SUPERFUND PRELIMINARY ASSESSMENT

501 South Park Street
City of Madison, Wisconsin
U.S. EPA ID: WIN000521952

WDNR FID #113058770
WDNR BRRTS #02-13-551461

Prepared by:
Wisconsin Department of Natural Resources

January 23, 2024

Prepared by: _____ Date: 1/23/2024
Maizie Reif
Site Assessment Team Leader
Remediation and Redevelopment Program
Wisconsin Department of Natural Resources

Reviewed by: _____ Date: 1/23/2024
Stephen D. Mueller, Hydrogeologist
Regional Site Assessment Coordinator – Southeast Region
Remediation and Redevelopment Program
Wisconsin Department of Natural Resources

Approved by: _____ Date: 4/5/2024
Albert Rios
Site Assessment Manager
Division of Superfund
U.S. Environmental Protection Agency

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ABBREVIATIONS / ACRONYMS:

cis-DCE	= cis-1,2-Dichloroethene
EPA	= U.S. Environmental Protection Agency
ES	= NR 140, Wisconsin Administrative Code, Enforcement Standard (for groundwater)
GIS Registry	= WDNR's Geographical Information Systems Registry
LUST	= Leaking Underground Storage Tank
mg/kg	= milligrams/kilogram
MCL	= EPA Maximum Contaminant Level (for drinking water)
PA	= Preliminary Assessment
PCBs	= polychlorinated biphenyls
PCE	= Tetrachloroethene (aka Perchloroethylene)
PCS	= Pre-CERCLA Screening
ppm	= parts per million
TCE	= Trichloroethene
TSCA	= Toxic Substances Control Act
UST	= Underground Storage Tank
µg/L	= micrograms/Liter
VC	= vinyl chloride
VOCs	= Volatile Organic Compounds
WDNR	= Wisconsin Department of Natural Resources

1.0 INTRODUCTION

Under authority of the Comprehensive Environmental Response Compensation Liability Act of 1980 (CERCLA), and the Superfund Amendments and Reauthorization Act of 1986 (SARA), the Wisconsin Department of Natural Resources (WDNR) was tasked by the U.S. Environmental Protection Agency (EPA) to conduct a Pre-CERCLA Screening (PCS) and a Preliminary Assessment (PA) at the 501 South Park Street site in Madison, Wisconsin as part of the fiscal year 2023-2024 Cooperative Agreement. The purpose of this PA was to collect information concerning conditions at the 501 South Park Street site sufficient to assess the threat posed to human health and the environment and to determine the need for additional CERCLA/SARA or other appropriate action. The scope of the PA included review of available file information, a comprehensive target survey, and a site reconnaissance.

2.0 SITE BACKGROUND

2.1 Location

The 501 South Park Street site (the Site) is located at that address in a commercial-residential area near the center of the City of Madison, Dane County, Wisconsin (Figure 1). The geographic coordinates for the center of the Site are approximately 43.06185 North latitude and -89.400425 West longitude (Figure 1). The Site is a 0.1-acre parcel with the Parcel ID number of 070923314010 (Figure 2 and Reference 1). The climate of Dane County is continental and characterized by cold to very cold winters and mild to warm summers. The average January temperatures range from 13° to 27° F and average July temperatures range from 62° to 81° F. The average annual rainfall is 27.4 inches, and the average annual snowfall is 21.4 inches. (Reference 4).

2.2 Site Description

The property is used as a parking lot for the La Hacienda restaurant to the south. The Site is physically bounded to the north side by the right of way (ROW) for Drake Street, to the south by the La Hacienda Restaurant, to the east by residential properties, and to the west by the ROW for South Park Street. The closest residential properties are located immediately adjacent to the east side of the property. A fence separates the residential properties and the Site; however, the Site serves as a parking lot that is accessible to the public (Figures 2 and 3, Reference 1). The Site slopes towards Lake Monona to the east.

2.3 Operational History and Waste Characteristics

The Site's history consists of gas station and dry-cleaning services. Gas stations operated on the site from 1925 to 1961. Dry-cleaning operations then occurred at the property from 1963 to 1997 under the business names of "One Hour Martinizing" and "Finishing Touch." Evidence shows dry cleaning solvents likely spilled from the vent pipes of the dry-cleaning system during that time (Reference 2). It is unknown what quantity of chemicals spilled. The onsite building was removed in 2001, but the historical layout of the Site is shown on Figure 4.

2.4 Regulatory Status

The Site was entered into the EPA's Superfund Site Information on-line database based on the PCS completed on July 12, 2023. The Site is not listed in the EPA's RCRAInfo on-line database, based on a search of the Site's general street (non-numerical) address, city, and zip code. The Site is the location of an open WDNR Environmental Repair Program (ERP) case with Bureau for Remediation and Remediation and Redevelopment Tracking System (BRRTS) No. 02-13-551461. The case file can be found online at the web address:
https://apps.dnr.wi.gov/botw/GetActivityDetail.do?dsn=551461&siteId=1030400&crumb=1

2.5 Past Environmental Investigations

Soil contamination was first discovered on site during the removal of the onsite fuel storage tanks in 1994. Contamination related to the dry-cleaning operations was found later in 1998. Fuel oil and petroleum contaminates are being investigated under WDNR's Leaking Underground Storage Tank program separately from the dry-cleaning contamination. The dry-cleaning contaminates of concern include: PCE, TCE, cis 1,2 dichloroethene, trans 1,2 dichloroethene, and vinyl chloride. Soil investigation in 1998 revealed PCE concentrations as high as 1,200,000 ug/kg and TCE as high as 29,000 ug/kg on site at 8-10 feet in depth. In 2001 site redevelopment occurred which included razing the onsite building. Limited "shallow" soil sampling occurred after the work was completed and "no significant contaminants were found." Details on these samples were not provided in the Site's file. No documentation was found that indicates excavation of soils at depth took place (Reference 8).

Groundwater sampling was conducted from 2004 to 2008 on three onsite monitoring wells to a depth of 14 feet and showed concentrations as high as 61,000 ug/L for PCE, 30,000 ug/l for TCE, and 3,700 ug/l for vinyl chloride. In 2009, a piezometer was installed to a depth of 50 feet and found 466 ug/l of PCE, 60.1 ug/l of TCE, and 26.4 ug/l of vinyl chloride. Offsite groundwater sampling also took place during 2009 and showed a decrease in concentrations in the shallow groundwater to non-detect concentrations for the contaminates of concern in the northern most well GP-4. At depth in this location (31-33 feet) concentrations were 6.6 ug/L PCE, 2.5 ug/L TCE, and 153 ug/L cis 1,2 dichloroethylene, and non-detect for the other contaminates of concern (Reference 2). The overall groundwater investigation shows a diving plume of contaminates. However, the extent of groundwater contamination has not been defined.

In 2012, a vapor investigation began. This investigation included passive soil gas analysis onsite and on surrounding properties, sub-slab sampling, and indoor air analysis inside the surrounding residences and restaurant. Results are discussed in Section 6.

3.0 FIELD INSPECTION ACTIVITIES

Maizie Reif from the WDNR reviewed current (as of July 2022) and older (August 2018) street view imagery on Google Maps for the Site and its immediate surrounding area. The property remains a well-maintained parking lot with minimal cracks for the La Hacienda Restaurant. Drainage from the site appears to lead to storm sewers located in the streets. No schools or daycares are within 200 feet of the Site (Reference 7). Based on review of street view imagery (Appendix C), a site reconnaissance did not appear to be warranted at this time.

4.0 GROUNDWATER PATHWAY

4.1 Hydrogeologic Setting

Dane County is in the Lower Rock River Basin. The surficial deposits include glacial outwash, isolated patches of older till, and loess over bedrock. The bedrock deposits include the following formations: Devonian shale and limestones to Precambrian sandstone. The shallowest water source in the area is the sand and gravel aquifer. Dane county, however, primarily utilizes an underlying lower sandstone aquifer (Reference 3).

Borings logs for shallow Site monitoring wells indicate that local geology is shallow sandy soil with silty clay at depth. The shallow groundwater flow direction at the Site is documented to be north towards Lake Mendota, not east towards the much closer Lake Monona, and the depth to groundwater is approximately 6-8 feet below grade (References 3 and 2).

4.2 Groundwater Targets

The population within the four-mile radius of the Site is 157,302 people, with 37,610 people within the one-mile radius. A summary of the 2020 census population data (Reference 5) is shown in Table 1.

Table 1 – Population Distribution within 4 Miles of the 501 South Park Street Site

Radius	0-0.25 Mile	0.25-0.5 Mile	0.5-1 Mile	1-2 Miles	2-3 Miles	3-4 Miles	Total
Population	1,172	5,204	31,234	35,918	40,672	43,102	157,302
Households	569	2,271	12,953	15,220	19,034	20,751	70,798

DNR was able to locate a total of 927 database entries for potable water supply wells within four miles of the Site (Table 2). Of these 172 are private potable wells, 15 are municipal wells, and 12 are considered "noncommunity", "non transient non community", and "transient noncommunity." The remaining 728 wells have an unknown status and are likely abandoned. The closest of the private wells, YH017, is approximately 1,300 feet from the site and serves as an emergency backup well for a health services building. This well draws from the underlying sandstone aquifer (Reference 6). It is unknown how many of the other 171 private wells are used by commercial businesses or by private residences. For the purposes of this PA, it is conservatively assumed all 171 wells belong to residential households. Using the 2020 census population data, it is assumed there are 2.06 residents per household; therefore, an estimated 352 residents rely on private potable wells rather than municipal systems within 4 miles of the site.

Most of the population within a 4-mile radius relies on municipal water supplies taken from groundwater. The 15 municipal wells within a 4-mile radius of the Site belong to three different municipal systems. Ten of the wells; BF506, BF508, BF512, BF514, BF517, BF518, BF519, BF523, AX011, and RG700 belong to the city of Madison. Four; HJ185, BF543, BF541, and BF542, belong to the city of Monona and one, BF528 belongs to the city of Fitchburg. The wells range from approximately 750-1000 feet in depth and pump from approximately 100-200 feet below ground surface from the sandstone aquifer. The nearest municipal community well, AX011, is approximately 3,300 feet from the site (Figure 7 – not for public viewing). In 2019 this municipal well had a detection of PCE at .34 ug/l but has since been no detect (Reference 6).

Table 2 - Wells within 4 Miles of the 501 South Park Street Site

Well Types	Distance (Miles) 0.5	1	2	3	4	Totals
MUNICIPAL COMMUNITY		1	4	4	6	15
NONCOMMUNITY					1	1
NONTRANSIENT NONCOMMUNITY			1		1	2
OTHER-THAN-MUNICIPAL COMMUNITY			2			2
PRIVATE POTABLE	1	2	23	83	63	172
TRANSIENT NONCOMMUNITY				2	5	7
UNKNOWN/HISTORICAL LOG	2	4	146	213	363	728
Total	**3**	**7**	**176**	**302**	**439**	**927**

4.3 Groundwater Conclusions

A release of hazardous substances from the Site to the sand and gravel aquifer was detected in groundwater samples from the Site. It is unknown if the contamination has migrated to the underlying sandstone aquifer or how far from the site the contamination has reached in the shallow aquifer. Due to the unknown extent of the deep groundwater plume and the number of nearby drinking water wells, a threat to human health exists.

5.0 SURFACE WATER PATHWAY

There is no evidence of releases of contaminants to surface water via overland flow, groundwater seepage, and/or sewer discharge. Furthermore, the dry-cleaner CVOCs will likely have volatilized or would quickly become well-diluted upon reaching 3,274-acre Lake Monona, the nearest surface water body. Therefore, the surface water pathway is not believed to significantly affect the overall HRS site score. The air pathway does not qualify for further evaluation in the HRS process at this time and was not evaluated as part of this PA.

6.0 SOIL EXPOSURE AND SUBSURFACE INTRUSION (SESI) PATHWAY

6.1 Physical Conditions

While the Site is accessible to the public, as it is used as a public parking lot, the former dry-cleaning property is completely covered in pavement. Due to this the soil exposure component of the SESI Pathway is not a concern at the Site. However, CVOC contaminated groundwater is found at a depth of approximately 8 feet below ground surface on the northern side of the property. Therefore, soil gas and indoor air have been evaluated at several of the nearby buildings as a potential concern (Reference 2).

6.2 Soil and Subsurface Intrusion Targets

The nearest residence is 85 feet to the east of the Site. While the extent of the shallow groundwater impacts is not known, there are regularly occupied structures within 200 feet of the site that could potentially be impacted by subsurface intrusion. As shown in Figure 8, within 200 feet of the site there are 8 residents and 8 commercial businesses with 2 of those businesses having apartment units on the second floor. According to population data, 1,172 people reside within 0.25 miles of the Site.

Indoor air samples and sub-slab samples were collected at four of the surrounding residences as well as the La Hacienda Restaurant to the south. Results show elevated levels for PCE and TCE at the restaurant and TCE at one of the residences. The restaurant showed indoor air concentrations of PCE at 2.73 ppbv and TCE at 0.24 ppbv, exceeding the EPA's cancer risk screening levels of 1.59 ppbv and 0.0889 ppbv, respectively. The residence showed a sub-slab concentration of TCE at 0.340 ppbv (Reference 2).

6.3 Soil Exposure and Subsurface Intrusion Conclusions

Only two of the six nearby structures sampled have been found to have a potential subsurface (vapor) intrusion concern. However, the remaining occupied structures within 200 feet of the site have not had any indoor air or sub-slab analysis completed. The subsurface intrusion component of the SESI Pathway appears to pose a threat at the Site due to the unknown extent of shallow contaminated groundwater and the number of potential targets nearby. and.

7.0 AIR PATHWAY

Release of vapors and/or particulates to the air is unlikely due to the pavement of the parking lot covering the contaminated soil. In addition, during the perimeter survey, no odors were detected and there was no indication of blowing dust or soil. Therefore, the air pathway is not believed to significantly affect the overall HRS site score. The air pathway does not qualify for further evaluation in the HRS process at this time and was not evaluated as part of this PA.

8.0 SUMMARY AND CONCLUSIONS

The 501 South Park Street site is located in a commercial-residential area near the center of the City of Madison, Dane County, Wisconsin. The Site is a 0.1-acre completely paved parcel used for parking for the nearby La Hacienda Restaurant. Dry-cleaning operations occurred at the property from 1963 to 1997. Evidence shows dry-cleaning solvents (PCE, TCE) likely spilled from the vent pipes of the dry-cleaning system during that time. Impacts to groundwater and soil have been documented at the Site. Threats to human health through the subsurface intrusion component of the SESI Pathway are possible due to the unknown extent of the shallow groundwater plume at the Site and the number of potential targets nearby. Threats to human health through the groundwater pathway are also possible due to the potential contamination of nearby potable wells. Conversely, the surface water and air pathways and the soil exposure component of the SESI pathway are not believed to pose a significant threat to human health and the environment and were not further evaluated as part of this PA.

9.0 REFERENCES

1. Dane County. DCiMap. Retrieved from Dane County: https://dcimapapps.countyofdane.com/dcmapviewer/ (Accessed May 2023).

2. Seymour Environmental Services, Inc., Environmental Investigation Update, March 2014

3. Wisconsin Department of Natural Resources. Lower Rock River Geologic and Geographic Setting. Retrieved from: https://dnr.wisconsin.gov/topic/Watersheds/basins/lowerrock/groundwaterfiles/geosetting.html (Accessed May 2023).

4. Weather Spark. Climate and Average Weather Year Round in Dane. Retrieved from: https://weatherspark.com/y/12831/Average-Weather-in-Dane-Wisconsin-United-States-Year-Round (Accessed July 2023).

5. ESRI. *ESRI Demographic Profile.* ESRI. 2023

6. Wisconsin Department of Natural Resources. The Groundwater Retrieval Network. Retrieved from Wisconsin Department of Natural Resources: https://dnr.wisconsin.gov/topic/Groundwater/GRN.html (Accessed August 25, 2023).

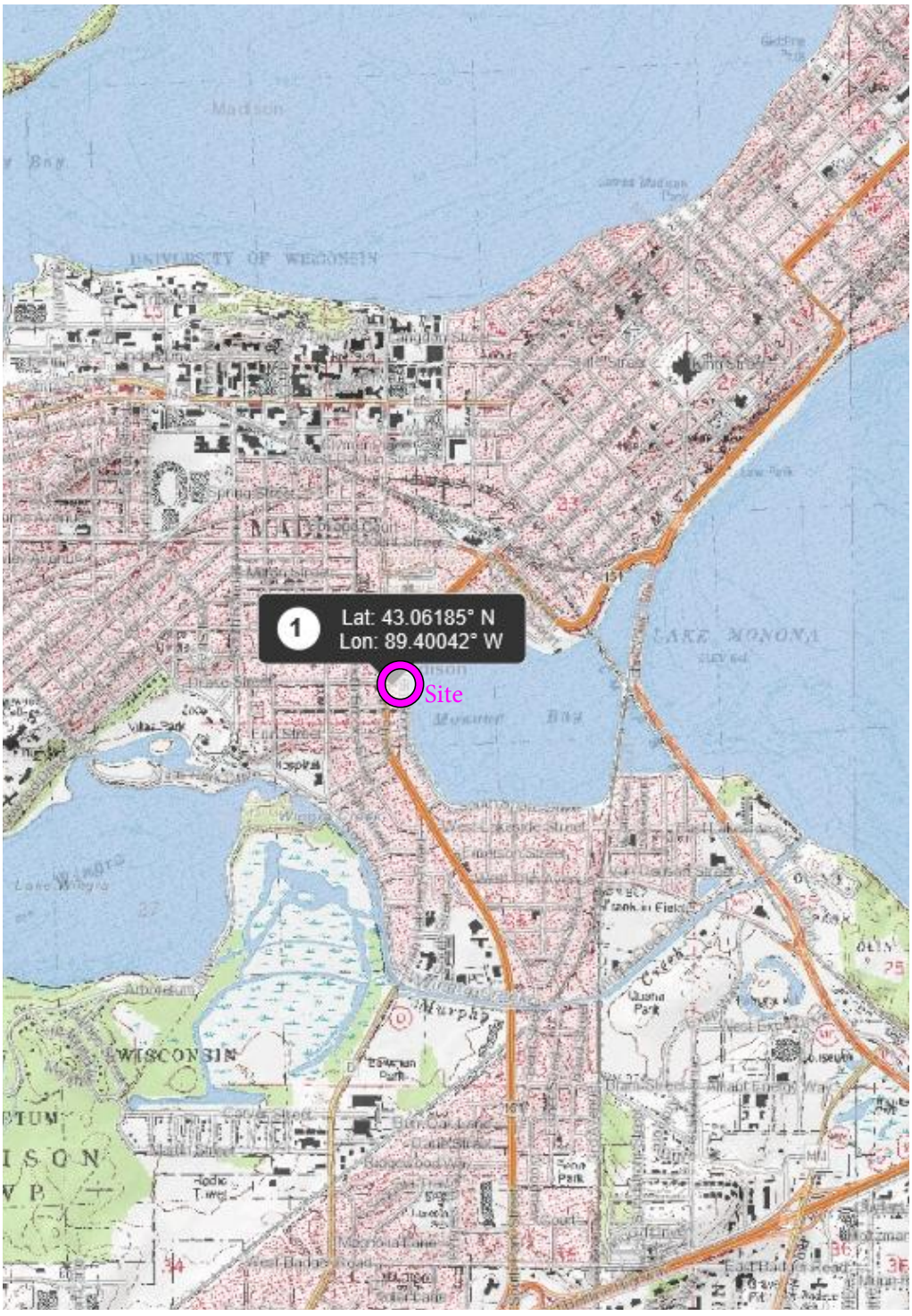
7. Google. Google Street View. Retrieved from: https://www.google.com/maps/@43.0618424,-89.4006745,3a,75y,80.9h,96.7t/data=!3m6!1e1!3m4!1sIn0aHN3HDoyiisrzAdX0EA!2e0!7i16384!8i8192?entry=ttu. (Accessed October 2023)

8. Seymour Environmental Services Inc., Dry-Cleaner Site Investigation Letter Workplan, October 2008.

APPENDIX A

FIGURES

Figure 1. Site Location Map



Legend

0.6 0 0.6 Miles

1: 28,773

NAD_1983_HARN_Wisconsin_TM

Notes

Note: Not all sites are mapped.

