:31	7440-43-9	
Chromium	**11.0**	mg/kg	1.0	0.20	1	02/25/16 08:06	03/01/16 18:31	7440-47-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Sample: B3 (14-16) **Lab ID: 40128386009** Collected: 02/16/16 11:54 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**41.3**	mg/kg	1.3	0.45	1	02/25/16 08:06	03/01/16 18:31	7439-92-1	
Selenium	**1.3J**	mg/kg	2.1	0.81	1	02/25/16 08:06	03/01/16 18:31	7782-49-2	
Silver	**<0.29**	mg/kg	1.0	0.29	1	02/25/16 08:06	03/01/16 18:31	7440-22-4	L5
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.11**	mg/kg	0.010	0.0031	1	03/01/16 10:40	03/02/16 09:47	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**73.5**	ug/kg	37.9	19.0	2	02/25/16 09:21	02/29/16 18:35	83-32-9	
Acenaphthylene	**<17.0**	ug/kg	37.9	17.0	2	02/25/16 09:21	02/29/16 18:35	208-96-8	
Anthracene	**194**	ug/kg	37.9	19.7	2	02/25/16 09:21	02/29/16 18:35	120-12-7	
Benzo(a)anthracene	**384**	ug/kg	37.9	13.1	2	02/25/16 09:21	02/29/16 18:35	56-55-3	
Benzo(a)pyrene	**432**	ug/kg	37.9	13.6	2	02/25/16 09:21	02/29/16 18:35	50-32-8	
Benzo(b)fluoranthene	**494**	ug/kg	37.9	19.0	2	02/25/16 09:21	02/29/16 18:35	205-99-2	Ip
Benzo(g,h,i)perylene	**154**	ug/kg	37.9	14.4	2	02/25/16 09:21	02/29/16 18:35	191-24-2	
Benzo(k)fluoranthene	**362**	ug/kg	37.9	21.0	2	02/25/16 09:21	02/29/16 18:35	207-08-9	Ip
Chrysene	**440**	ug/kg	37.9	17.5	2	02/25/16 09:21	02/29/16 18:35	218-01-9	
Dibenz(a,h)anthracene	**59.8**	ug/kg	37.9	13.9	2	02/25/16 09:21	02/29/16 18:35	53-70-3	
Fluoranthene	**1090**	ug/kg	37.9	19.0	2	02/25/16 09:21	02/29/16 18:35	206-44-0	
Fluorene	**70.9**	ug/kg	37.9	19.0	2	02/25/16 09:21	02/29/16 18:35	86-73-7	
Indeno(1,2,3-cd)pyrene	**154**	ug/kg	37.9	14.4	2	02/25/16 09:21	02/29/16 18:35	193-39-5	
1-Methylnaphthalene	**24.6J**	ug/kg	37.9	19.0	2	02/25/16 09:21	02/29/16 18:35	90-12-0	
2-Methylnaphthalene	**25.1J**	ug/kg	37.9	19.0	2	02/25/16 09:21	02/29/16 18:35	91-57-6	
Naphthalene	**51.2**	ug/kg	37.9	19.0	2	02/25/16 09:21	02/29/16 18:35	91-20-3	
Phenanthrene	**884**	ug/kg	37.9	19.0	2	02/25/16 09:21	02/29/16 18:35	85-01-8	
Pyrene	**864**	ug/kg	37.9	19.0	2	02/25/16 09:21	02/29/16 18:35	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	57	%	26-130		2	02/25/16 09:21	02/29/16 18:35	321-60-8	
Terphenyl-d14 (S)	64	%	10-130		2	02/25/16 09:21	02/29/16 18:35	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	75-35-4	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	563-58-6	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	87-61-6	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	96-18-4	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	02/22/16 07:00	02/22/16 20:50	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	95-63-6	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	02/22/16 07:00	02/22/16 20:50	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	95-50-1	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Sample: B3 (14-16) **Lab ID: 40128386009** Collected: 02/16/16 11:54 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	02/22/16 07:00	02/22/16 20:50	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	02/22/16 07:00	02/22/16 20:50	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	02/22/16 07:00	02/22/16 20:50	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	74-87-3	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	1634-04-4	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	75-09-2	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	02/22/16 07:00	02/22/16 20:50	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	100-42-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	75-01-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	156-59-2	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	02/22/16 07:00	02/22/16 20:50	179601-23-1	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	98-06-6	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Sample: B3 (14-16) **Lab ID: 40128386009** Collected: 02/16/16 11:54 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 20:50	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	113	%	49-157		1	02/22/16 07:00	02/22/16 20:50	1868-53-7	
Toluene-d8 (S)	112	%	61-148		1	02/22/16 07:00	02/22/16 20:50	2037-26-5	
4-Bromofluorobenzene (S)	96	%	53-134		1	02/22/16 07:00	02/22/16 20:50	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**12.1**	%	0.10	0.10	1		02/20/16 11:34		

Sample: B4 (2-4) **Lab ID: 40128386010** Collected: 02/16/16 12:19 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**<3.1**	mg/kg	9.7	3.1	5	02/25/16 08:06	03/02/16 12:57	7440-38-2	D3
Barium	**37.0**	mg/kg	0.49	0.12	1	02/25/16 08:06	03/01/16 18:33	7440-39-3	
Cadmium	**0.14J**	mg/kg	0.49	0.064	1	02/25/16 08:06	03/01/16 18:33	7440-43-9	
Chromium	**7.6**	mg/kg	0.97	0.19	1	02/25/16 08:06	03/01/16 18:33	7440-47-3	
Lead	**9.9**	mg/kg	1.2	0.42	1	02/25/16 08:06	03/01/16 18:33	7439-92-1	
Selenium	**<0.75**	mg/kg	1.9	0.75	1	02/25/16 08:06	03/01/16 18:33	7782-49-2	
Silver	**<0.27**	mg/kg	0.97	0.27	1	02/25/16 08:06	03/01/16 18:33	7440-22-4	L5
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.029**	mg/kg	0.011	0.0032	1	03/01/16 10:40	03/02/16 09:49	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**176**	ug/kg	152	76.0	8	02/25/16 09:21	03/01/16 10:34	83-32-9	
Acenaphthylene	**<68.0**	ug/kg	152	68.0	8	02/25/16 09:21	03/01/16 10:34	208-96-8	
Anthracene	**450**	ug/kg	152	78.8	8	02/25/16 09:21	03/01/16 10:34	120-12-7	
Benzo(a)anthracene	**757**	ug/kg	152	52.7	8	02/25/16 09:21	03/01/16 10:34	56-55-3	
Benzo(a)pyrene	**829**	ug/kg	152	54.3	8	02/25/16 09:21	03/01/16 10:34	50-32-8	
Benzo(b)fluoranthene	**592**	ug/kg	152	76.0	8	02/25/16 09:21	03/01/16 10:34	205-99-2	
Benzo(g,h,i)perylene	**481**	ug/kg	152	57.9	8	02/25/16 09:21	03/01/16 10:34	191-24-2	
Benzo(k)fluoranthene	**751**	ug/kg	152	84.1	8	02/25/16 09:21	03/01/16 10:34	207-08-9	
Chrysene	**866**	ug/kg	152	70.3	8	02/25/16 09:21	03/01/16 10:34	218-01-9	
Dibenz(a,h)anthracene	**151J**	ug/kg	152	55.7	8	02/25/16 09:21	03/01/16 10:34	53-70-3	
Fluoranthene	**2180**	ug/kg	152	76.0	8	02/25/16 09:21	03/01/16 10:34	206-44-0	
Fluorene	**155**	ug/kg	152	76.0	8	02/25/16 09:21	03/01/16 10:34	86-73-7	
Indeno(1,2,3-cd)pyrene	**416**	ug/kg	152	57.7	8	02/25/16 09:21	03/01/16 10:34	193-39-5	
1-Methylnaphthalene	**<76.0**	ug/kg	152	76.0	8	02/25/16 09:21	03/01/16 10:34	90-12-0	
2-Methylnaphthalene	**<76.0**	ug/kg	152	76.0	8	02/25/16 09:21	03/01/16 10:34	91-57-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Sample: B4 (2-4) **Lab ID: 40128386010** Collected: 02/16/16 12:19 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Naphthalene	**117J**	ug/kg	152	76.0	8	02/25/16 09:21	03/01/16 10:34	91-20-3	
Phenanthrene	**2220**	ug/kg	152	76.0	8	02/25/16 09:21	03/01/16 10:34	85-01-8	
Pyrene	**1830**	ug/kg	152	76.0	8	02/25/16 09:21	03/01/16 10:34	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	46	%	26-130		8	02/25/16 09:21	03/01/16 10:34	321-60-8	
Terphenyl-d14 (S)	49	%	10-130		8	02/25/16 09:21	03/01/16 10:34	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	75-35-4	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	563-58-6	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	87-61-6	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	96-18-4	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	02/22/16 07:00	02/22/16 21:13	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	95-63-6	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	02/22/16 07:00	02/22/16 21:13	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	02/22/16 07:00	02/22/16 21:13	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	02/22/16 07:00	02/22/16 21:13	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	02/22/16 07:00	02/22/16 21:13	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	74-87-3	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	75-71-8	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Sample: B4 (2-4) **Lab ID: 40128386010** Collected: 02/16/16 12:19 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	1634-04-4	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	75-09-2	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	02/22/16 07:00	02/22/16 21:13	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	100-42-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	75-01-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	156-59-2	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	02/22/16 07:00	02/22/16 21:13	179601-23-1	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:13	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	119	%	49-157		1	02/22/16 07:00	02/22/16 21:13	1868-53-7	
Toluene-d8 (S)	110	%	61-148		1	02/22/16 07:00	02/22/16 21:13	2037-26-5	
4-Bromofluorobenzene (S)	98	%	53-134		1	02/22/16 07:00	02/22/16 21:13	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**12.3**	%	0.10	0.10	1		02/20/16 11:34		

Sample: B4 (10-12) **Lab ID: 40128386011** Collected: 02/16/16 12:25 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**5.3J**	mg/kg	10.4	3.3	5	02/25/16 08:06	03/02/16 13:00	7440-38-2	D3
Barium	**20.4**	mg/kg	0.52	0.12	1	02/25/16 08:06	03/01/16 18:36	7440-39-3	
Cadmium	**0.21J**	mg/kg	0.52	0.069	1	02/25/16 08:06	03/01/16 18:36	7440-43-9	
Chromium	**7.0**	mg/kg	1.0	0.20	1	02/25/16 08:06	03/01/16 18:36	7440-47-3	
Lead	**11.1**	mg/kg	1.3	0.45	1	02/25/16 08:06	03/01/16 18:36	7439-92-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Sample: B4 (10-12) **Lab ID: 40128386011** Collected: 02/16/16 12:25 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Selenium	**<0.80**	mg/kg	2.1	0.80	1	02/25/16 08:06	03/01/16 18:36	7782-49-2	
Silver	**<0.29**	mg/kg	1.0	0.29	1	02/25/16 08:06	03/01/16 18:36	7440-22-4	L5
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.015**	mg/kg	0.010	0.0031	1	03/01/16 10:40	03/02/16 09:51	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**42.3**	ug/kg	18.0	9.0	1	02/25/16 09:21	03/01/16 12:07	83-32-9	
Acenaphthylene	**12.6J**	ug/kg	18.0	8.1	1	02/25/16 09:21	03/01/16 12:07	208-96-8	
Anthracene	**90.1**	ug/kg	18.0	9.3	1	02/25/16 09:21	03/01/16 12:07	120-12-7	
Benzo(a)anthracene	**167**	ug/kg	18.0	6.2	1	02/25/16 09:21	03/01/16 12:07	56-55-3	
Benzo(a)pyrene	**181**	ug/kg	18.0	6.4	1	02/25/16 09:21	03/01/16 12:07	50-32-8	
Benzo(b)fluoranthene	**175**	ug/kg	18.0	9.0	1	02/25/16 09:21	03/01/16 12:07	205-99-2	
Benzo(g,h,i)perylene	**101**	ug/kg	18.0	6.9	1	02/25/16 09:21	03/01/16 12:07	191-24-2	
Benzo(k)fluoranthene	**129**	ug/kg	18.0	10	1	02/25/16 09:21	03/01/16 12:07	207-08-9	
Chrysene	**201**	ug/kg	18.0	8.3	1	02/25/16 09:21	03/01/16 12:07	218-01-9	
Dibenz(a,h)anthracene	**31.1**	ug/kg	18.0	6.6	1	02/25/16 09:21	03/01/16 12:07	53-70-3	
Fluoranthene	**541**	ug/kg	18.0	9.0	1	02/25/16 09:21	03/01/16 12:07	206-44-0	
Fluorene	**41.5**	ug/kg	18.0	9.0	1	02/25/16 09:21	03/01/16 12:07	86-73-7	
Indeno(1,2,3-cd)pyrene	**87.2**	ug/kg	18.0	6.8	1	02/25/16 09:21	03/01/16 12:07	193-39-5	
1-Methylnaphthalene	**31.8**	ug/kg	18.0	9.0	1	02/25/16 09:21	03/01/16 12:07	90-12-0	
2-Methylnaphthalene	**27.7**	ug/kg	18.0	9.0	1	02/25/16 09:21	03/01/16 12:07	91-57-6	
Naphthalene	**41.8**	ug/kg	18.0	9.0	1	02/25/16 09:21	03/01/16 12:07	91-20-3	
Phenanthrene	**650**	ug/kg	18.0	9.0	1	02/25/16 09:21	03/01/16 12:07	85-01-8	
Pyrene	**467**	ug/kg	18.0	9.0	1	02/25/16 09:21	03/01/16 12:07	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	68	%	26-130		1	02/25/16 09:21	03/01/16 12:07	321-60-8	
Terphenyl-d14 (S)	77	%	10-130		1	02/25/16 09:21	03/01/16 12:07	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	75-35-4	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	563-58-6	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	87-61-6	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	96-18-4	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	02/22/16 07:00	02/22/16 21:36	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	95-63-6	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	02/22/16 07:00	02/22/16 21:36	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	107-06-2	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Sample: B4 (10-12) **Lab ID: 40128386011** Collected: 02/16/16 12:25 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	02/22/16 07:00	02/22/16 21:36	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	02/22/16 07:00	02/22/16 21:36	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	02/22/16 07:00	02/22/16 21:36	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	74-87-3	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	1634-04-4	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	75-09-2	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	02/22/16 07:00	02/22/16 21:36	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	100-42-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	75-01-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	156-59-2	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	02/22/16 07:00	02/22/16 21:36	179601-23-1	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	156-60-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Sample: B4 (10-12) **Lab ID: 40128386011** Collected: 02/16/16 12:25 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:36	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	110	%	49-157		1	02/22/16 07:00	02/22/16 21:36	1868-53-7	
Toluene-d8 (S)	111	%	61-148		1	02/22/16 07:00	02/22/16 21:36	2037-26-5	
4-Bromofluorobenzene (S)	95	%	53-134		1	02/22/16 07:00	02/22/16 21:36	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**7.5**	%	0.10	0.10	1		02/20/16 11:34		

Sample: B4 (14-16) **Lab ID: 40128386012** Collected: 02/16/16 12:25 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**4.1J**	mg/kg	9.4	3.0	5	02/25/16 08:06	03/02/16 13:02	7440-38-2	D3
Barium	**14.0**	mg/kg	0.47	0.11	1	02/25/16 08:06	03/01/16 18:38	7440-39-3	
Cadmium	**0.16J**	mg/kg	0.47	0.062	1	02/25/16 08:06	03/01/16 18:38	7440-43-9	
Chromium	**5.6**	mg/kg	0.94	0.18	1	02/25/16 08:06	03/01/16 18:38	7440-47-3	
Lead	**6.5**	mg/kg	1.1	0.40	1	02/25/16 08:06	03/01/16 18:38	7439-92-1	
Selenium	**<0.72**	mg/kg	1.9	0.72	1	02/25/16 08:06	03/01/16 18:38	7782-49-2	
Silver	**<0.26**	mg/kg	0.94	0.26	1	02/25/16 08:06	03/01/16 18:38	7440-22-4	L5
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.0098**	mg/kg	0.0094	0.0028	1	03/01/16 10:40	03/02/16 09:54	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<8.9**	ug/kg	17.9	8.9	1	02/25/16 09:21	03/01/16 10:17	83-32-9	
Acenaphthylene	**<8.0**	ug/kg	17.9	8.0	1	02/25/16 09:21	03/01/16 10:17	208-96-8	
Anthracene	**17.0J**	ug/kg	17.9	9.3	1	02/25/16 09:21	03/01/16 10:17	120-12-7	
Benzo(a)anthracene	**38.8**	ug/kg	17.9	6.2	1	02/25/16 09:21	03/01/16 10:17	56-55-3	
Benzo(a)pyrene	**42.9**	ug/kg	17.9	6.4	1	02/25/16 09:21	03/01/16 10:17	50-32-8	
Benzo(b)fluoranthene	**39.1**	ug/kg	17.9	8.9	1	02/25/16 09:21	03/01/16 10:17	205-99-2	
Benzo(g,h,i)perylene	**26.7**	ug/kg	17.9	6.8	1	02/25/16 09:21	03/01/16 10:17	191-24-2	
Benzo(k)fluoranthene	**36.8**	ug/kg	17.9	9.9	1	02/25/16 09:21	03/01/16 10:17	207-08-9	
Chrysene	**45.2**	ug/kg	17.9	8.3	1	02/25/16 09:21	03/01/16 10:17	218-01-9	
Dibenz(a,h)anthracene	**8.9J**	ug/kg	17.9	6.5	1	02/25/16 09:21	03/01/16 10:17	53-70-3	
Fluoranthene	**96.1**	ug/kg	17.9	8.9	1	02/25/16 09:21	03/01/16 10:17	206-44-0	
Fluorene	**<8.9**	ug/kg	17.9	8.9	1	02/25/16 09:21	03/01/16 10:17	86-73-7	
Indeno(1,2,3-cd)pyrene	**23.3**	ug/kg	17.9	6.8	1	02/25/16 09:21	03/01/16 10:17	193-39-5	
1-Methylnaphthalene	**<8.9**	ug/kg	17.9	8.9	1	02/25/16 09:21	03/01/16 10:17	90-12-0	
2-Methylnaphthalene	**<8.9**	ug/kg	17.9	8.9	1	02/25/16 09:21	03/01/16 10:17	91-57-6	
Naphthalene	**<8.9**	ug/kg	17.9	8.9	1	02/25/16 09:21	03/01/16 10:17	91-20-3	

REPORT OF LABORATORY ANALYSIS

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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Sample: B4 (14-16) **Lab ID: 40128386012** Collected: 02/16/16 12:25 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Phenanthrene	**75.9**	ug/kg	17.9	8.9	1	02/25/16 09:21	03/01/16 10:17	85-01-8	
Pyrene	**77.5**	ug/kg	17.9	8.9	1	02/25/16 09:21	03/01/16 10:17	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	61	%	26-130		1	02/25/16 09:21	03/01/16 10:17	321-60-8	
Terphenyl-d14 (S)	63	%	10-130		1	02/25/16 09:21	03/01/16 10:17	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	75-35-4	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	563-58-6	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	87-61-6	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	96-18-4	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	02/22/16 07:00	02/22/16 21:58	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	95-63-6	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	02/22/16 07:00	02/22/16 21:58	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	02/22/16 07:00	02/22/16 21:58	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	02/22/16 07:00	02/22/16 21:58	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	02/22/16 07:00	02/22/16 21:58	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	74-87-3	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	108-20-3	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Sample: B4 (14-16) **Lab ID: 40128386012** Collected: 02/16/16 12:25 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	1634-04-4	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	75-09-2	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	02/22/16 07:00	02/22/16 21:58	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	100-42-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	75-01-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	156-59-2	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	02/22/16 07:00	02/22/16 21:58	179601-23-1	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 21:58	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	120	%	49-157		1	02/22/16 07:00	02/22/16 21:58	1868-53-7	
Toluene-d8 (S)	116	%	61-148		1	02/22/16 07:00	02/22/16 21:58	2037-26-5	
4-Bromofluorobenzene (S)	100	%	53-134		1	02/22/16 07:00	02/22/16 21:58	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**6.7**	%	0.10	0.10	1		02/20/16 11:34		

Sample: TRIP **Lab ID: 40128386013** Collected: 02/16/16 12:30 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	75-35-4	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Sample: TRIP **Lab ID: 40128386013** Collected: 02/16/16 12:30 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	563-58-6	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	87-61-6	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	96-18-4	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	02/22/16 07:00	02/22/16 18:35	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	95-63-6	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	02/22/16 07:00	02/22/16 18:35	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	02/22/16 07:00	02/22/16 18:35	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	02/22/16 07:00	02/22/16 18:35	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	02/22/16 07:00	02/22/16 18:35	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	74-87-3	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	1634-04-4	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	75-09-2	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	02/22/16 07:00	02/22/16 18:35	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	100-42-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	75-01-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	156-59-2	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Sample: TRIP **Lab ID: 40128386013** Collected: 02/16/16 12:30 Received: 02/18/16 09:40 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	02/22/16 07:00	02/22/16 18:35	179601-23-1	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	02/22/16 07:00	02/22/16 18:35	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	102	%	49-157		1	02/22/16 07:00	02/22/16 18:35	1868-53-7	
Toluene-d8 (S)	97	%	61-148		1	02/22/16 07:00	02/22/16 18:35	2037-26-5	
4-Bromofluorobenzene (S)	94	%	53-134		1	02/22/16 07:00	02/22/16 18:35	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

QC Batch: MERP/5589 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 40128386001, 40128386002, 40128386003, 40128386004, 40128386005, 40128386006, 40128386007, 40128386008, 40128386009, 40128386010, 40128386011, 40128386012

METHOD BLANK: 1299716 Matrix: Solid
Associated Lab Samples: 40128386001, 40128386002, 40128386003, 40128386004, 40128386005, 40128386006, 40128386007, 40128386008, 40128386009, 40128386010, 40128386011, 40128386012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.0029	0.0097	03/02/16 09:08	

LABORATORY CONTROL SAMPLE: 1299717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.17	0.18	107	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1299718 1299719

Parameter	Units	40128386001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.57	.2	.19	0.79	0.72	117	80	85-115	10	20	M0

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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(920)469-2436

QUALITY CONTROL DATA

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

QC Batch: MPRP/13381 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 40128386001, 40128386002, 40128386003, 40128386004, 40128386005, 40128386006, 40128386007, 40128386008, 40128386009, 40128386010, 40128386011, 40128386012

METHOD BLANK: 1298822 Matrix: Solid
Associated Lab Samples: 40128386001, 40128386002, 40128386003, 40128386004, 40128386005, 40128386006, 40128386007, 40128386008, 40128386009, 40128386010, 40128386011, 40128386012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<0.64	2.0	03/01/16 17:53	
Barium	mg/kg	<0.12	0.50	03/01/16 17:53	
Cadmium	mg/kg	<0.066	0.50	03/01/16 17:53	
Chromium	mg/kg	<0.19	1.0	03/01/16 17:53	
Lead	mg/kg	<0.43	1.2	03/01/16 17:53	
Selenium	mg/kg	<0.77	2.0	03/01/16 17:53	
Silver	mg/kg	<0.28	1.0	03/01/16 17:53	

LABORATORY CONTROL SAMPLE: 1298823

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	48.4	97	80-120	
Barium	mg/kg	50	50.5	101	80-120	
Cadmium	mg/kg	50	49.9	100	80-120	
Chromium	mg/kg	50	50.1	100	80-120	
Lead	mg/kg	50	48.9	98	80-120	
Selenium	mg/kg	50	49.2	98	80-120	
Silver	mg/kg	25	19.1	76	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1299080 1299081

Parameter	Units	40128386001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	9.9	57.9	58	63.3	63.8	92	93	75-125	1	20	
Barium	mg/kg	89.4	57.9	58	164	165	129	130	75-125	0	20	M0
Cadmium	mg/kg	0.49J	57.9	58	58.5	58.1	100	99	75-125	1	20	
Chromium	mg/kg	11.9	57.9	58	73.4	68.3	106	97	75-125	7	20	
Lead	mg/kg	119	57.9	58	163	151	77	57	75-125	7	20	M0
Selenium	mg/kg	<0.89	57.9	58	55.3	55.0	95	94	75-125	1	20	
Silver	mg/kg	<0.32	29	29	28.3	28.5	98	98	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
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(920)469-2436

QUALITY CONTROL DATA

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

QC Batch: MSV/32287
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40128386001, 40128386002

METHOD BLANK: 1297293
Matrix: Solid
Associated Lab Samples: 40128386001, 40128386002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	02/22/16 12:53	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	02/22/16 12:53	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	02/22/16 12:53	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	02/22/16 12:53	
1,1-Dichloroethane	ug/kg	<17.6	50.0	02/22/16 12:53	
1,1-Dichloroethene	ug/kg	<17.6	50.0	02/22/16 12:53	
1,1-Dichloropropene	ug/kg	<14.0	50.0	02/22/16 12:53	
1,2,3-Trichlorobenzene	ug/kg	<17.0	50.0	02/22/16 12:53	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	02/22/16 12:53	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	02/22/16 12:53	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	02/22/16 12:53	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	02/22/16 12:53	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	02/22/16 12:53	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	02/22/16 12:53	
1,2-Dichloroethane	ug/kg	<15.0	50.0	02/22/16 12:53	
1,2-Dichloropropane	ug/kg	<16.8	50.0	02/22/16 12:53	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	02/22/16 12:53	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	02/22/16 12:53	
1,3-Dichloropropane	ug/kg	<12.0	50.0	02/22/16 12:53	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	02/22/16 12:53	
2,2-Dichloropropane	ug/kg	<12.6	50.0	02/22/16 12:53	
2-Chlorotoluene	ug/kg	<15.8	50.0	02/22/16 12:53	
4-Chlorotoluene	ug/kg	<13.0	50.0	02/22/16 12:53	
Benzene	ug/kg	<9.2	20.0	02/22/16 12:53	
Bromobenzene	ug/kg	<20.6	50.0	02/22/16 12:53	
Bromochloromethane	ug/kg	<21.4	50.0	02/22/16 12:53	
Bromodichloromethane	ug/kg	<9.8	50.0	02/22/16 12:53	
Bromoform	ug/kg	<19.8	50.0	02/22/16 12:53	
Bromomethane	ug/kg	<69.9	250	02/22/16 12:53	
Carbon tetrachloride	ug/kg	<12.1	50.0	02/22/16 12:53	
Chlorobenzene	ug/kg	<14.8	50.0	02/22/16 12:53	
Chloroethane	ug/kg	<67.0	250	02/22/16 12:53	
Chloroform	ug/kg	<46.4	250	02/22/16 12:53	
Chloromethane	ug/kg	<20.4	50.0	02/22/16 12:53	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	02/22/16 12:53	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	02/22/16 12:53	
Dibromochloromethane	ug/kg	<17.9	50.0	02/22/16 12:53	
Dibromomethane	ug/kg	<19.3	50.0	02/22/16 12:53	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	02/22/16 12:53	
Diisopropyl ether	ug/kg	<17.7	50.0	02/22/16 12:53	
Ethylbenzene	ug/kg	<12.4	50.0	02/22/16 12:53	

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REPORT OF LABORATORY ANALYSIS

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(920)469-2436

QUALITY CONTROL DATA

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

METHOD BLANK: 1297293 Matrix: Solid
Associated Lab Samples: 40128386001, 40128386002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	<24.5	50.0	02/22/16 12:53	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	02/22/16 12:53	
m&p-Xylene	ug/kg	<34.4	100	02/22/16 12:53	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	02/22/16 12:53	
Methylene Chloride	ug/kg	<16.2	50.0	02/22/16 12:53	
n-Butylbenzene	ug/kg	<10.5	50.0	02/22/16 12:53	
n-Propylbenzene	ug/kg	<11.6	50.0	02/22/16 12:53	
Naphthalene	ug/kg	<40.0	250	02/22/16 12:53	
o-Xylene	ug/kg	<14.0	50.0	02/22/16 12:53	
p-Isopropyltoluene	ug/kg	<12.0	50.0	02/22/16 12:53	
sec-Butylbenzene	ug/kg	<11.9	50.0	02/22/16 12:53	
Styrene	ug/kg	<9.0	50.0	02/22/16 12:53	
tert-Butylbenzene	ug/kg	<9.5	50.0	02/22/16 12:53	
Tetrachloroethene	ug/kg	<12.9	50.0	02/22/16 12:53	
Toluene	ug/kg	<11.2	50.0	02/22/16 12:53	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	02/22/16 12:53	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	02/22/16 12:53	
Trichloroethene	ug/kg	<23.6	50.0	02/22/16 12:53	
Trichlorofluoromethane	ug/kg	<24.7	50.0	02/22/16 12:53	
Vinyl chloride	ug/kg	<21.1	50.0	02/22/16 12:53	
4-Bromofluorobenzene (S)	%	97	53-134	02/22/16 12:53	
Dibromofluoromethane (S)	%	100	49-157	02/22/16 12:53	
Toluene-d8 (S)	%	106	61-148	02/22/16 12:53	