Figure 2. Property Boundaries

Legend

- County Tax Parcels
- Railroads
- **Site**

0.0 0 0.0 Miles

1: 495

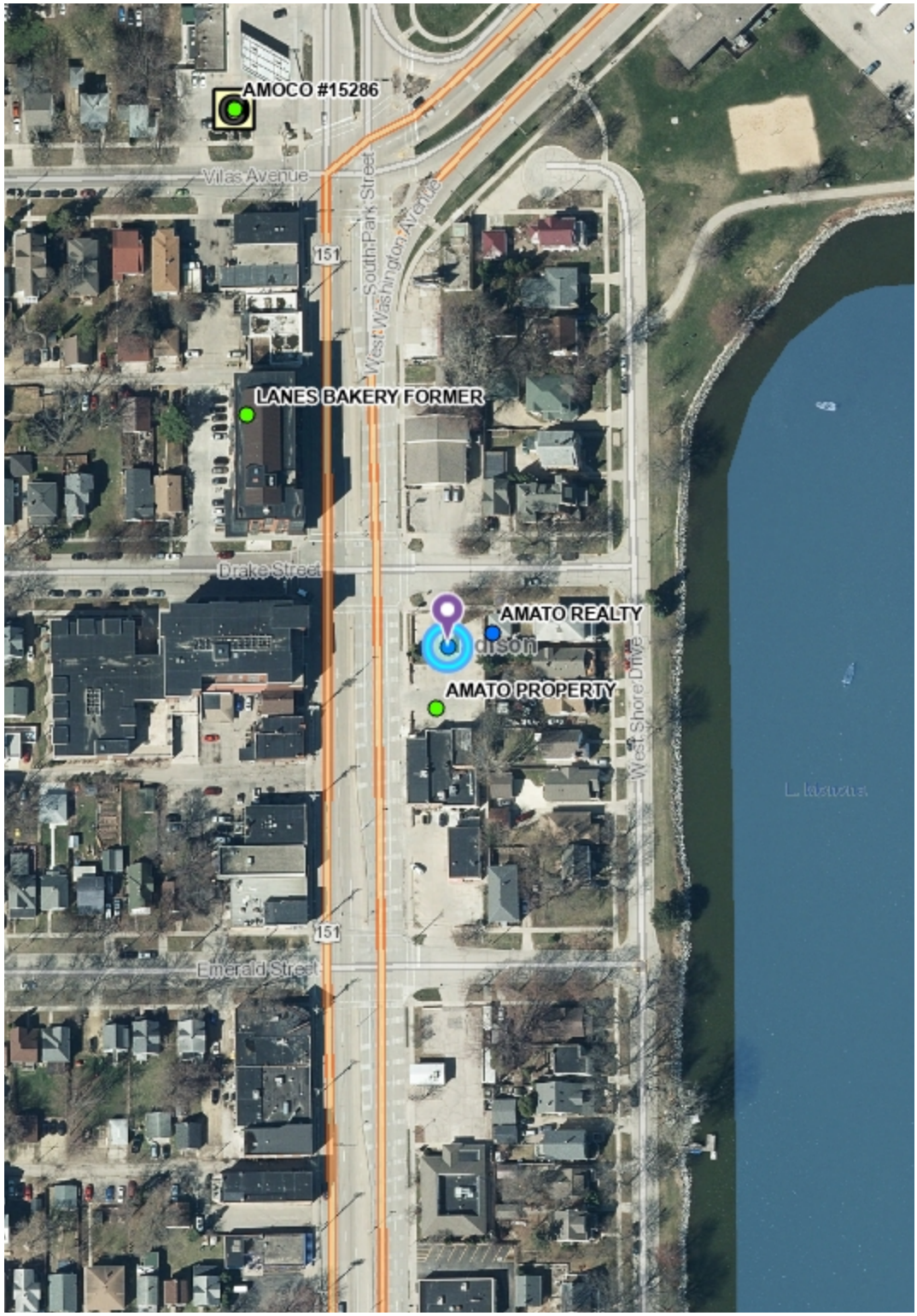
NAD_1983_HARN_Wisconsin_TM

DISCLAIMER: The information shown on these maps has been obtained from various sources, and are of varying age, reliability and resolution. These maps are not intended to be used for navigation, nor are these maps an authoritative source of information about legal land ownership or public access. No warranty, expressed or implied, is made aregarding accuracy, applicability for a particular use, completemenss, or legality of the information depicted on this map. For more information, see the DNR Legal Notices web page: http://dnr.wi.gov/org/legal/

Note: Not all sites are mapped.

Notes

Figure 3. Site Map



Legend

- Open Site
- Closed Site
- Continuing Obligations Apply
- Impacted Another Property(ies) or Ri
- Railroads

0.0 0 0.0 Miles

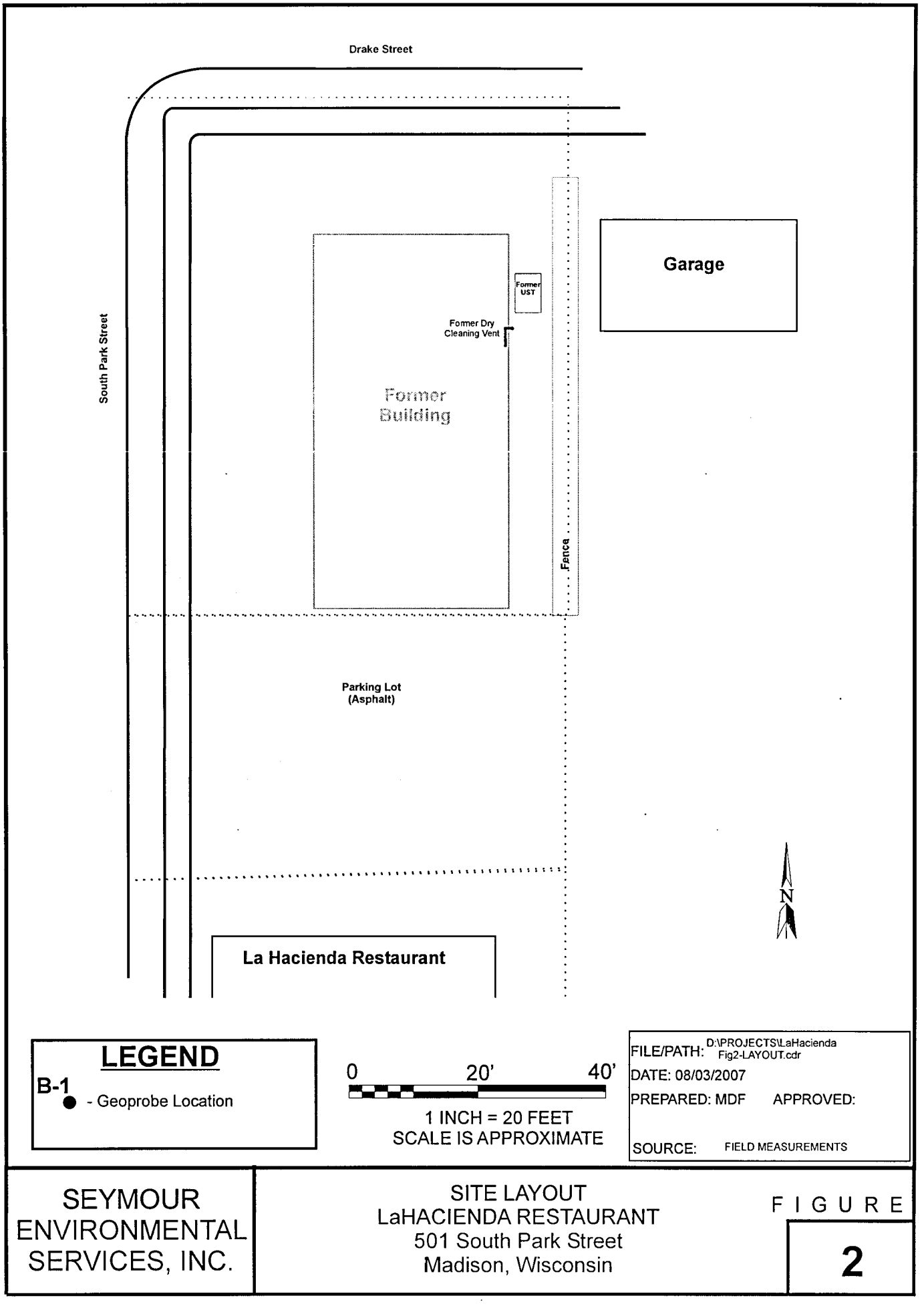
1: 1,980

NAD_1983_HARN_Wisconsin_TM

Note: Not all sites are mapped.

Notes

Figure 4. Historic Site Layout



SEYMOUR ENVIRONMENTAL SERVICES, INC.

SITE LAYOUT
LaHACIENDA RESTAURANT
501 South Park Street
Madison, Wisconsin

FIGURE 2

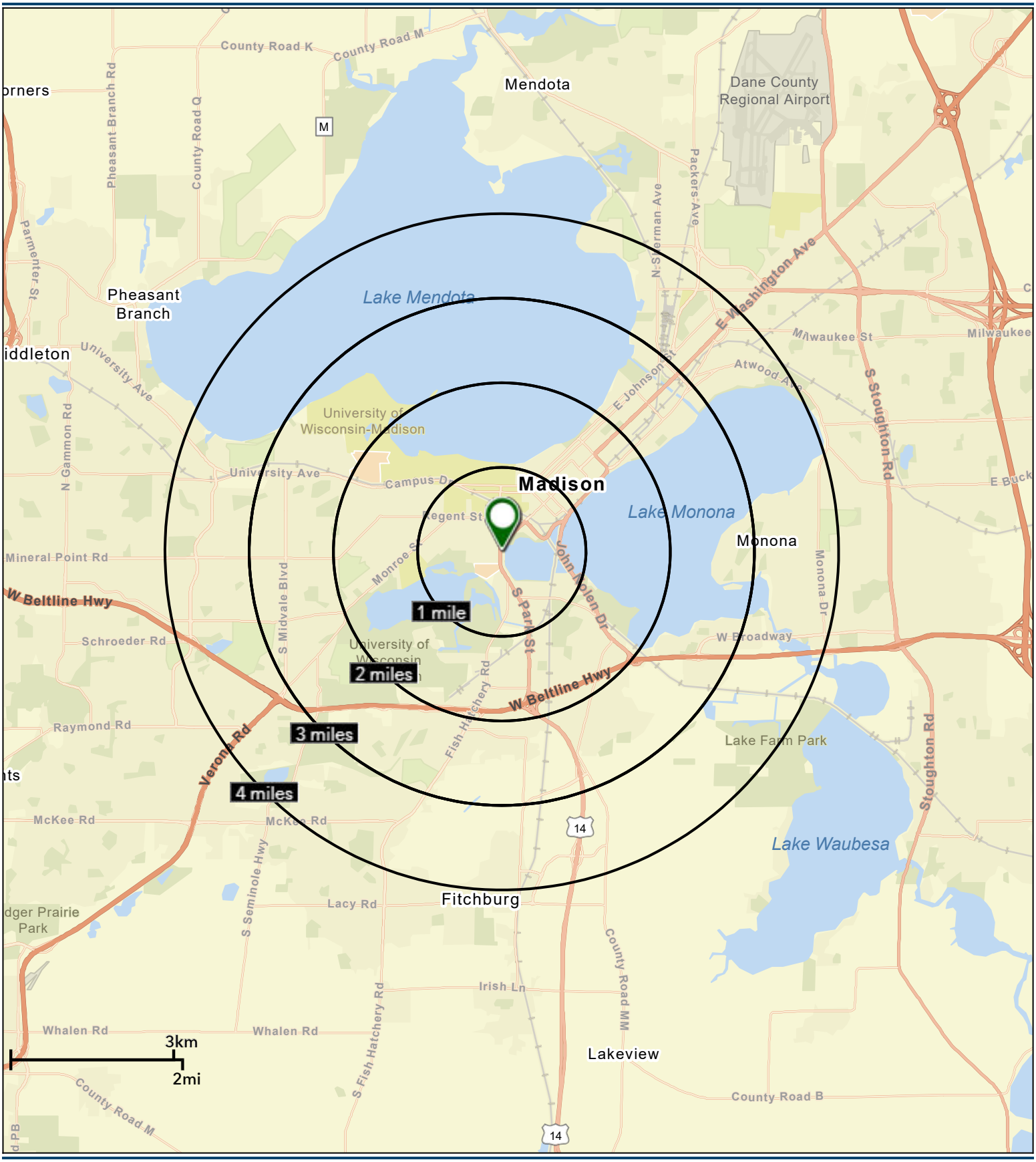
La Hacienda

- 1 Mile Radius

June 28, 2023

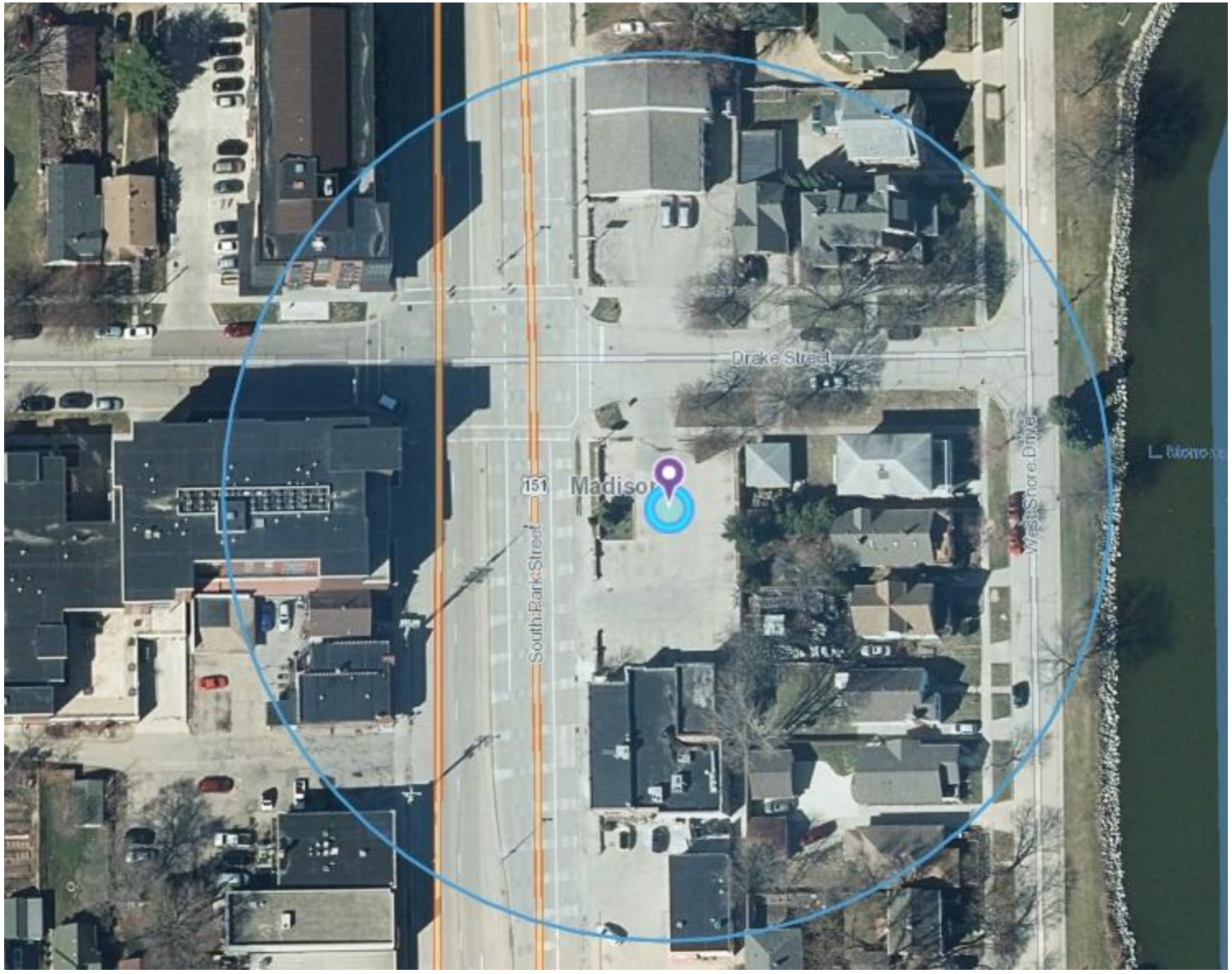
La Hacienda

- 4 Mile Radius



June 28, 2023

Figure 8. 200 Foot Radius Map



Legend

Railroads

0.0 0 0.02 0.0 Miles

NAD_1983_HARN_Wisconsin_TM

1: 990

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Note: Not all sites are mapped.

Notes

APPENDIX B

EPA PCS Form

Pre-CERCLA Screening Checklist/Decision Form

This form is used in conjunction with a site map and any additional information required by the EPA Region to document completion of a Pre-CERCLA Screening (PCS). The form includes a decision on whether a site should be added to the Superfund program's active site inventory for further investigation. This checklist replaces Attachment A in the December 2016 PCS Guidance document. A current version of the PCS checklist and additional information is available at: https://www.epa.gov/superfund/pre-cercla-screening.

Region: 5 **State/Territory:** WI **Tribe:** _____ **EPA ID No. (If Available)**

Site Name: 501 South Park Street

Other Site Name(s): La Hacienda

Site Location: 501 South Park Street (Street)

2 (Congressional District) | Madison (City) | WI (State/Terr.) | DANE (County) | 53715 – _____ (Zip+4) | ☐ (No Zip Available)

If no street address is available: _____ (Township-Range) _____ (Section)

Checklist Preparer:

Maizie Reif (Name / Title) 06/19/2023 (Date)

Wisconsin Dept. of Natural Resources (Organization) (920) 360-4291 (Phone)

2984 Shawano Ave (Street) _____ e-Mail

Green Bay (City) | WI (State/Terr.) | BROWN (County) | 54313- _____ (Zip+4)

Site Contact Info/Mailing Address: David Herrera / 4193 Lookout Trail, McFarland, WI 53558

CERCLA 105d Petition for Preliminary Assessment? No **If Yes, Petition Date (mm/dd/yyyy):** _____

RCRA Subtitle C Site Status: Is site in RCRA Info? No **If Yes, RCRA Info Handler ID #:** _____

Ownership Type: Private **Additional RCRA Info ID #(s):** _____

Site Type: Other **State ID #(s):** 02-13-551461

Site Sub-Type: (Make selection) **Other ID #(s):** _____

Federal Facility? No **Federal Facility Owner:** (Make selection)

Formerly Used Defense Site (FUDS)? No

Federal Facility Docket? No **If Yes, FF Docket Listing Date (mm/dd/yyyy):** _____

Federal Facility Docket Reporting Mechanism: (Make selection)

Native American Interest? No **If Yes, list Tribe:** _____

Additional Tribe (s): (Make Selection)

Additional Tribe (s): (Make Selection)

Site Description

Use this section to briefly describe site background and conditions if known or (easily) available, such as: operational history; physical setting and land use; site surface description, soils, geology and hydrogeology; source and waste characteristics; hazardous substances/contaminants of concern; historical releases, previous investigations and cleanup activities; previous regulatory actions, including permitting and enforcement actions; institutional controls; and community interest.

From 1925 to 1961 the property was used as a gas station. The property then served as a dry cleaning facility from 1963 to 1997 (One Hour Martinizing and the Finishing Touch). Contamination was discovered on the property in 1993/1994 during the removal of fuel storage tanks when soil samples revealed elevated levels of PCE and TCE. Fuel oil contaminates were also discovered, but are being investigated under WDNR's Leaking Underground Storage Tank program. Since then concentrations of PCE, TCE, and their breakdown products have been found in soil, groundwater, soil gas, and indoor air. No remediation has occurred on the property and the former dry cleaning building was removed in 2001. The property now serves as a parking lot for the La Hacienda restaurant to the south. Residential and commercial properties surround the property in the remaining sides. Site geology consists of mostly sandy soils with the underlying aquifer defined as confined or partially confined, well to moderately well sorted sand and gravel overlain by silty or clayey lake sediments as according to the Wisconsin Geological and Natural History

Geospatial Information

Latitude: 43.061861751 **Longitude:** -89.400429831

Decimal Degree North (e.g., 38.859156) **Decimal Degree West (e.g., 77.036783)**

Provide 4 significant digits at a minimum, more if your collection method generates them.

Except for certain territories in the Pacific Ocean, all sites in U.S. states and territories are located within the northern and western hemispheres and will have a positive latitude sign and negative longitude sign. Coordinate signs displayed above are based on the State/Territory entry on page A-1. Geospatial data tips from the PCS Guidance document are available **here**.

Point Description: Select the option below that best represents the site point for future reference and to distinguish it from any nearby sites. See additional information **here**.

- ☐ Geocoded (address-matched) Site Address
- ☐ Site Entrance (approximate center of curb-cut)
- ☒ Approximate Center of Site
- ☐ Other Distinguishing Site Feature (briefly describe):

Point Collection Method: Check the method used to collect the coordinates above and enter the date of collection. See additional information **here**.

- ☒ Online Map Interpolation
- ☐ GPS (handheld, smartphone, other device or technology with accuracy range < 25 meters)
- ☐ GPS Other (accuracy range is ≥ 25 meters or unspecified)
- ☐ Address Matching: Urban
- ☐ Address Matching: Rural
- ☐ Other Method (briefly describe below):

Collection Date (mm/dd/yyyy): 05/24/2023

POINT-SELECTION CONSIDERATIONS

- Often the best point is a feature associated with the environmental release or that identifies the site visually.
- Use the curb cut of the entrance to the site if there is a clear primary entrance and it is a good identifier for the overall location.
- The approximate center of the site (a guess at the centroid) is useful for large-area sites or where there are no appropriate distinguishing features.
- Use the geocoded address if that is the only or best option available, but if possible use something more representative for sites larger than 50 acres.

Complete this checklist to help determine if a site should be added to the Superfund Active site inventory. See Section 3.6 of the PCS guidance for additional information.	YES	NO	Unknown
1. An initial search for the site in EPA's Superfund active, archive and non-site inventories should be performed prior to starting a PCS. Is this a new site that does not already exist in these site inventories?	☒	☐	☐
2. Is there evidence of an actual release or a potential to release?	☐	☐	☐
3. Are there possible targets that could be impacted by a release of contamination at the site?	☒	☐	☐
4. Is there documentation indicating that a target has been exposed to a hazardous substance released from the site?	☐	☒	☐
5. Is the release of a naturally occurring substance in its unaltered form, or is it altered solely through naturally occurring processes or phenomena, from a location where it is naturally found?	☐	☒	☐
6. Is the release from products which are part of the structure of, and result in exposure within, residential buildings or business or community structures?	☐	☐	☐
7. If there has been a release into a public or private drinking water supply, is it due to deterioration of the system through ordinary use?	☐	☐	☐
8. Are the hazardous substances possibly released at the site, or is the release itself, excluded from being addressed under CERCLA?	☐	☐	☐
9. Is the site being addressed under RCRA corrective action or by the Nuclear Regulatory Commission?	☐	☐	☐
10. Is another federal, state, tribe or local government environmental cleanup program other than site assessment actively involved with the site (e.g., state voluntary cleanup program)?	☒	☐	☐
11. Is there sufficient documentation or evidence that demonstrates there is no likelihood of a significant release that could cause adverse environmental or human health impacts?	☐	☒	☐
12. Are there other site-specific situations or factors that warrant further CERCLA remedial/integrated assessment or response?	☐	☐	☒

Preparer's Recommendation: ☒ **Add** site to the Superfund Active site inventory.

☐ **Do not add** site to the Superfund Active site inventory.

Please explain recommendation below:

PCS Summary and Decision Rationale

Use this section to summarize PCS findings and support the decision to add or not add the site to the Superfund active site inventory for further investigation. Information does not need to be specific but, where known, can include key factors such as source and waste characteristics (e.g., drums, contaminated soil); evidence of release or potential release; threatened targets (e.g., drinking water wells); key sampling results (if available); CERCLA eligibility; involvement of other cleanup programs; and other supporting factors. Attach additional pages as necessary.

There is known contamination including PCE, TCE, and various break down products in soil, groundwater, and soil gas and potentially indoor air. No investigation has occurred since 2014. The property is surrounded by residential and commercial properties.

Maizie Reif	State staff/State contractor	06/19/2023
Checklist Preparer Name	**Checklist Preparer Organization**	**Date**

EPA Regional Review and Pre-CERCLA Screening Decision

Add site to the Superfund active site inventory for completion of a:

- ☒ Standard/full preliminary assessment (PA)
- ☐ Abbreviated preliminary assessment (APA)
- ☐ Combined preliminary assessment/site inspection (PA/SI)
- ☐ Inegrated removal assessment and preliminary assessment
- ☐ Integrated removal assessment and combined PA/SI
- ☐ Other: _____

Do not add site to the Superfund active site inventory. Site is:

- ☐ Not a valid site or incident
- ☐ Being addressed by EPA's removal program
- ☐ Being addressed by a state cleanup program
- ☐ Being addressed by a tribal cleanup program
- ☐ Being addressed under the Resource Conservation and Recovery Act
- ☐ Being addressed by the Nuclear Regulatory Commission
- ☐ Other: _____

Optional - Print name of EPA Site Assessor making this decision: David Brauner

EPA Regional Approval: (Enter Date and then click this box to initiate digital signature stamp)

Date

07/12/2023

Site Description

(All text as entered on page A-2)

From 1925 to 1961 the property was used as a gas station. The property then served as a dry cleaning facility from 1963 to 1997 (One Hour Martinizing and the Finishing Touch). Contamination was discovered on the property in 1993/1994 during the removal of fuel storage tanks when soil samples revealed elevated levels of PCE and TCE. Fuel oil contaminates were also discovered, but are being investigated under WDNR's Leaking Underground Storage Tank program. Since then concentrations of PCE, TCE, and their breakdown products have been found in soil, groundwater, soil gas, and indoor air. No remediation has occurred on the property and the former dry cleaning building was removed in 2001. The property now serves as a parking lot for the La Hacienda restaurant to the south. Residential and commercial properties surround the property in the remaining sides. Site geology consists of mostly sandy soils with the underlying aquifer defined as confined or partially confined, well to moderately well sorted sand and gravel overlain by silty or clayey lake sediments as according to the Wisconsin Geological and Natural History Survey Open-File Report 1999-04 Plate 1.

PCS Summary and Decision Rationale

(All text as entered on page A-4)

There is known contamination including PCE, TCE, and various break down products in soil, groundwater, and soil gas and potentially indoor air. No investigation has occurred since 2014. The property is surrounded by residential and commercial properties.

APPENDIX C

Street View Imagery


Google Street View
Jul 2022
See more dates
Brittingham Park
La Hacienda
Dunkin'
Google
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Google Street View
Jul 2022
See more dates
La Hacienda
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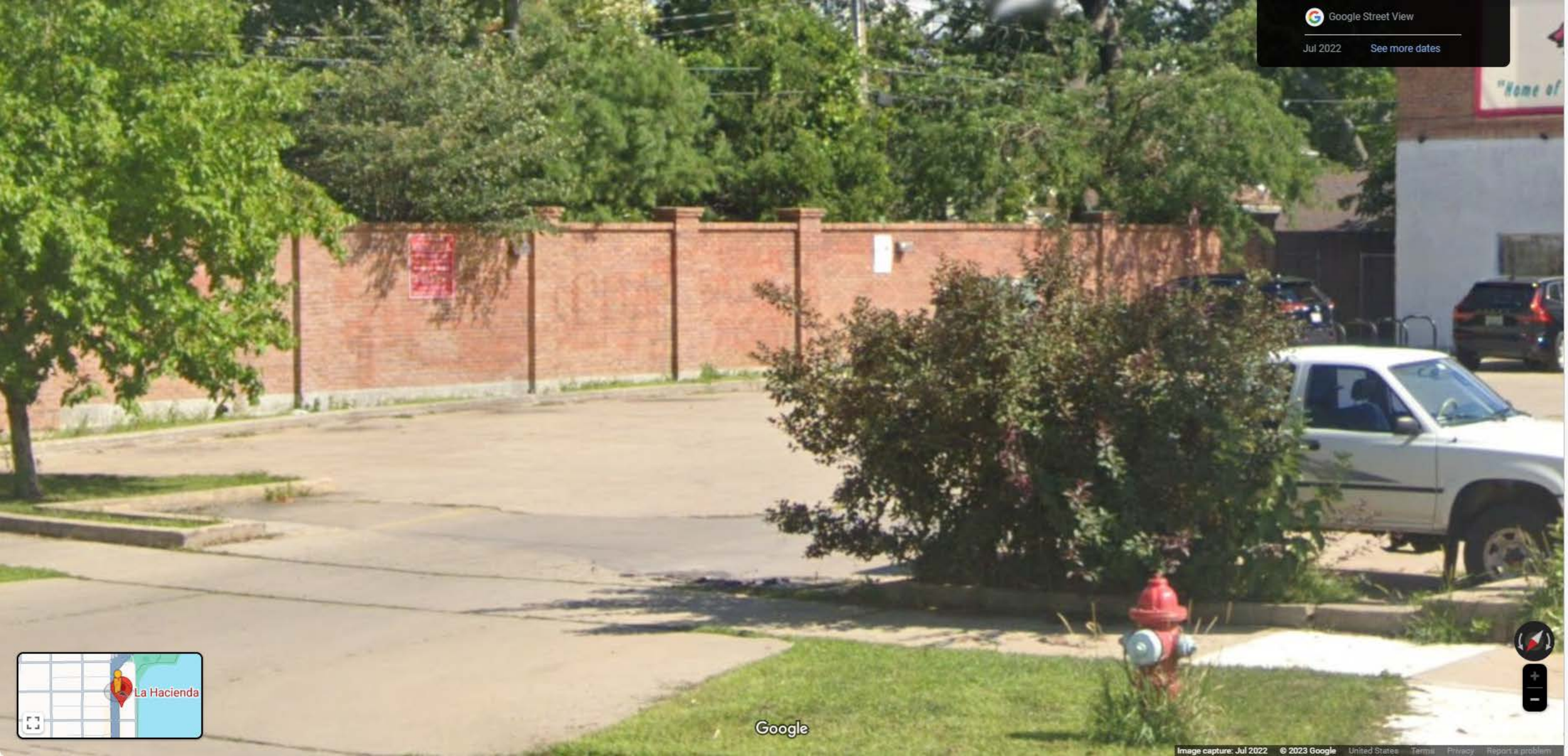
Google Street View
Jul 2022
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"Home of
La Hacienda
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DOG HAUS UNIVERSITY
SOUTH
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La Hacienda
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GEORGE'S
FLOWERS
GEORGE'S FLOWERS
Downtown
SPEED LIMIT
25
BIKE LANE ENDS
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NO PARKING
MONDAYS
Google Street View
Aug 2018
See more dates
La Hacienda
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APPENDIX D

References

Reference 2

ENVIRONMENTAL INVESTIGATION UPDATE
LA HACIENDA RESTAURANT (BRRTS #03-13-546658)
501 SOUTH PARK STREET
MADISON, WISCONSIN 53715

PREPARED FOR:

MR. DAVID HERRERA
515 SOUTH PARK STREET
MADISON, WISCONSIN 53715

March 2014

Prepared By:

SEYMOUR ENVIRONMENTAL SERVICES, INC.
2531 DYRESON ROAD
McFARLAND, WISCONSIN 53558

The following personnel have reviewed this report for accuracy, content, and quality of presentation.

_____ _____

Robyn Seymour Date

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B	Boring Logs and Abandonment Forms
C	Beacon Reports
D	Wisconsin Laboratory of Hygiene Laboratory Reports
E	Meriter Well Information

1.0 INTRODUCTION

David Herrera, owner of the La Hacienda Restaurant (La Hacienda) retained Seymour Environmental Services, Inc. (Seymour) to provide environmental consulting for the La Hacienda property (formerly Amato property). Resource Engineering Associates identified dry cleaning chemicals at the site during their early investigation.

The site is located at the corner of South Park and Drake Streets in Madison, Wisconsin (Figure 1). The property was the site of gas stations that operated from around 1925 until 1961. From at least early 1963 until 1997 dry cleaning facilities (One Hour Martinizing and the Finishing Touch) were operated at the property. In 1993 the fuel storage tanks were removed at the site. During tank closure, petroleum odors were noted in the area of a fuel oil tank. A soil sample collected near the former heating oil UST in 1994 (HA-1) showed soils in the area contained elevated levels of diesel range organics (DRO), gasoline range organics (GRO), tetrachloroethene (PCE), and trichloroethene (TCE).

1.1 Summary of Previous Investigation

In 1998 Resource Engineering Associates (REA) conducted soil and groundwater sampling at the site. Four geoprobe borings were installed along the eastern edge of the property. The general site layout and the locations of the initial boring are shown on Figure 2. Soil and groundwater samples collected from those borings indicate that both motor fuel and dry cleaning related compounds are present at the site. The fuel oil contamination appears to be restricted to within 20 feet of the former UST. The dry cleaning chemicals at the site are more widespread. The highest levels of dry cleaning chemicals were noted in the area slightly south of the former UST; this is the location of the former vent for the dry cleaning system. The concentration of PCE in this area is very high; the soil near the water table contained 1200 mg/kg (0.12%) PCE. Not surprisingly, a groundwater sample collected at this location contained 3,000,000 ug/l PCE (0.3%). The solubility of PCE at 68° F is 0.02%. Laboratory results from the initial soil and groundwater sampling are summarized on Table 1.

In 2001 the redevelopment of the site was conducted. This work included the removal of the existing building on the north side of the lot and construction of a noise barrier wall/fence along the eastern side of the parcel. Limited soil sampling was conducted in the area of the barrier wall/fence as part of the redevelopment. Samples were collected in that area from the surface to a depth of approximately four feet to determine whether soils that required excavation for the barrier wall/fence construction would require special handling. No significant contaminants were found during the shallow soil sampling in this area.

In January 2004 REA installed three water-table monitoring wells at the site (Figure 3). Water level data and groundwater samples were collected from the wells on two occasions in early 2004. The water level data show that groundwater is present at a depth of approximately 8 feet below grade and indicate that shallow groundwater flow at the site is toward the north-northwest. Water level data is included on Table 2. It is unclear whether utility corridors in the area impact the water level information. Analytical data

show that groundwater across the site contained volatile organic compounds (VOCs) at concentrations in excess of WDNR groundwater quality standards (Table 3). Although several motor fuel related contaminants were detected in the groundwater only chlorinated compounds generally associated with dry cleaning were present at concentrations exceeding the NR140 enforcement standard (ES). The highest contaminant levels were noted in groundwater samples collected from MW-2. Contaminant levels were nearly as high in samples from MW-3. Compounds present in these wells at concentrations exceeding the ES include PCE, TCE, cis-1, 2 dichloroethylene, trans-1, 2 dichloroethylene, 1,1 dichloroethylene, and vinyl chloride. Groundwater in the area of MW-1 appears to be much cleaner than along the eastern side of the property. The only analytes present in this well above the ES were vinyl chloride and cis-1, 2 dichloroethylene.

1.2 Project Information

Property Location	La Hacienda Restaurant 501 South Park Street Madison, Wisconsin 53714 SW ¼ SW ¼ Section 23, T7N, R09E Contact: David Herrera (608) 255-8227
Consultant	Seymour Environmental Services, Inc. 2531 Dyreson Road McFarland, Wisconsin 53558-0398 Contact: Robyn Seymour (608) 838-9120
Geoprobe Contractor	Soil Essentials W6306 State Highway 39 New Glarus, Wisconsin 53574 Contact: Dave Paulson (608) 527-2355
Drilling Contractor	Badger State Drilling 360 Business Park Circle Stoughton, Wisconsin 53574 Contact: Dave Paulson (608) 527-2355
Analytical Laboratories	Pace Analytical 1241 Bellevue Street, Suite 9 Green Bay, Wisconsin 54302 Contact: Brian Basten (920) 469-2436 Wisconsin State Laboratory of Hygiene 2601 Agriculture Drive, P.O. Box 7996 Madison, Wisconsin 53707-7996 Contact: Erin Mani (800) 442-4618

Analytical Laboratories

Beacon Environmental Services
2203A Commerce Road, Suite 1
Forest Hill, MD 21050
Contact: Harry O'Neil (410) 838-8780

2.0 SEYMOUR SOIL AND GROUNDWATER INVESTIGATION RESULTS

2.1 Initial Groundwater Sampling

La Hacienda obtained DERF eligibility and Seymour took over the project since REA is not currently participating in this program. Seymour submitted a scope of work budget request, which was approved on September 4, 2008. On September 24, 2008 Seymour sampled the existing monitoring wells. The analytical results are summarized on Table 3. The results show that the concentrations of many of the compounds have declined. The enforcement standards are still exceeded in all three monitoring wells. The contaminant concentrations in MW-2 and MW-3 continue to be substantially above the enforcement standards for one or more of the following compounds PCE, TCE, cis-1, 2 dichloroethylene, trans-1, 2 dichloroethylene and vinyl chloride. The extent of identified contamination in groundwater is shown on Figure 5. The Pace Analytical laboratory reports are included as Appendix A.

2.2 Piezometer Installation and Groundwater Sampling

On March 23, 2009 Seymour Environmental and Badger State Drilling installed a piezometer at the site. The well was located near the downgradient (north) edge of the subject parcel. The well was installed to a depth of 50 feet to characterize the vertical distribution of groundwater contamination.

On April 9, 2009 a groundwater sample was collected from the piezometer and analyzed for VOCs (Figure 4). The sampling results showed that the contamination has reached 50 feet. Tetrachloroethene, trichloroethene, cis 1, 2 dichloroethene and vinyl chloride all were present in the groundwater sample from the piezometer at concentrations exceeding the NR140 ESs. The contaminant levels present in the piezometer were compared with the levels detected in the nearby monitoring well (MW-2) during the most recent monitoring event. The concentration of all detected contaminants declined with depth. Generally, the contaminant levels present in the piezometer were approximately 5.5% of the levels present in the water table monitoring well. Analytical data from the monitoring wells is summarized on Table 3.

2.3 Geoprobe Soil Sampling

Geoprobe borings were installed on the property in April 2009 in order to further delimit the residual soil contamination in the source area. Three borings were installed at the site to collect soil samples. Soil samples were for analyzed for VOCs. No analytes were detected in samples from two of the borings (GP-B and GP-D). Tetrachloroethene was present in the soil slightly above the groundwater table in the remaining geoprobe (GP-C). The concentration present (325 ug/kg) is substantially above the concentration that may adversely impact groundwater quality. Based on the sampling it appears that soil

contamination extends further to the west (toward Park Street) than previously identified. At this time we do not know the limit of contamination to the west. The identified volume of soil with solvent contamination is estimated to be 225 tons. The results of the geoprobe soil sampling are compiled along with historic information in Table 4. The estimated extent of the soil contamination is shown on Figure 7.

2.4 Geoprobe Groundwater Sampling

In April 2009 four geoprobe borings were installed to the north of the subject parcel to characterize the distribution of solvent contamination in the groundwater. Since data from the piezometer showed that contamination in the source area extended to a depth of at least 50 feet we decided to collected two groundwater samples at each geoprobe; one near the water table and one at the maximum probing depth before refusal (between 28.5 and 38 feet deep). Groundwater samples from the geoprobes were analyzed for VOCs. Contaminants were present in samples from three of the geoprobes. No analytes were present in the groundwater samples from GP-1, which is located to the east-northeast of the site. Generally, the shallow groundwater samples from the geoprobes contained only low levels of solvents although the shallow sample from GP-3 located just north of Drake Street contained vinyl chloride above the ES. The deeper groundwater samples from the geoprobes contained significantly higher levels of contaminants. The analytical data from the geoprobe groundwater samples is summarized in Table 2. An isoconcentration map was constructed showing the distribution of tetrachloroethene in groundwater using data from the monitoring wells and the deeper geoprobe groundwater samples (Figure 8).

3.0 VAPOR INVESTIGATION

Seymour submitted an Interim Action request budget on March 21, 2012 to assess vapor intrusion, and offsite migration of VOCs. A change order was submitted in November 2012 to conduct further vapor assessment.

3.1 Initial Passive Vapor Sampling

On July 9th and 10th of 2012 twenty-six (26) passive soil vapor samples were installed around the site (Figure 9). The sampling locations were selected to establish the distribution of CVOCs at the site and near utility trenches as well as determining whether vapors are present on the neighboring residential properties. Shallow (16") boreholes were installed at each of the sampling locations. A collector tube containing adsorptive media was placed in each of the boreholes. A foil seal was placed above each collector tube and the surface was sealed with material similar to the adjacent surface (soil, asphalt). After 7 days the collector tubes were removed. The tubes were sealed, chain of custody and sampling forms were completed, and the samples were submitted to Beacon Environmental Services for analysis. The passive vapor samples were analyzed for CVOCs including tetrachloroethene, trichloroethene, cis 1,2 dichloroethene, trans 1,2 dichloroethene, 1,1 dichloroethene, and vinyl chloride. The Beacon reports are attached in Appendix C.