LABORATORY CONTROL SAMPLE: 1297294

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2420	97	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2470	99	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2450	98	70-130	
1,1-Dichloroethane	ug/kg	2500	2370	95	70-130	
1,1-Dichloroethene	ug/kg	2500	2390	95	70-132	
1,2,4-Trichlorobenzene	ug/kg	2500	2510	100	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2210	88	45-150	
1,2-Dibromoethane (EDB)	ug/kg	2500	2530	101	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2470	99	70-130	
1,2-Dichloroethane	ug/kg	2500	2430	97	70-134	
1,2-Dichloropropane	ug/kg	2500	2480	99	70-130	
1,3-Dichlorobenzene	ug/kg	2500	2370	95	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2420	97	70-130	
Benzene	ug/kg	2500	2430	97	70-130	
Bromodichloromethane	ug/kg	2500	2320	93	70-130	
Bromoform	ug/kg	2500	2230	89	48-130	
Bromomethane	ug/kg	2500	2320	93	70-169	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

LABORATORY CONTROL SAMPLE: 1297294

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/kg	2500	2430	97	67-130	
Chlorobenzene	ug/kg	2500	2480	99	70-130	
Chloroethane	ug/kg	2500	2150	86	70-191	
Chloroform	ug/kg	2500	2410	96	70-130	
Chloromethane	ug/kg	2500	2030	81	52-132	
cis-1,2-Dichloroethene	ug/kg	2500	2380	95	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2280	91	70-130	
Dibromochloromethane	ug/kg	2500	2350	94	65-130	
Dichlorodifluoromethane	ug/kg	2500	1560	63	12-150	
Ethylbenzene	ug/kg	2500	2520	101	70-130	
Isopropylbenzene (Cumene)	ug/kg	2500	2680	107	70-130	
m&p-Xylene	ug/kg	5000	5270	105	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2400	96	70-130	
Methylene Chloride	ug/kg	2500	2430	97	70-131	
o-Xylene	ug/kg	2500	2590	104	70-130	
Styrene	ug/kg	2500	2710	109	70-130	
Tetrachloroethene	ug/kg	2500	2280	91	70-130	
Toluene	ug/kg	2500	2520	101	70-130	
trans-1,2-Dichloroethene	ug/kg	2500	2410	97	69-130	
trans-1,3-Dichloropropene	ug/kg	2500	2290	91	65-130	
Trichloroethene	ug/kg	2500	2500	100	70-130	
Trichlorofluoromethane	ug/kg	2500	2140	85	50-150	
Vinyl chloride	ug/kg	2500	2250	90	67-134	
4-Bromofluorobenzene (S)	%			102	53-134	
Dibromofluoromethane (S)	%			104	49-157	
Toluene-d8 (S)	%			103	61-148	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1297295 1297296

Parameter	Units	40128386002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/kg	<25.0	1380	1380	1290	1340	93	97	63-130	4	20	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1380	1380	1420	1430	103	103	57-136	1	20	
1,1,2-Trichloroethane	ug/kg	<25.0	1380	1380	1440	1450	104	105	70-130	1	20	
1,1-Dichloroethane	ug/kg	<25.0	1380	1380	1310	1310	95	95	62-131	1	23	
1,1-Dichloroethene	ug/kg	<25.0	1380	1380	1180	1190	85	86	42-137	1	20	
1,2,4-Trichlorobenzene	ug/kg	<47.6	1380	1380	1580	1550	114	112	59-137	2	21	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	1380	1380	1350	1340	98	97	33-150	1	25	
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1380	1380	1420	1430	103	104	70-130	0	20	
1,2-Dichlorobenzene	ug/kg	<25.0	1380	1380	1440	1460	104	106	70-130	1	20	
1,2-Dichloroethane	ug/kg	<25.0	1380	1380	1430	1390	103	100	68-134	3	20	
1,2-Dichloropropane	ug/kg	<25.0	1380	1380	1380	1390	100	101	70-130	1	20	
1,3-Dichlorobenzene	ug/kg	<25.0	1380	1380	1370	1380	99	100	70-130	1	20	
1,4-Dichlorobenzene	ug/kg	<25.0	1380	1380	1380	1420	100	103	69-130	3	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
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(920)469-2436

QUALITY CONTROL DATA

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1297295 1297296

Parameter	Units	40128386002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	<25.0	1380	1380	1350	1350	98	98	56-131	0	20	
Bromodichloromethane	ug/kg	<25.0	1380	1380	1330	1350	97	97	64-130	1	20	
Bromoform	ug/kg	<25.0	1380	1380	1320	1310	96	95	48-130	1	20	
Bromomethane	ug/kg	<69.9	1380	1380	1160	1220	84	88	18-169	5	23	
Carbon tetrachloride	ug/kg	<25.0	1380	1380	1250	1260	90	91	59-130	1	20	
Chlorobenzene	ug/kg	<25.0	1380	1380	1470	1440	107	104	70-130	2	20	
Chloroethane	ug/kg	<67.0	1380	1380	1080	1050	78	76	10-191	3	20	
Chloroform	ug/kg	<46.4	1380	1380	1380	1380	100	100	65-130	0	20	
Chloromethane	ug/kg	<25.0	1380	1380	912	883	66	64	36-132	3	20	
cis-1,2-Dichloroethene	ug/kg	<25.0	1380	1380	1370	1370	99	99	59-136	0	24	
cis-1,3-Dichloropropene	ug/kg	<25.0	1380	1380	1270	1280	92	93	60-130	1	20	
Dibromochloromethane	ug/kg	<25.0	1380	1380	1420	1370	103	99	59-130	3	20	
Dichlorodifluoromethane	ug/kg	<25.0	1380	1380	555	587	40	42	10-150	6	27	
Ethylbenzene	ug/kg	<25.0	1380	1380	1400	1400	101	102	64-130	0	20	
Isopropylbenzene (Cumene)	ug/kg	<25.0	1380	1380	1480	1480	107	107	69-138	0	20	
m&p-Xylene	ug/kg	<50.0	2760	2760	2900	2940	105	106	61-130	1	20	
Methyl-tert-butyl ether	ug/kg	<25.0	1380	1380	1350	1420	98	102	52-134	5	20	
Methylene Chloride	ug/kg	<25.0	1380	1380	1360	1420	98	103	61-131	5	20	
o-Xylene	ug/kg	<25.0	1380	1380	1460	1440	106	104	63-130	2	20	
Styrene	ug/kg	<25.0	1380	1380	1530	1490	110	108	70-130	2	20	
Tetrachloroethene	ug/kg	<25.0	1380	1380	1240	1280	90	93	65-130	3	20	
Toluene	ug/kg	<25.0	1380	1380	1430	1430	104	103	65-130	0	20	
trans-1,2-Dichloroethene	ug/kg	<25.0	1380	1380	1240	1330	90	96	55-130	7	20	
trans-1,3-Dichloropropene	ug/kg	<25.0	1380	1380	1360	1380	99	100	54-130	1	20	
Trichloroethene	ug/kg	<25.0	1380	1380	1310	1380	95	100	70-130	5	20	
Trichlorofluoromethane	ug/kg	<25.0	1380	1380	1050	1120	76	81	42-150	7	24	
Vinyl chloride	ug/kg	<25.0	1380	1380	986	1010	71	73	35-134	2	20	
4-Bromofluorobenzene (S)	%						108	107	53-134			
Dibromofluoromethane (S)	%						114	111	49-157			
Toluene-d8 (S)	%						111	111	61-148			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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(920)469-2436

QUALITY CONTROL DATA

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

QC Batch: MSV/32299 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40128386003, 40128386004, 40128386005, 40128386006, 40128386007, 40128386008, 40128386009, 40128386010, 40128386011, 40128386012, 40128386013

METHOD BLANK: 1297916 Matrix: Solid
Associated Lab Samples: 40128386003, 40128386004, 40128386005, 40128386006, 40128386007, 40128386008, 40128386009, 40128386010, 40128386011, 40128386012, 40128386013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	02/22/16 16:19	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	02/22/16 16:19	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	02/22/16 16:19	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	02/22/16 16:19	
1,1-Dichloroethane	ug/kg	<17.6	50.0	02/22/16 16:19	
1,1-Dichloroethene	ug/kg	<17.6	50.0	02/22/16 16:19	
1,1-Dichloropropene	ug/kg	<14.0	50.0	02/22/16 16:19	
1,2,3-Trichlorobenzene	ug/kg	36.9J	50.0	02/22/16 16:19	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	02/22/16 16:19	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	02/22/16 16:19	
1,2,4-Trimethylbenzene	ug/kg	16.4J	50.0	02/22/16 16:19	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	02/22/16 16:19	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	02/22/16 16:19	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	02/22/16 16:19	
1,2-Dichloroethane	ug/kg	<15.0	50.0	02/22/16 16:19	
1,2-Dichloropropane	ug/kg	<16.8	50.0	02/22/16 16:19	
1,3,5-Trimethylbenzene	ug/kg	15.4J	50.0	02/22/16 16:19	
1,3-Dichlorobenzene	ug/kg	14.0J	50.0	02/22/16 16:19	
1,3-Dichloropropane	ug/kg	<12.0	50.0	02/22/16 16:19	
1,4-Dichlorobenzene	ug/kg	16.6J	50.0	02/22/16 16:19	
2,2-Dichloropropane	ug/kg	<12.6	50.0	02/22/16 16:19	
2-Chlorotoluene	ug/kg	<15.8	50.0	02/22/16 16:19	
4-Chlorotoluene	ug/kg	<13.0	50.0	02/22/16 16:19	
Benzene	ug/kg	<9.2	20.0	02/22/16 16:19	
Bromobenzene	ug/kg	<20.6	50.0	02/22/16 16:19	
Bromochloromethane	ug/kg	<21.4	50.0	02/22/16 16:19	
Bromodichloromethane	ug/kg	<9.8	50.0	02/22/16 16:19	
Bromoform	ug/kg	<19.8	50.0	02/22/16 16:19	
Bromomethane	ug/kg	<69.9	250	02/22/16 16:19	
Carbon tetrachloride	ug/kg	<12.1	50.0	02/22/16 16:19	
Chlorobenzene	ug/kg	<14.8	50.0	02/22/16 16:19	
Chloroethane	ug/kg	<67.0	250	02/22/16 16:19	
Chloroform	ug/kg	<46.4	250	02/22/16 16:19	
Chloromethane	ug/kg	<20.4	50.0	02/22/16 16:19	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	02/22/16 16:19	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	02/22/16 16:19	
Dibromochloromethane	ug/kg	<17.9	50.0	02/22/16 16:19	
Dibromomethane	ug/kg	<19.3	50.0	02/22/16 16:19	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	02/22/16 16:19	
Diisopropyl ether	ug/kg	<17.7	50.0	02/22/16 16:19	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

METHOD BLANK: 1297916 Matrix: Solid

Associated Lab Samples: 40128386003, 40128386004, 40128386005, 40128386006, 40128386007, 40128386008, 40128386009, 40128386010, 40128386011, 40128386012, 40128386013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/kg	<12.4	50.0	02/22/16 16:19	
Hexachloro-1,3-butadiene	ug/kg	<24.5	50.0	02/22/16 16:19	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	02/22/16 16:19	
m&p-Xylene	ug/kg	<34.4	100	02/22/16 16:19	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	02/22/16 16:19	
Methylene Chloride	ug/kg	<16.2	50.0	02/22/16 16:19	
n-Butylbenzene	ug/kg	31.4J	50.0	02/22/16 16:19	
n-Propylbenzene	ug/kg	16.2J	50.0	02/22/16 16:19	
Naphthalene	ug/kg	<40.0	250	02/22/16 16:19	
o-Xylene	ug/kg	<14.0	50.0	02/22/16 16:19	
p-Isopropyltoluene	ug/kg	<12.0	50.0	02/22/16 16:19	
sec-Butylbenzene	ug/kg	23.6J	50.0	02/22/16 16:19	
Styrene	ug/kg	<9.0	50.0	02/22/16 16:19	
tert-Butylbenzene	ug/kg	23.7J	50.0	02/22/16 16:19	
Tetrachloroethene	ug/kg	<12.9	50.0	02/22/16 16:19	
Toluene	ug/kg	<11.2	50.0	02/22/16 16:19	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	02/22/16 16:19	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	02/22/16 16:19	
Trichloroethene	ug/kg	<23.6	50.0	02/22/16 16:19	
Trichlorofluoromethane	ug/kg	<24.7	50.0	02/22/16 16:19	
Vinyl chloride	ug/kg	<21.1	50.0	02/22/16 16:19	
4-Bromofluorobenzene (S)	%	97	53-134	02/22/16 16:19	
Dibromofluoromethane (S)	%	115	49-157	02/22/16 16:19	
Toluene-d8 (S)	%	108	61-148	02/22/16 16:19	

LABORATORY CONTROL SAMPLE: 1297917

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2740	109	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2520	101	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2660	106	70-130	
1,1-Dichloroethane	ug/kg	2500	2680	107	70-130	
1,1-Dichloroethene	ug/kg	2500	2850	114	70-132	
1,2,4-Trichlorobenzene	ug/kg	2500	2760	111	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2410	97	45-150	
1,2-Dibromoethane (EDB)	ug/kg	2500	2480	99	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2680	107	70-130	
1,2-Dichloroethane	ug/kg	2500	2990	119	70-134	
1,2-Dichloropropane	ug/kg	2500	2480	99	70-130	
1,3-Dichlorobenzene	ug/kg	2500	2570	103	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2640	106	70-130	
Benzene	ug/kg	2500	2670	107	70-130	
Bromodichloromethane	ug/kg	2500	2460	98	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

LABORATORY CONTROL SAMPLE: 1297917

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/kg	2500	2200	88	48-130	
Bromomethane	ug/kg	2500	3630	145	70-169	
Carbon tetrachloride	ug/kg	2500	2700	108	67-130	
Chlorobenzene	ug/kg	2500	2650	106	70-130	
Chloroethane	ug/kg	2500	3380	135	70-191	
Chloroform	ug/kg	2500	2860	114	70-130	
Chloromethane	ug/kg	2500	2420	97	52-132	
cis-1,2-Dichloroethene	ug/kg	2500	2510	100	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2480	99	70-130	
Dibromochloromethane	ug/kg	2500	2470	99	65-130	
Dichlorodifluoromethane	ug/kg	2500	1990	79	12-150	
Ethylbenzene	ug/kg	2500	2550	102	70-130	
Isopropylbenzene (Cumene)	ug/kg	2500	2640	105	70-130	
m&p-Xylene	ug/kg	5000	5090	102	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2700	108	70-130	
Methylene Chloride	ug/kg	2500	2900	116	70-131	
o-Xylene	ug/kg	2500	2310	92	70-130	
Styrene	ug/kg	2500	2520	101	70-130	
Tetrachloroethene	ug/kg	2500	2610	104	70-130	
Toluene	ug/kg	2500	2530	101	70-130	
trans-1,2-Dichloroethene	ug/kg	2500	2540	102	69-130	
trans-1,3-Dichloropropene	ug/kg	2500	2550	102	65-130	
Trichloroethene	ug/kg	2500	2540	102	70-130	
Trichlorofluoromethane	ug/kg	2500	2810	112	50-150	
Vinyl chloride	ug/kg	2500	2830	113	67-134	
4-Bromofluorobenzene (S)	%			102	53-134	
Dibromofluoromethane (S)	%			105	49-157	
Toluene-d8 (S)	%			106	61-148	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1297918 1297919

Parameter	Units	40128386004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/kg	<25.0	1410	1410	1360	1250	96	89	63-130	8	20	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1410	1410	1480	1450	105	103	57-136	2	20	
1,1,2-Trichloroethane	ug/kg	<25.0	1410	1410	1420	1410	100	100	70-130	1	20	
1,1-Dichloroethane	ug/kg	<25.0	1410	1410	1410	1410	99	99	62-131	0	23	
1,1-Dichloroethene	ug/kg	<25.0	1410	1410	1150	1200	82	85	42-137	4	20	
1,2,4-Trichlorobenzene	ug/kg	<47.6	1410	1410	1730	1700	120	118	59-137	2	21	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	1410	1410	1440	1350	102	95	33-150	7	25	
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1410	1410	1340	1280	95	91	70-130	4	20	
1,2-Dichlorobenzene	ug/kg	<25.0	1410	1410	1640	1590	116	113	70-130	3	20	
1,2-Dichloroethane	ug/kg	<25.0	1410	1410	1610	1630	114	116	68-134	2	20	
1,2-Dichloropropane	ug/kg	<25.0	1410	1410	1410	1400	100	99	70-130	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1297918 1297919

Parameter	Units	40128386004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,3-Dichlorobenzene	ug/kg	<25.0	1410	1410	1560	1560	110	111	70-130	0	20	
1,4-Dichlorobenzene	ug/kg	<25.0	1410	1410	1600	1510	113	107	69-130	6	20	
Benzene	ug/kg	<25.0	1410	1410	1450	1420	102	101	56-131	2	20	
Bromodichloromethane	ug/kg	<25.0	1410	1410	1360	1350	96	96	64-130	1	20	
Bromoform	ug/kg	<25.0	1410	1410	1200	1120	85	79	48-130	7	20	
Bromomethane	ug/kg	<69.9	1410	1410	1670	1640	118	116	18-169	2	23	
Carbon tetrachloride	ug/kg	<25.0	1410	1410	1280	1230	90	87	59-130	4	20	
Chlorobenzene	ug/kg	<25.0	1410	1410	1450	1510	103	107	70-130	4	20	
Chloroethane	ug/kg	<67.0	1410	1410	1610	1600	114	113	10-191	0	20	
Chloroform	ug/kg	<46.4	1410	1410	1530	1500	108	106	65-130	2	20	
Chloromethane	ug/kg	<25.0	1410	1410	1020	951	72	67	36-132	7	20	
cis-1,2-Dichloroethene	ug/kg	<25.0	1410	1410	1340	1360	95	96	59-136	2	24	
cis-1,3-Dichloropropene	ug/kg	<25.0	1410	1410	1360	1310	96	93	60-130	4	20	
Dibromochloromethane	ug/kg	<25.0	1410	1410	1310	1300	93	92	59-130	1	20	
Dichlorodifluoromethane	ug/kg	<25.0	1410	1410	514	522	36	37	10-150	2	27	
Ethylbenzene	ug/kg	<25.0	1410	1410	1390	1340	98	95	64-130	4	20	
Isopropylbenzene (Cumene)	ug/kg	<25.0	1410	1410	1380	1370	97	97	69-138	1	20	
m&p-Xylene	ug/kg	<50.0	2830	2830	2760	2690	98	95	61-130	3	20	
Methyl-tert-butyl ether	ug/kg	<25.0	1410	1410	1460	1440	103	102	52-134	2	20	
Methylene Chloride	ug/kg	<25.0	1410	1410	1560	1560	110	110	61-131	0	20	
o-Xylene	ug/kg	<25.0	1410	1410	1320	1250	93	88	63-130	5	20	
Styrene	ug/kg	<25.0	1410	1410	1360	1330	96	94	70-130	2	20	
Tetrachloroethene	ug/kg	<25.0	1410	1410	1400	1400	99	99	65-130	0	20	
Toluene	ug/kg	<25.0	1410	1410	1380	1390	97	97	65-130	1	20	
trans-1,2-Dichloroethene	ug/kg	<25.0	1410	1410	1320	1290	93	92	55-130	2	20	
trans-1,3-Dichloropropene	ug/kg	<25.0	1410	1410	1350	1350	96	95	54-130	1	20	
Trichloroethene	ug/kg	<25.0	1410	1410	1370	1330	97	94	70-130	3	20	
Trichlorofluoromethane	ug/kg	<25.0	1410	1410	1150	1160	81	82	42-150	1	24	
Vinyl chloride	ug/kg	<25.0	1410	1410	1080	1020	76	72	35-134	5	20	
4-Bromofluorobenzene (S)	%						98	100	53-134			
Dibromofluoromethane (S)	%						105	107	49-157			
Toluene-d8 (S)	%						105	107	61-148			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

QC Batch: OEXT/29748 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 40128386001, 40128386002, 40128386003, 40128386004, 40128386005, 40128386006, 40128386007, 40128386008, 40128386009, 40128386010, 40128386011, 40128386012

METHOD BLANK: 1299229 Matrix: Solid
Associated Lab Samples: 40128386001, 40128386002, 40128386003, 40128386004, 40128386005, 40128386006, 40128386007, 40128386008, 40128386009, 40128386010, 40128386011, 40128386012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<8.3	16.7	02/26/16 08:54	
2-Methylnaphthalene	ug/kg	<8.3	16.7	02/26/16 08:54	
Acenaphthene	ug/kg	<8.3	16.7	02/26/16 08:54	
Acenaphthylene	ug/kg	<7.5	16.7	02/26/16 08:54	
Anthracene	ug/kg	<8.6	16.7	02/26/16 08:54	
Benzo(a)anthracene	ug/kg	<5.8	16.7	02/26/16 08:54	
Benzo(a)pyrene	ug/kg	<6.0	16.7	02/26/16 08:54	
Benzo(b)fluoranthene	ug/kg	<8.3	16.7	02/26/16 08:54	
Benzo(g,h,i)perylene	ug/kg	<6.3	16.7	02/26/16 08:54	
Benzo(k)fluoranthene	ug/kg	<9.2	16.7	02/26/16 08:54	
Chrysene	ug/kg	<7.7	16.7	02/26/16 08:54	
Dibenz(a,h)anthracene	ug/kg	<6.1	16.7	02/26/16 08:54	
Fluoranthene	ug/kg	<8.3	16.7	02/26/16 08:54	
Fluorene	ug/kg	<8.3	16.7	02/26/16 08:54	
Indeno(1,2,3-cd)pyrene	ug/kg	<6.3	16.7	02/26/16 08:54	
Naphthalene	ug/kg	<8.3	16.7	02/26/16 08:54	
Phenanthrene	ug/kg	<8.3	16.7	02/26/16 08:54	
Pyrene	ug/kg	<8.3	16.7	02/26/16 08:54	
2-Fluorobiphenyl (S)	%	52	26-130	02/26/16 08:54	
Terphenyl-d14 (S)	%	64	10-130	02/26/16 08:54	

LABORATORY CONTROL SAMPLE: 1299230

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	198	60	48-130	
2-Methylnaphthalene	ug/kg	333	202	60	49-130	
Acenaphthene	ug/kg	333	191	57	54-130	
Acenaphthylene	ug/kg	333	193	58	56-130	
Anthracene	ug/kg	333	253	76	70-130	
Benzo(a)anthracene	ug/kg	333	227	68	58-130	
Benzo(a)pyrene	ug/kg	333	263	79	58-130	
Benzo(b)fluoranthene	ug/kg	333	264	79	50-130	
Benzo(g,h,i)perylene	ug/kg	333	269	81	39-130	
Benzo(k)fluoranthene	ug/kg	333	256	77	57-130	
Chrysene	ug/kg	333	254	76	64-130	
Dibenz(a,h)anthracene	ug/kg	333	279	84	44-130	
Fluoranthene	ug/kg	333	249	75	59-130	
Fluorene	ug/kg	333	202	60	56-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

LABORATORY CONTROL SAMPLE: 1299230

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Indeno(1,2,3-cd)pyrene	ug/kg	333	281	84	45-130	
Naphthalene	ug/kg	333	191	57	46-130	
Phenanthrene	ug/kg	333	242	72	56-130	
Pyrene	ug/kg	333	223	67	59-130	
2-Fluorobiphenyl (S)	%			58	26-130	
Terphenyl-d14 (S)	%			75	10-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1299231 1299232

Parameter	Units	40128600001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/kg	<9.8	390	390	235	250	60	64	41-130	6	24	
2-Methylnaphthalene	ug/kg	<9.8	390	390	240	256	61	66	42-130	7	25	
Acenaphthene	ug/kg	<9.8	390	390	229	238	59	61	49-130	4	27	
Acenaphthylene	ug/kg	<8.7	390	390	231	241	59	62	52-130	4	26	
Anthracene	ug/kg	<10.1	390	390	267	277	68	71	61-130	4	29	
Benzo(a)anthracene	ug/kg	<6.8	390	390	237	236	61	61	45-130	0	28	
Benzo(a)pyrene	ug/kg	<7.0	390	390	278	266	71	68	39-130	4	34	
Benzo(b)fluoranthene	ug/kg	<9.8	390	390	274	267	70	68	30-130	3	43	
Benzo(g,h,i)perylene	ug/kg	<7.4	390	390	269	257	69	66	24-130	5	34	
Benzo(k)fluoranthene	ug/kg	<10.8	390	390	280	267	72	68	41-130	5	32	
Chrysene	ug/kg	<9.0	390	390	271	276	69	71	46-130	2	37	
Dibenz(a,h)anthracene	ug/kg	<7.2	390	390	281	266	72	68	33-130	6	34	
Fluoranthene	ug/kg	<9.8	390	390	261	263	67	67	41-130	1	25	
Fluorene	ug/kg	<9.8	390	390	230	235	59	60	49-130	2	30	
Indeno(1,2,3-cd)pyrene	ug/kg	<7.4	390	390	284	268	73	69	30-130	6	28	
Naphthalene	ug/kg	<9.8	390	390	241	267	62	68	39-130	10	26	
Phenanthrene	ug/kg	<9.8	390	390	256	253	66	65	47-130	1	26	
Pyrene	ug/kg	<9.8	390	390	229	229	59	59	37-130	0	30	
2-Fluorobiphenyl (S)	%						53	58	26-130			
Terphenyl-d14 (S)	%						57	58	10-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

QC Batch: PMST/12435 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40128386001, 40128386002, 40128386003, 40128386004, 40128386005, 40128386006, 40128386007, 40128386008

SAMPLE DUPLICATE: 1296976

Parameter	Units	40128386001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.1	13.4	5	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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(920)469-2436

QUALITY CONTROL DATA

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

QC Batch: PMST/12438 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40128386009, 40128386010, 40128386011, 40128386012

SAMPLE DUPLICATE: 1297657

Parameter	Units	40128420001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.8	8.3	6	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
Ip	Benzo(b)fluoranthene and benzo(k)fluoranthene were separated in the check standard but did not meet the resolution criteria in SW846 8270C. Sample results included are reported as individual isomers, but the lab and the client must recognize them as an isomeric pair.
L5	LCS recovery exceeded QC limits. Batch accepted based on matrix spike recovery within LCS limits.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.
W	Non-detect results are reported on a wet weight basis.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40128386001	B1 (2-4)	EPA 3050	MPRP/13381	EPA 6010	ICP/11871
40128386002	B1 (6-8)	EPA 3050	MPRP/13381	EPA 6010	ICP/11871
40128386003	B1 (14-16)	EPA 3050	MPRP/13381	EPA 6010	ICP/11871
40128386004	B2 (2-4)	EPA 3050	MPRP/13381	EPA 6010	ICP/11871
40128386005	B2 (10-12)	EPA 3050	MPRP/13381	EPA 6010	ICP/11871
40128386006	B2 (14-16)	EPA 3050	MPRP/13381	EPA 6010	ICP/11871
40128386007	B3 (2-4)	EPA 3050	MPRP/13381	EPA 6010	ICP/11871
40128386008	B3 (10-12)	EPA 3050	MPRP/13381	EPA 6010	ICP/11871
40128386009	B3 (14-16)	EPA 3050	MPRP/13381	EPA 6010	ICP/11871
40128386010	B4 (2-4)	EPA 3050	MPRP/13381	EPA 6010	ICP/11871
40128386011	B4 (10-12)	EPA 3050	MPRP/13381	EPA 6010	ICP/11871
40128386012	B4 (14-16)	EPA 3050	MPRP/13381	EPA 6010	ICP/11871
40128386001	B1 (2-4)	EPA 7471	MERP/5589	EPA 7471	MERC/7845
40128386002	B1 (6-8)	EPA 7471	MERP/5589	EPA 7471	MERC/7845
40128386003	B1 (14-16)	EPA 7471	MERP/5589	EPA 7471	MERC/7845
40128386004	B2 (2-4)	EPA 7471	MERP/5589	EPA 7471	MERC/7845
40128386005	B2 (10-12)	EPA 7471	MERP/5589	EPA 7471	MERC/7845
40128386006	B2 (14-16)	EPA 7471	MERP/5589	EPA 7471	MERC/7845
40128386007	B3 (2-4)	EPA 7471	MERP/5589	EPA 7471	MERC/7845
40128386008	B3 (10-12)	EPA 7471	MERP/5589	EPA 7471	MERC/7845
40128386009	B3 (14-16)	EPA 7471	MERP/5589	EPA 7471	MERC/7845
40128386010	B4 (2-4)	EPA 7471	MERP/5589	EPA 7471	MERC/7845
40128386011	B4 (10-12)	EPA 7471	MERP/5589	EPA 7471	MERC/7845
40128386012	B4 (14-16)	EPA 7471	MERP/5589	EPA 7471	MERC/7845
40128386001	B1 (2-4)	EPA 3546	OEXT/29748	EPA 8270 by SIM	MSSV/8795
40128386002	B1 (6-8)	EPA 3546	OEXT/29748	EPA 8270 by SIM	MSSV/8795
40128386003	B1 (14-16)	EPA 3546	OEXT/29748	EPA 8270 by SIM	MSSV/8795
40128386004	B2 (2-4)	EPA 3546	OEXT/29748	EPA 8270 by SIM	MSSV/8795
40128386005	B2 (10-12)	EPA 3546	OEXT/29748	EPA 8270 by SIM	MSSV/8795
40128386006	B2 (14-16)	EPA 3546	OEXT/29748	EPA 8270 by SIM	MSSV/8795
40128386007	B3 (2-4)	EPA 3546	OEXT/29748	EPA 8270 by SIM	MSSV/8795
40128386008	B3 (10-12)	EPA 3546	OEXT/29748	EPA 8270 by SIM	MSSV/8795
40128386009	B3 (14-16)	EPA 3546	OEXT/29748	EPA 8270 by SIM	MSSV/8795
40128386010	B4 (2-4)	EPA 3546	OEXT/29748	EPA 8270 by SIM	MSSV/8795
40128386011	B4 (10-12)	EPA 3546	OEXT/29748	EPA 8270 by SIM	MSSV/8795
40128386012	B4 (14-16)	EPA 3546	OEXT/29748	EPA 8270 by SIM	MSSV/8795
40128386001	B1 (2-4)	EPA 5035/5030B	MSV/32287	EPA 8260	MSV/32288
40128386002	B1 (6-8)	EPA 5035/5030B	MSV/32287	EPA 8260	MSV/32288
40128386003	B1 (14-16)	EPA 5035/5030B	MSV/32299	EPA 8260	MSV/32300
40128386004	B2 (2-4)	EPA 5035/5030B	MSV/32299	EPA 8260	MSV/32300
40128386005	B2 (10-12)	EPA 5035/5030B	MSV/32299	EPA 8260	MSV/32300
40128386006	B2 (14-16)	EPA 5035/5030B	MSV/32299	EPA 8260	MSV/32300
40128386007	B3 (2-4)	EPA 5035/5030B	MSV/32299	EPA 8260	MSV/32300
40128386008	B3 (10-12)	EPA 5035/5030B	MSV/32299	EPA 8260	MSV/32300
40128386009	B3 (14-16)	EPA 5035/5030B	MSV/32299	EPA 8260	MSV/32300
40128386010	B4 (2-4)	EPA 5035/5030B	MSV/32299	EPA 8260	MSV/32300
40128386011	B4 (10-12)	EPA 5035/5030B	MSV/32299	EPA 8260	MSV/32300

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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128386

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40128386012	**B4 (14-16)**	EPA 5035/5030B	MSV/32299	EPA 8260	MSV/32300
40128386013	**TRIP**	EPA 5035/5030B	MSV/32299	EPA 8260	MSV/32300
40128386001	**B1 (2-4)**	ASTM D2974-87	PMST/12435		
40128386002	**B1 (6-8)**	ASTM D2974-87	PMST/12435		
40128386003	**B1 (14-16)**	ASTM D2974-87	PMST/12435		
40128386004	**B2 (2-4)**	ASTM D2974-87	PMST/12435		
40128386005	**B2 (10-12)**	ASTM D2974-87	PMST/12435		
40128386006	**B2 (14-16)**	ASTM D2974-87	PMST/12435		
40128386007	**B3 (2-4)**	ASTM D2974-87	PMST/12435		
40128386008	**B3 (10-12)**	ASTM D2974-87	PMST/12435		
40128386009	**B3 (14-16)**	ASTM D2974-87	PMST/12438		
40128386010	**B4 (2-4)**	ASTM D2974-87	PMST/12438		
40128386011	**B4 (10-12)**	ASTM D2974-87	PMST/12438		
40128386012	**B4 (14-16)**	ASTM D2974-87	PMST/12438		

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

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CHAIN OF COUSTODY

40128386

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

(Please Print Clearly)

Company Name:	Kapur & Associates
Branch/Location:	Milwaukee
Project Contact:	Travis Peterson
Phone:	414-751-7279
Project Number:	16.0131.01
Project Name:	Harwood Ave
Project State:	WI
Sampled By (Print):	Rachel Beyer
Sampled By (Sign):	Rachel Beyer
PO #:	
Regulatory Program:	RR

Quote #:	
Mail To Contact:	
Mail To Company:	
Mail To Address:	SAME
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, Sl = Sludge
W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

FILTERED? (YES/NO): N, N, N
PRESERVATION (CODE)* Pick Letter: F, A, A

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	VOC	PAH	RCRA Metals	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	B1 (2-4)	2/16/16	10:22	S	X	X	X	1-4ozag A, 1-4ozp A, 1-40mlv F		
002	B1 (6-8)	2/16/16	10:29	S	X	X	X			
003	B1 (14-16)	2/16/16	10:40	S	X	X	X			
004	B2 (2-4)	2/16/16	11:07	S	X	X	X			
005	B2 (10-12)	2/16/16	11:15	S	X	X	X			
006	B2 (14-16)	2/16/16	11:19	S	X	X	X			
007	B3 (2-4)	2/16/16	11:43	S	X	X	X			
008	B3 (10-12)	2/16/16	11:50	S	X	X	X			
009	B3 (14-16)	2/16/16	11:54	S	X	X	X			
010	B4 (2-4)	2/16/16	12:19	S	X	X	X			
011	B4 (10-12)	2/16/16	12:25	S	X	X	X			
012	B4 (14-16)	2/16/16	12:35	S	X	X	X			
0013	TRIP	2/16/16	12:30		X					

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

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

Relinquished By:	Date/Time:	Received By:	Date/Time:
Rachel Beyer	2/17/16 10:20	Mary Fannin	2/17/16 10:20
Mary Fannin	2/17/16 1515		
C Stogustres	2-18-16 0940	Susan K Witzel	2-18-16 0940

PACE Project No. 40128386
Receipt Temp = 3 °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal: Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

GROUNDWATER

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

March 10, 2016

Travis Peterson
Kapur & Associates, Inc.
7711 N. Port Washington Road
Milwaukee, WI 53217

RE: Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128832

Dear Travis Peterson:
Enclosed are the analytical results for sample(s) received by the laboratory on March 01, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Christopher Hyska
christopher.hyska@pacelabs.com
Project Manager

Enclosures

cc: Kapur ALL, Kapur & Associates, Inc.
Nicholas Connor, Kapur & Associates, Inc.
Trish Hermann, Kapur & Associates, Inc.

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
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CERTIFICATIONS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128832

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
525 N 8th Street, Salina, KS 67401
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
Virginia VELAP ID: 460263
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Virginia VELAP Certification ID: 460263
Virginia VELAP ID: 460263
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128832

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40128832001	**MW-1**	Water	02/29/16 12:45	03/01/16 16:20
40128832002	**MW-2**	Water	02/29/16 13:20	03/01/16 16:20
40128832003	**MW-3**	Water	02/29/16 11:45	03/01/16 16:20
40128832004	**TRIP**	Water	02/29/16 13:30	03/01/16 16:20

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SAMPLE ANALYTE COUNT

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128832

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40128832001	**MW-1**	6010C Met	DM	7	PASI-M
		EPA 7470	AJT	1	PASI-G
		EPA 8270 by HVI	TPO	20	PASI-G
		EPA 8260	LAP	64	PASI-G
40128832002	**MW-2**	6010C Met	DM	7	PASI-M
		EPA 7470	AJT	1	PASI-G
		EPA 8270 by HVI	TPO	20	PASI-G
		EPA 8260	LAP	64	PASI-G
40128832003	**MW-3**	6010C Met	DM	7	PASI-M
		EPA 7470	AJT	1	PASI-G
		EPA 8270 by HVI	TPO	20	PASI-G
		EPA 8260	LAP	64	PASI-G
40128832004	**TRIP**	EPA 8260	LAP	64	PASI-G

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SUMMARY OF DETECTION

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128832

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40128832001	**MW-1**					
6010C Met	Barium, Dissolved	67.9	ug/L	4.1	03/09/16 05:55	
EPA 8270 by HVI	Benzo(a)anthracene	0.0088J	ug/L	0.045	03/04/16 15:06	
EPA 8270 by HVI	Benzo(a)pyrene	0.0042J	ug/L	0.045	03/04/16 15:06	
EPA 8270 by HVI	Benzo(b)fluoranthene	0.010J	ug/L	0.045	03/04/16 15:06	
EPA 8270 by HVI	Benzo(g,h,i)perylene	0.0040J	ug/L	0.045	03/04/16 15:06	
EPA 8270 by HVI	Benzo(k)fluoranthene	0.0053J	ug/L	0.045	03/04/16 15:06	
EPA 8270 by HVI	Chrysene	0.012J	ug/L	0.045	03/04/16 15:06	
EPA 8270 by HVI	Fluoranthene	0.018J	ug/L	0.045	03/04/16 15:06	
EPA 8270 by HVI	1-Methylnaphthalene	0.0029J	ug/L	0.045	03/04/16 15:06	
EPA 8270 by HVI	2-Methylnaphthalene	0.0039J	ug/L	0.045	03/04/16 15:06	B
EPA 8270 by HVI	Naphthalene	0.028J	ug/L	0.045	03/04/16 15:06	B
EPA 8270 by HVI	Phenanthrene	0.016J	ug/L	0.045	03/04/16 15:06	
EPA 8270 by HVI	Pyrene	0.017J	ug/L	0.045	03/04/16 15:06	
40128832002	**MW-2**					
6010C Met	Barium, Dissolved	66.0	ug/L	4.1	03/09/16 05:58	
EPA 8270 by HVI	Acenaphthene	0.32	ug/L	0.045	03/04/16 15:24	
EPA 8270 by HVI	Acenaphthylene	0.018J	ug/L	0.045	03/04/16 15:24	
EPA 8270 by HVI	Anthracene	0.85	ug/L	0.045	03/04/16 15:24	
EPA 8270 by HVI	Benzo(a)anthracene	0.67	ug/L	0.045	03/04/16 15:24	
EPA 8270 by HVI	Benzo(a)pyrene	0.51	ug/L	0.045	03/04/16 15:24	
EPA 8270 by HVI	Benzo(b)fluoranthene	0.77	ug/L	0.045	03/04/16 15:24	
EPA 8270 by HVI	Benzo(g,h,i)perylene	0.29	ug/L	0.045	03/04/16 15:24	
EPA 8270 by HVI	Benzo(k)fluoranthene	0.42	ug/L	0.045	03/04/16 15:24	
EPA 8270 by HVI	Chrysene	0.92	ug/L	0.045	03/04/16 15:24	
EPA 8270 by HVI	Dibenz(a,h)anthracene	0.074	ug/L	0.045	03/04/16 15:24	
EPA 8270 by HVI	Fluoranthene	2.1	ug/L	0.045	03/04/16 15:24	
EPA 8270 by HVI	Fluorene	0.52	ug/L	0.045	03/04/16 15:24	
EPA 8270 by HVI	Indeno(1,2,3-cd)pyrene	0.25	ug/L	0.045	03/04/16 15:24	
EPA 8270 by HVI	1-Methylnaphthalene	0.074	ug/L	0.045	03/04/16 15:24	
EPA 8270 by HVI	2-Methylnaphthalene	0.087	ug/L	0.045	03/04/16 15:24	
EPA 8270 by HVI	Naphthalene	0.23	ug/L	0.045	03/04/16 15:24	
EPA 8270 by HVI	Phenanthrene	2.4	ug/L	0.045	03/04/16 15:24	
EPA 8270 by HVI	Pyrene	1.5	ug/L	0.045	03/04/16 15:24	
40128832003	**MW-3**					
6010C Met	Barium, Dissolved	67.1	ug/L	4.1	03/09/16 06:01	
6010C Met	Chromium, Dissolved	2.0J	ug/L	2.9	03/09/16 06:01	
EPA 8270 by HVI	Anthracene	0.0041J	ug/L	0.045	03/04/16 15:43	
EPA 8270 by HVI	Benzo(a)anthracene	0.020J	ug/L	0.045	03/04/16 15:43	
EPA 8270 by HVI	Benzo(a)pyrene	0.018J	ug/L	0.045	03/04/16 15:43	
EPA 8270 by HVI	Benzo(b)fluoranthene	0.038J	ug/L	0.045	03/04/16 15:43	
EPA 8270 by HVI	Benzo(g,h,i)perylene	0.018J	ug/L	0.045	03/04/16 15:43	
EPA 8270 by HVI	Benzo(k)fluoranthene	0.019J	ug/L	0.045	03/04/16 15:43	
EPA 8270 by HVI	Chrysene	0.038J	ug/L	0.045	03/04/16 15:43	
EPA 8270 by HVI	Fluoranthene	0.064	ug/L	0.045	03/04/16 15:43	
EPA 8270 by HVI	Fluorene	0.0046J	ug/L	0.045	03/04/16 15:43	
EPA 8270 by HVI	Indeno(1,2,3-cd)pyrene	0.013J	ug/L	0.045	03/04/16 15:43	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SUMMARY OF DETECTION

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128832

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40128832003	**MW-3**					
EPA 8270 by HVI	1-Methylnaphthalene	0.0072J	ug/L	0.045	03/04/16 15:43	
EPA 8270 by HVI	2-Methylnaphthalene	0.014J	ug/L	0.045	03/04/16 15:43	B
EPA 8270 by HVI	Naphthalene	0.0079J	ug/L	0.045	03/04/16 15:43	B
EPA 8270 by HVI	Phenanthrene	0.043J	ug/L	0.045	03/04/16 15:43	
EPA 8270 by HVI	Pyrene	0.055	ug/L	0.045	03/04/16 15:43	

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128832

Sample: MW-1 **Lab ID: 40128832001** Collected: 02/29/16 12:45 Received: 03/01/16 16:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP, Dissolved	Analytical Method: 6010C Met Preparation Method: EPA 3010								
Arsenic, Dissolved	**<4.0**	ug/L	13.4	4.0	1	03/08/16 08:40	03/09/16 05:55	7440-38-2	
Barium, Dissolved	**67.9**	ug/L	4.1	1.2	1	03/08/16 08:40	03/09/16 05:55	7440-39-3	
Cadmium, Dissolved	**<0.65**	ug/L	2.2	0.65	1	03/08/16 08:40	03/09/16 05:55	7440-43-9	
Chromium, Dissolved	**<0.87**	ug/L	2.9	0.87	1	03/08/16 08:40	03/09/16 05:55	7440-47-3	
Lead, Dissolved	**<2.0**	ug/L	6.8	2.0	1	03/08/16 08:40	03/09/16 05:55	7439-92-1	
Selenium, Dissolved	**<8.3**	ug/L	27.5	8.3	1	03/08/16 08:40	03/09/16 05:55	7782-49-2	
Silver, Dissolved	**<2.4**	ug/L	7.8	2.4	1	03/08/16 08:40	03/09/16 05:55	7440-22-4	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.10**	ug/L	0.20	0.10	1	03/08/16 09:20	03/10/16 08:20	7439-97-6	
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**<0.0045**	ug/L	0.045	0.0045	1	03/04/16 08:30	03/04/16 15:06	83-32-9	
Acenaphthylene	**<0.0045**	ug/L	0.045	0.0045	1	03/04/16 08:30	03/04/16 15:06	208-96-8	
Anthracene	**<0.0037**	ug/L	0.045	0.0037	1	03/04/16 08:30	03/04/16 15:06	120-12-7	
Benzo(a)anthracene	**0.0088J**	ug/L	0.045	0.0047	1	03/04/16 08:30	03/04/16 15:06	56-55-3	
Benzo(a)pyrene	**0.0042J**	ug/L	0.045	0.0040	1	03/04/16 08:30	03/04/16 15:06	50-32-8	
Benzo(b)fluoranthene	**0.010J**	ug/L	0.045	0.0048	1	03/04/16 08:30	03/04/16 15:06	205-99-2	
Benzo(g,h,i)perylene	**0.0040J**	ug/L	0.045	0.0032	1	03/04/16 08:30	03/04/16 15:06	191-24-2	
Benzo(k)fluoranthene	**0.0053J**	ug/L	0.045	0.0051	1	03/04/16 08:30	03/04/16 15:06	207-08-9	
Chrysene	**0.012J**	ug/L	0.045	0.0039	1	03/04/16 08:30	03/04/16 15:06	218-01-9	
Dibenz(a,h)anthracene	**<0.0051**	ug/L	0.045	0.0051	1	03/04/16 08:30	03/04/16 15:06	53-70-3	
Fluoranthene	**0.018J**	ug/L	0.045	0.0085	1	03/04/16 08:30	03/04/16 15:06	206-44-0	
Fluorene	**<0.0037**	ug/L	0.045	0.0037	1	03/04/16 08:30	03/04/16 15:06	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0033**	ug/L	0.045	0.0033	1	03/04/16 08:30	03/04/16 15:06	193-39-5	
1-Methylnaphthalene	**0.0029J**	ug/L	0.045	0.0028	1	03/04/16 08:30	03/04/16 15:06	90-12-0	
2-Methylnaphthalene	**0.0039J**	ug/L	0.045	0.0025	1	03/04/16 08:30	03/04/16 15:06	91-57-6	B
Naphthalene	**0.028J**	ug/L	0.045	0.0041	1	03/04/16 08:30	03/04/16 15:06	91-20-3	B
Phenanthrene	**0.016J**	ug/L	0.045	0.0070	1	03/04/16 08:30	03/04/16 15:06	85-01-8	
Pyrene	**0.017J**	ug/L	0.045	0.0070	1	03/04/16 08:30	03/04/16 15:06	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	59	%	25-130		1	03/04/16 08:30	03/04/16 15:06	321-60-8	
Terphenyl-d14 (S)	86	%	13-158		1	03/04/16 08:30	03/04/16 15:06	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:03	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		03/04/16 12:03	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		03/04/16 12:03	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:03	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:03	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		03/04/16 12:03	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:03	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		03/04/16 12:03	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		03/04/16 12:03	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:03	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:03	108-90-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128832

Sample: MW-1 **Lab ID: 40128832001** Collected: 02/29/16 12:45 Received: 03/01/16 16:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		03/04/16 12:03	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		03/04/16 12:03	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:03	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:03	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		03/04/16 12:03	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		03/04/16 12:03	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:03	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		03/04/16 12:03	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		03/04/16 12:03	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:03	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:03	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:03	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		03/04/16 12:03	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		03/04/16 12:03	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		03/04/16 12:03	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		03/04/16 12:03	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/04/16 12:03	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/04/16 12:03	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		03/04/16 12:03	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:03	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		03/04/16 12:03	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		03/04/16 12:03	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:03	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		03/04/16 12:03	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:03	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:03	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		03/04/16 12:03	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		03/04/16 12:03	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:03	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		03/04/16 12:03	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		03/04/16 12:03	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		03/04/16 12:03	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:03	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:03	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		03/04/16 12:03	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		03/04/16 12:03	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:03	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:03	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		03/04/16 12:03	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		03/04/16 12:03	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:03	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		03/04/16 12:03	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		03/04/16 12:03	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		03/04/16 12:03	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:03	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:03	95-63-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128832

Sample: MW-1 **Lab ID: 40128832001** Collected: 02/29/16 12:45 Received: 03/01/16 16:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:03	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/04/16 12:03	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		03/04/16 12:03	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:03	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		03/04/16 12:03	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		03/04/16 12:03	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		03/04/16 12:03	2037-26-5	

Sample: MW-2 **Lab ID: 40128832002** Collected: 02/29/16 13:20 Received: 03/01/16 16:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP, Dissolved	Analytical Method: 6010C Met Preparation Method: EPA 3010								
Arsenic, Dissolved	**<4.0**	ug/L	13.4	4.0	1	03/08/16 08:40	03/09/16 05:58	7440-38-2	
Barium, Dissolved	**66.0**	ug/L	4.1	1.2	1	03/08/16 08:40	03/09/16 05:58	7440-39-3	
Cadmium, Dissolved	**<0.65**	ug/L	2.2	0.65	1	03/08/16 08:40	03/09/16 05:58	7440-43-9	
Chromium, Dissolved	**<0.87**	ug/L	2.9	0.87	1	03/08/16 08:40	03/09/16 05:58	7440-47-3	
Lead, Dissolved	**<2.0**	ug/L	6.8	2.0	1	03/08/16 08:40	03/09/16 05:58	7439-92-1	
Selenium, Dissolved	**<8.3**	ug/L	27.5	8.3	1	03/08/16 08:40	03/09/16 05:58	7782-49-2	
Silver, Dissolved	**<2.4**	ug/L	7.8	2.4	1	03/08/16 08:40	03/09/16 05:58	7440-22-4	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.10**	ug/L	0.20	0.10	1	03/08/16 09:20	03/10/16 08:22	7439-97-6	
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**0.32**	ug/L	0.045	0.0045	1	03/04/16 08:30	03/04/16 15:24	83-32-9	
Acenaphthylene	**0.018J**	ug/L	0.045	0.0045	1	03/04/16 08:30	03/04/16 15:24	208-96-8	
Anthracene	**0.85**	ug/L	0.045	0.0037	1	03/04/16 08:30	03/04/16 15:24	120-12-7	
Benzo(a)anthracene	**0.67**	ug/L	0.045	0.0047	1	03/04/16 08:30	03/04/16 15:24	56-55-3	
Benzo(a)pyrene	**0.51**	ug/L	0.045	0.0040	1	03/04/16 08:30	03/04/16 15:24	50-32-8	
Benzo(b)fluoranthene	**0.77**	ug/L	0.045	0.0048	1	03/04/16 08:30	03/04/16 15:24	205-99-2	
Benzo(g,h,i)perylene	**0.29**	ug/L	0.045	0.0032	1	03/04/16 08:30	03/04/16 15:24	191-24-2	
Benzo(k)fluoranthene	**0.42**	ug/L	0.045	0.0051	1	03/04/16 08:30	03/04/16 15:24	207-08-9	
Chrysene	**0.92**	ug/L	0.045	0.0039	1	03/04/16 08:30	03/04/16 15:24	218-01-9	
Dibenz(a,h)anthracene	**0.074**	ug/L	0.045	0.0051	1	03/04/16 08:30	03/04/16 15:24	53-70-3	
Fluoranthene	**2.1**	ug/L	0.045	0.0085	1	03/04/16 08:30	03/04/16 15:24	206-44-0	
Fluorene	**0.52**	ug/L	0.045	0.0037	1	03/04/16 08:30	03/04/16 15:24	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.25**	ug/L	0.045	0.0033	1	03/04/16 08:30	03/04/16 15:24	193-39-5	
1-Methylnaphthalene	**0.074**	ug/L	0.045	0.0028	1	03/04/16 08:30	03/04/16 15:24	90-12-0	
2-Methylnaphthalene	**0.087**	ug/L	0.045	0.0025	1	03/04/16 08:30	03/04/16 15:24	91-57-6	
Naphthalene	**0.23**	ug/L	0.045	0.0041	1	03/04/16 08:30	03/04/16 15:24	91-20-3	
Phenanthrene	**2.4**	ug/L	0.045	0.0070	1	03/04/16 08:30	03/04/16 15:24	85-01-8	
Pyrene	**1.5**	ug/L	0.045	0.0070	1	03/04/16 08:30	03/04/16 15:24	129-00-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128832

Sample: MW-2 **Lab ID: 40128832002** Collected: 02/29/16 13:20 Received: 03/01/16 16:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Surrogates									
2-Fluorobiphenyl (S)	57	%	25-130		1	03/04/16 08:30	03/04/16 15:24	321-60-8	
Terphenyl-d14 (S)	80	%	13-158		1	03/04/16 08:30	03/04/16 15:24	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 14:42	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		03/04/16 14:42	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		03/04/16 14:42	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		03/04/16 14:42	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		03/04/16 14:42	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		03/04/16 14:42	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 14:42	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		03/04/16 14:42	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		03/04/16 14:42	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		03/04/16 14:42	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 14:42	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		03/04/16 14:42	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		03/04/16 14:42	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		03/04/16 14:42	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 14:42	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		03/04/16 14:42	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		03/04/16 14:42	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		03/04/16 14:42	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		03/04/16 14:42	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		03/04/16 14:42	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 14:42	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 14:42	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 14:42	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		03/04/16 14:42	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		03/04/16 14:42	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		03/04/16 14:42	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		03/04/16 14:42	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/04/16 14:42	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/04/16 14:42	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		03/04/16 14:42	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		03/04/16 14:42	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		03/04/16 14:42	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		03/04/16 14:42	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 14:42	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		03/04/16 14:42	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		03/04/16 14:42	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 14:42	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		03/04/16 14:42	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		03/04/16 14:42	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 14:42	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		03/04/16 14:42	75-09-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
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(920)469-2436

ANALYTICAL RESULTS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128832

Sample: MW-2 **Lab ID: 40128832002** Collected: 02/29/16 13:20 Received: 03/01/16 16:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		03/04/16 14:42	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		03/04/16 14:42	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 14:42	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 14:42	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		03/04/16 14:42	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		03/04/16 14:42	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 14:42	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 14:42	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		03/04/16 14:42	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		03/04/16 14:42	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		03/04/16 14:42	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		03/04/16 14:42	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		03/04/16 14:42	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		03/04/16 14:42	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		03/04/16 14:42	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 14:42	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 14:42	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/04/16 14:42	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		03/04/16 14:42	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 14:42	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		03/04/16 14:42	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		03/04/16 14:42	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		03/04/16 14:42	2037-26-5	

Sample: MW-3 **Lab ID: 40128832003** Collected: 02/29/16 11:45 Received: 03/01/16 16:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP, Dissolved	Analytical Method: 6010C Met Preparation Method: EPA 3010								
Arsenic, Dissolved	**<4.0**	ug/L	13.4	4.0	1	03/08/16 08:40	03/09/16 06:01	7440-38-2	
Barium, Dissolved	**67.1**	ug/L	4.1	1.2	1	03/08/16 08:40	03/09/16 06:01	7440-39-3	
Cadmium, Dissolved	**<0.65**	ug/L	2.2	0.65	1	03/08/16 08:40	03/09/16 06:01	7440-43-9	
Chromium, Dissolved	**2.0J**	ug/L	2.9	0.87	1	03/08/16 08:40	03/09/16 06:01	7440-47-3	
Lead, Dissolved	**<2.0**	ug/L	6.8	2.0	1	03/08/16 08:40	03/09/16 06:01	7439-92-1	
Selenium, Dissolved	**<8.3**	ug/L	27.5	8.3	1	03/08/16 08:40	03/09/16 06:01	7782-49-2	
Silver, Dissolved	**<2.4**	ug/L	7.8	2.4	1	03/08/16 08:40	03/09/16 06:01	7440-22-4	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.10**	ug/L	0.20	0.10	1	03/08/16 09:20	03/10/16 08:24	7439-97-6	
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**<0.0045**	ug/L	0.045	0.0045	1	03/04/16 08:30	03/04/16 15:43	83-32-9	
Acenaphthylene	**<0.0045**	ug/L	0.045	0.0045	1	03/04/16 08:30	03/04/16 15:43	208-96-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128832