CVOCs were identified in 18 of the 26 samples. The most widespread CVOC detected was tetrachloroethene (PCE). PCE was present in 18 of the 26 sampling points. The PCE levels in the passive samplers ranged from <25 to 65,486 nanograms (ng). The second most common CVOC detected was trichloroethene (TCE), which was present in 12 of the 26 sample points. The TCE levels ranged from <25 to 99,403 ng. Cis 1,2 dichloroethene, trans 1,2 dichloroethene, 1,1 dichloroethene were less widespread and were only detected in 9, 7, and 6 of the samplers respectively. Vinyl chloride was not detected at any of the 26 sample locations. The CVOC data collected from the passive samplers is consistent with the degradation of PCE and the vapor pressures of the various compounds. The passive sampling statistics are summarized on Table 6. Two charts are attached showing the CVOC mass and the CVOC ratio from select sampling points in the source area.

Data collected using the passive samplers indicates that CVOC contamination near the subject parcel is centered on the former dry cleaner where both soil and groundwater contamination were previously identified. All of the CVOCs except vinyl chloride were present in sample points in this area (PS-20, PS-24 and PS-25). PCE levels in these points ranged from 29,941 to 65,486 ng and TCE levels ranged from 8,236 to 99,043 ng. Relatively high levels of 1,1 DCE, cis 1,2 DCE and trans 1,2 DCE also were detected in the source area. Analytical data from the passive sampling are summarized in Table 7.

In the sample points just slightly outside of the source area the CVOC levels in the passive samplers dropped substantially. Five samplers were installed along the roadways and in neighboring yards just outside of the source area (PS-3, PS-12, PS-17, PS-18, and PS-19). PCE levels in these points ranged from 2,716 to 25,681 ng and TCE levels ranged from 1,028 to 5,705 ng. Chlorinated degradation products were commonly detected in these sample; 1,1 DCE, cis 1,2 DCE and trans 1,2 DCE typically were present at less than 100 ng.

Eight passive samplers were installed within the road right-of-way around the block to the north of the site. Elevated CVOC levels were present in three of these points (PS-9, PS-13 and PS-26); the impacted points are located along the north side of Drake Street just to the north-northeast of the subject parcel. CVOCs generally were not detected in the sample points along Park Street and West Shore Drive. The highest CVOC levels in the points north of Drake Street were present in PS-13. This sample was collected along the sewer lateral, which services 802 Drake Street. The PCE level at PS-13 was 10,280 ng and the TCE level was 3,904 ng. Other compounds were detected at 81-256 ng. At PS-26, which is located directly north of the contamination identified on the subject site, only PCE (2,744 ng) and TCE (104 ng) were detected. Further east along the north side of Drake Street (PS-13) only PCE was detected. The PCE level at PS-13 was 216 ng. This data appears to indicate that some preferential migration has occurred along the sewer service line at 802 Drake Street.

Seven passive samplers were installed to the east of the site along West Shore Drive and in the yards of several neighboring residential properties (PS-1, PS-2, PS-4, PS-5, PS-6,

PS-10, and PS-11). CVOCs were detected at six of the seven passive sampling locations; no analytes were detected at PS-4, which is located in the terrace east of 510 West Shore and is the furthest sampling point to the southeast. The highest CVOC levels in the residential area east of the site were present on the north and west sides of the property immediately east of the previously identified contamination (502 West Shore). Two samples (PS-10 and PS-11) were collected in this area. Both PCE (704 and 78 ng) and TCE (233 and 29 ng) were detected in these samples. The higher contaminant levels were present at the sample location (PS-10) further from the source area. The anomalously high contaminant levels PS-10, which is located in the terrace to the north of the residence, seems to confirm some preferential migration has occurred through the utility corridor beneath Drake Street. At the remaining passive sampling points in the residential area only PCE was detected. The PCE level in these locations ranged from 30 to 57 ng.

Three passive samplers were installed to the west of Park Street. No CVOCs were detected in these sampling points. Based on this it appears that contamination from the subject site has not migrated into the shallow sediments and groundwater west of the roadway where they could cause a vapor intrusion problem.

3.2 Second Phase Passive Vapor Sampling

On March 1, 2013 twelve additional passive gas samplers were installed near La Hacienda. The samplers were generally installed to the south of the area where the initial sampling was conducted. The objective was to further delimit the distributions of CVOCs around the site. One of the new passive samplers (PS-30) was installed adjacent to a point that had previously been sampled to allow for normalization of the data from the two passive gas sampling events.

Shallow (16") boreholes were installed at each of the sampling locations. A collector tube containing adsorptive media was placed in each of the boreholes. A foil seal was placed above each collector tube and the surface was sealed with material similar to the adjacent surface (soil, asphalt). After 7 days the collector tubes were removed. The tubes were sealed, chain of custody and sampling forms were completed and the samples were submitted to Beacon Environmental Services for analysis. The passive vapor samples were analyzed for CVOCs including tetrachloroethene, trichloroethene, cis 1,2 dichloroethene, trans 1,2 dichloroethene, 1,1 dichloroethene and vinyl chloride.

CVOCs were identified in all 12 samples. The most commonly detected CVOC was trans 1,2 dichloroethene, which was reported in each of the 12 samples. However, trans 1,2 dichloroethene also was present at 22 nanograms in the trip blank. Trans 1,2 dichloroethene levels in the samples ranged from 5 to123 nanograms. PCE was present in 9 of the 12 sampling points. Both trichloroethene and cis 1,2 dichloroethene were present in 3 of the 12 samples. Vinyl chloride and 1,1 DCE were not detected.

The PCE levels in the passive samplers ranged from <10 to 181 nanograms (ng). Passive sampler data from PS-30 was compared to data from PS-17 (installed in July 2012) since

they were placed within 1 foot of each other. During the recent sampling the PCE level in this area was 80 ng; during July 2012 the PCE level was 2,729 ng. A variation between the two data sets is likely the result of colder temperatures as well as the significant frost in the ground. PCE data from the recent sampling was normalized using a multiplier of 34 based on the data from PS17/PS-30. Normalized PCE data from the recent passive gas sampling range from non-detect to 6154 ng. The highest PCE levels were noted in samples collected from the east side of Park Street along side the La Hacienda Building and parking lot. The distribution of PCE in the passive gas vapors (normalized) is shown on Figure 9.

The second most common CVOC detected was trans 1,2 dichloroethene (DCE), which was also present in every sampling point. The trans 1,2 DCE levels ranged from 5 to 123 ng. Cis 1,2 DCE and trichloroethene were less widespread and were only detected in 3 of the samplers. Vinyl chloride was not detected at any of the 12 sample locations. The passive sampling results are summarized on Table 7.

3.3 Vapor Intrusion Sampling

On January 28, 2013 subslab sampling probes were installed at three of the residences located nearby the site. We returned on February 12, 2013 to install probes at the fourth property. No subslab probes were installed at the La Hacienda Restaurant since the building is equipped with a sub floor perimeter drain and sump pump system to control wetness in the basement. No subslab sampling probes were installed at the 510 West Shore Drive residence (Gary Davidsaver). The owner has been out of the area traveling and is not expected back until this summer. Locations where vapor sampling was conducted include:

Address	Owner	Media Sampled
802/804 Drake Street	Wartmann, William	Subslab/Indoor air
502 West Shore Drive	Davidsaver, Eleanor	Subslab/Indoor air
506 West Shore Drive	Sweet, Howard	Subslab/Indoor air
506 West Shore Drive	Hoffenberg, Stephen	Subslab/Indoor air
515 South Park Street	LaHacienda Restaurant	Drainage Sump/Indoor air

At each subslab sampling probe a 1.25" hole was drilled through the concrete floor and advanced to a depth of approximately 10 inches. A stainless steel sampling tip attached to 1/4 OD Teflon tubing was placed in the hole. The area around the probe was filled with clean filtered sand (#30) to 1.5" below the concrete floor slab. Granular bentonite was placed above the sand and extended upward to the just below the base of the floor. The bentonite was hydrated to provide a seal. The remaining borehole was filled with a concrete sand mix. A generalized sketch of the subslab vapor probe configuration is attached as Figure 10.

On March 15 and 16, 2013 initial vapor sampling was conducted around the site. Samples of subslab vapors and indoor air vapors were collected at each of the five

properties. All of the samples were collected using 6-liter Summa canisters provided by the Wisconsin State Lab of Hygiene. Subslab sampling canisters were equipped with regulators so that the canisters filled over a 30-minute period limiting the flow to approximately 200 ml/min. Indoor air sampling canisters were equipped regulators to provide a 24-hour sampling. Vapor samples recovered were analyzed for CVOCs.

Prior to collecting the subslab samples a shroud was placed over each sampling probe to isolate the area surrounding the probe. A vacuum test was performed to ensure that the sampling lines did not leak. A vacuum of between 14 and 16 inches Hg was applied to the sampling lines at each point. The vacuum was checked and whenever a leak was noted fittings were tightened. No samples were collected until the vacuum in the sampling line could be maintained for a 5-minute period. After the vacuum test was passed a helium leakage test was performed. Helium was introduced into the shroud and the helium concentration in the shroud was measured with an Ion tack Instrument Leak Seeker 96 helium meter. Subsequently the sampling line was purged using a hand-operated vacuum pump and the organic vapor levels in the subslab vapors were measured. The helium meter was then moved to the sampling line and the helium level from the probe was measured to evaluate whether there was significant leakage through the probe. The leakage was less than 1% at all of the sampling probes. The Summa canisters were not filled until after the vacuum and helium leakage tests were completed satisfactorily. Field data from the sampling is summarized in Table 8.

The sump sample at La Hacienda Restaurant was collected from a dewatering sump located in the basement. Piping was attached to the sump to allow for purging of the sump and sample collection. Additionally, the vent line for the sump was temporarily sealed off to ensure that the sample that was collected was representative of the vapors beneath the floor. A low vacuum extraction pump was attached to the sump piping and vapors were extracted from the sump at a vacuum of approximately 1 inch of water for a period of 20 minutes. Based on the pump production rate, and estimated 400 cubic feet of air was removed from the sump and associated subslab lines during the purging. After the purging was complete the laboratory sample of the subslab vapors was collected.

3.4 Indoor Air Sampling Results

Low levels of CVOCs were detected in the indoor air samples at 4 of the 5 properties. The exception was the Wartmann property, which is the farthest from the subject site. All of the indoor air samples showed that the vapor levels in the basements were below the indoor air action levels. The highest PCE levels were noted in the basement of the LaHacienda Restaurant (2.73 vppb). This concentration is below the residential standard of 6.2 vppb as well as the commercial standard of 27 vppb, which would apply to the property. PCE also was noted in the basements at the residences immediately east of the area where soil contamination has been identified, E. Davidsaver and Sweet. The PCE level in the indoor air at these properties was 0.24 and 0.29 vppb. Trans 1,2 DCE was detected in the indoor air at three of the properties, Davidsaver, Sweet and Hoffenberg. No PCE was detected in the indoor air samples from the two properties located further

from the source area, Wartmann and Hoffenberg. Vapor sample results are summarized in Table 9.

3.5 Subslab Sampling Results

The PCE concentration in the subslab vapors beneath the LaHacienda Restaurant was 155 ppbv; this concentration is below the indoor air action level (270 ppbv). All of the CVOCs with the exception of vinyl chloride were present in the vent sample from the LaHacienda.

As with the indoor air samples only PCE and trans 1,2 DCE were detected in the subslab vapors at the nearby residential properties. PCE levels in samples from the subslab probes in the neighboring residences ranged from 0.36 to 1.49 ppbv; the PCE concentration in the subslab vapors were below the residential indoor air action levels. The trans 1,2 DCE ranged from <0.085 ppbv to 0.370 ppbv. The subslab sampling results are shown on Figure 11.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Additional investigation of the soil and groundwater will be required to define the extent of the contamination. We believe that it makes sense to conduct an interim remediation, removing the accessible contaminated soil beneath the parking lot. Some very high levels of contamination have been detected in the soil and passive vapor samples at the site. Additionally, replacement of the existing pavement with newer pavement will inhibit surface water infiltration. Some additional soil sampling should be conducted

4.1 Additional Soil Sampling (Pre-Remediation)

We propose to install additional soil samples at the site to better determine the area/volume of contaminated soils in the parking lot and across the property boundary to the east. We expect to install 6-8 soil borings on the property. Soil samples will be analyzed for VOCs. Two soil samples collected near the locations of the REA borings B-2 and B-3 will be run for TCLP VOCs as necessary. The proposed boring locations are shown on Figure 12.

4.2 Continued Groundwater Investigation

Sample Existing Wells

The four existing monitoring wells have not been sampled in several years. We will sample the wells and collect a sample from the Meriter High Capacity well prior to conducting additional groundwater investigation.

Install Geoprobe Borings

Additional direct push borings will be installed as shown on Figure 12. Groundwater samples will be collected from each boring when we encounter refusal.

Install Additional Monitoring Wells/Piezometers

The data from the existing monitoring wells, the geoprobe borings and the Meriter well will be used to determine the locations of additional permanent monitoring wells. It is likely that a monitoring well/piezometer will be installed to the northwest. We will conduct profiling during the installation of this well to determine the depth to set the piezometer(s). The proposed locations are shown on Figure 13.

4.3 Vapor Intrusion

An additional attempt will be made to obtain a paired indoor/sub-slab samples at 510 West Shore Road

5.0 REFERENCES

Clayton, Lee and John W. Attic. 1997. Wisconsin Geological and Natural History. Pleistocene Geologic map of Dane County, Wisconsin.

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Trotta, L. C., and R. D. Cotter. 1973. Depth to Bedrock in Wisconsin. University of Wisconsin - Extension, Geological and Natural History Survey.

United States Department of Agriculture. 1978. Soil Survey of Dane County, Wisconsin

USGS. Quadrangle. Wisconsin Map. 7.5 Minute Series: 1:24,000

Wisconsin Department of Natural Resources, 2001, Wisconsin Administrative Code, Chs. NR 700-749, Investigation and Remediation of Environmental Contamination.

Additional direct push borings will be installed east, west and south of the site. Groundwater samples will be collected from each boring at the water table and again when we encounter refusal.

Install Additional Monitoring Wells/Piezometers

The data from the existing monitoring wells, the geoprobe borings and the Meriter well will be used to determine the locations of additional permanent monitoring wells. It is likely that a monitoring well/piezometer will be installed to the northwest. We will conduct profiling during the installation of this well to determine the depth to set the piezometer(s).

4.3 Vapor Intrusion

An additional attempt will be made to obtain a paired indoor/sub-slab samples at 510 West Shore Road

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Clayton, Lee and John W. Attic. 1997. Wisconsin Geological and Natural History. Pleistocene Geologic map of Dane County, Wisconsin.

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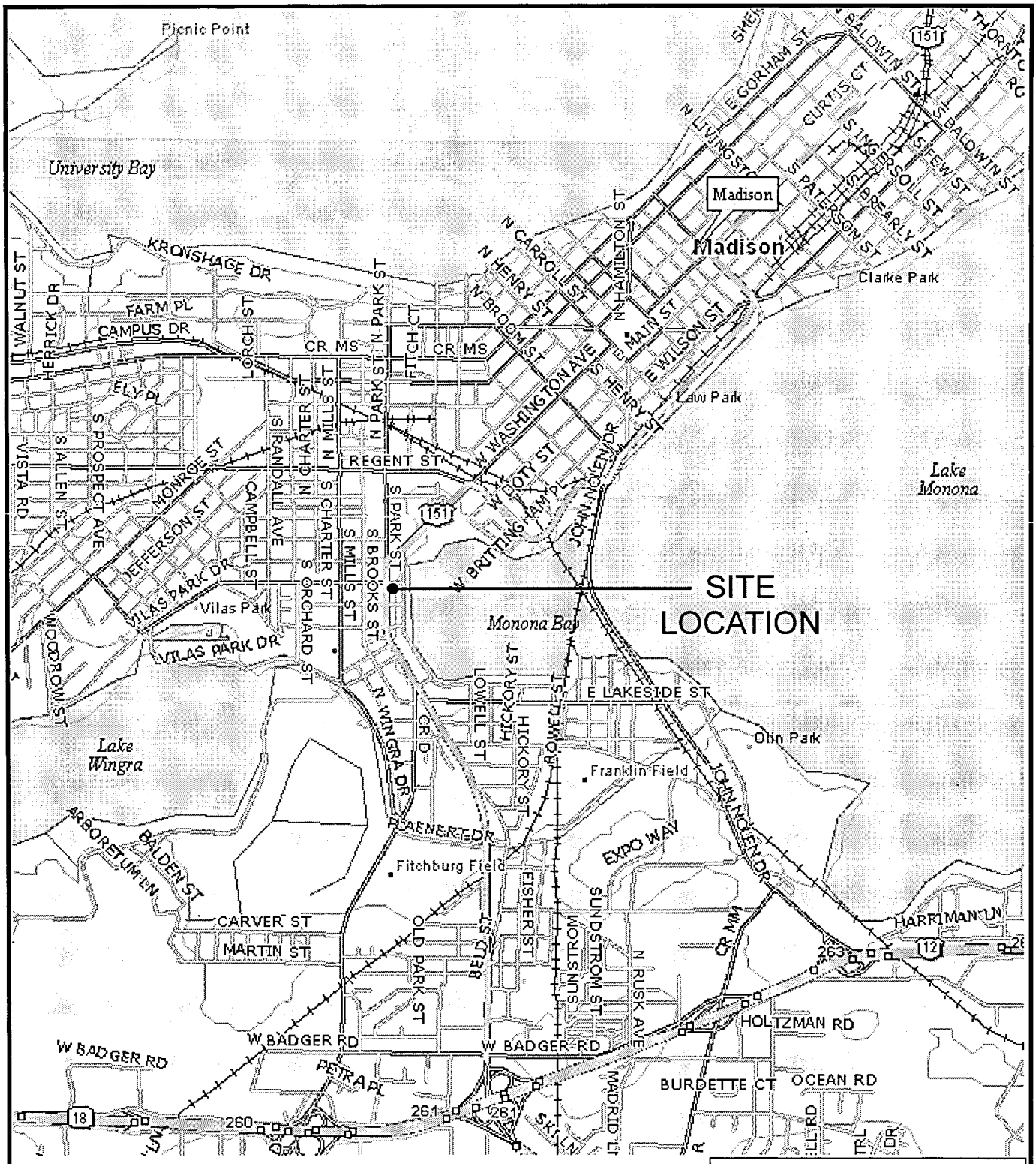
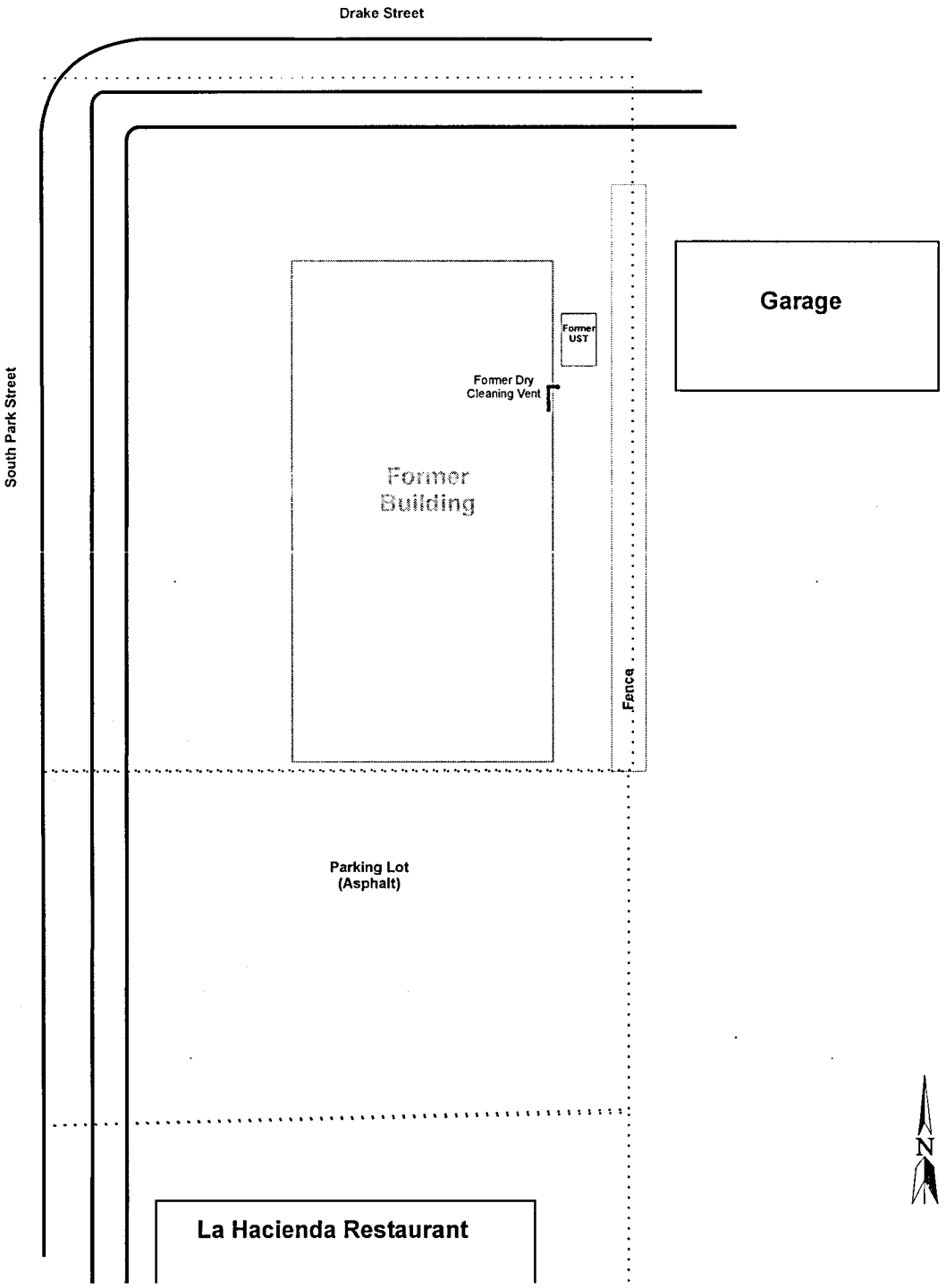


SEYMOUR ENVIRONMENTAL SERVICES, INC.