Sample: MW-3 **Lab ID: 40128832003** Collected: 02/29/16 11:45 Received: 03/01/16 16:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Anthracene	**0.0041J**	ug/L	0.045	0.0037	1	03/04/16 08:30	03/04/16 15:43	120-12-7	
Benzo(a)anthracene	**0.020J**	ug/L	0.045	0.0047	1	03/04/16 08:30	03/04/16 15:43	56-55-3	
Benzo(a)pyrene	**0.018J**	ug/L	0.045	0.0040	1	03/04/16 08:30	03/04/16 15:43	50-32-8	
Benzo(b)fluoranthene	**0.038J**	ug/L	0.045	0.0048	1	03/04/16 08:30	03/04/16 15:43	205-99-2	
Benzo(g,h,i)perylene	**0.018J**	ug/L	0.045	0.0032	1	03/04/16 08:30	03/04/16 15:43	191-24-2	
Benzo(k)fluoranthene	**0.019J**	ug/L	0.045	0.0051	1	03/04/16 08:30	03/04/16 15:43	207-08-9	
Chrysene	**0.038J**	ug/L	0.045	0.0039	1	03/04/16 08:30	03/04/16 15:43	218-01-9	
Dibenz(a,h)anthracene	**<0.0051**	ug/L	0.045	0.0051	1	03/04/16 08:30	03/04/16 15:43	53-70-3	
Fluoranthene	**0.064**	ug/L	0.045	0.0085	1	03/04/16 08:30	03/04/16 15:43	206-44-0	
Fluorene	**0.0046J**	ug/L	0.045	0.0037	1	03/04/16 08:30	03/04/16 15:43	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.013J**	ug/L	0.045	0.0033	1	03/04/16 08:30	03/04/16 15:43	193-39-5	
1-Methylnaphthalene	**0.0072J**	ug/L	0.045	0.0028	1	03/04/16 08:30	03/04/16 15:43	90-12-0	
2-Methylnaphthalene	**0.014J**	ug/L	0.045	0.0025	1	03/04/16 08:30	03/04/16 15:43	91-57-6	B
Naphthalene	**0.0079J**	ug/L	0.045	0.0041	1	03/04/16 08:30	03/04/16 15:43	91-20-3	B
Phenanthrene	**0.043J**	ug/L	0.045	0.0070	1	03/04/16 08:30	03/04/16 15:43	85-01-8	
Pyrene	**0.055**	ug/L	0.045	0.0070	1	03/04/16 08:30	03/04/16 15:43	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	59	%	25-130		1	03/04/16 08:30	03/04/16 15:43	321-60-8	
Terphenyl-d14 (S)	90	%	13-158		1	03/04/16 08:30	03/04/16 15:43	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 15:04	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		03/04/16 15:04	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		03/04/16 15:04	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		03/04/16 15:04	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		03/04/16 15:04	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		03/04/16 15:04	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 15:04	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		03/04/16 15:04	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		03/04/16 15:04	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		03/04/16 15:04	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 15:04	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		03/04/16 15:04	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		03/04/16 15:04	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		03/04/16 15:04	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 15:04	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		03/04/16 15:04	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		03/04/16 15:04	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		03/04/16 15:04	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		03/04/16 15:04	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		03/04/16 15:04	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 15:04	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 15:04	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 15:04	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		03/04/16 15:04	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		03/04/16 15:04	75-34-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128832

Sample: MW-3 **Lab ID: 40128832003** Collected: 02/29/16 11:45 Received: 03/01/16 16:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		03/04/16 15:04	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		03/04/16 15:04	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/04/16 15:04	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/04/16 15:04	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		03/04/16 15:04	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		03/04/16 15:04	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		03/04/16 15:04	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		03/04/16 15:04	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 15:04	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		03/04/16 15:04	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		03/04/16 15:04	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 15:04	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		03/04/16 15:04	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		03/04/16 15:04	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 15:04	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		03/04/16 15:04	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		03/04/16 15:04	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		03/04/16 15:04	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 15:04	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 15:04	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		03/04/16 15:04	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		03/04/16 15:04	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 15:04	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 15:04	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		03/04/16 15:04	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		03/04/16 15:04	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		03/04/16 15:04	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		03/04/16 15:04	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		03/04/16 15:04	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		03/04/16 15:04	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		03/04/16 15:04	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 15:04	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 15:04	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/04/16 15:04	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		03/04/16 15:04	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 15:04	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		03/04/16 15:04	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		03/04/16 15:04	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		03/04/16 15:04	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128832

Sample: TRIP **Lab ID: 40128832004** Collected: 02/29/16 13:30 Received: 03/01/16 16:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:26	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		03/04/16 12:26	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		03/04/16 12:26	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:26	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:26	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		03/04/16 12:26	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:26	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		03/04/16 12:26	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		03/04/16 12:26	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:26	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:26	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		03/04/16 12:26	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		03/04/16 12:26	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:26	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:26	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		03/04/16 12:26	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		03/04/16 12:26	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:26	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		03/04/16 12:26	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		03/04/16 12:26	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:26	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:26	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:26	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		03/04/16 12:26	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		03/04/16 12:26	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		03/04/16 12:26	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		03/04/16 12:26	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/04/16 12:26	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/04/16 12:26	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		03/04/16 12:26	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:26	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		03/04/16 12:26	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		03/04/16 12:26	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:26	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		03/04/16 12:26	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:26	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:26	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		03/04/16 12:26	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		03/04/16 12:26	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:26	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		03/04/16 12:26	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		03/04/16 12:26	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		03/04/16 12:26	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:26	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:26	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		03/04/16 12:26	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128832

Sample: TRIP **Lab ID: 40128832004** Collected: 02/29/16 13:30 Received: 03/01/16 16:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		03/04/16 12:26	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:26	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:26	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		03/04/16 12:26	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		03/04/16 12:26	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:26	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		03/04/16 12:26	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		03/04/16 12:26	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		03/04/16 12:26	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:26	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:26	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:26	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/04/16 12:26	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		03/04/16 12:26	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		03/04/16 12:26	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		03/04/16 12:26	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		03/04/16 12:26	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		03/04/16 12:26	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128832

QC Batch: MERP/5619 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury Dissolved
Associated Lab Samples: 40128832001, 40128832002, 40128832003

METHOD BLANK: 1303245 Matrix: Water
Associated Lab Samples: 40128832001, 40128832002, 40128832003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.10	0.20	03/10/16 07:40	

LABORATORY CONTROL SAMPLE: 1303246

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.2	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1303247 1303248

Parameter	Units	40128619001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	<0.10	5	5	5.8	5.6	116	113	85-115	3	20	M0

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128832

QC Batch: MPRP/61833 Analysis Method: 6010C Met
QC Batch Method: EPA 3010 Analysis Description: 6010C Water Dissolved
Associated Lab Samples: 40128832001, 40128832002, 40128832003

METHOD BLANK: 2205074 Matrix: Water
Associated Lab Samples: 40128832001, 40128832002, 40128832003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	<4.0	13.4	03/09/16 05:34	
Barium, Dissolved	ug/L	<1.2	4.1	03/09/16 05:34	
Cadmium, Dissolved	ug/L	<0.65	2.2	03/09/16 05:34	
Chromium, Dissolved	ug/L	<0.87	2.9	03/09/16 05:34	
Lead, Dissolved	ug/L	<2.0	6.8	03/09/16 05:34	
Selenium, Dissolved	ug/L	<8.3	27.5	03/09/16 05:34	
Silver, Dissolved	ug/L	<2.4	7.8	03/09/16 05:34	

LABORATORY CONTROL SAMPLE & LCSD: 2205075 2205271

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Arsenic, Dissolved	ug/L	1000	914	923	91	92	80-120	1	20	
Barium, Dissolved	ug/L	1000	955	964	96	96	80-120	1	20	
Cadmium, Dissolved	ug/L	1000	929	934	93	93	80-120	1	20	
Chromium, Dissolved	ug/L	1000	942	948	94	95	80-120	1	20	
Lead, Dissolved	ug/L	1000	960	966	96	97	80-120	1	20	
Selenium, Dissolved	ug/L	1000	937	951	94	95	80-120	2	20	
Silver, Dissolved	ug/L	500	473	475	95	95	80-120	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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(920)469-2436

QUALITY CONTROL DATA

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128832

QC Batch: MSV/32419 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40128832001, 40128832002, 40128832003, 40128832004

METHOD BLANK: 1302003 Matrix: Water
Associated Lab Samples: 40128832001, 40128832002, 40128832003, 40128832004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	03/04/16 10:10	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	03/04/16 10:10	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	03/04/16 10:10	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	03/04/16 10:10	
1,1-Dichloroethane	ug/L	<0.24	1.0	03/04/16 10:10	
1,1-Dichloroethene	ug/L	<0.41	1.0	03/04/16 10:10	
1,1-Dichloropropene	ug/L	<0.44	1.0	03/04/16 10:10	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	03/04/16 10:10	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	03/04/16 10:10	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	03/04/16 10:10	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	03/04/16 10:10	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	03/04/16 10:10	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	03/04/16 10:10	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	03/04/16 10:10	
1,2-Dichloroethane	ug/L	<0.17	1.0	03/04/16 10:10	
1,2-Dichloropropane	ug/L	<0.23	1.0	03/04/16 10:10	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	03/04/16 10:10	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	03/04/16 10:10	
1,3-Dichloropropane	ug/L	<0.50	1.0	03/04/16 10:10	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	03/04/16 10:10	
2,2-Dichloropropane	ug/L	<0.48	1.0	03/04/16 10:10	
2-Chlorotoluene	ug/L	<0.50	1.0	03/04/16 10:10	
4-Chlorotoluene	ug/L	<0.21	1.0	03/04/16 10:10	
Benzene	ug/L	<0.50	1.0	03/04/16 10:10	
Bromobenzene	ug/L	<0.23	1.0	03/04/16 10:10	
Bromochloromethane	ug/L	<0.34	1.0	03/04/16 10:10	
Bromodichloromethane	ug/L	<0.50	1.0	03/04/16 10:10	
Bromoform	ug/L	<0.50	1.0	03/04/16 10:10	
Bromomethane	ug/L	<2.4	5.0	03/04/16 10:10	
Carbon tetrachloride	ug/L	<0.50	1.0	03/04/16 10:10	
Chlorobenzene	ug/L	<0.50	1.0	03/04/16 10:10	
Chloroethane	ug/L	<0.37	1.0	03/04/16 10:10	
Chloroform	ug/L	<2.5	5.0	03/04/16 10:10	
Chloromethane	ug/L	<0.50	1.0	03/04/16 10:10	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	03/04/16 10:10	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	03/04/16 10:10	
Dibromochloromethane	ug/L	<0.50	1.0	03/04/16 10:10	
Dibromomethane	ug/L	<0.43	1.0	03/04/16 10:10	
Dichlorodifluoromethane	ug/L	<0.22	1.0	03/04/16 10:10	
Diisopropyl ether	ug/L	<0.50	1.0	03/04/16 10:10	
Ethylbenzene	ug/L	<0.50	1.0	03/04/16 10:10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128832

METHOD BLANK: 1302003 Matrix: Water
Associated Lab Samples: 40128832001, 40128832002, 40128832003, 40128832004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	03/04/16 10:10	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	03/04/16 10:10	
m&p-Xylene	ug/L	<1.0	2.0	03/04/16 10:10	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	03/04/16 10:10	
Methylene Chloride	ug/L	<0.23	1.0	03/04/16 10:10	
n-Butylbenzene	ug/L	<0.50	1.0	03/04/16 10:10	
n-Propylbenzene	ug/L	<0.50	1.0	03/04/16 10:10	
Naphthalene	ug/L	<2.5	5.0	03/04/16 10:10	
o-Xylene	ug/L	<0.50	1.0	03/04/16 10:10	
p-Isopropyltoluene	ug/L	<0.50	1.0	03/04/16 10:10	
sec-Butylbenzene	ug/L	<2.2	5.0	03/04/16 10:10	
Styrene	ug/L	<0.50	1.0	03/04/16 10:10	
tert-Butylbenzene	ug/L	<0.18	1.0	03/04/16 10:10	
Tetrachloroethene	ug/L	<0.50	1.0	03/04/16 10:10	
Toluene	ug/L	<0.50	1.0	03/04/16 10:10	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	03/04/16 10:10	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	03/04/16 10:10	
Trichloroethene	ug/L	<0.33	1.0	03/04/16 10:10	
Trichlorofluoromethane	ug/L	<0.18	1.0	03/04/16 10:10	
Vinyl chloride	ug/L	<0.18	1.0	03/04/16 10:10	
4-Bromofluorobenzene (S)	%	103	70-130	03/04/16 10:10	
Dibromofluoromethane (S)	%	100	70-130	03/04/16 10:10	
Toluene-d8 (S)	%	98	70-130	03/04/16 10:10	

LABORATORY CONTROL SAMPLE: 1302004

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	55.8	112	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	49.8	100	70-130	
1,1,2-Trichloroethane	ug/L	50	52.4	105	70-130	
1,1-Dichloroethane	ug/L	50	53.4	107	70-130	
1,1-Dichloroethene	ug/L	50	52.5	105	70-130	
1,2,4-Trichlorobenzene	ug/L	50	48.5	97	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	46.4	93	50-150	
1,2-Dibromoethane (EDB)	ug/L	50	52.0	104	70-130	
1,2-Dichlorobenzene	ug/L	50	52.7	105	70-130	
1,2-Dichloroethane	ug/L	50	51.4	103	70-131	
1,2-Dichloropropane	ug/L	50	54.2	108	70-130	
1,3-Dichlorobenzene	ug/L	50	53.4	107	70-130	
1,4-Dichlorobenzene	ug/L	50	51.9	104	70-130	
Benzene	ug/L	50	53.8	108	70-130	
Bromodichloromethane	ug/L	50	53.2	106	70-130	
Bromoform	ug/L	50	47.0	94	68-130	
Bromomethane	ug/L	50	38.7	77	38-137	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128832

LABORATORY CONTROL SAMPLE: 1302004

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	56.8	114	70-130	
Chlorobenzene	ug/L	50	54.6	109	70-130	
Chloroethane	ug/L	50	45.8	92	70-136	
Chloroform	ug/L	50	52.9	106	70-130	
Chloromethane	ug/L	50	40.6	81	48-144	
cis-1,2-Dichloroethene	ug/L	50	53.5	107	70-130	
cis-1,3-Dichloropropene	ug/L	50	48.7	97	70-130	
Dibromochloromethane	ug/L	50	49.7	99	70-130	
Dichlorodifluoromethane	ug/L	50	42.4	85	33-157	
Ethylbenzene	ug/L	50	55.7	111	70-132	
Isopropylbenzene (Cumene)	ug/L	50	57.6	115	70-130	
m&p-Xylene	ug/L	100	112	112	70-131	
Methyl-tert-butyl ether	ug/L	50	51.2	102	48-141	
Methylene Chloride	ug/L	50	51.7	103	70-130	
o-Xylene	ug/L	50	55.7	111	70-131	
Styrene	ug/L	50	56.8	114	70-130	
Tetrachloroethene	ug/L	50	54.3	109	70-130	
Toluene	ug/L	50	55.7	111	70-130	
trans-1,2-Dichloroethene	ug/L	50	52.5	105	70-130	
trans-1,3-Dichloropropene	ug/L	50	48.9	98	70-130	
Trichloroethene	ug/L	50	55.8	112	70-130	
Trichlorofluoromethane	ug/L	50	52.7	105	50-150	
Vinyl chloride	ug/L	50	47.1	94	65-142	
4-Bromofluorobenzene (S)	%			104	70-130	
Dibromofluoromethane (S)	%			102	70-130	
Toluene-d8 (S)	%			103	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1302078 1302079

Parameter	Units	40128832001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.50	50	50	56.2	57.5	112	115	70-130	2	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	50.2	51.3	100	103	70-130	2	20	
1,1,2-Trichloroethane	ug/L	<0.20	50	50	53.9	54.9	108	110	70-130	2	20	
1,1-Dichloroethane	ug/L	<0.24	50	50	54.1	53.7	108	107	70-134	1	20	
1,1-Dichloroethene	ug/L	<0.41	50	50	54.1	55.0	108	110	70-139	2	20	
1,2,4-Trichlorobenzene	ug/L	<2.2	50	50	50.2	51.3	100	102	70-130	2	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	50.5	47.3	101	95	50-150	6	20	
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	52.4	54.4	105	109	70-130	4	20	
1,2-Dichlorobenzene	ug/L	<0.50	50	50	53.1	52.4	106	104	70-130	1	20	
1,2-Dichloroethane	ug/L	<0.17	50	50	52.8	52.8	106	106	70-132	0	20	
1,2-Dichloropropane	ug/L	<0.23	50	50	54.2	54.8	108	110	70-130	1	20	
1,3-Dichlorobenzene	ug/L	<0.50	50	50	53.4	54.3	106	108	70-130	2	20	
1,4-Dichlorobenzene	ug/L	<0.50	50	50	52.8	53.3	105	106	70-130	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128832

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1302078 1302079

Parameter	Units	40128832001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.50	50	50	55.4	56.6	111	113	70-130	2	20	
Bromodichloromethane	ug/L	<0.50	50	50	53.0	53.6	106	107	70-132	1	20	
Bromoform	ug/L	<0.50	50	50	46.4	48.0	93	96	68-130	4	20	
Bromomethane	ug/L	<2.4	50	50	42.2	43.2	84	86	38-141	2	20	
Carbon tetrachloride	ug/L	<0.50	50	50	58.4	58.0	117	116	70-130	1	20	
Chlorobenzene	ug/L	<0.50	50	50	55.0	55.3	110	110	70-130	1	20	
Chloroethane	ug/L	<0.37	50	50	47.1	45.3	94	91	66-152	4	20	
Chloroform	ug/L	<2.5	50	50	54.2	54.4	108	109	70-130	0	20	
Chloromethane	ug/L	<0.50	50	50	41.3	40.5	83	81	44-151	2	20	
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	54.1	54.3	108	109	70-130	0	20	
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	48.6	49.5	97	99	70-130	2	20	
Dibromochloromethane	ug/L	<0.50	50	50	48.5	50.6	97	101	70-130	4	20	
Dichlorodifluoromethane	ug/L	<0.22	50	50	42.9	42.7	86	85	29-160	0	20	
Ethylbenzene	ug/L	<0.50	50	50	54.9	56.1	109	112	70-132	2	20	
Isopropylbenzene (Cumene)	ug/L	<0.14	50	50	56.9	57.9	114	116	70-130	2	20	
m&p-Xylene	ug/L	<1.0	100	100	111	114	111	113	70-131	2	20	
Methyl-tert-butyl ether	ug/L	<0.17	50	50	52.3	52.3	105	105	48-143	0	20	
Methylene Chloride	ug/L	<0.23	50	50	53.2	52.9	106	106	70-130	1	20	
o-Xylene	ug/L	<0.50	50	50	54.1	54.5	108	109	70-131	1	20	
Styrene	ug/L	<0.50	50	50	56.7	57.2	113	114	70-130	1	20	
Tetrachloroethene	ug/L	<0.50	50	50	54.3	55.6	108	110	70-130	2	20	
Toluene	ug/L	<0.50	50	50	55.6	55.9	111	112	70-130	0	20	
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	55.0	54.7	110	109	70-132	1	20	
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	48.0	49.0	96	98	70-130	2	20	
Trichloroethene	ug/L	<0.33	50	50	55.0	56.3	110	112	70-130	2	20	
Trichlorofluoromethane	ug/L	<0.18	50	50	54.0	54.4	108	109	50-153	1	20	
Vinyl chloride	ug/L	<0.18	50	50	48.4	48.2	97	96	60-155	0	20	
4-Bromofluorobenzene (S)	%						101	102	70-130			
Dibromofluoromethane (S)	%						104	104	70-130			
Toluene-d8 (S)	%						101	101	70-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128832

QC Batch: OEXT/29813 Analysis Method: EPA 8270 by HVI
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI
Associated Lab Samples: 40128832001, 40128832002, 40128832003

METHOD BLANK: 1301951 Matrix: Water
Associated Lab Samples: 40128832001, 40128832002, 40128832003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0031	0.050	03/04/16 13:16	
2-Methylnaphthalene	ug/L	0.0029J	0.050	03/04/16 13:16	
Acenaphthene	ug/L	<0.0050	0.050	03/04/16 13:16	
Acenaphthylene	ug/L	<0.0049	0.050	03/04/16 13:16	
Anthracene	ug/L	<0.0040	0.050	03/04/16 13:16	
Benzo(a)anthracene	ug/L	<0.0051	0.050	03/04/16 13:16	
Benzo(a)pyrene	ug/L	<0.0044	0.050	03/04/16 13:16	
Benzo(b)fluoranthene	ug/L	<0.0053	0.050	03/04/16 13:16	
Benzo(g,h,i)perylene	ug/L	<0.0035	0.050	03/04/16 13:16	
Benzo(k)fluoranthene	ug/L	<0.0056	0.050	03/04/16 13:16	
Chrysene	ug/L	<0.0042	0.050	03/04/16 13:16	
Dibenz(a,h)anthracene	ug/L	<0.0056	0.050	03/04/16 13:16	
Fluoranthene	ug/L	<0.0094	0.050	03/04/16 13:16	
Fluorene	ug/L	<0.0040	0.050	03/04/16 13:16	
Indeno(1,2,3-cd)pyrene	ug/L	<0.0036	0.050	03/04/16 13:16	
Naphthalene	ug/L	0.0091J	0.050	03/04/16 13:16	
Phenanthrene	ug/L	<0.0077	0.050	03/04/16 13:16	
Pyrene	ug/L	<0.0077	0.050	03/04/16 13:16	
2-Fluorobiphenyl (S)	%	61	25-130	03/04/16 13:16	
Terphenyl-d14 (S)	%	104	13-158	03/04/16 13:16	

LABORATORY CONTROL SAMPLE: 1301952

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2	1.3	65	35-130	
2-Methylnaphthalene	ug/L	2	1.3	66	36-130	
Acenaphthene	ug/L	2	1.5	75	41-130	
Acenaphthylene	ug/L	2	1.4	69	41-130	
Anthracene	ug/L	2	1.8	90	38-130	
Benzo(a)anthracene	ug/L	2	1.8	92	49-130	
Benzo(a)pyrene	ug/L	2	2.2	109	69-143	
Benzo(b)fluoranthene	ug/L	2	2.3	113	63-146	
Benzo(g,h,i)perylene	ug/L	2	2.2	109	10-145	
Benzo(k)fluoranthene	ug/L	2	2.3	115	64-152	
Chrysene	ug/L	2	2.4	120	64-156	
Dibenz(a,h)anthracene	ug/L	2	2.3	113	10-143	
Fluoranthene	ug/L	2	2.1	107	54-134	
Fluorene	ug/L	2	1.6	82	44-130	
Indeno(1,2,3-cd)pyrene	ug/L	2	2.3	114	39-140	
Naphthalene	ug/L	2	1.2	60	35-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128832

LABORATORY CONTROL SAMPLE: 1301952

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	2	1.9	97	51-130	
Pyrene	ug/L	2	2.1	106	61-140	
2-Fluorobiphenyl (S)	%			71	25-130	
Terphenyl-d14 (S)	%			106	13-158	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1301953 1301954

Parameter	Units	40128780007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	32.6	2	2	40.3	37.9	389	266	16-130	6	30	M6
2-Methylnaphthalene	ug/L	45.0	2	2	55.5	52.1	523	354	33-130	6	30	M6
Acenaphthene	ug/L	0.13J	2	2	1.4	1.4	62	61	29-130	1	27	
Acenaphthylene	ug/L	<0.099	2	2	1.2	1.2	59	60	33-130	2	27	
Anthracene	ug/L	<0.081	2	2	0.94J	1.1	47	53	26-130		31	
Benzo(a)anthracene	ug/L	<0.10	2	2	0.82J	1.0	41	52	27-130		36	
Benzo(a)pyrene	ug/L	<0.088	2	2	0.77J	1.0	38	50	16-151		44	
Benzo(b)fluoranthene	ug/L	<0.11	2	2	0.88J	1.2	41	57	30-142		41	
Benzo(g,h,i)perylene	ug/L	<0.070	2	2	0.78J	1.1	39	54	10-130		50	
Benzo(k)fluoranthene	ug/L	<0.11	2	2	0.80J	1.1	40	57	24-152		41	
Chrysene	ug/L	<0.085	2	2	1.3	1.7	62	82	40-152	27	33	
Dibenz(a,h)anthracene	ug/L	<0.11	2	2	0.62J	0.81J	31	40	10-130		50	
Fluoranthene	ug/L	<0.19	2	2	1.1	1.3	55	66	39-140	19	30	
Fluorene	ug/L	<0.081	2	2	1.3	1.3	64	62	35-130	2	26	
Indeno(1,2,3-cd)pyrene	ug/L	<0.072	2	2	0.70J	0.83J	35	42	10-130		50	
Naphthalene	ug/L	226	2	2	273	260	2380	1710	29-130	5	31	M6
Phenanthrene	ug/L	<0.15	2	2	1.3	1.5	65	71	48-130	9	25	
Pyrene	ug/L	<0.15	2	2	1.1	1.5	55	75	42-143	30	25	R1
2-Fluorobiphenyl (S)	%						63	59	25-130			
Terphenyl-d14 (S)	%						34	35	13-158			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128832

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay
PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
R1	RPD value was outside control limits.

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 16.0131.01 HARWOOD AVE
Pace Project No.: 40128832

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40128832001	**MW-1**	EPA 3010	MPRP/61833	6010C Met	ICP/27022
40128832002	**MW-2**	EPA 3010	MPRP/61833	6010C Met	ICP/27022
40128832003	**MW-3**	EPA 3010	MPRP/61833	6010C Met	ICP/27022
40128832001	**MW-1**	EPA 7470	MERP/5619	EPA 7470	MERC/7879
40128832002	**MW-2**	EPA 7470	MERP/5619	EPA 7470	MERC/7879
40128832003	**MW-3**	EPA 7470	MERP/5619	EPA 7470	MERC/7879
40128832001	**MW-1**	EPA 3510	OEXT/29813	EPA 8270 by HVI	MSSV/8815
40128832002	**MW-2**	EPA 3510	OEXT/29813	EPA 8270 by HVI	MSSV/8815
40128832003	**MW-3**	EPA 3510	OEXT/29813	EPA 8270 by HVI	MSSV/8815
40128832001	**MW-1**	EPA 8260	MSV/32419		
40128832002	**MW-2**	EPA 8260	MSV/32419		
40128832003	**MW-3**	EPA 8260	MSV/32419		
40128832004	**TRIP**	EPA 8260	MSV/32419		

UPPER MIDWEST REGION
MN: 612-607-1700 **WI:** 920-469-2436

Pace Analytical®
www.pacelabs.com

CHAIN OF CUSTODY

KJB

40128832

(Please Print Clearly)	
Company Name:	Kapur & Associates
Branch/Location:	Milwaukee
Project Contact:	Travis Peterson
Phone:	414 751 7279
Project Number:	16.0131.01
Project Name:	Harwood Ave
Project State:	WI
Sampled By (Print):	Rachel Beyer
Sampled By (Sign):	Rachel Beyer
PO #:	
Regulatory Program:	RR

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

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air W = Water
B = Biota DW = Drinking Water
C = Charcoal GW = Ground Water
O = Oil SW = Surface Water
S = Soil WW = Waste Water
SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: VOC	PAH	RCRA
~~001~~ 001	MW-1	2/29/16	12:24	GW	N	B	X	X	X
002	MW-2	2/29/16	11:45	GW	N	B	X	X	X
003	MW-3	2/29/16	1:20	GW	N	B	X	X	X
004	TRIP	2/29/16	1:30	GW	N	B	X		

BHT 3/1/16

Quote #:
Mail To Contact:
Mail To Company:
Mail To Address:
Invoice To Contact:
Invoice To Company:
Invoice To Address:
Invoice To Phone:

SAME

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
1-250ml pD	2-100ml agA	3-40ml vB
1-40ml vB		

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

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

Relinquished By:	Date/Time:	Received By:	Date/Time:
Rachel Beyer	3/1/16 13:49	Melissa Vonnen	3/1/16 1349
Melissa Vonnen Pace	3/1/16 1620	pace	3/1/16 1620

PACE Project No. 40128832

Receipt Temp = 0.1 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

APPENDIX E

METHODS OF INVESTIGATION

METHODS OF INVESTIGATION

1. Drilling and Collection of Soil Samples

Hydraulic Push (Geoprobe)
Soil borings and 1 inch groundwater monitoring wells were installed at the site using hydraulic push sampling. During drilling, continuous soil samples were obtained from soil borings in general accordance with the Standard Penetration Test (SPT) procedure (ASTM D-1586) ensuring that no gaps appeared in soil column. The samples were examined for color, odor, texture, moistness, and other characteristics of the soil. These observations were used to prepare descriptive geologic logs for each boring and classify the soils according to Unified Soil Classification System (USCS).