SITE LOCATION
LA HACIENDA RESTAURANT
501 South Park Street
Madison, Wisconsin

FIGURE
1



LEGEND

B-1 ● - Geoprobe Location

0 20' 40'

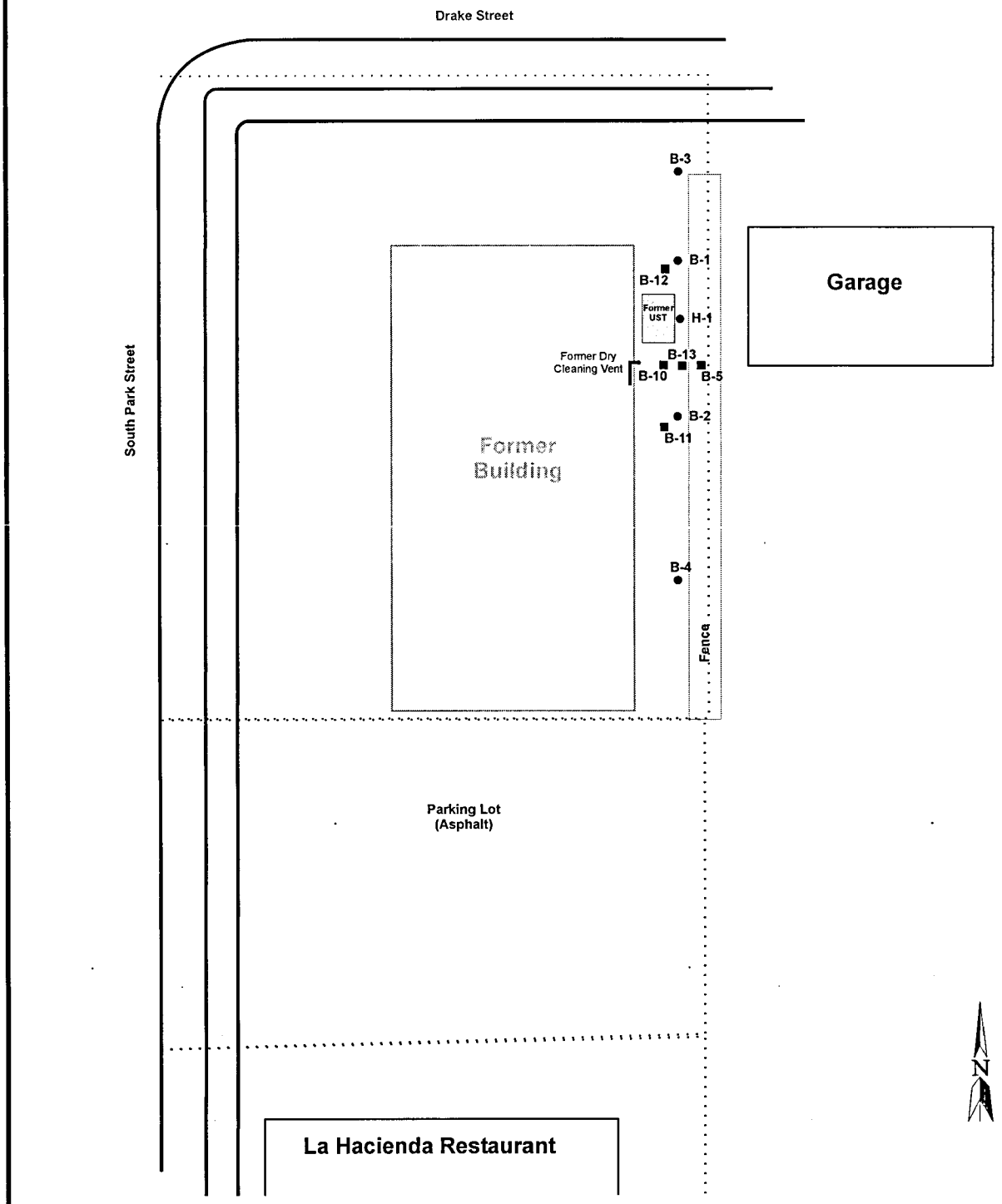
1 INCH = 20 FEET
SCALE IS APPROXIMATE

FILE/PATH: D:\PROJECTS\LaHacienda Fig2-LAYOUT.cdr
DATE: 08/03/2007
PREPARED: MDF APPROVED:
SOURCE: FIELD MEASUREMENTS

SEYMOUR ENVIRONMENTAL SERVICES, INC.

SITE LAYOUT
LaHACIENDA RESTAURANT
501 South Park Street
Madison, Wisconsin

FIGURE
2



LEGEND

B-1 ● - Geoprobe Location

0 20' 40'

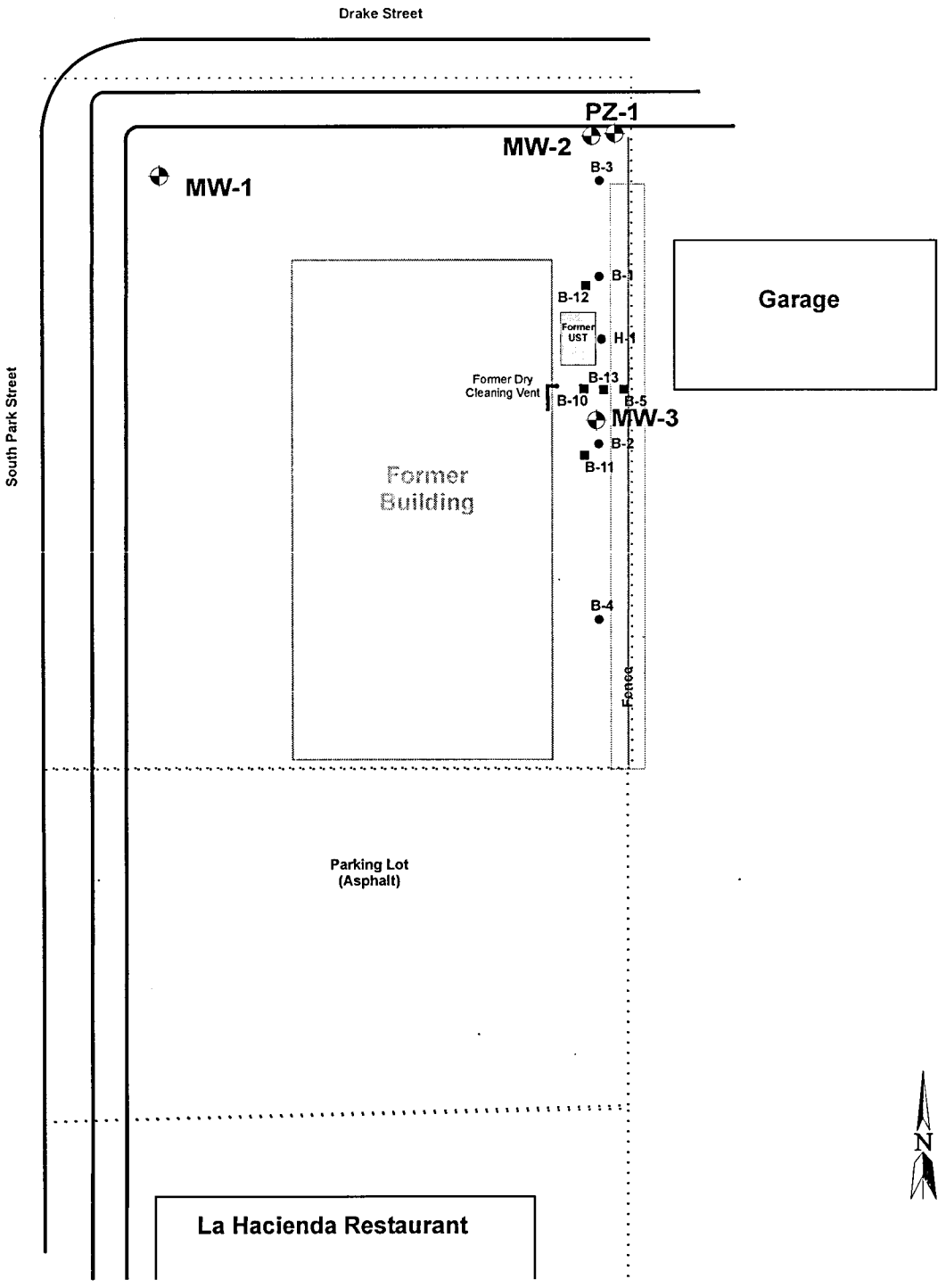
1 INCH = 20 FEET
SCALE IS APPROXIMATE

FILE/PATH: D:\PROJECTS\LaHacienda Fig3-initial.cdr
DATE: 08/03/2007
PREPARED: MDF APPROVED:
SOURCE: FIELD MEASUREMENTS

SEYMOUR ENVIRONMENTAL SERVICES, INC.

INITIAL SAMPLING LOCATIONS
LaHACIENDA RESTAURANT
501 South Park Street
Madison, Wisconsin

FIGURE 3



LEGEND

B-1 ● - Geoprobe Location

0 20' 40'

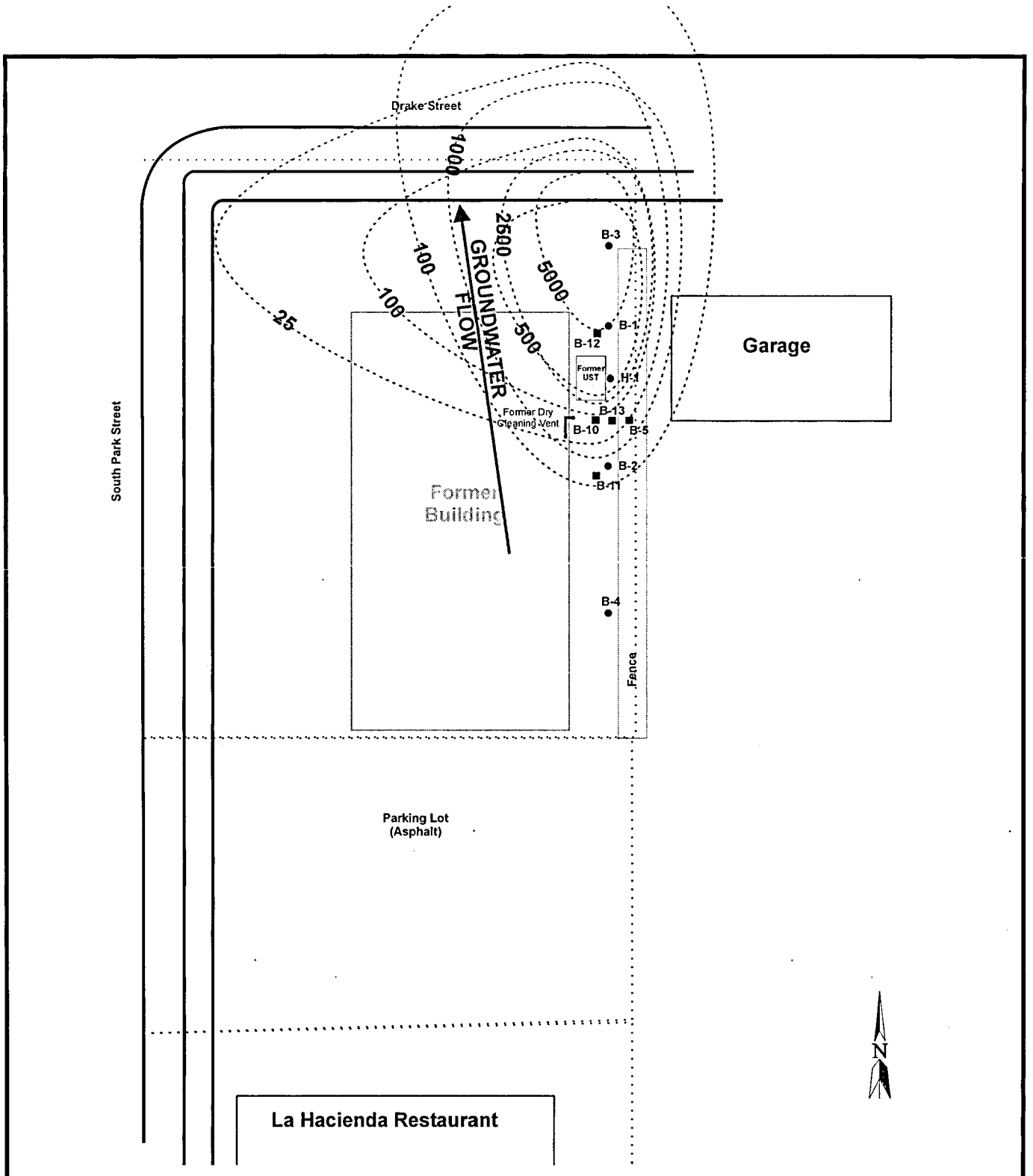
1 INCH = 20 FEET
SCALE IS APPROXIMATE

FILE/PATH: D:\PROJECTS\LaHacienda Fig4-pz.cdr
DATE: 08/03/2009
PREPARED: MDF APPROVED:
SOURCE: FIELD MEASUREMENTS

SEYMOUR ENVIRONMENTAL SERVICES, INC.

PIEZOMETER LOCATION
LaHACIENDA RESTAURANT
501 South Park Street
Madison, Wisconsin

FIGURE
4



LEGEND

B-1 ● - Geoprobe Location

0 20' 40'

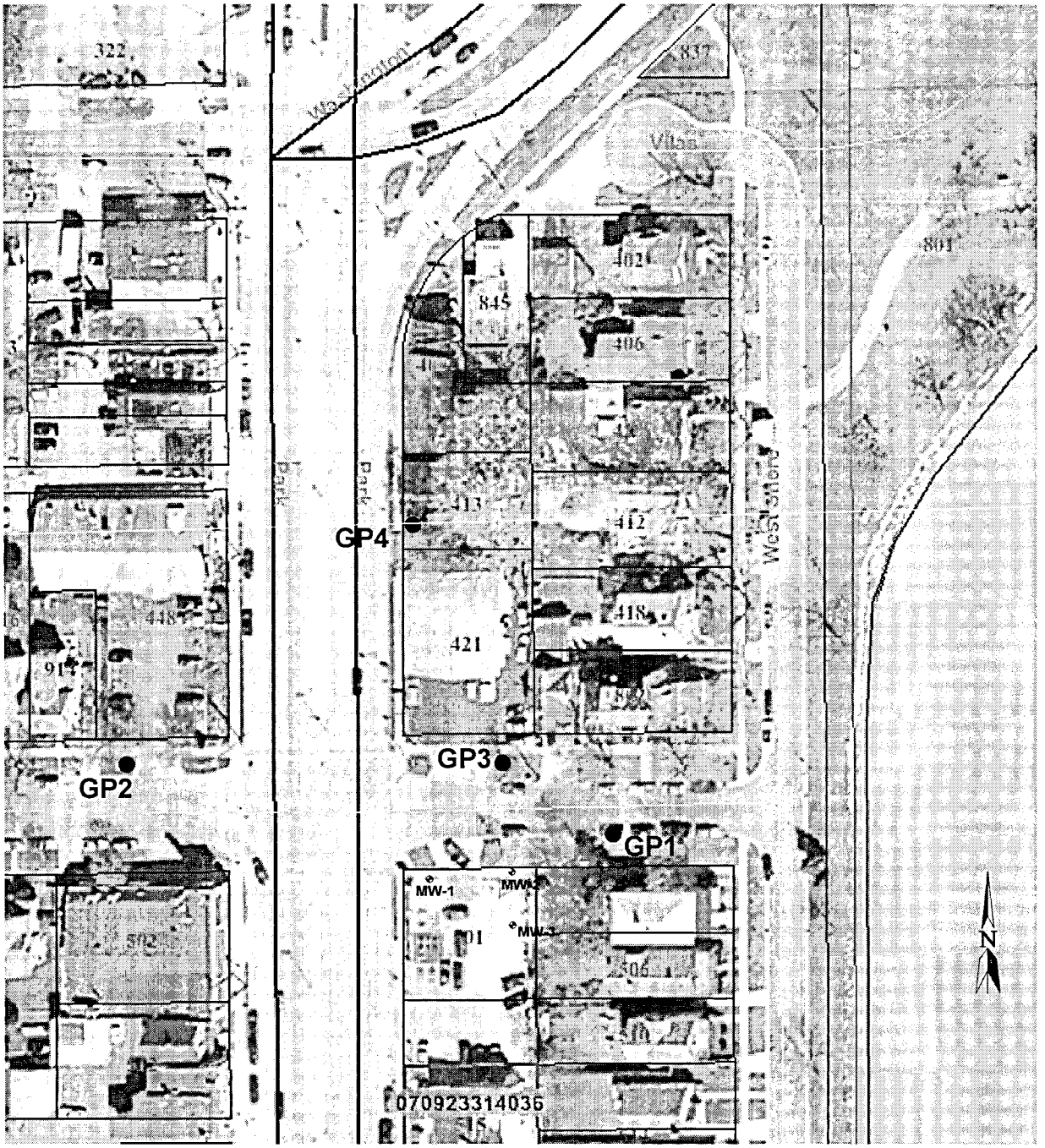
1 INCH = 20 FEET
SCALE IS APPROXIMATE

FILE/PATH: D:\PROJECTS\LaHacienda Fig4-gprobes.cdr
DATE: 08/03/2009
PREPARED: MDF APPROVED:
SOURCE: FIELD MEASUREMENTS

SEYMOUR ENVIRONMENTAL SERVICES, INC.

ESTIMATED GROUNDWATER CONTAMINATION
LaHACIENDA RESTAURANT
501 South Park Street
Madison, Wisconsin

FIGURE 5



LEGEND

GP-1 ● - Geoprobe

0 100' 200'

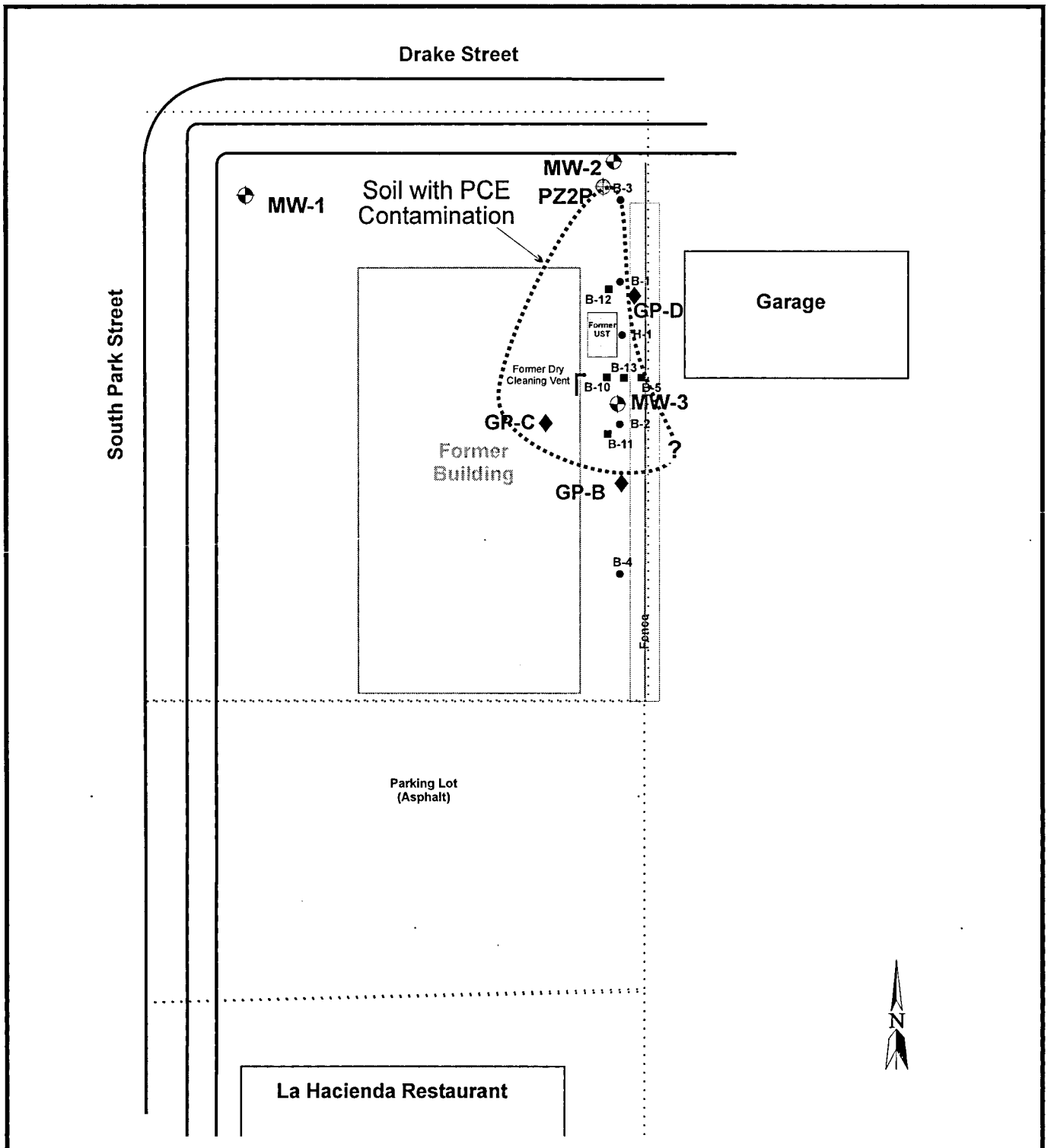
1 INCH = 100 FEET
SCALE IS APPROXIMATE

FILE/PATH: D:\PROJECTS\LAHACIENDA\WP-10-08\Fig6-gprobes.cdr
DATE: 10/29/2009
PREPARED: MDF APPROVED:
SOURCE: FIELD MEASUREMENTS

SEYMOUR ENVIRONMENTAL SERVICES, INC.

GW ASSESSMENT GEOPROBES (April 2009)
LA HACIENDA RESTAURANT
501 South Park Street
Madison, Wisconsin

FIGURE
6



LEGEND

B-1 ● - Geoprobe Location (1998)

■ - Soil Sample (2001)

⊕ - Monitoring Well (2004)

♦ - Geoprobe (04/09)

⊕ - Piezometer (proposed)

0 20' 40'

1 INCH = 20 FEET
SCALE IS APPROXIMATE

FILE/PATH: D:\PROJECTS\LAHACIENDA\ WP-10-08\Fig4-PZsoil-proposed.cdr

DATE: 10/29/2008

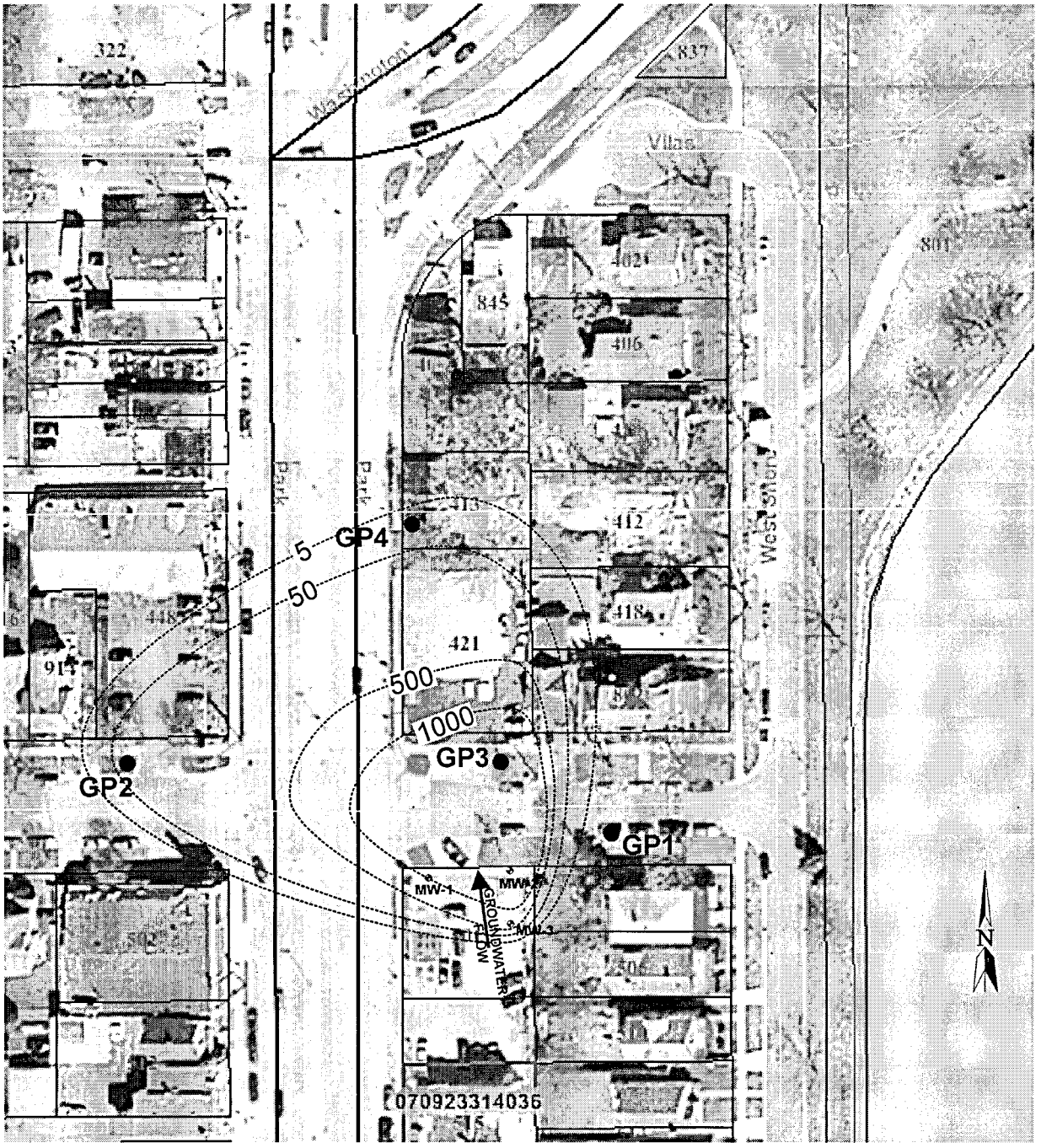
PREPARED: MDF APPROVED:

SOURCE: FIELD MEASUREMENTS

SEYMOUR ENVIRONMENTAL SERVICES, INC.

SOIL GEOPROBES AND PCE EXTENT
LA HACIENDA RESTAURANT
501 South Park Street
Madison, Wisconsin

FIGURE 7



LEGEND

GP-1 ● - Geoprobe

0 100' 200'

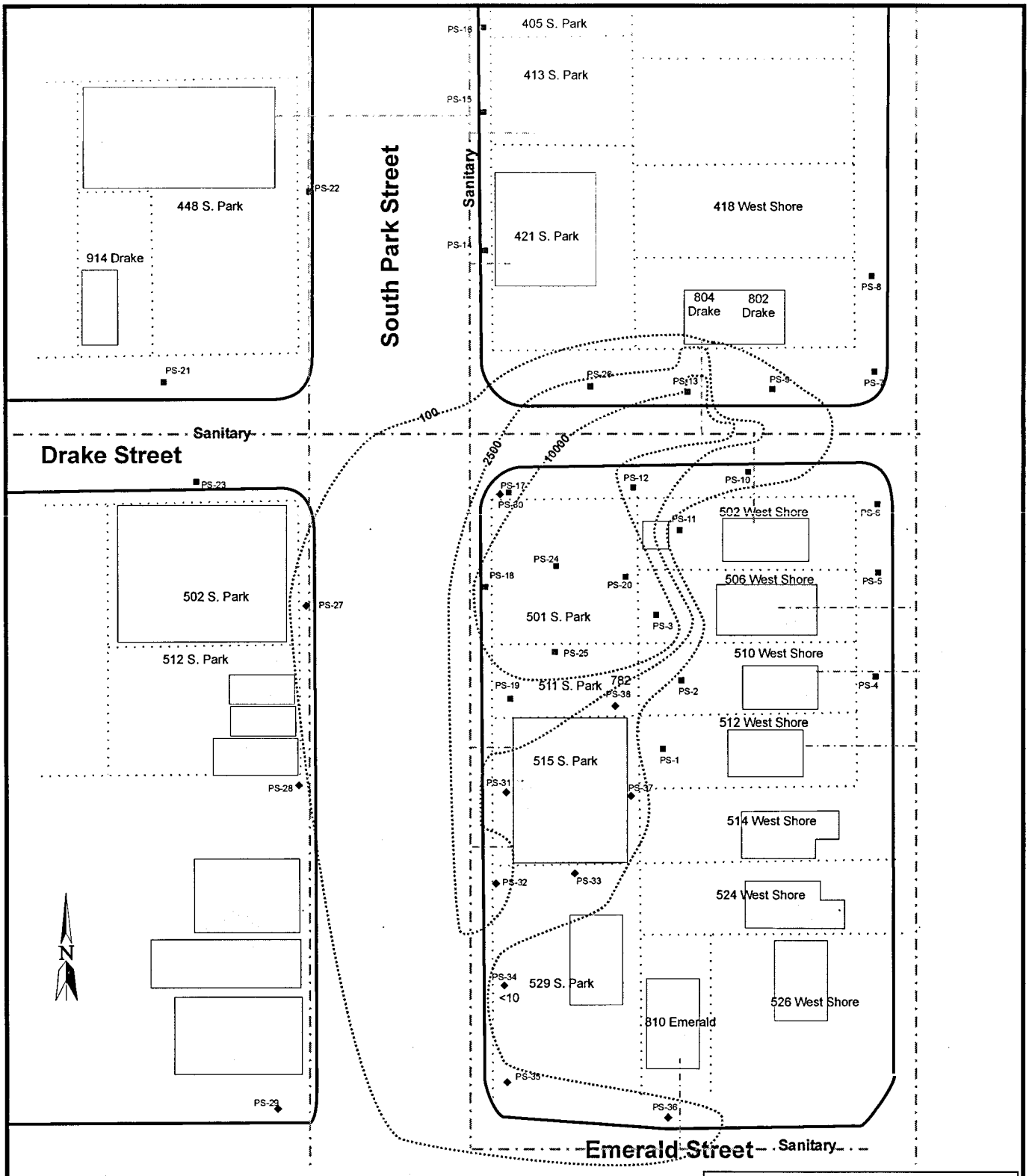
1 INCH = 100 FEET
SCALE IS APPROXIMATE

FILE/PATH: D:\PROJECTS\LAHACIENDA\ \Fig8-gprobes.cdr
DATE: 10/29/2008
PREPARED: MDF APPROVED:
SOURCE: FIELD MEASUREMENTS

SEYMOUR ENVIRONMENTAL SERVICES, INC.

GROUNDWATER DATA (APRIL 2009)
LA HACIENDA RESTAURANT
501 South Park Street
Madison, Wisconsin

FIGURE
8



LEGEND

PS-4 ■ - Passive Gas Sample (July 2012)

PS ◆ - Passive Gas Sample (March 2013)

0 80' 160'

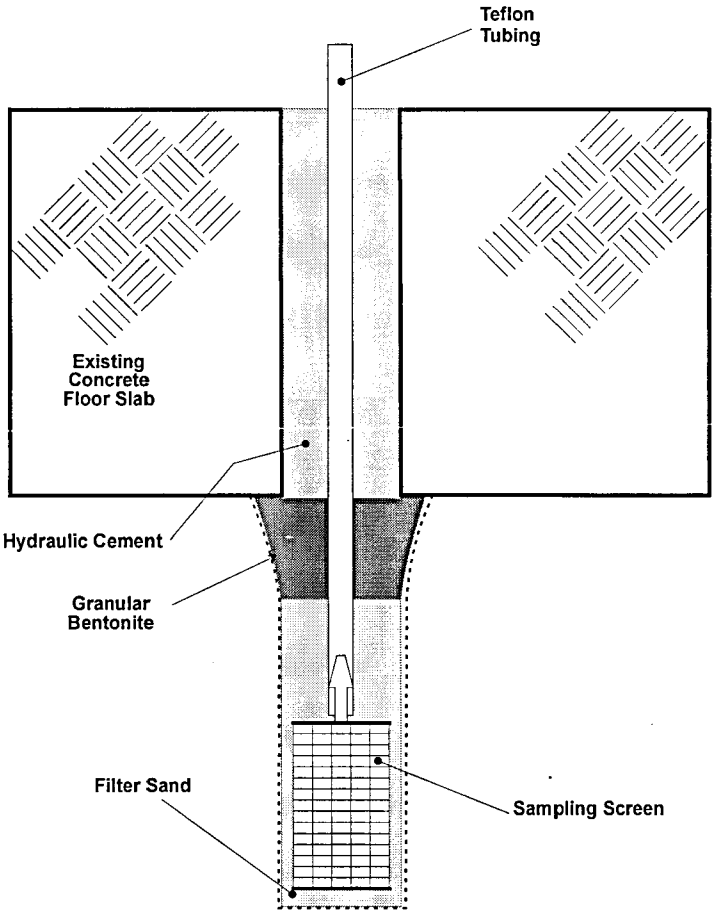
1 INCH = 80 FEET
SCALE IS APPROXIMATE

FILE/PATH: D:\PROJECTS\LAHACIENDA\VaporAssess\Fig9.cdr
DATE: 5/28/2013
PREPARED: MDF APPROVED:
SOURCE: FIELD MEASUREMENTS

SEYMOUR ENVIRONMENTAL SERVICES, INC.

PASSIVE VAPOR SAMPLING RESULTS
LA HACIENDA RESTAURANT
501 South Park Street
Madison, Wisconsin

FIGURE
9



0 2" 4"

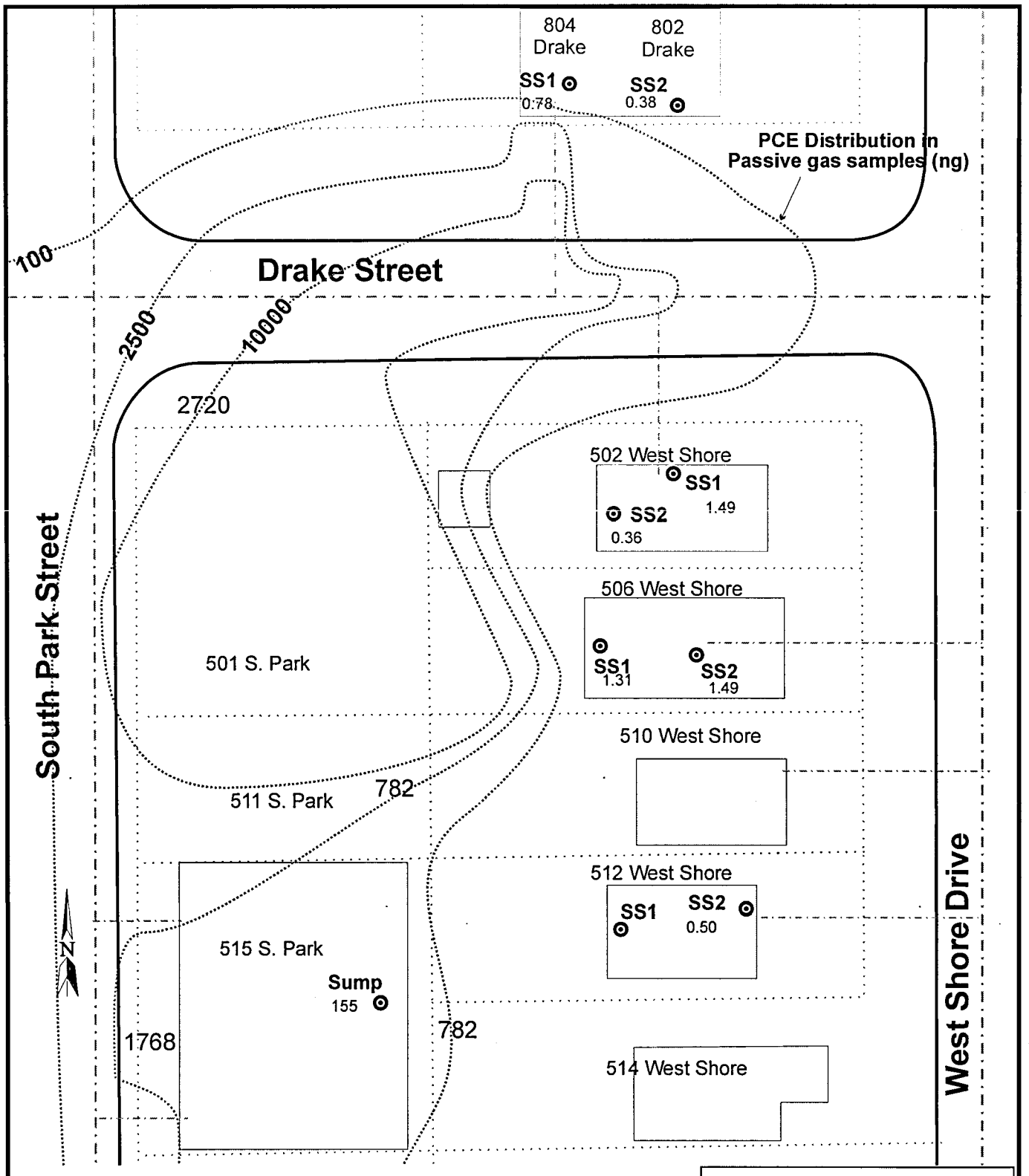
1 INCH = 2 INCH
SCALE IS APPROXIMATE

FILE/PATH: D:\PROJECTS\LaHacienda\Vaporprobe.cdr
DATE: 03/20/2013
PREPARED: MDF APPROVED:
SOURCE: Field Measurements

SEYMOUR ENVIRONMENTAL SERVICES, INC.