2. Monitoring Well Installation

Monitoring wells were installed using a Hollow Stem Auger (HSA) equipped with a 2 inch diameter auger. Boreholes were advanced to 20 feet bgs before a 1 or 2 inch diameter PVC monitoring well was inserted. Monitoring wells were constructed using ten (10) feet of threaded PVC factory slotted screen and ten (10) feet of solid threaded PVC riser. Filter sand, fine sand, and granular bentonite were placed inside the annular space as the HSA was removed. The wells were capped with a PVC cover.

3. Decontamination Procedures

All downhole boring and sampling equipment was decontaminated before use and between the borings and sampling events. The macro-core sampler was decontaminated by the drilling contractor personnel between samples by scrubbing off soil particles with a brush and water in a bucket with an Alconox solution and then rinsing the sampler in a separate bucket of clean water. Two or more macro-core samplers were used alternately to minimize drilling delays during decontamination of the sampler.

4. Field-Screening of Soil Samples

A portion of each sample was field-screened for the presence of Volatile Organic Compounds (VOCs) using a Mini RAE 2000 Photoionization Detector (PID) equipped with an 11.7 eV probe. The samples were tested by filling a ziptight plastic freezer storage (zip-lock) bag half-full with desegregated soil and then sealing the bag. The bags were then set aside for a minimum of 20 minutes to allow any VOCs present within the soil to volatilize and equilibrate within headspace in the bag. If the ambient outside temperature was less than 700 Fahrenheit, then the sample was heated by storing the sample bag adjacent to the heating vent inside a heated truck cab. The VOC concentration in the bag headspace was then measured by gently piercing the bag with the tip of the PID probe and recording the highest meter response shown on the Mini RAE 2000 meter. A background measurement of ambient VOCs was also made immediately prior to each sample measurement and recorded on the PID forms. The PID was calibrated at the beginning using a standard of 100 parts per million (ppm) isobutylene gas and the manufacturer recommended calibration procedures.

5. Laboratory Analysis of Soil Samples

In addition to the soil used for PID testing, a separate portion of each sample was preserved for possible laboratory analyses. These samples were preserved by placing the soil in a labeled zip-lock bag, and then placing the bag into a cooler with ice. One to two samples from each of the borings were selected for laboratory analyses of VOCs, Polynuclear Aromatic Hydrocarbons (PAHs), and Resource Conservation Recovery Act (RCRA) Metals.

The samples were collected in the laboratory provided jars. All samples were stored in a cooler with ice and maintained at a temperature of approximately 40 C until delivered under chain of custody procedures to the laboratory personnel. Analytical methods used for analyzing the soil samples were: EPA Method 8021 for VOCs, EPA Method 8310 for PAHs, and EPA Method 6010 for Metals.

6. Boring Abandonment Procedures

After the completion of soil and groundwater sampling, the soil borings (not converted into monitoring wells) were properly abandoned in accordance with Chapter NR 141 of the Wisconsin Administrative Code (WAC). Each boring was backfilled to the ground surface with granular bentonite. The WDNR borehole abandonment forms were completed for each boring and are included as an appendix of this report.

7. Groundwater Sampling Procedures

All sampling and test equipment were thoroughly cleaned before use with potable water and phosphate free laboratory detergent, and then rinsed with potable water, followed by further rinse with distilled water. The sampling and test equipment were thoroughly cleaned by distilled water between uses at different sampling locations to avoid cross contamination. This included the water level meter used to determine the static water level. Disposable down-hole tubing and groundwater filters were used and replaced between each temporary monitoring well. Samples were collected in the laboratory provided sampling containers using dedicated down-hole tubing. Dedicated 0.45 µm disposable filters and tubing was used to filter the water samples collected for dissolved Metals analysis using a peristaltic pump.

8. Laboratory Analysis of Groundwater Samples

Groundwater samples were collected and analyzed for VOCs, PAHs, and Metals. Analytical methods used for analyzing the groundwater samples were EPA Method 8021 for VOCs, EPA Method 8310 for PAHs, and EPA Method 6010 for Metals.

In addition, a trip blank supplied by the laboratory accompanied the groundwater samples at all times until it was delivered to the laboratory personnel to provide quality assurance/quality control (QA/QC) data and was laboratory-analyzed for VOCs. The groundwater samples collected for VOC analysis were preserved with hydrochloric acid in the field; samples collected for dissolved Metals were filtered in the field through a 0.45 µm filter and preserved with nitric acid in the field; samples collected for PAH analysis were not filtered or preserved in the field.

C.2. Investigative Waste

Waste produced during investigation activities was minimal as borings and wells were installed utilizing direct push methods and one-inch diameter wells installed. The soil cutting were containerized and taken for proper disposal by Horizon Construction & Testing. Purge water was permitted to be disposed of in the City of Wauwatosa storm water system via an onsite inlet.

C.3. NR 720.19 Analysis

Established NR 720 Residual Contaminant Levels (Spreadsheet) were utilized for contaminant standards.

C.4. Construction Documentation

The asphalt parking lot consists of a 3 inch thick layer of asphalt over 4-6 inches of compacted base material. It is located over the entire exterior of the subject site and on adjoining properties to the north, east and west.

C.5. Decommissioning of Remedial Systems

Not Applicable to this Site.

C.6. Other

COVER or BARRIER MAINTENANCE PLAN

(to be included in Form 4400-202, as Attachment D)

April 7, 2016

Property Located at:

7600-7610 W. Harwood Avenue, Wauwatosa, WI 53213

DNR BRRTS/Activity #02-41-576745

[LEGAL DESCRIPTION] **"7600"**
LEFEBER SUBD LOT 6 AND ELY STRIP OF ADJ LOT 7 7.5 IN WIDE ON ITS NLY LI AND 5.75 IN WIDE ON ITS SLY LI INCLDG EASEMENT SE 1/4 SEC 21

[TAX /Parcel Identification Number) 3710060000

"7610"
LEFEBER SUBD LOT 7 EX COM NELY COR SD LOT TH WLY 7.5 IN SLY PAR TO ITS ELY LI 22.54 FT SLY TO ITS SLY LI NELY 5.75 IN TO ITS SELY COR TH NLY TO BEG AND ELY 4 FT 7.5 IN LOT 8 AND PT LOT 10 LYING E OF A LI 25 FT E OF AND PAR WITH E LI LOT 11 INCLDG EASEMENT SE 1/.

[TAX /Parcel Identification Number) 3710061000

Introduction

This document is the Maintenance Plan for an asphalt parking lot and building at the above-referenced property in accordance with the requirements of s. NR 724.13 (2), Wis. Adm. Code. The maintenance activities relate to the existing asphalt parking lot and building which addresses or occupies the area over the contaminated groundwater plume or soil.

More site-specific information about this property/site may be found in:

- The case file in the DNR Southeast Region office
- BRRTS on the Web (DNR's internet based data base of contaminated sites)for the link to a PDF for site-specific information at the time of closure and on continuing obligations;
- RR Sites Map/GIS Registry layer for a map view of the site, and
- The DNR project manager for Milwaukee County.

D.1. Descriptions:

Description of Contamination

Analytical results indicate that subsurface contamination containing PAHs (1-Methylnaphthalene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, and pyrene), RCRA metals (arsenic, barium, cadmium, lead, and selenium), and VOCs (naphthalene) is present above the respective applicable NR 720 soil RCLs from approximately 2 to 16 feet bgs throughout the subject property with the highest concentrations occurring in B2 (NW property corner) from 10 to 16 feet bgs. The likely source for the impacted media likely stemming from both fill materials present at the property and an offsite source identified via historical information research including fire insurance maps. Groundwater contaminated by

PAHs is located at a depth of 15-16 feet. The extent of the soil and groundwater contamination is shown on the attached drawings(s) Figures D.2.a and D.2.b.

Description of the [Cover/Barrier] to be Maintained

The asphalt parking lot consists of 3 inches of asphalt over 4-6 inches of compacted base material and the onsite building is of masonry (cream city brick) construction with concrete basement floor and foundation walls. The asphalt parking lot and building is located over the entire subject site as shown on the **attached** drawings D.2.a, D.2.b and D.2.c.

Cover/Building/Slab/Barrier Purpose

The asphalt parking lot and building over the contaminated residual soil and contaminated groundwater plume serves as a barrier to prevent direct human contact with residual soil contamination that might otherwise pose a threat to human health. The cover/barrier also acts as a partial infiltration barrier to minimize future soil-to-groundwater contamination migration that would violate the groundwater standards in ch. NR 140, Wisconsin Administrative Code. Based on the current use of the property, commercial, the barrier should function as intended unless disturbed.

Annual Inspection

The asphalt parking lot and building overlying the residual soil and contaminated groundwater plume and as depicted in Figure 3 will be inspected once a year, normally in the spring after all snow and ice is gone, for deterioration, cracks and other potential problems that can cause [additional infiltration into] [or exposure to] underlying soils. The inspections will be performed by the property owner or their designated representative. The inspections will be performed to evaluate damage due to settling, exposure to the weather, wear from traffic, increasing age and other factors. Any area where soils have become or are likely to become exposed [[and] where infiltration from the surface will not be effectively minimized] will be documented.

A log of the inspections and any repairs will be maintained by the property owner and is included as D.4, Form 4400-305, Continuing Obligations Inspection and Maintenance Log. The log will include recommendations for necessary repair of any areas where underlying soils are exposed and where infiltration from the surface will not be effectively minimized. Once repairs are completed, they will be documented in the inspection log. A copy of the maintenance plan and inspection log will be kept at the site; or, if there is no acceptable place (for example, no building is present) to keep it at the site, at the address of the property owner and available for submittal or inspection by Wisconsin Department of Natural Resources (DNR) representatives upon their request.

[Note: *The DNR may, in some instances, require in the case closure letter that the inspection log be submitted at least annually after every inspection. If the case closure letter requires that, then add the following sentence to the paragraph above*: A copy of the inspection log must be submitted electronically to the DNR after every inspection, at least annually.]

Maintenance Activities

If problems are noted during the annual inspections or at any other time during the year, repairs will be scheduled as soon as practical. Repairs can include patching and filling or larger resurfacing or construction operations. In the event that necessary maintenance activities expose the underlying soil, the owner must

inform maintenance workers of the direct contact exposure hazard and provide them with appropriate personal protection equipment (PPE). The owner must also sample any soil that is excavated from the site prior to disposal to ascertain if contamination remains. The soil must be treated, stored and disposed of by the owner in accordance with applicable local, state and federal law.

In the event the asphalt parking lot and building overlying the residual soil and contaminated groundwater plume is removed or replaced, the replacement barrier must be equally impervious. Any replacement barrier will be subject to the same maintenance and inspection guidelines as outlined in this Maintenance Plan unless indicated otherwise by the DNR or its successor.

The property owner, in order to maintain the integrity of the asphalt parking lot and building, will maintain a copy of this Maintenance Plan at the site; or, if there is no acceptable place to keep it at the site (for example, no building is present), at the address of the property owner and make it available to all interested parties (i.e. on-site employees, contractors, future property owners, etc.) for viewing.

Prohibition of Activities and Notification of DNR Prior to Actions Affecting a Cover/Barrier

The following activities are prohibited on any portion of the property where [pavement, a building foundation, soil cover, engineered cap or other barrier] is required as shown on the attached map, unless prior written approval has been obtained from the Wisconsin Department of Natural Resources: 1) removal of the existing barrier; 2) replacement with another barrier; 3) excavating or grading of the land surface; 4) filling on capped or paved areas; 5) plowing for agricultural cultivation; 6) construction or placement of a building or other structure; 7) changing the use or occupancy of the property to a residential exposure setting, which may include certain uses, such as single or multiple family residences, a school, day care, senior center, hospital, or similar residential exposure settings.

If removal, replacement or other changes to a cover, or a building which is acting as a cover, are considered, the property owner will contact DNR at least 45 days before taking such an action, to determine whether further action may be necessary to protect human health, safety, or welfare or the environment, in accordance with s. NR 727.07, Wis. Adm. Code,

Amendment or Withdrawal of Maintenance Plan

This Maintenance Plan can be amended or withdrawn by the property owner and its successors with the written approval of DNR.

Contact Information
(Form 4400-202, Attachment D, Part 1.) Contact Information, including the name, address and phone number of the individual or facility who will be conducting the maintenance.)

April 2016

Site Owner and Operator: Andrew Schneider, Quatre Chiens, LLC
7610 W. Harwood Avenue, Wauwatosa, WI 53213
414-778-3333

Signature: _____

(DNR may request signature of affected property owners, on a case-by-case basis)

Property Owner: Andrew Schneider, Quatre Chiens, LLC
7610 W. Harwood Avenue, Wauwatosa, WI 53213
414-778-3333

Signature:

Consultant: Kapur & Associates, Inc.
7711 N. Port Washington Road, Milwaukee, WI 53217
414-751-7279

DNR: Binyoti Amungwafor
2300 N. Dr. MLK Jr. Drive, Milwaukee, WI 53218
414-263-8607

D.2 Location Map(s)

Include a location map which shows:

(1) the feature that requires maintenance;
(2) the location of the feature(s) that require(s) maintenance: on and off the source property;
(3) the extent of the structure or feature(s) to be maintained, in relation to other structures or features on the site;
(4) the extent and type of residual contamination; and
(5) all property boundaries.

D. 3 Photographs of Cover/Barrier

Include one or more photographs documenting the condition and extent of the cover/barrier/building/slab at the time of the closure request. Pertinent features must be visible and discernible. Include a title on each photograph, which identifies the site name and location of the feature, and the date on which the photograph was taken.

D.4 Continuing Obligations Inspection and Maintenance Log

Use DNR Fillable Form Form 4400-305

KAPUR & ASSOCIATES, INC.
CONSULTING ENGINEERS
7711 N. PORT WASHINGTON ROAD
MILWAUKEE, WISCONSIN 53217
Phone: 414.351.6668 Fax: 414.351.4117
www.kapurengineers.com

SHEET: LOCATION MAP
FIGURE: D.2.a
PROJECT: LE REVE PATISSERIE & CAFE
LOCATION: 7600-7610 HARWOOD AVENUE, WAUWATOSA, WISCONSIN 53213
NORTH ARROW:
SCALE: 1" = 20' (0, 10, 20)
SEAL:
we listen. we innovate. we turn your vision into reality.

DRAWN BY:	RAB	CHECKED BY:	TWP	APPROVED BY:	TWP	PROJECT NO.	16.0131.01	DATE:	3/9/2016	REVISION DATE:	06/28/2016

FILENAME: S:_Environ\160131-7610 Harwood Ave. Tosa ENV\Figs-Photos\D.2.a.dwg
PLOT DATE/TIME: 9/26/2016 2:56 PM
PLOTTED BY: TRAVIS W. PETERSON

KAPUR & ASSOCIATES, INC.
CONSULTING ENGINEERS
7711 N. PORT WASHINGTON ROAD
MILWAUKEE, WISCONSIN 53217
Phone: 414.351.6668 Fax: 414.351.4117
www.kapurengineers.com

SHEET: LOCATION MAP

FIGURE: D.2.b

PROJECT: LE REVE PATISSERIE & CAFE

LOCATION: 7600-7610 HARWOOD AVENUE, WAUWATOSA, WISCONSIN 53213

NORTH ARROW:

SCALE: 1" = 20'
0 10 20

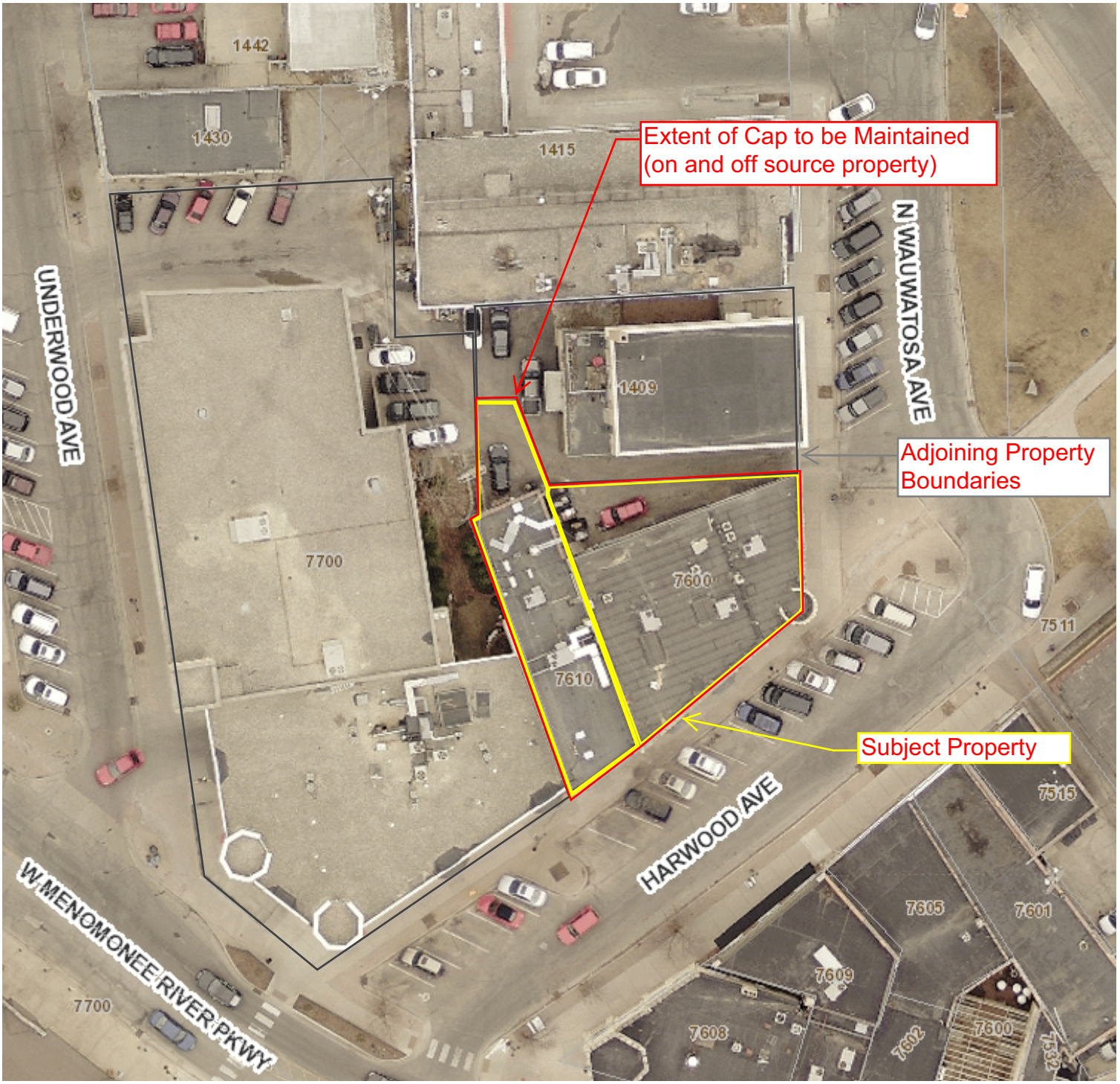
SEAL:

we listen. we innovate. we turn your vision into reality.

DRAWN BY:	TWP	CHECKED BY:	RAB	APPROVED BY:	TWP	PROJECT NO.	16.0131.01	DATE:	04/28/2016	REVISION DATE:	06/28/2016

FILENAME: S:_Environ\160131-7610 Harwood Ave. Tosa ENV\Figs-Photos\D.2.b.dwg PLOT DATE/TIME: 9/26/2016 3:05 PM PLOTTED BY: TRAVIS W. PETERSON

MILWAUKEE COUNTY INTERACTIVE MAPPING SERVICE



Projection
NAD_1927_StatePlane_Wisconsin_South_FIPS_4803

THIS MAP IS NOT TO BE USED FOR NAVIGATION

© MCAMLIS

DISCLAIMER: This map is a user generated static output from the Milwaukee County Land Information Office Interactive Mapping Service website.The contents herein are for reference purposes only and may or may not be accurate, current or otherwise reliable. No liability is assumed for the data delineated herein either expressed or implied by Milwaukee County or its employees.

90 0 45 90 Feet

Figure: D.2.c

Location Map

Legend 1 : 539

- Tax Parcels
- Subdivision Docs
- Condo Docs
- CSM Docs
- 2015 COLOR
  - Red: Band_1
  - Green: Band_2
  - Blue: Band_3
- County Boundary
- City Limits Outline

State of Wisconsin
Department of Natural Resources
dnr.wi.gov

Continuing Obligations Inspection and Maintenance Log

Form 4400-305 (2/14)

Directions: In accordance with s. NR 727.05 (1) (b) 3., Wis. Adm. Code, use of this form for documenting the inspections and maintenance of certain continuing obligations is required. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.]. When using this form, identify the condition that is being inspected. See the closure approval letter for this site for requirements regarding the submittal of this form to the Department of Natural Resources. A copy of this inspection log is required to be maintained either on the property, or at a location specified in the closure approval letter. Do NOT delete previous inspection results. This form was developed to provide a continuous history of site inspection results. The Department of Natural Resources project manager is identified in the closure letter. The project manager may also be identified from the database, BRRTS on the Web, at http://dnr.wi.gov/botw/SetUpBasicSearchForm.do, by searching for the site using the BRRTS ID number, and then looking in the "Who" section.

Activity (Site) Name	BRRTS No.
HARWOOD AVENUE COMMERCIAL PROPERTY	02-41-576745

Inspections are required to be conducted (see closure approval letter):	When submittal of this form is required, submit the form electronically to the DNR project manager. An electronic version of this filled out form, or a scanned version may be sent to the following email address (see closure approval letter):
◉ annually ○ semi-annually ○ other – specify ______	Binyoti.Amungwafor@wisconsin.gov

Inspection Date	Inspector Name	Item	Describe the condition of the item that is being inspected	Recommendations for repair or maintenance	Previous recommendations implemented?	Photographs taken and attached?
		☐ monitoring well ☐ cover/barrier ☐ vapor mitigation system ☐ other:			○ Y ○ N	○ Y ○ N
		☐ monitoring well ☐ cover/barrier ☐ vapor mitigation system ☐ other:			○ Y ○ N	○ Y ○ N
		☐ monitoring well ☐ cover/barrier ☐ vapor mitigation system ☐ other:			○ Y ○ N	○ Y ○ N
		☐ monitoring well ☐ cover/barrier ☐ vapor mitigation system ☐ other:			○ Y ○ N	○ Y ○ N
		☐ monitoring well ☐ cover/barrier ☐ vapor mitigation system ☐ other:			○ Y ○ N	○ Y ○ N
		☐ monitoring well ☐ cover/barrier ☐ vapor mitigation system ☐ other:			○ Y ○ N	○ Y ○ N

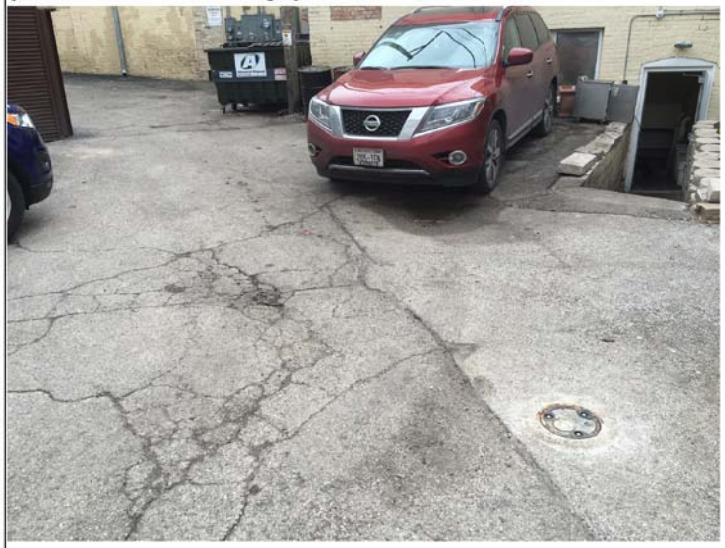
{Click to Add/Edit Image} Date added: 04/12/2016

Title: Asphalt cap with subject property boundary marked (facing south)

{Click to Add/Edit Image} Date added: 04/12/2016

Title: Asphalt cap with subject property boundary marked (facing southwest)

{Click to Add/Edit Image} Date added: 04/12/2016



Title: Asphalt cap with MW-2 (facing south)

{Click to Add/Edit Image} Date added: 04/12/2016

Title: Asphalt cap on west adjoining property with MW-2 (facing west)

{Click to Add/Edit Image} Date added: 04/12/2016

Title: Asphalt cap on east adjoining property with MW-2 (facing northeast)

{Click to Add/Edit Image} Date added: 04/12/2016

Title: Asphalt cap on east adjoining property with MW-3 (facing northwest)

ATTACHMENT E

MONITORING WELL INFORMATION

All monitoring wells at the site have been properly abandoned per WDNR guidelines. Abandonment forms are included.