SUBSLAB VAPOR PROBE CONFIGURATION
LaHacienda Restaurant
505 South Park Street
Madison, Wisconsin

FIGURE
10



LEGEND

SS1
⊙ - Subslab Vapor Sample (March 2013)

0 40' 80'

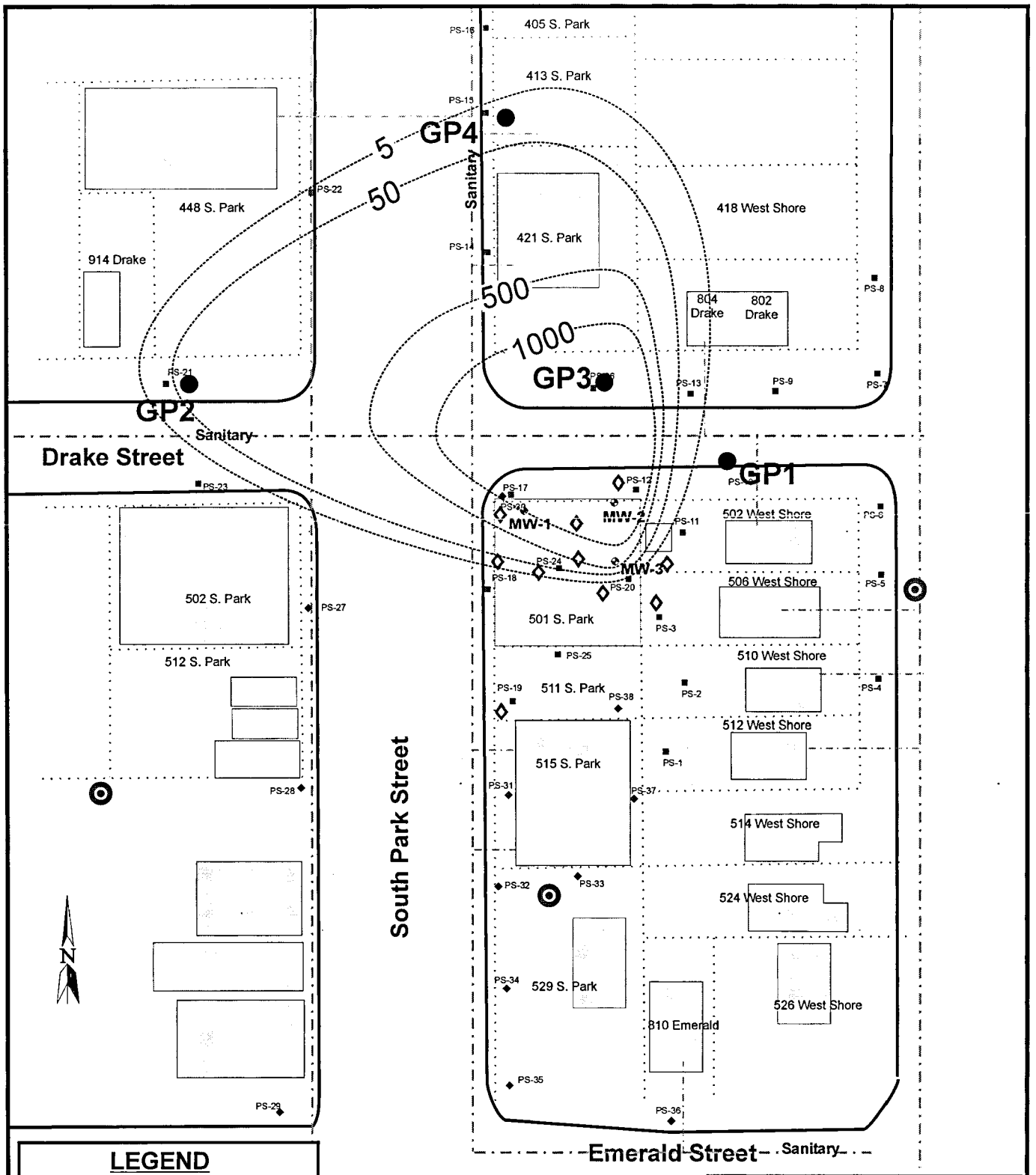
1 INCH = 40 FEET
SCALE IS APPROXIMATE

FILE/PATH: D:\PROJECTS\LAHACIENDA\VaporAssess\cdr
DATE: 4/30/2013
PREPARED: MDF APPROVED:
SOURCE: FIELD MEASUREMENTS

SEYMOUR ENVIRONMENTAL SERVICES, INC.

PCE IN SUBSLAB VAPORS (ppbv)
LA HACIENDA RESTAURANT
501 South Park Street
Madison, Wisconsin

FIGURE
11



LEGEND

- PS-4 ■ - Passive Gas Sample (July 2012)
- PS ◆ - Passive Gas Sample (March 2013)
- ◊ - Proposed Soil Sampling Location
- ◎ - Proposed Groundwater Sampling Location

0 80' 160'

1 INCH = 80 FEET
SCALE IS APPROXIMATE

FILE/PATH: D:\PROJECTS\LAHACIENDA\VaporAssess\Fig1.cdr
DATE: 2/28/2012
PREPARED: MDF APPROVED:
SOURCE: FIELD MEASUREMENTS

SEYMOUR ENVIRONMENTAL SERVICES, INC.

PROPOSED SAMPLING LOCATIONS
LA HACIENDA RESTAURANT
501 South Park Street
Madison, Wisconsin

FIGURE
12

TABLE 1
SUMMARY OF GEOPROBE SAMPLING (May 1998)
La Hacienda Restaurant
501 South Park Street, Madison, Wisconsin

Media	Soil				Groundwater			
Location	B-1	B-2	B-3	B-4	B-2	B-3	B-4	B-4
Depth (ft)	6-8	8-10	8-10	8-10	10	10	10	20
Benzene	<250	<12000	<1200	<250	<7500	<600	**40**	<30
Chloroethane	<250	<12000	<1200	<250	<20000	<1600	<80	<80
Chloromethane	<250	<12000	<1200	<250	<22000	<1800	<90	<90
Tetrachloroethene	*1600*	*1200000*	*77000*	*4900*	**3000000**	**5800**	**9800**	**3800**
Trichloroethene	<250	*26000*	*29000*	*810*	**80000**	**20000**	**1200**	**2600**
cis 1,2 dichloroethene	<250	*28000*	*210000*	*21000*	**45000**	**74000**	**2800**	**3800**
trans 1,2 dichloroethene	<250	<12000	*14000*	<250	<7500	**5600**	50	**140**
Vinyl chloride	<250	<12000	<1200	<250	<12000	**3200**	<50	<50
1,1 dichloroethylene	<250	<12000	<1200	<250	<5000	<400	<20	<20
Toluene	<250	<12000	<1200	<250	<5000	<400	<20	<20
Ethylbenzene	<250	<12000	<1200	<250	<5000	<400	<20	<20
Chlorobenzene	<250	<12000	<1200	<250	<7500	<600	<30	<30

- Soil data is listed in ug/kg
- Groundwater data is listed in ug/l
- Detected compounds in soil shown italicized
- Groundwater exceeding NR140 enforcement standard are bold

TABLE 2
SUMMARY OF WELL CONSTRUCTION DETAILS AND WATER LEVEL DATA
La Hacienda Restaurant
501 South Park Street, Madison, Wisconsin

WELL CONSTRUCTION DETAILS

WELL	Date Installed	Top of Casing Elevation	Well Depth	Screen Length	Top of Screen Depth	Top of Screen Elevation	Base of Screen Elevation	Screen Midpoint
MW-1	01/05/04	97.16	14.20	10	4.20	92.96	82.96	87.96
MW-2	01/05/04	96.69	14.24	10	4.24	92.45	82.45	87.45
MW-3	01/05/04	96.93	14.22	10	4.22	92.71	82.71	87.71

GROUNDWATER LEVEL DATA

WELL	Top of Casing Elevation	2/12/04		4/29/04		9/24/08	
		Depth	Elevation	Depth	Elevation	Depth	Elevation
MW-1	97.16	8.74	88.42	8.07	89.09	7.26	89.90
MW-2	96.69	7.91	88.78	7.56	89.13	6.76	89.93
MW-3	96.93	8.39	88.54	7.09	89.84	6.61	90.32

- All data is listed in feet of feet above local datum (100 ft msl)

TABLE 3
SUMMARY OF GROUNDWATER CHEMISTRY FROM MONITORING WELLS
La Hacienda Restaurant
501 South Park Street, Madison, Wisconsin

Well	Date	Benzene	Chloroethane	Chloromethane	Tetrachloroethene	Trichloroethene	cis 1,2 dichloroethene	trans 1,2 dichloroethene	Vinyl chloride	1,1 dichloroethylene	Toluene	Ethylbenzene	Chlorobenzene
MW-1	02/12/04	**2.5**	<1.0	<0.20	<0.50	**2.1**	**1200**	**62**	**4.3**	**2.0**	<0.20	<0.50	<0.20
	04/29/04	<8.0	<40	<8.0	<20	<8.0	**1500**	**74**	**24**	<20	<8.0	<20	<8.0
	09/24/08	**2.9**	6.6	0.26	<0.45	**0.61**	**159**	**46.4**	**76.3**	<0.57	<0.67	<0.54	<0.41
MW-2	02/12/04	<100	<500	<100	**61000**	**30000**	**39000**	**1600**	**2900**	<250	<100	<250	<100
	04/29/04	<8.0	<40	<8.0	**56000**	**21000**	**35000**	**1700**	**3700**	**98**	<8.0	<20	<8.0
	09/24/08	<41.0	<97.0	<24.0	**8420**	**486**	**3130**	<89.0	**507**	<57	<67.0	<54	<41
MW-3	02/12/04	**2.3**	<1.0	<0.20	**29000**	**8500**	**41000**	**1600**	<200	<500	1.9	0.84	4.4
	04/29/04	<8.0	<40	<8.0	**9800**	**14000**	**28000**	**1200**	**44**	**34**	<8.0	<20	<8.0
	09/24/08	<41.0	<97.0	<24.0	**1340**	**1230**	**10200**	**386**	**20.1**	<57	<67.0	<54	<41
PZ-1	04/09/09	<2.0	<4.8	<1.2	**466**	**60.1**	**181**	**6.9**	**26.4**	<2.8	<3.4	<2.7	<2.0
NR140	PAL	0.5	80	0.3	0.5	0.5	7	20	0.02	0.7	200	140	ns
NR140	ES	5	400	3	5	5	70	100	0.2	7	1000	700	ns

- All data is listed in ug/l
- ns = No standard established
- NR140 PAL = Preventative action limit (exceedances bold)
- NR140 ES = Enforcement standard (exceedances shaded)

TABLE 4
SUMMARY OF GEOPROBE SOIL SAMPLING
La Hacienda Restaurant
501 South Park Street, Madison, Wisconsin

Media	April 2009			SOIL STANDARD
Location	GP-B	GP-C	GP-D	
Depth (ft)	4-6	4-6	4-7	
Benzene	<39.1	<27.0	<25.0	5.5
Chloroethane	<39.1	<27.0	<25.0	
Chloromethane	<39.1	<27.0	<25.0	
Tetrachloroethene	<39.1	**325**	<25.0	14 *
Trichloroethene	<39.1	<27.0	<25.0	14 *
cis 1,2 dichloroethene	<39.1	<27.0	<25.0	130 *
trans 1,2 dichloroethene	<39.1	<27.0	<25.0	
Vinyl chloride	<39.1	<27.0	<25.0	
1,1 dichloroethylene	<39.1	<27.0	<25.0	
Toluene	<39.1	<27.0	<25.0	1500
Ethylbenzene	<39.1	<27.0	<25.0	2900
Chlorobenzene	<39.1	<27.0	<25.0	700 *

- Soil data is listed in ug/kg
- Detected compounds in shown in bold
- Soil standards are NR720 RCLs or USEPA Groundwater Protection *

TABLE 5
SUMMARY OF GROUNDWATER CHEMISTRY OFF SITE GEOPROBE (April 2009)
La Hacienda Restaurant
501 South Park Street, Madison, Wisconsin

Sample Location	GP-1		GP-2		GP-3		GP-4		NR140	
Depth (ft)	7-11	28.5-32.5	8-12	36-38	8-12	26.5-28.5	7-11	31-33	PAL	ES
Benzene	<0.41	<0.41	<0.41	<16.4	<0.41	<164	**296**	<1.0	0.5	5
Chloroethane	<0.97	<0.97	<0.97	<38.8	<0.97	<388	<4.8	<2.4	80	400
Chloromethane	<0.24	<0.24	<0.24	<9.6	<0.24	<96.0	<1.2	<0.60	0.3	3
Tetrachloroethene	<0.45	<0.45	<0.45	**59.0**	<0.45	**1190**	<2.2	**6.6**	0.5	5
Trichloroethene	<0.48	<0.48	<0.48	**386**	<0.48	**7980**	<2.4	*2.5*	0.5	5
cis 1,2 dichloroethene	<0.83	<0.83	1.3	**4170**	1.7	**68700**	<4.2	**153**	7	70
trans 1,2 dichloroethene	<0.89	<0.89	<0.89	**168**	<0.89	**614**	<4.4	4.1	20	100
Vinyl chloride	<0.18	<0.18	<0.18	**165**	**3.8**	**253**	<0.90	<0.45	0.02	0.2
1,1 dichloroethylene	<0.57	<0.57	<0.57	<22.8	<0.57	<228	<1.2	<1.4	7	70
Toluene	<0.67	<0.67	<0.67	<26.8	<0.67	<268	9.5	<1.7	200	1000
Ethylbenzene	<0.54	<0.54	<0.54	<21.6	<0.54	**830**	2.7	<1.4	140	700
Chlorobenzene	<0.41	<0.41	<0.41	<16.4	<0.41	<164	<2.0	<1.0	ns	ns
Isopropylbenzene	<0.59	<0.59	<0.59	<23.6	<0.59	<236	8.7	<1.5	ns	ns
MTBE	<0.61	<0.61	<0.61	<24.4	<0.61	<244	4.1	<1.5	12	60
n-Propylbenzene	<0.81	<0.81	<0.81	<32.4	<0.81	<324	11.8	<2.0	ns	ns
Total Xylenes	<2.63	<2.63	<2.63	<6.6	<2.63	*2610*	<13.2	<6.6	1000	10000

- All data is listed in ug/l
- ns = No standard established
- NR140 PAL = Preventative action limit (exceedances italicized)
- NR140 ES = Enforcement standard (exceedances bold)

TABLE 6
SUMMARY OF RESULTS FROM PASSIVE VAPOR SAMPLING
LaHacienda Restaurant
501 South Park Street - Madison, Wisconsin

DATE	Sample ID	Vinyl Chloride	1,1 Dichloroethene	trans 1,2 Dichloroethene	cis 1,2 Dichloroethene	Trichloroethene	Tetrachloroethene	PCE (normalized)	TOTAL CVOCs
July 2012	PS-1	<25	<25	<25	<25	<25	57	--	57
	PS-2	<25	<25	<25	<25	<25	30	--	30
	PS-3	<25	51	<25	82	5,705	25,681	--	31,519
	PS-4	<25	<25	<25	<25	<25	<25	--	nd
	PS-5	<25	<25	<25	<25	<25	33	--	33
	PS-6	<25	<25	<25	<25	<25	36	--	36
	PS-7	<25	<25	<25	<25	<25	<25	--	nd
	PS-8	<25	<25	<25	<25	<25	<25	--	nd
	PS-9	<25	<25	<25	<25	<25	216	--	216
	PS-10	<25	<25	<25	<25	233	704	--	937
	PS-11	<25	<25	<25	<25	29	78	--	107
	PS-12	<25	<25	65	331	1,106	2,921	--	4,423
	PS-13	<25	81	100	256	3,904	10,280	--	14,621
	PS-14	<25	<25	<25	<25	<25	<25	--	nd
	PS-15	<25	<25	<25	<25	<25	52	--	52
	PS-16	<25	<25	<25	<25	<25	<25	--	nd
	PS-17	<25	<25	32	81	1,219	2,729	--	4,061
	PS-18	<25	<25	<25	27	1,467	17,290	--	18,784
	PS-19	<25	30	39	73	1,028	2,716	--	3,886
	PS-20	<25	96	232	3,033	8,236	29,941	--	41,538
	PS-21	<25	<25	<25	<25	<25	<25	--	nd
	PS-22	<25	<25	<25	<25	<25	<25	--	nd
	PS-23	<25	<25	<25	<25	<25	<25	--	nd
	PS-24	<25	417	234	827	51,540	47,072	--	100,090
	PS-25	<25	614	751	905	99,043	65,486	--	166,799
	PS-26	<25	<25	<25	<25	104	2,744	--	2,848
March 2013	PS-27	<10	<10	19	<10	<10	7	238	**26**
	PS-28	<10	<10	62	<10	<10	<10	nd	**62**
	PS-29	<10	<10	66	<10	<10	<10	nd	**66**
	PS-30	<10	<10	91	<10	13	80	2720	**184**
	PS-31	<10	<10	64	108	17	52	1768	**241**
	PS-32	<10	<10	123	12	84	181	6154	**400**
	PS-33	<10	<10	24	21	<10	6	204	**51**
	PS-34	<10	<10	5	<10	<10	<10	nd	**5**
	PS-35	<10	<10	14	<10	<10	23	782	**37**
	PS-36	<10	<10	51	<10	<10	11	374	**62**
	PS-37	<10	<10	32	<10	<10	23	782	**55**
	PS-38	<10	<10	27	<10	<10	23	782	**50**

- All results are listed in nanograms
- PCE normalized using PS-17 and PS-30 (X34)

TABLE 7
SUMMARY OF RESULTS FROM PASSIVE SAMPLING
LaHacienda Restaurant
501 South Park Street - Madison, Wisconsin

DATE	Sample ID	Vinyl Chloride	1,1 Dichloroethene	trans 1,2 Dichloroethene	cis 1,2 Dichloroethene	Trichloroethene	Tetrachloroethene	PCE (normalized)	TOTAL CVOCs
July 2012	PS-1	<25	<25	<25	<25	<25	57	--	57
	PS-2	<25	<25	<25	<25	<25	30	--	30
	PS-3	<25	51	<25	82	5,705	25,681	--	31,519
	PS-4	<25	<25	<25	<25	<25	<25	--	nd
	PS-5	<25	<25	<25	<25	<25	33	--	33
	PS-6	<25	<25	<25	<25	<25	36	--	36
	PS-7	<25	<25	<25	<25	<25	<25	--	nd
	PS-8	<25	<25	<25	<25	<25	<25	--	nd
	PS-9	<25	<25	<25	<25	<25	216	--	216
	PS-10	<25	<25	<25	<25	233	704	--	937
	PS-11	<25	<25	<25	<25	29	78	--	107
	PS-12	<25	<25	65	331	1,106	2,921	--	4,423
	PS-13	<25	81	100	256	3,904	10,280	--	14,621
	PS-14	<25	<25	<25	<25	<25	<25	--	nd
	PS-15	<25	<25	<25	<25	<25	52	--	52
	PS-16	<25	<25	<25	<25	<25	<25	--	nd
	PS-17	<25	<25	32	81	1,219	2,729	--	4,061
	PS-18	<25	<25	<25	27	1,467	17,290	--	18,784
	PS-19	<25	30	39	73	1,028	2,716	--	3,886
	PS-20	<25	96	232	3,033	8,236	29,941	--	41,538
	PS-21	<25	<25	<25	<25	<25	<25	--	nd
	PS-22	<25	<25	<25	<25	<25	<25	--	nd
	PS-23	<25	<25	<25	<25	<25	<25	--	nd
	PS-24	<25	417	234	827	51,540	47,072	--	100,090
	PS-25	<25	614	751	905	99,043	65,486	--	166,799
	PS-26	<25	<25	<25	<25	104	2,744	--	2,848
March 2013	PS-27	<10	<10	19	<10	<10	7	238	**26**
	PS-28	<10	<10	62	<10	<10	<10	nd	**62**
	PS-29	<10	<10	66	<10	<10	<10	nd	**66**
	PS-30	<10	<10	91	<10	13	80	2720	**184**
	PS-31	<10	<10	64	108	17	52	1768	**241**
	PS-32	<10	<10	123	12	84	181	6154	**400**
	PS-33	<10	<10	24	21	<10	6	204	**51**
	PS-34	<10	<10	5	<10	<10	<10	nd	**5**
	PS-35	<10	<10	14	<10	<10	23	782	**37**
	PS-36	<10	<10	51	<10	<10	11	374	**62**
	PS-37	<10	<10	32	<10	<10	23	782	**55**
	PS-38	<10	<10	27	<10	<10	23	782	**50**

- All results are listed in nanograms
- PCE normalized using PS-17 and PS-30 (X34)

TABLE 8
SUBSLAB SAMPLING FIELD DATA
LaHacienda Restaurant
501 South Park Street - Madison, Wisconsin