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee		

Latitude / Longitude (Degrees and Minutes): 43 ° 2 ' 59.2 N; 88 ° 0 ' 28.0 W
Method Code (see instructions):

¼ / ¼ NE	¼ SE	Section	Township	Range
or Gov't Lot #		21	7	☒ E ☐ W 21

Well Street Address:
Well City, Village or Town:
Well ZIP Code:
Subdivision Name:
Lot #:
Reason For Removal From Service: Site Investigation Complete
WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: Harwood Avenue Commercial Property
Facility ID (FID or PWS): 341270710
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: Andrew Schneider
Mailing Address of Present Owner: 7610 W. Harwood Avenue
City of Present Owner: Wauwatosa
State: WI
ZIP Code: 53213

3. Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Drillhole / Borehole
Original Construction Date: 2/16/2016
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☒ Driven (Sandpoint) ☐ Dug ☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
20.0	1.00
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2.3	20.0

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown
If yes, to what depth (feet)?
Depth to Water (feet): 15.5

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☒ No	☐ N/A
Casing left in place?	☒ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☒ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☒ No	☐ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☒ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☒ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Granular Bentonite	Surface	20.0	0.3	

6. Comments

B1/MW-1

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Horizon Construction		9/22/2016

Street or Route: 764 Tower Drive
Telephone Number: 2623772896
City: Fredonia
State: WI
ZIP Code: 53021
Signature of Person Doing Work: c/o Rachel Beyer
Date Signed: 9/27/16

DNR Use Only

Date Received	Noted By
Comments	

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing
Form 3300-5 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee		

Latitude / Longitude (Degrees and Minutes): 43 ° 2 ' 59"N / 88 ° 0 ' 28"W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
NE	SE	21	7	21 ☒ E ☐ W

or Gov't Lot #:

Well Street Address:

Well City, Village or Town:

Well ZIP Code:

Subdivision Name:

Lot #:

Reason For Removal From Service: Site Investigation Complete

WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: Harwood Avenue Commercial Property
Facility ID (FID or PWS): 341270710
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: Andrew Schneider
Mailing Address of Present Owner: 7610 W. Harwood Avenue

City of Present Owner	State	ZIP Code
Wauwatosa	WI	53213

3. Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Drillhole / Borehole

Original Construction Date: 2/16/2016

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☒ Driven (Sandpoint) ☐ Dug ☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
20.0	1.00
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2.3	20.0

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	15.9

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☒ No	☐ N/A
Casing left in place?	☒ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☒ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☒ No	☐ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☒ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☒ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Granular Bentonite	Surface	20.0	0 3	

6. Comments

B2/MW-2

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Horizon Construction		9/22/2016

Street or Route	Telephone Number
764 Tower Drive	2623772896

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Fredonia	WI	53021	C/O Rachel Beyer	9/27/16

DNR Use Only

Date Received	Noted By
Comments	

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing
Form 3300-5 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee		

Latitude / Longitude (Degrees and Minutes): 43 ° 2 ' 59"N / 88 ° 0 ' 28"W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
NE	SE	21	7	21 ☒ E ☐ W

or Gov't Lot #:
Well Street Address:
Well City, Village or Town:
Well ZIP Code:
Subdivision Name:
Lot #:
Reason For Removal From Service: Site Investigation Complete
WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: Harwood Avenue Commercial Property
Facility ID (FID or PWS): 341270710
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: Andrew Schneider
Mailing Address of Present Owner: 7610 W. Harwood Avenue

City of Present Owner	State	ZIP Code
Wauwatosa	WI	53213

3. Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Drillhole / Borehole

Original Construction Date: 2/16/2016
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☒ Driven (Sandpoint) ☐ Dug ☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
20.0	1.00
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2.3	20.0

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	16.0

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☒ No	☐ N/A
Casing left in place?	☒ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☒ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☒ No	☐ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☒ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☒ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Granular Bentonite	Surface	20.0	0.3	

6. Comments

B4 / MW-3

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Horizon Construction		9/22/2016

Street or Route: 764 Tower Drive
Telephone Number: 2623772896

City	State	ZIP Code
Fredonia	WI	53021

Signature of Person Doing Work: c/o Robert Beyer
Date Signed: 9/27/16

DNR Use Only

Date Received	Noted By

Comments:

F.1. Deeds

Special Warranty Deed

THIS DEED is made between HARWOOD, LLC, a Wisconsin limited liability company (hereinafter "Grantor"), and QUATRE CHIENS LLC, a Wisconsin limited liability company (hereinafter "Grantee").

W I T N E S S E T H:

THAT Grantor, in consideration of the sum of Ten Dollars ($10.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, conveys to Grantee the real estate located in the City of Wauwatosa, County of Milwaukee, State of Wisconsin, which is more particularly described on Exhibit A attached hereto and incorporated herein, subject to the matters set forth on Exhibit B attached hereto and incorporated herein (the "Property").

TOGETHER with all and singular the hereditaments and appurtenances thereunto belonging.

Name and Return Address:
Reinhart Boerner Van Deuren
Attn: Steve Elliot
1000 N. Water Street, Suite 1700
Milwaukee, WI 53202

Parcel Identification Numbers:
371-0061-00

Grantor warrants the title to the Property to Grantee against the lawful claims of all persons claiming by, through or under Grantor and none other, subject to the matters set forth on Exhibit B.

[SIGNATURE PAGE FOLLOWS]

SIGNATURE PAGE TO SPECIAL WARRANTY DEED
FROM HARWOOD, LLC TO QURTRE CHIENS LLC

IN WITNESS WHEREOF, the said Grantor has executed this Special Warranty Deed as of this 11th day of October, 2012.

HARWOOD, LLC, a Wisconsin limited liability company

BY _____
Dennis Webb, manager

State of Wisconsin)
: SS
Milwaukee County)

This instrument was acknowledged before me on October 8th, 2012 by Dennis Webb, as manager of HARWOOD, LLC, a Wisconsin limited liability company.

Stephen Elliott Notary Public State of Wisconsin

_____
(Stephen Elliott)
Notary Public, State of Wisconsin
My commission is permanent

This instrument was drafted by:

Leah R. Harrand
Reinhart Boerner Van Deuren s.c.
1000 North Water Street, Suite 1700
Milwaukee, Wisconsin 53202

EXHIBIT A

Legal Description

PARCEL A:

PARCEL I:

LOT SEVEN (7) IN LEFEBER'S SUBDIVISION, IN THE SOUTHEAST ONE-QUARTER (SE ¼) OF SECTION TWENTY-ONE (21), IN TOWNSHIP SEVEN NORTH (7N), RANGE TWENTY-ONE EAST (21E), IN THE CITY OF WAUWATOSA, EXCEPTING THEREFROM THAT PART OF LOT 7 BOUNDED AND DESCRIBED AS FOLLOWS: BEGINNING AT THE SOUTHEAST CORNER OF SAID LOT 7, RUNNING THENCE NORTHERLY ON THE EASTERLY LINE OF SAID LOT TO THE NORTHEAST CORNER OF SAID LOT, THENCE WESTERLY ON THE NORTH LINE OF SAID LOT, 7½ INCHES; THENCE SOUTHERLY ON A LINE AND PARALLEL TO THE EASTERLY LINE OF SAID LOT, 22.54 FEET TO A POINT; THENCE SOUTHERLY ON A LINE TO A POINT IN THE SOUTHERLY LINE OF SAID LOT, 5¾ INCHES FROM THE PLACE OF BEGINNING; THENCE ON THE SOUTHERLY LINE OF SAID LOT TO THE PLACE OF BEGINNING.

PARCEL II:

THE EASTERLY FOUR FEET (4'), SEVEN AND ONE-HALF INCHES (7½") IN WIDTH OF LOT EIGHT (8) IN LEFEBER'S SUBDIVISION, IN THE SOUTHEAST ONE-QUARTER (SE ¼) OF SECTION TWENTY-ONE (21), IN TOWNSHIP SEVEN NORTH (7N), RANGE TWENTY-ONE EAST (21 E), IN THE CITY OF WAUWATOSA.

PARCEL III:

THAT PART OF LOT TEN (10) IN LEFEBER'S SUBDIVISION, IN THE SOUTHEAST ONE-QUARTER (SE ¼) OF SECTION TWENTY-ONE (21), IN TOWNSHIP SEVEN NORTH (7N), RANGE TWENTY-ONE EAST (21E), IN THE CITY OF WAUWATOSA, BOUNDED AND DESCRIBED AS FOLLOWS: COMMENCING AT A POINT IN THAT PART OF THE NORTH BOUNDARY LINE OF LOT 10 WHICH IS ALSO THE SOUTH BOUNDARY LINE OF LOT 4, IN SAID SUBDIVISION AND WHICH PART IS 25 FEET EAST OF THE SOUTHWEST CORNER OF SAID LOT 4; THENCE SOUTH ON A LINE WHICH IS 25 FEET EAST OF THE EAST BOUNDARY LINE OF LOT 12 IN SAID SUBDIVISION AND PARALLEL THERETO TO THE POINT WHERE SAID LINE INTERSECTS THE NORTHWESTERLY BOUNDARY LINE OF LOT 8 IN SAID SUBDIVISION; THENCE NORTHEASTERLY ALONG THE NORTHWESTERLY BOUNDARY LINE OF LOTS 8 & 7 IN SAID SUBDIVISION TO THE NORTHEASTERLY CORNER OF SAID LOT 7 AFORESAID; THENCE NORTHWESTERLY ALONG THE EASTERLY BOUNDARY LINE OF A PART OF SAID LOT 10, WHICH IS ALSO THE WESTERLY BOUNDARY LINE OF LOT 5 AND A PART OF THE WESTERLY BOUNDARY LINE OF LOT 6 IN SAID SUBDIVISION TO THE NORTHWESTERLY CORNER OF SAID LOT 5; THENCE WEST ON THE NORTH BOUNDARY LINE OF SAID LOT 10, WHICH IS ALSO THE SOUTH BOUNDARY LINE OF LOT 4 AFORESAID IN SAID SUBDIVISION TO THE PLACE OF BEGINNING.

PARCEL B:
A NON-EXCLUSIVE EASEMENT FOR THE BENEFIT OF PARCEL A CREATED BY QUIT CLAIM DEED RECORDED AS DOCUMENT NO. 2394546 FOR INGRESS AND EGRESS AS PROVIDED FOR THEREIN OVER AND ACROSS THE SOUTH TEN FEET (10') OF LOT FIVE (5) IN SAID LEFEBER'S SUBDIVISION.

EXHIBIT B

Permitted Encumbrances

1. Zoning and all other applicable laws and standard governmental regulations which affect the Property.

2. Acts done or suffered by, through or under, or judgments against, Grantee.

3. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the title including, discrepancies, conflict in boundary lines, shortages in area, or any other facts that would be disclosed by an accurate and complete land survey of the property.

4. Special taxes, assessments or charges due after the date hereof.

5. Taxes, general and special for the year 2012 and beyond.

6. Current and future rights of the City of Wauwatosa to assess the Property as part of a Business Improvement District. Rights of Andrew Schneider and Therese Hittman (d/b/a La Reve Patisserie & Café) and parties claiming through or under them, as tenants in possession including any rights to tenant fixtures owned by such tenants located on the leased premises and any liens on such tenants' fixtures, and any parties having a lien on or claiming by through or under said tenants.

7. Terms, provisions and conditions, if any, and rights of others in and to the easement dated July 17, 1942 and recorded on October 2, 1942, in Volume 1854 of Deeds, Page 620, as Document No. 239456.

8. Distribution Easement Underground Joint granted to Wisconsin Electric Power Company by instrument dated June 25, 2001 and recorded on July 31, 2001, as Document No. 8108585.

9. Terms, provisions and conditions set forth in Indenture dated April 10, 2008 by Hardwood LLC and recorded on May 2, 2008, as Document No. 09595213.

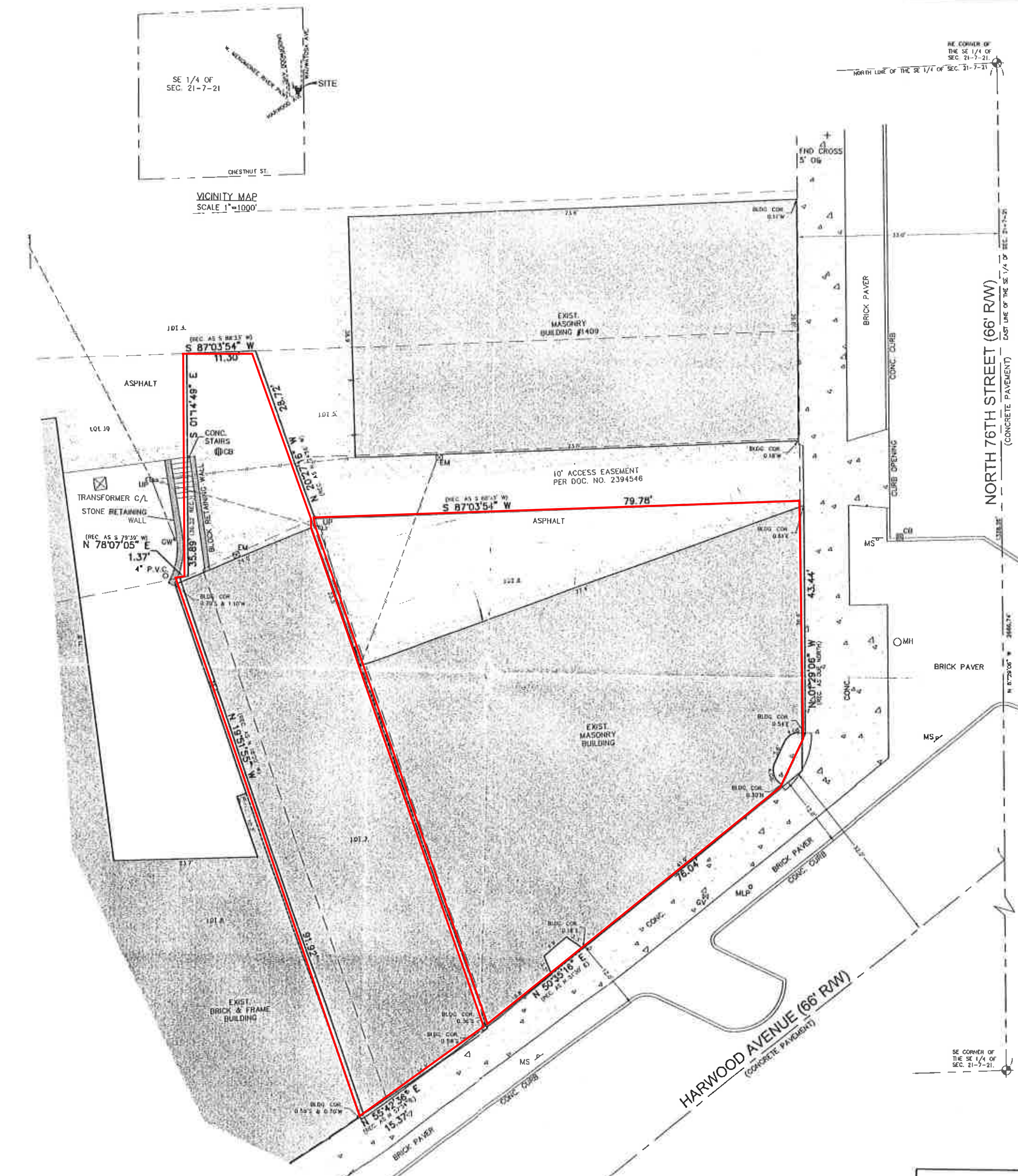
10. A financing statement recorded April 23, 2008 as Document No. 09590843 of Official Records.

Debtor:	Le Rêve Patisserie & Café LLC
Secured Party:	Wells Fargo Bank, National Association

11. A financing statement recorded April 29, 2008 as Document No. 09593579 of Official Records.

Debtor:	Le Rêve Patisserie & Café LLC
Secured Party:	Wells Fargo Bank, National Association

F.2. Certified Survey Map



GENERAL NOTES:

1. THE SUBJECT PROPERTY ADDRESS IS 7600 AND 7610 HARWOOD AVENUE.
2. ZONING: VILLAGE TRADE
3. BUILDING SETBACKS: NEGOTIABLE:

   – FRONT, SIDE & REAR – TO BE REVIEWED AND ESTABLISHED BY THE PLANNING COMMISSION AND APPROVED BY THE COMMON COUNCIL.

   BUILDING HEIGHT: 35' MAXIMUM PER CITY OF WAUWATOSA.

4. THE SUBJECT PROPERTY DOES NOT LIE WITHIN A 100–YEAR FLOOD PLAIN, PER FLOOD INSURANCE RATE MAP COMMUNITY PANEL NO. 550284 0005 B, DATED DECEMBER 1, 1978.
5. BEARINGS ARE REFERENCED TO THE EAST LINE OF THE SOUTHEAST 1/4 OF SECTION 21–7–21, WISCONSIN STATE PLANE COORDINATE SYSTEM GRID, SOUTH ZONE (JANUARY 2005).
6. SNOW COVER AT TIME OF SURVEY.

SCHEDULE B EXCEPTIONS:

EX. 14 – PARTY WALL RIGHTS SET FORTH IN THE FOREGOING DEEDS. TO VAGUE IN NATURE TO SHOW.

DIGGERS HOTLINE

PARCEL A:

LOTS 6, 7 AND THE EASTERLY 4 FEET 7 1/2 INCHES, IN WIDTH, OF LOT 8, IN LEFEBER'S SUBDIVISION, IN THE SOUTHEAST 1/4 OF SECTION 21, TOWN 7 NORTH, RANGE 21 EAST, IN THE CITY OF WAUWATOSA, COUNTY OF MILWAUKEE, STATE OF WISCONSIN.

ALSO;

THAT PART OF LOT 10 IN SAID LEFEBER'S SUBDIVISION, BOUNDED AND DESCRIBED AS FOLLOWS: COMMENCING AT A POINT IN THE NORTH LINE OF LOT 10 WHICH IS ALSO THE SOUTH LINE LOT 4, IN SAID SUBDIVISION, WHICH IS 25 FEET EAST OF THE SOUTHWEST CORNER OF SAID LOT 4; THENCE SOUTH ON A LINE WHICH IS 25 FEET EAST OF THE EAST LINE OF LOT 12 IN SAID SUBDIVISION AND PARALLEL THEREWITH, TO THE POINT WHERE SAID LINE INTERSECTS THE NORTHWESTERLY LINE OF LOT 8 IN SAID LOT SUBDIVISION; THENCE NORTHEASTERLY ALONG THE NORTHWESTERLY LINE OF SAID LOTS 8 AND 7 TO THE NORTHEASTERLY CORNER OF SAID LOT 7; THENCE NORTHWESTERLY ALONG THE EASTERLY LINE OF SAID LOT 10, WHICH IS ALSO THE WESTERLY LINE OF LOT 5 AND A PART OF THE WESTERLY LINE OF LOT 6 IN SAID SUBDIVISION TO THE NORTHWESTERLY CORNER OF SAID LOT 5; THENCE WEST ON THE NORTH LINE OF SAID LOT 10, WHICH IS ALSO THE SOUTH BOUNDARY LINE OF SAID LOT 4 TO THE PLACE OF COMMENCEMENT.

PARCEL B:

NON–EXCLUSIVE EASEMENT FOR THE BENEFIT OF PARCEL A CREATED BY QUIT CLAIM DEED RECORDED AS DOCUMENT NO. 2394546 FOR INGRESS AND EGRESS AS PROVIDED FOR THEREIN OVER AND ACROSS THE SOUTH 10 FEET OF LOT 5 IN SAID LEFEBER'S SUBDIVISION.

CONTAINING 7,113 SQ.FT. OR 0.163 ACRES.

To: A LEGALLY QUALIFIED GRANTEE TO BE NAMED AND CHICAGO TITLE INSURANCE COMPANY, the successors and assigns of any of the foregoing and any other person who purchases, mortgages or guarantees the title thereto within one year of the date of this survey.

I hereby certify that the survey was prepared from an actual on–the–ground instrument survey of the subject premises; that the same accurately shows the location of the boundaries of the subject premises and the location of all streets, highways, alleys and public ways crossing and abutting said premises; that the dimensions of any improvements and the location thereof with respect to the boundaries are accurately shown as the same were situated on DECEMBER 6, 2005; that there are no encroachments by improvements appurtenant to adjoining premises upon the subject premises, nor from the subject premises unless shown hereon; that all easements and rights of way which are appurtenant to or burden the subject premises and (i) are referred to in the title commitment number [illegible] for the subject premises dated SEPTEMBER 13, 2005; issued by CHICAGO TITLE INSURANCE COMPANY or are apparent from a visual inspection, are delineated hereon; that the subject premises are not in a 100–year interval flood plain or special flood hazard area and that, without limiting the foregoing, this survey was made in accordance with "Minimum Standard Detail Requirements for ALTA/ACSM Land Title Surveys," jointly established and adopted by ALTA and ACSM in 1999, and meets the accuracy requirements of an Urban Survey, as defined therein.

Mark L. Wertz
Registered Land Surveyor
S-1915

LEGEND

GRAPHIC SCALE
1 inch = 10 ft.

LAND INFORMATION SERVICES, INC.
ENGINEERS, SURVEYORS & CONSULTANTS

ALTA/ACSM LAND TITLE SURVEY
7600 HARWOOD AVENUE
WAUWATOSA, WISCONSIN.

DRAWN BY:	J.D.H.
CHECKED BY:	M.L.W.
DATE:	12/06/05
JOB NUMBER:	S05201R0AL

WISCONSIN
MARK L. WERTZ
S-1915
MILWAUKEE, WI
LAND SURVEYOR

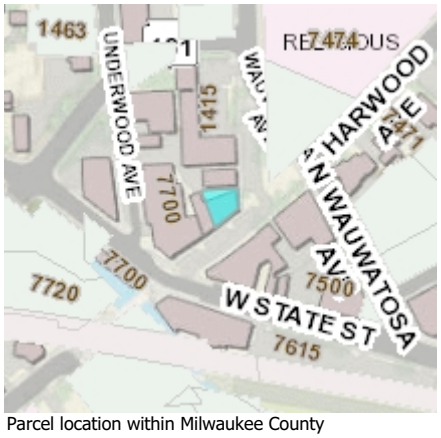
7600 HARWOOD AVE
ALTA

F.3. Verification of Zoning

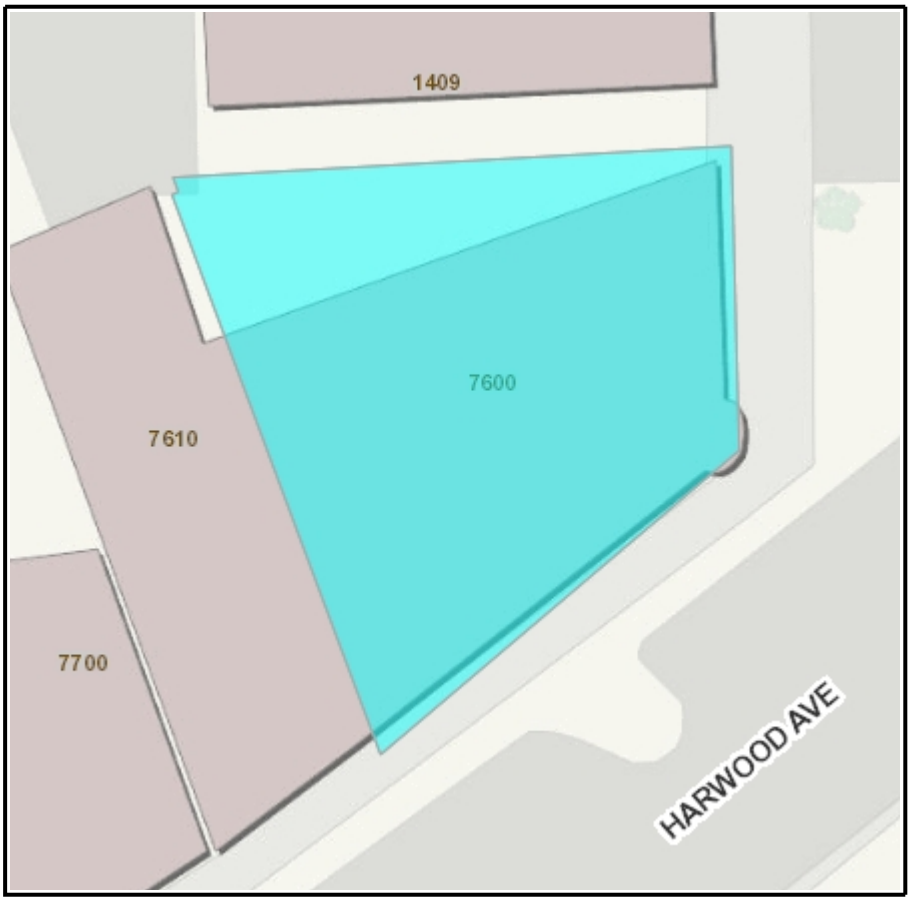
Milwaukee County Land Information Parcel Report

TAXKEY: 3710060000

Report generated 2/8/2016 7:36:40 AM



Parcel location within Milwaukee County



Selected parcel highlighted

Parcel Information

TAXKEY: 3710060000

Record Date: 12/31/2014

Owner(s): HARWOOD LLC

Address: 7600 HARWOOD AVE

Municipality: Wauwatosa

Acres: 0.11

Assessed Value: $723,000

Parcel Photo Not Available

Parcel photo

Parcel Description: COMMERCIAL

Zoning Description:

Legal Description: LEFEBER SUBD LOT 6 AND ELY STRIP OF ADJ LOT 7 7.5 IN WIDE ON ITS NLY LI AND 5.75 IN WIDE ON ITS SLY LI INCLDG EASEMENT SE 1/4 SEC 21

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PARCEL / OWNER DATA

NAME AND ADDRESS
HARWOOD LLC 172 N BROADWAY #2ND FL MILWAUKEE, WI 53202

PARCEL #	3710060000
PROPERTY ADDRESS	7600 HARWOOD AVE
LAND USE	Commercial Sites
SUBDIVISION	
NEIGHBORHOOD	906
ZONING	C1 - Neighborhood/Village Trade
ZONING (SECONDARY)	-

PROPERTY IMAGE

No Photo Available

SITE DATA

FRONTAGE	0.0
DEPTH	0.0
SQUARE FOOTAGE	4,792.0
ACREAGE	0.11

RECENT PERMIT HISTORY

DATE	NUMBER	AMOUNT	PURPOSE	NOTE
10/29/2013	OC13-3467	$0	OC	7600 Harwood Ave - Soaps & Scents | candles, soap | candles, soap
8/16/2013	EL13-3072	$0	EL	7600HarwoodAve-Soaps & Scents - electrical wiring | electrical wiring | electrical wiring
1/3/2013	SG13-0023	$0	SG	7606 Harwood Ave - Sandwich Board- Oro di oliva | sandwich board sign | sandwich board sign
2/6/2012	SG12-0234	$0	SG	7606 Harwood Ave - Sandwich Board- Oro di oliva | sandwich board sign |

ASSESSED VALUE HISTORY

YEAR	CLASS	LAND	IMPROVEMENTS	TOTAL
2016	2	$222,300	$500,700	$723,000
2016	2	$222,300	$500,700	$723,000
2015	2	$222,300	$500,700	$723,000
2014	2	$222,300	$500,700	$723,000
2013	2	$222,300	$500,700	$723,000
2012	2	$54,300	$668,700	$723,000
2011	2	$54,300	$668,700	$723,000

LEGAL DESCRIPTION

LEFEBER SUBD LOT 6 & ELY STRIP OF ADJ LOT 7 7.5 IN WIDE ON ITS NLY LI & 5.75 IN WIDE ON ITS SLY LI INCLDG EASEMENT SE 1/4 SEC 21

BUILDING 1

CLASS	Com/Ind	LIVING AREA	10,904
STYLE	Office/Parking	GROSS AREA	10,904

Commercial Building 1 Section 1

OCCUPANCY	Commercial Sites	YEAR BUILT	1901
STORIES	1.00	AREA	3621
EXT. WALL 1	WOOD FRAME	PHYSICAL CONDITION	A

Attached Improvements

DESCRIPTION	AREA
Elevator Pass - Elec	2
Open Area	40
Open Area	12

Detached Improvements

DESCRIPTION	AREA
W/Triple Light	1

Living Area

DESCRIPTION	AREA
BASEMENT	0
FINISHED BASEMENT LIVING AREA	**0**
FIRST STORY	**3,621**
SECOND STORY	**0**
ADDITIONAL STORY	**0**
ATTIC / FINISHED	**0**
HALF STORY / FINISHED	**0**
ATTIC / UNFINISHED	0
HALF STORY / UNFINISHED	0
ROOM / UNFINISHED	0

TOTAL LIVING AREA	3,621

Commercial Building 1 Section 2

OCCUPANCY	Commercial Sites	YEAR BUILT	1901
STORIES	1.00	AREA	3594
EXT. WALL 1	WOOD FRAME	PHYSICAL CONDITION	VG

Living Area

DESCRIPTION	AREA
BASEMENT	0
FINISHED BASEMENT LIVING AREA	**0**
FIRST STORY	**3,594**
SECOND STORY	**0**
ADDITIONAL STORY	**0**
ATTIC / FINISHED	**0**
HALF STORY / FINISHED	**0**
ATTIC / UNFINISHED	0
HALF STORY / UNFINISHED	0
ROOM / UNFINISHED	0
TOTAL LIVING AREA	**3,594**

Commercial Building 1 Section 3

OCCUPANCY	Commercial Sites	YEAR BUILT	1901
STORIES	1.00	AREA	3689
EXT. WALL 1	WOOD FRAME	PHYSICAL CONDITION	VG

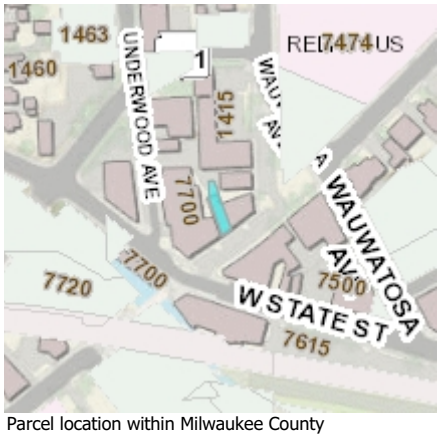
Living Area

DESCRIPTION	AREA
BASEMENT	0
FINISHED BASEMENT LIVING AREA	**0**
FIRST STORY	**3,689**
SECOND STORY	**0**
ADDITIONAL STORY	**0**
ATTIC / FINISHED	**0**
HALF STORY / FINISHED	**0**
ATTIC / UNFINISHED	0
HALF STORY / UNFINISHED	0
ROOM / UNFINISHED	0
TOTAL LIVING AREA	**3,689**

Milwaukee County Land Information Parcel Report

TAXKEY: 3710061000

Report generated 2/8/2016 7:35:39 AM



Parcel location within Milwaukee County

Selected parcel highlighted

Parcel Information

TAXKEY: 3710061000

Record Date: 12/31/2014

Owner(s): QUATRE CHIENS LLC

Address: 7610 HARWOOD AVE

Municipality: Wauwatosa

Acres: 0.06

Assessed Value: $510,000

Parcel Photo Not Available

Parcel photo

Parcel Description: COMMERCIAL

Zoning Description:

Legal Description: LEFEBER SUBD LOT 7 EX COM NELY COR SD LOT TH WLY 7.5 IN SLY PAR TO ITS ELY LI 22.54 FT SLY TO ITS SLY LI NELY 5.75 IN TO ITS SELY COR TH NLY TO BEG AND ELY 4 FT 7.5 IN LOT 8 AND PT LOT 10 LYING E OF A LI 25 FT E OF AND PAR WITH E LI LOT 11 INCLDG EASEMENT SE 1/

Wauwatosa Home Page

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PARCEL / OWNER DATA

NAME AND ADDRESS
QUATRE CHIENS LLC 7610 HARWOOD AVENUE WAUWATOSA, WI 53213

PARCEL #	3710061000
PROPERTY ADDRESS	7610 HARWOOD AVE
LAND USE	Commercial Sites
SUBDIVISION	
NEIGHBORHOOD	903
ZONING	C1 - Neighborhood/Village Trade
ZONING (SECONDARY)	-

PROPERTY IMAGE

No Photo Available

SALES HISTORY

SALE DATE	AMOUNT	CONVEYANCE	BOOK	PAGE	TYPE
10/11/2012	$500,000	I	0	0	WD

SITE DATA

FRONTAGE	0.0
DEPTH	0.0
SQUARE FOOTAGE	2,614.0
ACREAGE	0.06

RECENT PERMIT HISTORY

DATE	NUMBER	AMOUNT	PURPOSE	NOTE
11/5/2013	PL13-4150	$0	PL	7610HarwoodAve-Le Rev - grease trap | grease trap | grease trap
6/17/2013	PL13-2173	$0	PL	7610 Harwood Ave - Le Reve | water service | renovate kitchen and second floor dining
6/17/2013	PL13-2183	$0	PL	7610 Harwood Ave - Le Reve | water service | renovate kitchen and second floor dining
3/6/2013	MC13-0611	$0	HV	7610 Harwood Ave - Le Reve | renovate kitchen and second floor dining -

ASSESSED VALUE HISTORY

YEAR	CLASS	LAND	IMPROVEMENTS	TOTAL
2015	2	$113,400	$396,600	$510,000
2014	2	$113,400	$396,600	$510,000

LEGAL DESCRIPTION

LEFEBER SUBD LOT 7 EX COM NELY COR SD LOT TH WLY 7.5 IN SLY PAR TO ITS ELY LI 22.54 FT SLY TO ITS SLY LI NELY 5.75 IN TO ITS SELY COR TH NLY TO BEG & ELY 4 FT 7.5 IN LOT 8 & PT LOT 10 LYING E OF A LI 25 FT E OF & PAR WITH E LI LOT 11 INCLDG EASEMENT SE 1/

BUILDING 1

CLASS	Com/Ind	LIVING AREA	5,541
STYLE	Warehouse	GROSS AREA	5,541

Commercial Building 1 Section 1

OCCUPANCY	Commercial Sites	YEAR BUILT	1901
STORIES	1.00	AREA	2230
EXT. WALL 1	WOOD FRAME	PHYSICAL CONDITION	A

Living Area

DESCRIPTION	AREA
BASEMENT	0
FINISHED BASEMENT LIVING AREA	**0**
FIRST STORY	**2,230**
SECOND STORY	**0**
ADDITIONAL STORY	**0**
ATTIC / FINISHED	**0**
HALF STORY / FINISHED	**0**
ATTIC / UNFINISHED	0
HALF STORY / UNFINISHED	0
ROOM / UNFINISHED	0
TOTAL LIVING AREA	**2,230**

Commercial Building 1 Section 2			
OCCUPANCY	Commercial Sites	YEAR BUILT	1901
STORIES	1.00	AREA	2230
EXT. WALL 1	WOOD FRAME	PHYSICAL CONDITION	VG

Living Area	
DESCRIPTION	AREA
BASEMENT	0
FINISHED BASEMENT LIVING AREA	**0**
FIRST STORY	**2,230**
SECOND STORY	**0**
ADDITIONAL STORY	**0**
ATTIC / FINISHED	**0**
HALF STORY / FINISHED	**0**
ATTIC / UNFINISHED	0
HALF STORY / UNFINISHED	0
ROOM / UNFINISHED	0
TOTAL LIVING AREA	**2,230**

Commercial Building 1 Section 3			
OCCUPANCY	Commercial Sites	YEAR BUILT	1901
STORIES	1.00	AREA	1081
EXT. WALL 1	NONE	PHYSICAL CONDITION	VG

Living Area	
DESCRIPTION	AREA
BASEMENT	0
FINISHED BASEMENT LIVING AREA	**0**
FIRST STORY	**1,081**
SECOND STORY	**0**
ADDITIONAL STORY	**0**
ATTIC / FINISHED	**0**
HALF STORY / FINISHED	**0**
ATTIC / UNFINISHED	0
HALF STORY / UNFINISHED	0
ROOM / UNFINISHED	0
TOTAL LIVING AREA	**1,081**

F.4. Signed Statement

INSERT THE FOLLOWING ONTO COMPANY LETTERHEAD (WHERE APPLICABLE)

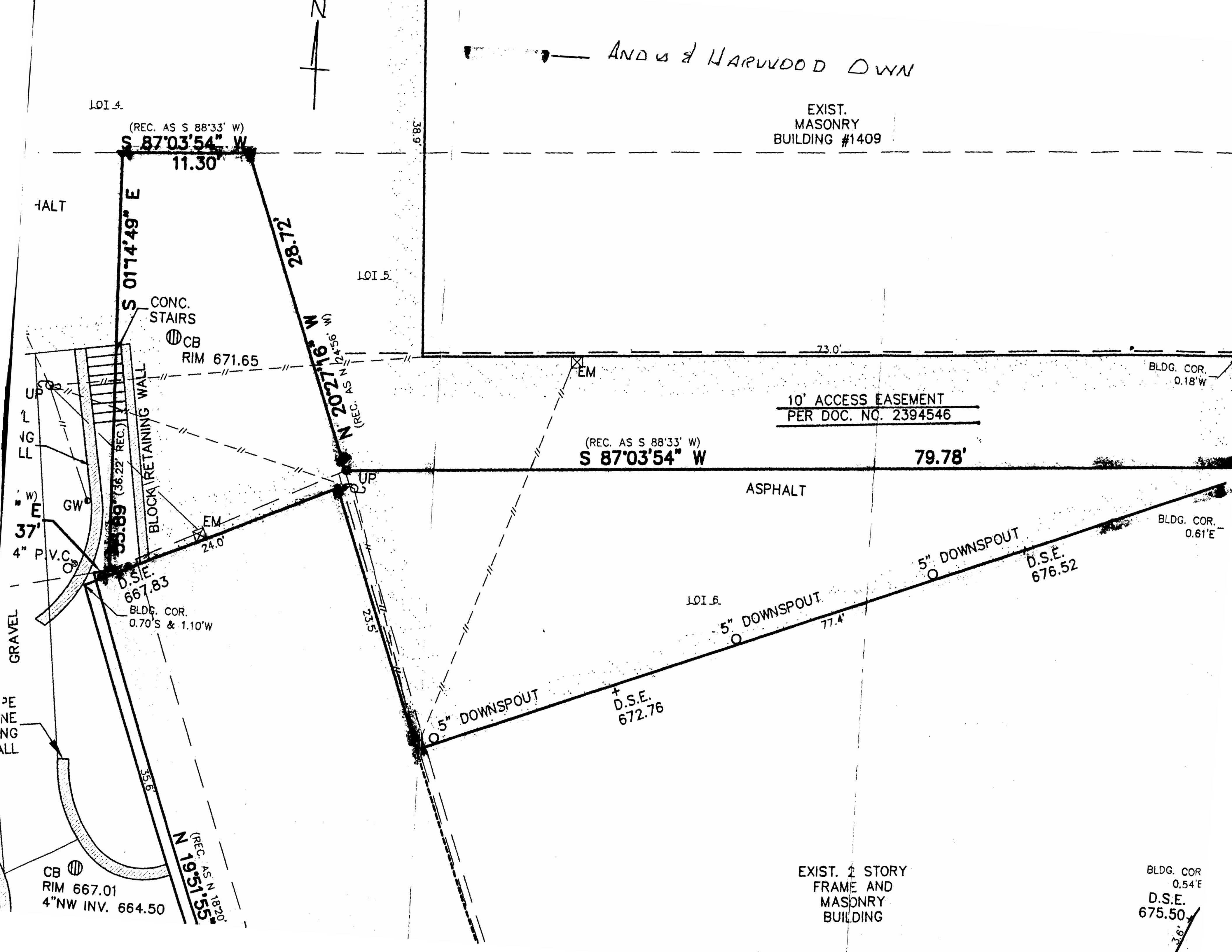
I, Andrew Schneider, owner and responsible party of the Harwood Avenue Commercial Property ERP site at 7600-7610 Harwood Avenue, located in the City of Wauwatosa, Milwaukee County, Wisconsin; certify that to the best of my knowledge, the legal description below accurately describes each property that is within, or partially within, the contaminated boundary.

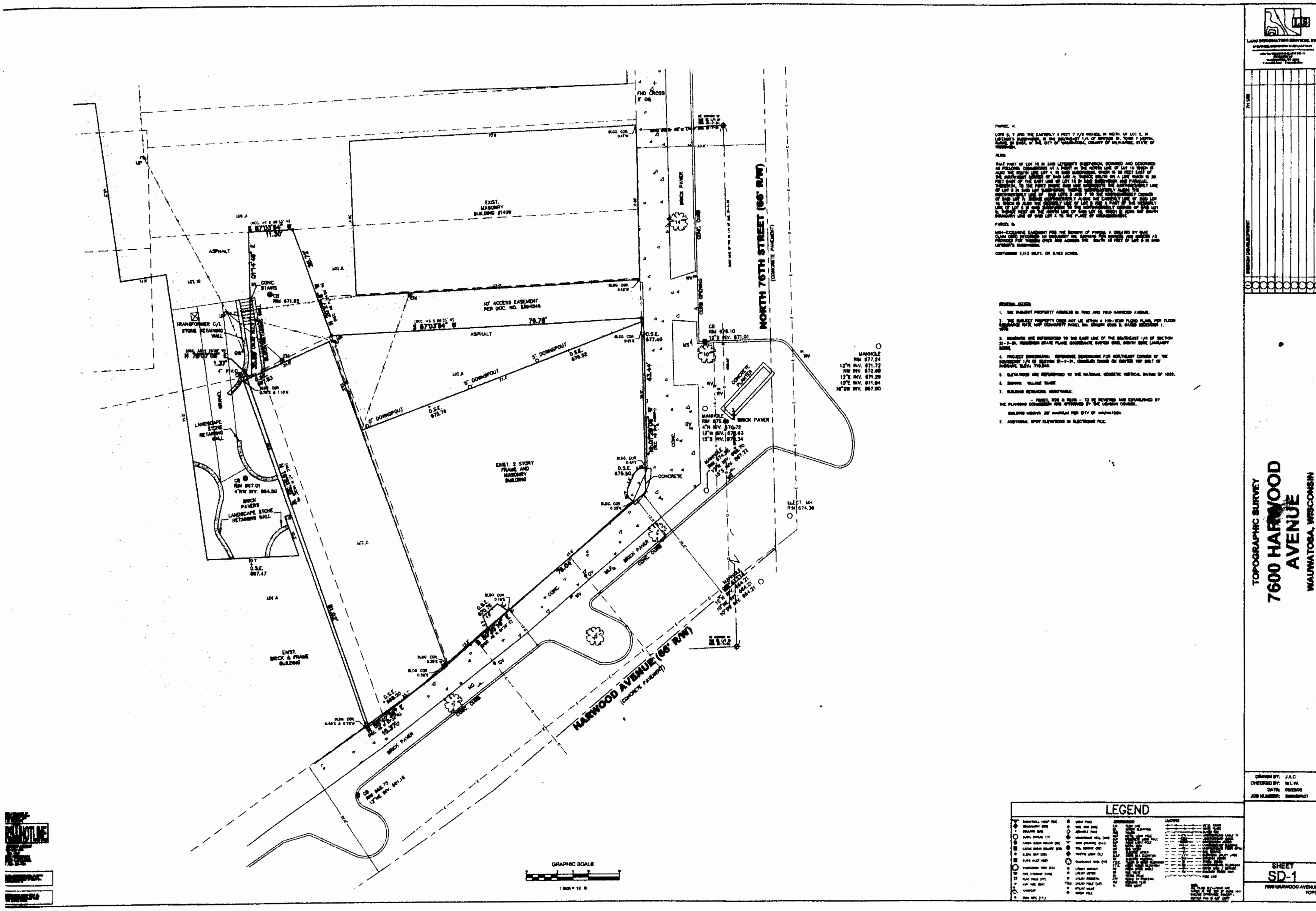
7600
LEFEBER SUBD LOT 6 AND ELY STRIP OF ADJ LOT 7 7.5 IN WIDE ON ITS NLY LI AND 5.75 IN WIDE ON ITS SLY LI INCLDG EASEMENT SE 1/4 SEC 21

7610
LEFEBER SUBD LOT 7 EX COM NELY COR SD LOT TH WLY 7.5 IN SLY PAR TO ITS ELY LI 22.54 FT SLY TO ITS SLY LI NELY 5.75 IN TO ITS SELY COR TH NLY TO BEG AND ELY 4 FT 7.5 IN LOT 8 AND PT LOT 10 LYING E OF A LI 25 FT E OF AND PAR WITH E LI LOT 11 INCLDG EASEMENT SE 1/.

Andrew Schneider
Quatre Chiens, LLC

7/28/16
Date


ANDY & HARWOOD OWN
EXIST.
MASONRY
BUILDING #1409
LOT 4
(REC. AS S 88°33' W)
S 87°03'54" W
11.30'
S 01°14'49" E
28.72'
LOT 5
N 20°27'16" W
(REC. AS N 24°56' W)
CONC.
STAIRS
CB
RIM 671.65
BLOCK RETAINING WALL
(36.22' REC.)
73.0'
EM
BLDG. COR.
0.18'W
10' ACCESS EASEMENT
PER DOC. NO. 2394546
(REC. AS S 88°33' W)
S 87°03'54" W
79.78'
UP
ASPHALT
GW
EM
24.0'
4" P.V.C.
D.S.E.
667.83
BLDG. COR.
0.70'S & 1.10'W
BLDG. COR.
0.61'E
5" DOWNSPOUT
D.S.E.
676.52
LOT 6
5" DOWNSPOUT
77.4'
23.5'
5" DOWNSPOUT
D.S.E.
672.76
GRAVEL
35.6'
N 19°51'55"
(REC. AS N 18°20'
CB
RIM 667.01
4"NW INV. 664.50
EXIST. 2 STORY
FRAME AND
MASONRY
BUILDING
BLDG. COR
0.54'E
D.S.E.
675.50
3.6'


TOPOGRAPHIC SURVEY
7600 HARWOOD AVENUE
WAUWATOSA, WISCONSIN
NORTH 76TH STREET (66' R/W)
(CONCRETE PAVEMENT)
HARWOOD AVENUE (66' R/W)
(CONCRETE PAVEMENT)
EXIST. MASONRY BUILDING #7409
EXIST. 2 STORY FRAME AND MASONRY BUILDING
EXIST. BRICK & FRAME BUILDING
10' ACCESS EASEMENT PER DOC. NO. 1364546
S 87°03'04" W
79.78'
ASPHALT
CONC. STAIRS
TRANSFORMER C/L
STONE RETAINING WALL
LANDSCAPE STONE RETAINING WALL
BRICK PAVERS
BRICK PAVER
CONC. CURB
CONCRETE
CONCRETE PLANTER
5" DOWNSPOUT
D.S.E. 672.79
D.S.E. 675.92
D.S.E. 677.40
D.S.E. 675.50
D.S.E. 667.47
D.S.E. 666.50
CB RIM 671.95
CB RIM 667.01
4"NW INV. 664.50
CB RIM 676.10
12"E INV. 671.01
MANHOLE
RIM 677.24
12"N INV. 671.72
NW INV. 672.68
12"E INV. 671.29
10"E INV. 671.84
15"SW INV. 667.90
ELECT. MH
RIM 674.36
GRAPHIC SCALE
LEGEND
DRAWN BY: J.A.C.
CHECKED BY: M.L.W.
SHEET
SD-1
7600 HARWOOD AVENUE
TOPO

ATTACHMENT G

NOTIFICATIONS TO PROPERTY OWNERS OF IMPACTED PROPERTIES

From: Dennis Webb
To: Travis W. Peterson
Cc: andy12874@gmail.com
Subject: Re: WDNR Notification Requirements
Date: Thursday, August 04, 2016 11:40:00 AM

Yes Andy and I have been in contact and I understand and agree with this document.

Regards,
Dennis

Dennis Webb | Sage Water | Global Water Center | 247 W. Freshwater Way | Suite 100 | Mobile: 414.630.0551 | dennis@Sage-Water.com |

On Aug 3, 2016, at 9:00 AM, Travis W. Peterson <tpeterson@kapur-assoc.com> wrote:

> Mr. Webb;
>
> As part of the pending WDNR closure requirements, for investigative actions completed at the 7610 W. Harwood Avenue property located adjacent to the west of your property located at 7600 W. Harwood Avenue, Kapur on behalf of Mr. Andrew Schneider is submitting the attached 'Notification of Continuing Obligations and Residual Contamination' to inform you that subsurface contamination, likely stemming from imported fill materials, appears to be present on your property at 7600 W. Harwood Avenue. The continuing obligations require the asphalt drive and parking area to be maintained and inspected preventing direct contact and surface infiltration.
>
> Upon receipt of this email and the attached notification, if you could respond to this email acknowledging as much and the continuing obligations outlined above. This will allow the WDNR to proceed with the granting of 'final closure.' If you have any questions, please feel free to call. I understand that Andrew and yourself may have already discussed this matter and are eager to wrap up the environmental actions and finalize the real estate transaction. The WDNR has indicated that upon receipt of your acceptance response (and other data requiring submittal), the review process should be expedited and closure issued within 30 days.
>
> Again, thank you for your patience and assistance with this matter.
>
> Cheers;

Travis W. Peterson
Environmental Manager

<image001.jpg> <image002.png>

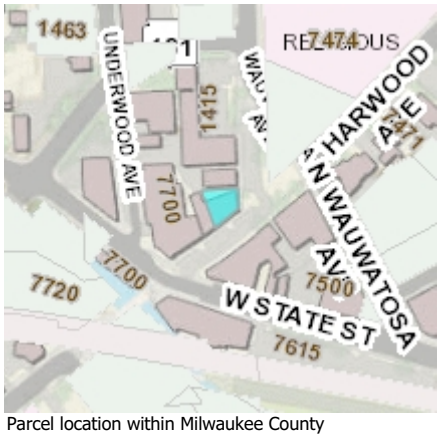
7711 North Port Washington Road | Milwaukee, WI 53217
Main: 414.351.6668 | Direct: ***414.751.7279*** *| Cell:* ***414.254.6358***
tpeterson@kapur-assoc.com www.kapurengineers.com
Milwaukee | Burlington | Wausau | Green Bay | Chicago | Louisville | Philadelphia | Boston | El Paso | St. Louis

<4400-286 signed.pdf>

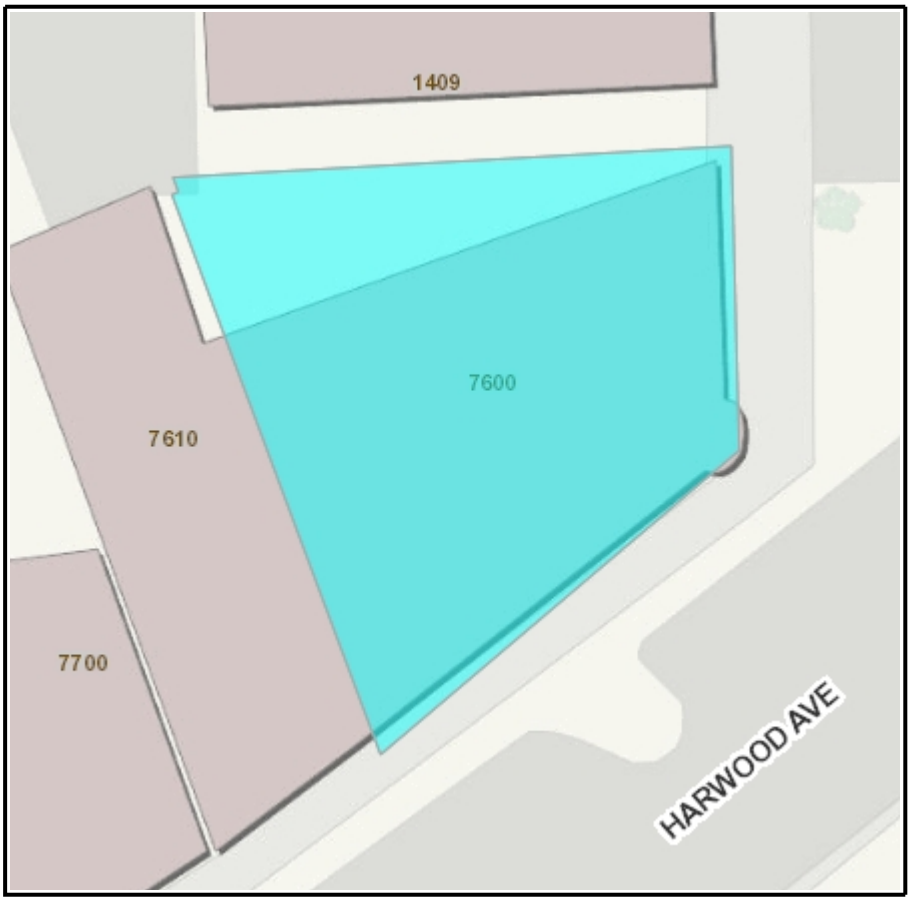
Milwaukee County Land Information Parcel Report

TAXKEY: 3710060000

Report generated 2/8/2016 7:36:40 AM



Parcel location within Milwaukee County



Selected parcel highlighted

Parcel Information

TAXKEY: 3710060000

Record Date: 12/31/2014

Owner(s): HARWOOD LLC

Address: 7600 HARWOOD AVE

Municipality: Wauwatosa

Acres: 0.11

Assessed Value: $723,000

Parcel Photo Not Available

Parcel photo

Parcel Description: COMMERCIAL

Zoning Description:

Legal Description: LEFEBER SUBD LOT 6 AND ELY STRIP OF ADJ LOT 7 7.5 IN WIDE ON ITS NLY LI AND 5.75 IN WIDE ON ITS SLY LI INCLDG EASEMENT SE 1/4 SEC 21

State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI
53707-7921
dnr.wi.gov

Notification of Continuing Obligations and Residual Contamination

Form 4400-286 (9/15)

Notice: Pursuant to s. 292.12(4), Wis. Stats., written notification of parties affected by residual contamination is required. Pursuant to ch. NR 725, Wis. Adm. Code, this form is required to be completed for those sites meeting the criteria in s. NR 725.05 (see below), by a responsible party seeking case closure approval pursuant to ch. NR 726, Wis. Adm. Code or by those persons seeking a remedial action plan approval pursuant to ch. NR 722, Wis. Adm. Code, or by local government units or economic development corporations that are required to take an action pursuant to ch. NR 708, Wis. Adm. Code, when the Department of Natural Resources (DNR) determines that notification is necessary. Personally identifiable information collected will be used for program administration and may be provided to requesters to the extent required by Wisconsin's Open Records law (ss. 19.31-19.39, Wis. Stats.). (Unless otherwise noted, citations refer to Wis. Adm. Code.)

Note: A copy of each completed form must also be submitted to the WI Department of Natural Resources, in accordance with s. NR 726.09 (3), Wis. Adm. Code.

Directions:

1. Include the first page of this form, **Contact Information**, as an attachment with all notifications sent using Sections A and B. (*Filling out the Contact Information page allows for automatic entry of the contact information within the letter.*)
2. To notify affected parties about residual contamination and continuing obligations, use the appropriate section (A, B or C), based on the type of property to which the required notification is to be sent, per s. NR 725.05 and 725.07, Wis. Adm. Code:
   Section A: Deeded Properties
   Section B: Right-of-Way (ROW) - non-Department of Transportation
   Section C: Department of Transportation (DOT) ROW
3. Select and use the applicable paragraphs, based on the types of residual contamination and continuing obligations for the specific property, For the "Residual Contamination" and "Continuing Obligations on Your Property" sections, the applicable language will appear upon selection of the checkboxes.
4. Include the information requested within each paragraph. If requesting remedial action plan approval, or if the Department has directed a local governmental unit to take an action at a site, modify the language regarding a "closure request" to reflect the appropriate situation ("remedial action plan approval" or a "liability clarification letter").
5. Once completed, print the form for mailing.
6. Under s. NR 725.07, Wis. Adm. Code, notification letters under section A and B are required to be sent via certified mail, return receipt requested, or priority mail with signature confirmation. If the notifications are sent via priority mail with signature confirmation, you may use the signature waiver option if you have reason to believe that the owner of the property or other recipient may refuse to sign for the notification.

Situations for Which Notifications are Required:

Under s. NR 725.07, Wis. Adm. Code, notification is required for the following situations:

- groundwater contamination that attains or exceeds applicable standards remains upon completion of the remedial action
- soil contamination that attains or exceeds applicable standards remains upon completion of the remedial action,
- one or more monitoring wells have not been located for abandonment (fill and seal), or
- one or more monitoring wells will be kept for future monitoring,
  Do not use this option if the well/s are to be transferred to another site for continued monitoring. That will be addressed in the final closure letter, upon documentation that responsibility for the well/s has been accepted by the responsible party for the other site.
- a cover (which may include soil covers, pavement, engineered cover, foundations) was used to address exposure by either direct contact or the groundwater pathway,
- a structural impediment (generally a building or other type of structure) prevented completion of a site investigation or remedial action. *This may also apply to site-specific situations which prevent a complete investigation or cleanup, such as an overhead power lines. Contact the agency with administrative authority first for site-specific situations.*
- soil contamination has only been cleaned up to industrial residual contaminant levels, and the property's land use has been classified as industrial under ch. NR 720,
- (vapor) the continued operation of a vapor mitigation system is necessary in order to limit or prevent vapor intrusion. *Notification is provided to the current property owner when that person is not the responsible party conducting the cleanup, and to any other property owners when sub-slab vapor risk screening levels are exceeded, and the operation and maintenance of a vapor mitigation system is necessary in order to limit or prevent vapor intrusion.*

- (vapor) vapor inhalation exposure assumptions for a non-residential setting will be applied for closure.

  Notification is provided to the current property owner when that person is not the responsible party conducting the cleanup, and to any other property owner where residential vapor action levels are exceeded, including at properties used for commercial or industrial purposes.

- (vapor) contamination in soil or groundwater from volatile compounds remains after completion of the remedial action, that could lead to vapor intrusion upon new construction, reconstruction or occupation of an existing building.

  This is especially important in cases where elevated residual soil concentrations or large volumes of soil contaminated with volatile compounds remain. Notification is provided to the current property owner when that person is not the responsible party conducting the cleanup, and to any other property owner where vapors may pose a health issue if buildings are to be constructed in the future, or if other land use changes or actions could result in a completed vapor pathway. This includes expansion or reconstruction of existing buildings.

The Department may also require a condition based on site-specific circumstances. In this case, consult with the project manager to determine what specific information to include in the notification of any affected property owner or right-of-way holder. *This has been used in limited situations where actions such as methane monitoring or fencing were required.*

Parties Receiving Notifications:

Under s. NR 725.05, Wis. Adm. Code, notification must be provided to:

- the owner of each property within or partially within the contaminated site or facility boundaries, other than properties owned by the responsible party,
- occupants of affected properties, as appropriate, *(consult with the project manager if you have questions)*
- the clerk of the county, town, village or city in which an affected public street or highway ROW is located, and municipal department or state agency that is responsible for the maintaining the public street or highway,
- the railroad that maintains the railroad right of way, and
- the owner of each property where a monitoring well will remain, for future abandonment or continued monitoring.

A summary of the notifications sent is to be provided in the case closure request form (4400-202). The attachment for "Notifications to Owners of Affected Properties", in Form 4400-202 includes a summary table of all notifications sent to all property owners or occupants of affected properties and to holders of affected ROWs, a copy of each letter sent, and a proof of receipt for each letter.

Note: A response to a closure request cannot be provided until at least 30 days after this notification letter has been sent. Documentation that this letter has been sent must be provided to the agency with administrative authority for an approval or decision under ch. NR 726, Wis. Adm. Code.

List of Potential Attachments:

(list all attachments to be included; include name of attachment and figure numbers)

Maps

Section A

Monitoring Well Location Map - (Filling & Sealing, Continue Sampling of Wells)

Location of Cover in relation to the extent of contamination (Maintenance of a Cover)

Section B

Monitoring Well Location Map - (Filling & Sealing, Continue Sampling of Wells)

Section C:

Groundwater Isoconcentration Map

Soil Isoconcentration Map

Maintenance plan

Section A

Maintenance of Plan - (Maintenance of a cover, Barrier, and/or Vapor Mitigation System)

Factsheets:

Section A

RR 819, Continuing Obligations for Environmental Protection

RR 671, What Landowners Should Know: Information About Using Natural Attenuation to Clean Up Contaminated Groundwater

RR 892, Vapor Intrusion: What to Expect if Vapor Intrusion from Soil and Groundwater Contamination Exist on My Property

Section B

Groundwater RR 892, Vapor Intrusion: What to Expect if Vapor Intrusion from Soil and Groundwater Contamination Exist on My Property

The affected property is:

- ○ the source property (the source of the hazardous substance discharge), but the property is not owned by the person who conducted the cleanup (a deeded property)
- ◉ a deeded property affected by contamination from the source property
- ○ a right-of-way (ROW)
- ○ a Department of Transportation (DOT) ROW

Include this completed page as an attachment with all notifications provided under sections A and B.

Contact Information

Responsible Party: The person responsible for sending this form, and for conducting the environmental investigation and cleanup is:

Responsible Party Name: Quatre Chiens, LLC

Contact Person Last Name	First	MI	Phone Number (include area code)
Schneider	Andrew		(414) 778-3333

Address	City	State	ZIP Code
7610 W. Harwood Avenue	Wauwatosa	WI	53213

E-mail: andy12874@gmail.com

Name of Party Receiving Notification:

Business Name, if applicable: Harwood, LLC

Title	Last Name	First	MI	Phone Number (include area code)
Mr.	Webb	Dennis		

Address	City	State	ZIP Code
7610 W. Harwood Avenue	Wauwatosa	WI	53213

Site Name and Source Property Information:

Site (Activity) Name: Harwood Avenue Property

Address	City	State	ZIP Code
7610 W. Harwood Avenue	Wauwatosa	WI	53213

DNR ID # (BRRTS#)	(DATCP) ID #
02-41-576745	

Contacts for Questions:

If you have any questions regarding the cleanup or about this notification, please contact the Responsible Party identified above, or contact:

Environmental Consultant: Kapur & Associates, Inc.

Contact Person Last Name	First	MI	Phone Number (include area code)
Peterson	Travis	W	(414) 751-7279

Address	City	State	ZIP Code
7711 N. Port Washington Road	Milwaukee	WI	53217

E-mail: tpeterson@kapur-assoc.com

Department Contact:

To review the Department's case file, or for questions on cleanups or closure requirements, contact:

Department of: Natural Resources (DNR)

Address	City	State	ZIP Code
2300 North Martin Luther King Drive	Milwaukee	WI	53212

Contact Person Last Name	First	MI	Phone Number (include area code)
Amungwafor	Binyoti	F	(414) 263-8607

E-mail (Firstname.Lastname@wisconsin.gov): Binyoti.Amungwafor@wisconsin.gov

Section A: Deeded Property Notification: Residual Contamination and/or Continuing Obligations

KEEP THIS DOCUMENT WITH YOUR PROPERTY RECORDS

7610 W. Harwood Avenue
Wauwatosa, WI, 53213

Dear Mr. Webb:

I am providing this letter to inform you of the location and extent of contamination remaining on your property, and of certain long-term responsibilities (continuing obligations) for which you may become responsible.
I have investigated a release of:
Fill material
on 7610 W. Harwood Avenue, Wauwatosa, WI, 53213 that has shown that contamination has migrated onto your property.
I have responded to the release and will be requesting that the Department of Natural Resources (DNR) grant case closure. Closure means that the DNR will not be requiring any further investigation or cleanup action to be taken. However, continuing obligations may be imposed as a condition of closure approval.

You have 30 days to comment on the attached legal description of your property and on the proposed closure request:

Please review the enclosed legal description of your property, and notify Travis Peterson at 7711 N. Port Washington Road, Milwaukee, WI, 53217 within the next 30 days if the legal description is incorrect.

The DNR will not review my closure request for at least 30 days after the date of receipt of this letter. As an affected property owner, you have a right to contact the DNR to provide any technical information that you may have that indicates that closure should not be granted for this site. If you would like to submit any information that is relevant to this closure request, or if you want to waive the 30 day comment period, you should mail that information to the DNR contact: 2300 North Martin Luther King Drive, Milwaukee, WI, 53212, or at Binyoti.Amungwafor@wisconsin.gov.

Your Long-Term Responsibilities as a Property Owner and Occupant:
The responses included
testing of the subsurface soils and monitoring of the groundwater.
The continuing obligations I am proposing that affect your property are listed below, under the heading **Continuing Obligations**. Under s. 292.12 (5), Wis. Stats., current and future owners and occupants of this property are responsible for complying with continuing obligations imposed as part of an approved closure.

The fact sheet "Continuing Obligations for Environmental Protection" (DNR publication RR 819) has been included with this letter, to help explain the responsibilities you may have for maintenance of a certain continuing obligation, the limits of any liability for investigation and cleanup of contamination, and how these differ. If the fact sheet is lost, you may obtain copies at http://dnr.wi.gov/files/PDF/pubs/rr/RR819.pdf.

Contract for responsibility for continuing obligation:
Before I request closure, I will need to inform the DNR as to whom will be responsible for the continuing obligation/s on your property.
[Indicate which party will be responsible for the continuing obligation(s) on the property, and whether an agreement/ contract has been worked out between the RP and affected party.]

Under s. 292.12, Wis. Stats., the responsibility for maintaining all necessary continuing obligations for your property will fall on you or any subsequent property owner, unless another person has a legally enforceable responsibility to comply with the requirements of the final closure letter. If you need more time to finalize an agreement on the responsibility for the continuing obligations on your Property, you may request additional time from the DNR contact identified in **Contact Information.**

(Note: Future property owners would need to negotiate a new agreement.)

Remaining Contamination:

Soil Contamination:

Soil contamination remains at :
Across the property at depths raging from 2-15 feet below ground surface (bgs).
The remaining contaminants include:
PAH, RCRA Metals, naphthalene.

at levels which exceed the soil standards found in ch. NR 720, Wis. Adm. Code. The following steps have been taken to address any exposure to the remaining soil contamination.
The existing asphalt cap and onsite building serve as an engineered barrier preventing any exposure to the remaining soil contamination.

Groundwater Contamination:

Groundwater contamination originated at the property located at 7610 W. Harwood Avenue, Wauwatosa, WI, 53213 .
Contaminated groundwater has migrated onto your property at:
7600 W. Harwood Avenue, Wauwatosa, WI
The levels of
PAH
contamination in the groundwater on your property are above the state groundwater enforcement standards found in ch. NR 140, Wis. Adm. Code.

However, the environmental consultants who have investigated this contamination have informed me that this groundwater contaminant plume is stable or receding and will naturally degrade over time. I believe that allowing natural attenuation, or the breakdown of contaminants in groundwater due to naturally occurring processes, to complete the cleanup at this site will meet the case closure requirements of ch. NR 726, Wis. Adm. Code. As part of my request for case closure, I am requesting that the DNR accept natural attenuation as the final remedy for this site.

The following DNR fact sheet (RR 671, "What Landowners Should Know: Information About Using Natural Attenuation to Clean Up Contaminated Groundwater") has been included with this notification, to help explain the use of natural attenuation as a remedy. If the fact sheet is lost, you may obtain a copy at http://dnr.wi.gov/files/PDF/pubs/rr/RR671.pdf.

Continuing Obligations on Your Property: As part of the cleanup, I am proposing that the following continuing obligations be used at your property, to address future exposure to residual contamination. If my closure request is approved, you will be responsible for the following continuing obligations.

To construct a new well or to reconstruct an existing well, the property owner at the time of construction or reconstruction will need to obtain prior approval from the DNR. See the paragraph **GIS Registry and Well Construction Requirements.** Typically, this results in casing off a portion of the aquifer during drilling, when needed, to protect the water supply.

Residual Soil Contamination:

If soil is excavated from the areas with residual contamination, the property owner at the time of excavation will be responsible for the following:

- determine if contamination is present
- determine whether the material would be considered solid or hazardous waste
- ensure that any storage, treatment or disposal is in compliance with applicable statutes and rules.

Contaminated soil may be managed in-place, in accordance with ch. NR 718, Wis. Adm. Code, with prior DNR approval. In addition, all current and future property owners and occupants of the property and right-of-way holders need to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken during excavation activities to prevent a health threat to humans.

Depending on site-specific conditions, construction over contaminated soils or groundwater may result in vapor migration of contaminants into enclosed structures or migration along underground utility lines. The potential for vapor inhalation and means of mitigation should be evaluated when planning any future redevelopment, and measures should be taken to ensure the continued protection of public health, safety, welfare and the environment at the site.

Maintenance of a Cover:

A soil cover/engineered cover/other has been placed over remaining contamination to limit contact with the soil,
and this cover will need to be maintained. Inspections will be required, and submittal of inspection reports may be required. Certain activities which would disturb the cover or barrier will be prohibited.
If the cover was intended for industrial or commercial use, notification of the DNR may be required before changing the land use to a residential type use, to determine if the cover will be protective for that use.
A maintenance plan is attached, which describes the maintenance activities likely to be required.
An updated maintenance plan will be provided at closure, if the DNR requires changes to the maintenance plan.

A map, figure 1 & 2 , is attached, which shows the location of the extent of contamination and the extent of the cover.

Use of a Structural Impediment:

A structural impediment building remains on the property, which inhibited a complete investigation and cleanup. If and when this structural impediment is removed, additional investigation will be required, and further cleanup may be necessary.

Maintenance and Audits of Continuing Obligations:

If compliance with a maintenance plan is required as part of a continuing obligation, an inspection log will need to be filled out periodically, and kept available for inspection by the DNR. Submittal of the inspection log may also be required. You will also need to notify any future owners or occupants of this property of the need to maintain the continuing obligation and to document that maintenance in the inspection log. Periodic audits of these continuing obligations may be conducted by the DNR, to ensure that potential exposure to residual contamination is being addressed. The DNR provides notification before conducting site visits as part of the audit.

GIS Registry and Well Construction Requirements:

If this site is closed, all properties within the site boundaries where contamination remains, or where a continuing obligation is applied, will be listed on the Bureau for Remediation and Redevelopment Tracking System (BRRTS) on the Web, at http://dnr.wi.gov/topic/Brownfields/clean.html. Inclusion on this database provides public notice of remaining contamination and of any continuing obligations. Documents can be viewed on this database, and include final closure letters, site maps and any applicable maintenance plans. The location of the site may also be viewed on the Remediation and Redevelopment Sites Map (RR Sites Map), on the "GIS Registry" layer, at the same internet address listed above.

DNR approval prior to well construction or reconstruction is required for all sites included in the GIS Registry, in accordance with s. NR 812.09 (4) (w), Wis. Adm. Code. This requirement applies to private drinking water wells and high capacity wells. Special well construction standards may be necessary to protect the well from the remaining contamination. Well drillers need to first obtain approval from a regional water supply specialist in DNR's Drinking Water and Groundwater Program. The well construction application, form 3300-254, is on the internet at http://dnr.wi.gov/topic/wells/documents/3300254.pdf.

Site Closure:

If the DNR grants closure, you will receive a letter which defines the specific continuing obligations on your property. The status of the site (open or closed) may also be checked by searching BRRTS on the Web. You may view or download a copy of the closure letter (sent to the responsible party) from BRRTS on the Web. You may also request a copy of the closure letter from the **responsible party** or by writing to the DNR contact, at Binyoti Amungwafor, Binyoti.Amungwafor@wisconsin.gov, (414) 263-8607 . The final closure letter will contain a description of the continuing obligation, any prohibitions on activities and will include any applicable maintenance plan.

If you have any questions regarding this notification, I can be reached at: (414) 751-7279 ,
tpeterson@kapur-assoc.com .

Travis Peterson
Signature of responsible party/environmental consultant for the responsible party

Date Signed 7/25/16

Attachments

Contact Information

Legal Description for each Parcel:

Maps:

Maintenance plan

Maintenance of a cover Maintenance of a Cover - Maintenance Plan

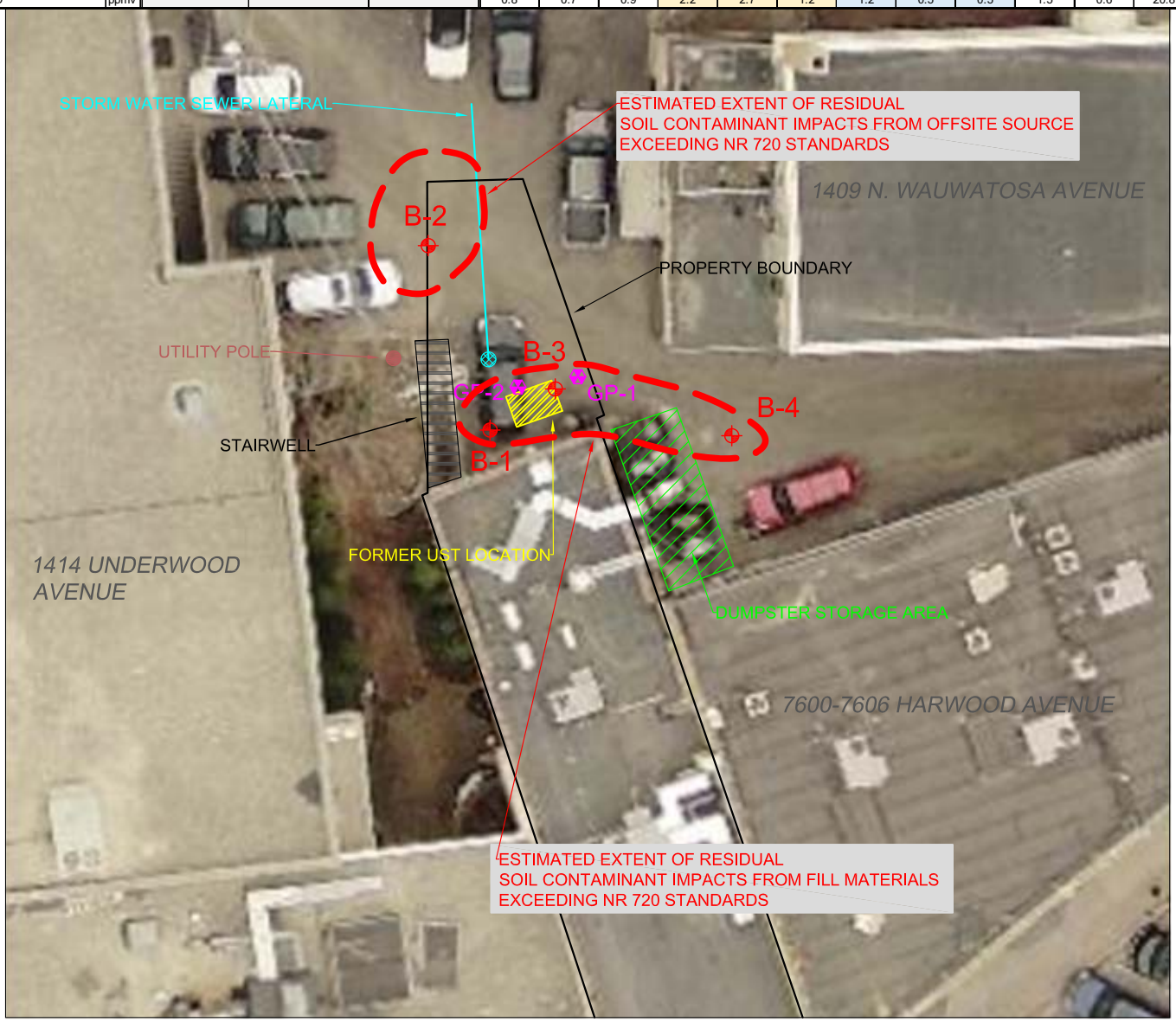
Date 7/25/16

Factsheets:

RR 819, Continuing Obligations for Environmental Protection

RR 671, What Landowners Should Know: Information About Using Natural Attenuation to Clean Up Contaminated Groundwater

Parameter	Units	WI NR 720 Soil to Groundwater Pathway	WI NR 720 Soil Cleanup Standards Direct Contact Industrial	WI NR 720 Soil Cleanup Standards Direct Contact Non-Industrial	B1 (2-4)	B1 (6-8)	B1 (14-16)	B2 (2-4)	B2 (10-12)	B2 (14-16)	B3 (2-4)	B3 (10-12)	B3 (14-16)	B4 (2-4)	B4 (10-12)	B4 (14-16)
Polynuclear Aromatic Hydrocarbons (PAHs)																
1-Methylnaphthalene	ug/kg		53,100	15,600	<77.6	43.1	<9.1	<37.7	18,200	10,800 J	<384	12.1 J	24.6 J	<76.0	31.8	<8.9
Benzo(a)anthracene	ug/kg		2,110	148	874	356	43.1	430	75,900	48,200	10,900	225	384	757	167	38.8
Benzo(a)pyrene	ug/kg	470	211	15	990	390	41.0	500	62,600	37,300	14,100	278	432	829	181	42.9
Benzo(b)fluoranthene	ug/kg	479	2,110.00	148	876	316	40.7	477	45,500	30,800	13,200	248	494	592	175	39.1
Benzo(k)fluoranthene	ug/kg		21,100	1,480	1,020	352	33.0	558	63,000	38,100	12,100	285	362	751	129	36.8
Chrysene	ug/kg	145	211,000	14,800	978	428	47.5	522	76,500	50,300	12,000	262	440	866	201	45.2
Dibenz(a,h)anthracene	ug/kg		211	15	135	77.8	8.3 J	76.4	11,900	5,450	2,760	37.1	59.8	151	31.1	8.9 J
Fluoranthene	ug/kg	88,900	22,000,000	2,290,000	2,160	1,050	106	1,060	213,000	129,000	22,000	587	1,090	2,180	541	96.1
Fluorene	ug/kg	14,800	22,000,000	2,290,000	132 J	79.8	9.8 J	60.6 J	61,400	35,300	516 J	31.2	70.9	155	41.5	<8.9
Indeno(1,2,3-cd)pyrene	ug/kg		2,110	148	337	206	20.9	183	27,500	12,900	6,500	93.8	154	416	87.2	23.3
Naphthalene	ug/kg	658	26,000	5,150	87.6 J	108	10.0 J	47.5 J	94,700	52,400	<384	23.4	51.2	117 J	41.8	<40.0
Pyrene	ug/kg	54,100	16,500,000	1,720,000	1,770	825	80.0	822	132,000	87,500	16,900	454	864	1,830	467	77.5
RCRA Metals																
Arsenic	ug/kg	584	2,390	613	9,900	3,900	<3.3	5,100	4,900	3,800	6,600	3,600	4,500	<3.1	5,300	4,100
Barium	ug/kg	165,000	100,000,000	15,300,000	89,400	29,300	17,100	47,100	31,300	33,800	287,000	52,400	48,600	37,000	20,400	14,000
Cadmium	ug/kg	752	799,000	70,000	490 J	220 J	130 J	510 J	500 J	340 J	1,000	200 J	160 J	140 J	210 J	160 J
Lead	ug/kg	27,000	800,000	400,000	119,000	36,700	13,600	54,800	37,700	48,200	358,000	42,200	41,300	9,900	11,100	6,500
Volatile Organic Compounds (VOCs)																
Naphthalene	ug/kg	658	26,000	5,150	81.5 J	<40.0	<40.0	68.6 J	82,900	96,000	157 J	<40.0	<40.0	<40.0	<40.0	<40.0
PID	ppmv				0.8	0.7	0.9	2.2	2.7	1.2	1.2	0.5	0.5	1.5	0.6	20.8



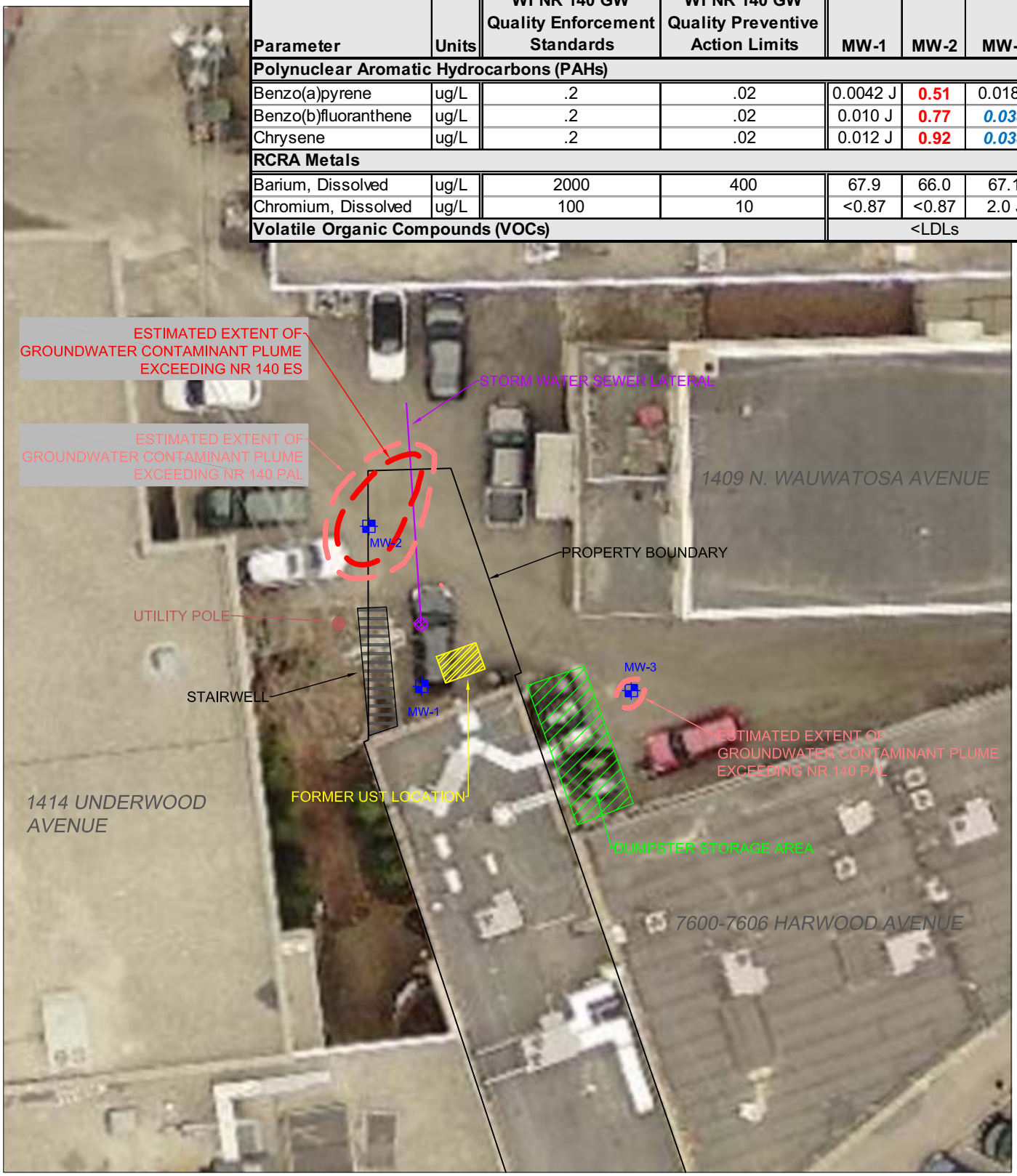
KAPUR & ASSOCIATES, INC.
CONSULTING ENGINEERS
7711 N. PORT WASHINGTON ROAD
MILWAUKEE, WISCONSIN 53217
Phone: 414.351.6668 Fax: 414.351.4117
www.kapurengineers.com

SHEET: RESIDUAL SOIL CONTAMINATION
FIGURE: 1
PROJECT: LE REVE PATISSERIE & CAFE
LOCATION: 7610 HARWOOD AVENUE, WAUWATOSA, WISCONSIN 53213
NORTH ARROW:
SCALE: 1" = 20' (0, 10, 20)
SEAL:
we listen. we innovate. we turn your vision into reality.

DRAWN BY: RAB | CHECKED BY: TWP | APPROVED BY: TWP | PROJECT NO. 16.0131.01 | DATE: 3/9/2016 | REVISION DATE: XXXXXX

FILENAME: S:_Environ\160131-7610 Harwood Ave. Tosa ENV\Figs-Photos\Fig. 2..dwg
PLOT DATE/TIME: 4/12/2016 9:04 AM
PLOTTED BY: TRAVIS W. PETERSON

Parameter	Units	WI NR 140 GW Quality Enforcement Standards	WI NR 140 GW Quality Preventive Action Limits	MW-1	MW-2	MW-3
Polynuclear Aromatic Hydrocarbons (PAHs)						
Benzo(a)pyrene	ug/L	.2	.02	0.0042 J	**0.51**	0.018 J
Benzo(b)fluoranthene	ug/L	.2	.02	0.010 J	**0.77**	***0.038***
Chrysene	ug/L	.2	.02	0.012 J	**0.92**	***0.038***
RCRA Metals						
Barium, Dissolved	ug/L	2000	400	67.9	66.0	67.1
Chromium, Dissolved	ug/L	100	10	<0.87	<0.87	2.0 J
Volatile Organic Compounds (VOCs)				<LDLs		



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SHEET: GROUNDWATER CONTAMINANT PLUME
FIGURE: 2
PROJECT: LE REVE PATISSERIE & CAFE
LOCATION: 7610 HARWOOD AVENUE, WAUWATOSA, WISCONSIN 53213
NORTH ARROW:
SCALE: 1" = 20' (0, 10, 20)
SEAL:
we listen. we innovate. we turn your vision into reality.

DRAWN BY: XXX | CHECKED BY: XXX | APPROVED BY: XXX | PROJECT NO. XXXXXX | DATE: XXX | REVISION DATE: XXXXXX

FILENAME: S:_Environ\160131-7610 Harwood Ave. Tosa ENV\Figs-Photos\FIG 2.dwg PLOT DATE/TIME: 4/12/2016 9:06 AM PLOTTED BY: TRAVIS W. PETERSON