SAMPLE ID	Line Vacuum (inches Hg)		Helium (%)			PID Reading	Startup			Completion		
	Initial	5 min.	Shroud	Line	Leakage		Date	Time	Vacuum	Date	Time	Vacuum
Davidsaver SS-1	16	16	13	0.03	0.23%	0	03/15/13	13:42	28	03/15/13	14:16	0
Davidsaver SS-2	15	15	8	0.05	0.63%	0	03/15/13	13:59	27	03/15/13	14:34	0
Davidsaver Indoor	--	--	--	--	--	0	03/15/13	14:03	28		15:35	0
Wartmann SS-1	16	16	8	0.05	0.63%	0.1	03/15/13	12:08	27	03/15/13	12:39	0
Wartmann SS-2	15.5	15.5	13	0	0.00%	0.4	03/15/13	12:23	27	03/15/13	12:54	0
Wartmann Indoor	--	--	--	--	--	1.3	03/15/13	12:28	28		15:45	0
Hoffenberg SS-1	15	15	20	0.02	0.10%	1.7	03/15/13	10:29	27.5	03/15/13	11:07	0
Hoffenberg SS-2	16	16	50	0.3	0.60%	3.4	03/15/13	10:45	30	03/15/13	11:24	0
Hoffenberg Indoor	--	--	--	--	--	0.8	03/15/13	10:55	28.5		16:10	0
Sweet SS-1	14	14	8	0.08	1.00%	1.1	03/15/13	9:05	28	03/15/13	9:36	0
Sweet SS-2	15	15	5	0.03	0.60%	4.7	03/15/13	9:28	27.5	03/15/13	10:03	0
Sweet Indoor	--	--	--	--	--	1.1	03/15/13	9:33	28		16:00	0
LaHacienda Sump	15	15	--	--	--	4.8	03/15/13	16:03	26	03/15/13	16:34	0
LaHacienda Indoor	--	--	--	--	--	0.9	03/15/13	16:05	29		15:50	0

TABLE 9
SUMMARY OF VAPOR INTRUSION SAMPLING RESULTS (March 15, 2013)
LaHacienda Restaurant
501 South Park Street - Madison, Wisconsin

Location	Sample ID	Tetrachloroethene (ppbv)	Trichloroethene (ppbv)	cis 1,2 dichloroethene (ppbv)	trans 1,2 dichloroethene (ppbv)	Vinyl chloride (ppbv)
LaHacienda 515 S. Park St.	Vent	155	<100	349	<100	<100
	Indoor	2.73	0.24	0.44	0.29	<0.085
W. Wartmann 802/4 Drake St.	SS-1	0.780	<0.085	<0.085	<0.085	<0.085
	SS-2	0.380	<0.085	<0.085	<0.085	<0.085
	Indoor	<0.085	<0.085	<0.085	<0.085	<0.085
E. Davidsaver 502 West Shore	SS-1	1.49	0.340	<0.085	<0.085	<0.085
	SS-2	0.360	<0.085	<0.085	<0.085	<0.085
	Indoor	0.240	<0.085	<0.085	0.270	<0.085
H. Sweet 506 West Shore	SS-1	1.31	<0.085	<0.085	0.370	<0.085
	SS-2	1.49	<0.085	<0.085	<0.085	<0.085
	Indoor	0.29	<0.085	<0.085	0.30	<0.085
S. Hoffenberg 512 West Shore	SS-1	nr	nr	nr	nr	nr
	SS-2	0.500	<0.085	<0.085	<0.085	<0.085
	Indoor	<0.085	<0.085	<0.085	0.300	<0.085
Residential Standard						
Indoor Air Standard (ug/m3)		42	2.1	ne	63	1.6
Molecular Weight		165.83	131.39	96.94	96.94	62.5
Indoor Air Standard (ppbv)		6.2	0.39	ne	16	0.62
Subslab Standard (ppbv) (Attenuation factor 0.1)		62	3.9	ne	160	6.2
Commercial Standard						
Indoor Air Standard (ppbv)		27	1.6	ne	65	11
Subslab Standard (ppbv) (Attenuation factor 0.1)		270	16	ne	650	110

- LaHacienda Results compared to Commercial Standard, all others to Residential
- nr = no results; sample was collected but laboratory error resulted in compromised sample.

BADGER STATE DRILLING CO., INC.

STOUGHTON, WISCONSIN

FIELD BORING LOG

Sheet 1 Of 1

FOR La Follette — BSDI# 5092

Job No. 5092

LOCATION 315 S. Park St. Madison WI ELEV.

Boring No. -1

GROUND WATER

While drilling 15' — Time after drilling 15 min.

Before casing removal / — Depth to water 8'

After casing removal — Depth to cave-in

Start 03/23/09

Unit D-120

Chief A.P./D.S.

Cathead

VISUAL FIELD CLASSIFICATION AND REMARKS

Casing/Probe 2"

Weight 140

Drop 30"

Sample No.	Moisture	Blows on Sampler 0/6	Blows on Sampler 6/12	Sample Recovery	Total Blows	Unconfined Strength	Boulders	Blows on Casing Size	Blows on Probe Size	Drilling Method
								6 1/4		HSA
								2	5 7/8	R.B. A.
								1	1	

TOPSOIL - 15"

Blind Drill TOPSOIL

Brn. F. - med. Sand Tr. gravel

5

Brn. Silty Clay Tr. gravel

10

15

Grey Clay Tr. gravel

20

25

Brn. F. - med. Sand and gravel

ROCK 30'

30

Brn. F. - med. Sand and gravel

35

Switched to Air Rotary
Hole would not stay open, so Advanced 6¼ HSA to Depth & cleaned out Borehole

40

45

50

State of Wisconsin
Department of Natural Resources

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4-90

Facility/Project Name: Lo Hai Chop Suey

Facility License, Permit or Monitoring Number: _____

Type of Well: Water Table Observation Well ☒ 11; Piezometer ☐ 12

Distance Well Is From Waste/Source Boundary: _____ ft.

Is Well A Point of Enforcement Std. Application? ☐ Yes ☐ No

Local Grid Location of Well: _____ ft. ☐ N. ☐ S. _____ ft. ☐ E. ☐ W.

Grid Origin Location: Lat. _____ Long. _____ or

St. Plane _____ ft. N, _____ ft. E.

Section Location of Waste/Source: ___ 1/4 of ___ 1/4 of Sec. ___, T. ___ N, R. ___ ☐ E. ☐ W.

Location of Well Relative to Waste/Source: u ☐ Upgradient; s ☐ Sidegradient; d ☐ Downgradient; n ☐ Not Known

Well Name: -1

Wis. Unique Well Number: _____ DNR Well Number: _____

Date Well Installed: 03/23/09 (m m d d y y)

Well Installed By: (Person's Name and Firm)
Alex Flanner
Badger State Drilling

A. Protective pipe, top elevation: ELEV ft. MSL
B. Well casing, top elevation: _____ ft. MSL
C. Land surface elevation: _____ ft. MSL
D. Surface seal, bottom: _____ ft. MSL or 1.0 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

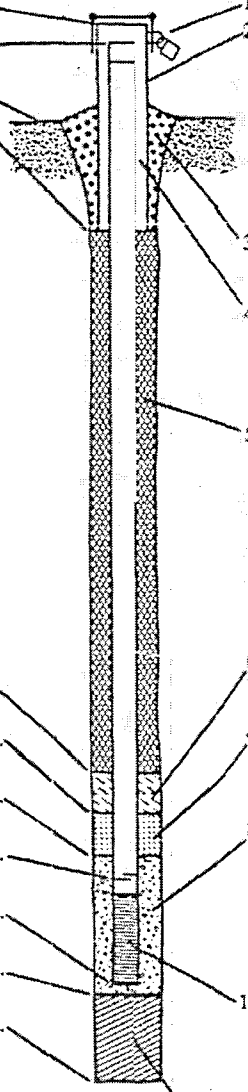
14. Drilling method used: Rotary ☒ 50; Hollow Stem Auger ☒ 41; Other ☐ __

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

16. Drilling additives used? ☐ Yes ☒ No
Describe _____

17. Source of water (attach analysis):

E. Bentonite seal, top: _____ ft. MSL or 1.0 ft.
F. Fine sand, top: _____ ft. MSL or 42.5 ft.
G. Filter pack, top: _____ ft. MSL or 42.5 ft.
H. Screen joint, top: _____ ft. MSL or 45.5 ft.
I. Well bottom: _____ ft. MSL or 50.5 ft.
J. Filter pack, bottom: _____ ft. MSL or 53.0 ft.
K. Borehole, bottom: _____ ft. MSL or 53.0 ft.
L. Borehole, diameter: 12.0 in.
M. O.D. well casing: 2.0 in.
N. I.D. well casing: 2.0 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 9.5 in.
b. Length: 1.0 ft.
c. Material: Flush mount — 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; Annular space seal ☐ __; Other ☐ __
5. Annular space seal: a. Granular 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 pellets ☒ 32
c. _____ Other ☐ __
7. Fine sand material: Manufacturer, product name & mesh size
a. Ohio 40-60
b. Volume added _____ ft^3
8. Filter pack material: Manufacturer, product name and mesh size
a. Ohio #5
b. Volume added _____ 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 Mowhawk
c. Slot size: 0.10 in.
d. Slotted length: 5.0 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: Badger State Drilling, Inc.

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Ad. Code. In accordance with ch.144, Wis Stats., failure to file this form may result in a forfeiture of not less than $10, nor more than $5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than $10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. 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
Page 1 of 1

Facility/Project Name	Seymour Project Number	License/Permit/Monitoring Number
LaHacienda – 501 South Park. - Madison, WI	10509.01	Boring B

Boring Drilled by	Date Installed
Soil Essentials (Cory Johnson) Seymour Environmental (R. Seymour)	04/30/2009

Boring or Well Number / WI Unique Well Number (assigned by DNR)	Borehole Diameter	Water Level / Surface Elevation
Boring B	2"	

SW ¼ of SW ¼ of Section 23 T 7 N R 9 E — Grid Location (if applicable)

County Dane | County Code 13 | Civil Town Madison

SAMPLE	RECOVERY	DEPTH (ft)	SOIL/ROCK DESCRIPTION	WELL DIAGRAM	USCS	RQD	Stable OVM (vppm)	Soil Properties q	W	LL	PL	P200	Blow Count
		0	Asphalt Pavement										
			Brown fine Sand (fill),										
		1	Silty fine sand		SP								
1		2											
		3											
		4											
			Same as above										
		5											
2		6			SP								
		7	Silty clay										
			End of boring		CL								
		8											
		9											
		10											
		11											
		12											
		13											
		14											
		15											

Signature Robyn Seymour — Firm: Seymour Environmental Services, Inc.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122
Page 1 of 1

Facility/Project Name	Seymour Project Number	License/Permit/Monitoring Number
LaHacienda – 501 South Park. - Madison, WI	10509.01	Boring C

Boring Drilled by	Date Installed
Soil Essentials (Cory Johnson) Seymour Environmental (R. Seymour)	04/30/2009

Boring or Well Number	WI Unique Well Number (assigned by DNR)	Borehole Diameter	Water Level	Surface Elevation
Boring C		2"		

SW ¼ of SW ¼ of Section 23 T 7 N R 9 E — Grid Location (if applicable)

County Dane — County Code 13 — Civil Town Madison

SAMPLE	RECOVERY	DEPTH (ft)	SOIL/ROCK DESCRIPTION	WELL DIAGRAM	USCS	RQD	Stable OVM (vppm)	Soil Properties q	W	LL	PL	P200	Blow Count
		0	Asphalt Pavement										
			Brown fine Sand (fill),										
		1	Silty fine sand		SP								
1		2											
		3											
		4											
			Same as above										
		5											
2		6			SP								
		7	Silty clay										
			End of boring		CL								
		8											
		9											
		10											
		11											
		12											
		13											
		14											
		15											

Signature Robyn Seymour — Firm: Seymour Environmental Services, Inc.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122
Page 1 of 1

Facility/Project Name	Seymour Project Number	License/Permit/Monitoring Number
LaHacienda – 501 South Park. - Madison, WI	10509.01	Boring D

Boring Drilled by	Date Installed
Soil Essentials (Cory Johnson) Seymour Environmental (R. Seymour)	04/30/2009

Boring or Well Number / WI Unique Well Number (assigned by DNR)	Borehole Diameter	Water Level / Surface Elevation
Boring D	2"	

SW ¼ of SW ¼ of Section 23 T 7 N R 9 E — Grid Location (if applicable)

County Dane — County Code 13 — Civil Town Madison

SAMPLE	RECOVERY	DEPTH (ft)	SOIL/ROCK DESCRIPTION	WELL DIAGRAM	USCS	RQD	Stable OVM (vppm)	Soil Properties q	W	LL	PL	P200	Blow Count
		0	Asphalt Pavement										
			Brown fine Sand (fill),										
		1	Silty fine sand		SP								
1		2											
		3											
		4											
			Same as above										
		5											
2		6			SP								
		7	Silty clay										
			End of boring		CL								
		8											
		9											
		10											
		11											
		12											
		13											
		14											
		15											

Signature Robyn Seymour — Firm: Seymour Environmental Services, Inc.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122
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Facility/Project Name	Seymour Project Number	License/Permit/Monitoring Number
LaHacienda – 501 South Park. - Madison, WI	10509.01	B-1

Boring Drilled by	Date Installed
Soil Essentials (Cory Johnson) Seymour Environmental (R. Seymour)	04/30/2009

Boring or Well Number	WI Unique Well Number (assigned by DNR)	Borehole Diameter	Water Level	Surface Elevation
B-1		2"		

SW ¼ of SW ¼ of Section 23 T 7 N R 9 E	Grid Location (if applicable)

County Dane	County Code 13	Civil Town Madison

SAMPLE	RECOVERY	DEPTH (ft)	SOIL/ROCK DESCRIPTION	WELL DIAGRAM	USCS	RQD	Stable OVM (vppm)	Soil Properties q	W	LL	PL	P200	Blow Count
		0	Asphalt Pavement Blind drilled to 12, collected water sample 8-11 Drilled to refusal at 32.5 Collected another sample at depth										

Signature Robyn Seymour	Firm: Seymour Environmental Services, Inc.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122
Page 1 of 1

Facility/Project Name	Seymour Project Number	License/Permit/Monitoring Number
LaHacienda – 501 South Park. - Madison, WI	10509.01	B-2

Boring Drilled by	Date Installed
Soil Essentials (Cory Johnson) Seymour Environmental (R. Seymour)	04/30/2009

Boring or Well Number / WI Unique Well Number (assigned by DNR)	Borehole Diameter	Water Level / Surface Elevation
B-2	2"	

SW ¼ of SW ¼ of Section 23 T 7 N R 9 E	Grid Location (if applicable)

County	County Code	Civil Town
Dane	13	Madison

SAMPLE	RECOVERY	DEPTH (ft)	SOIL/ROCK DESCRIPTION	WELL DIAGRAM	USCS	RQD	Stable OVM (vppm)	Soil Properties q	W	LL	PL	P200	Blow Count
		0	Asphalt Pavement Blind drilled to 12, collected water sample 8-12 Drilled to refusal at 38 Collected another sample at depth										

Signature Robyn Seymour

Firm: Seymour Environmental Services, Inc.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122
Page 1 of 1

Facility/Project Name	Seymour Project Number	License/Permit/Monitoring Number
LaHacienda – 501 South Park. - Madison, WI	10509.01	B-3

Boring Drilled by	Date Installed
Soil Essentials (Cory Johnson) Seymour Environmental (R. Seymour)	04/30/2009

Boring or Well Number	WI Unique Well Number (assigned by DNR)	Borehole Diameter	Water Level	Surface Elevation
B-3		2"		

SW ¼ of SW ¼ of Section 23 T 7 N R 9 E | Grid Location (if applicable)

County Dane | County Code 13 | Civil Town Madison

SAMPLE	RECOVERY	DEPTH (ft)	SOIL/ROCK DESCRIPTION	WELL DIAGRAM	USCS	RQD	Stable OVM (vppm)	Soil Properties q	W	LL	PL	P200	Blow Count
		0	Asphalt Pavement Blind drilled to 12, collected water sample 8-12 Drilled to refusal at 28.5 Collected another sample at depth										

Signature Robyn Seymour | Firm: Seymour Environmental Services, Inc.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122
Page 1 of 1

Facility/Project Name	Seymour Project Number	License/Permit/Monitoring Number
LaHacienda – 501 South Park. - Madison, WI	10509.01	B-4
Boring Drilled by: Soil Essentials (Cory Johnson) Seymour Environmental (R. Seymour)		Date Installed: 04/30/2009
Boring or Well Number: B-4 — WI Unique Well Number (assigned by DNR)	Borehole Diameter: 2"	Water Level — Surface Elevation
SW ¼ of SW ¼ of Section 23 T 7 N R 9 E	Grid Location (if applicable)	
County: Dane — County Code: 13	Civil Town: Madison	

SAMPLE	RECOVERY	DEPTH (ft)	SOIL/ROCK DESCRIPTION	WELL DIAGRAM	USCS	RQD	Stable OVM (vppm)	Soil Properties: q	W	LL	PL	P200	Blow Count
		0	Asphalt Pavement Blind drilled to 12, collected water sample 8-12 Drilled to refusal at 33 Collected another sample at depth										

Signature: Robyn Seymour

Firm: Seymour Environmental Services, Inc.

State of Wisconsin — WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Department of Natural Resources — Form 3300-5B — Rev. 3-95

All Abandonment work shall be performed in accordance with the provision of Chapters NR 811, NR 812 or NR 141, Wis. Adm. Code,whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location - B-1 / GP-1B

County: Dane

____ 1/4 of ____ 1/4 of Sec. ____ ; T:. ____ N;R. ____ ☒E ☐W

(If Applicable) Street or Route ____ Gov't Lot ____ Grid Number

Grid Location ____ Ft. ☐ N. ☐ S., ____ Ft. ☐ E. ☐ W.

Civil Town Name: **Madison**

Street Address of Well: 515 S. Park Street

City, Village: **Madison**

(2) FACILITY NAME

Original Well Owner (If Known): La Hacienda

Present Well Owner: **La Hacienda**

515 S. Park Street

City, State, Zip Code: Madison, WI

Facility Well No. and/or Name (If App):

WI Unique Well No.:

Reason For Abandonment: NO LONGER NEEDED

Date of Abandonment: **4/30/09**

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On

(Date) 4/30/09

☐ Monitoring Well
☐ Water Well
☐ Drill Hole
☒ Borehole

Construction Report Available? ☐ Yes ☒ No

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

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth(ft.) 8' (From groundsurface)

Casting Diameter(in.) ____

Casting Depth(ft.) ____

Lower Drillhole Diameter (in.) 2"

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? ____ Feet

(4) Depth to Water (Feet) 9'

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☒ Not Applicable
Screen Removed?	☐ Yes	☐ No	☒ Not Applicable
Casting Left in Place?	☐ Yes	☒ No	

If No, Explain No Casing

Was Casting Cut Off Below Surface?	☐ Yes	☒ No
Did Sealing Material Rise to Surface?	☒ Yes	☐ No
Did Material Settle After 24 Hours	☐ Yes	☒ No
If Yes, Was Hole Retopped?	☐ Yes	☐ No

(5) Required Method of Placing Sealed Material

☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Dump Bailer ☐ Other (Explain) ____

(6) Sealing Materials — For monitoring wells and monitoring well boreholes only

☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☒ Chipped Bentonite
☐ Bentonite Pellets
☐ Granular Bentonite
☒ Bentonite - Cement Grout

(7) 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	8'	13 lbs	

(8) Comments:

(9) Name of Person or Firm Doing Sealing Work
Soil Essentials (Dave Paulson)

Signature of Person Doing Work

Date Signed: **5/3/09**

Street or Route: **W6306 STH 39**

Telephone Number: **(608)527-2355**

City, State, Zip Code; **New Glarus, Wi 53574**

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	☐ Complying Work ☐ Noncomplying Work
Follow-up Necessary	

State of Wisconsin — WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Department of Natural Resources — Form 3300-5B — Rev. 3-95

All Abandonment work shall be performed in accordance with the provision of Chapters NR 811, NR 812 or NR 141, Wis. Adm. Code,whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location - B-2/GP-C

County: Dane

____ 1/4 of ____ 1/4 of Sec. ____ ; T:. ____ N;R. ____ ☒E ☐W

(If Applicable)Street or Route ____ Gov't Lot ____ Grid Number

Grid Location ____ Ft. ☐ N. ☐ S., ____ Ft. ☐ E. ☐ W.

Civil Town Name: **Madison**

Street Address of Well: 515 S. Park Street

City, Village: **Madison**

(2) FACILITY NAME

Original Well Owner (If Known): La Hacienda

Present Well Owner: **La Hacienda**

515 S. Park Street

City, State, Zip Code: Madison, WI

Facility Well No. and/or Name (If App): | WI Unique Well No.:

Reason For Abandonment: NO LONGER NEEDED

Date of Abandonment: **4/30/09**

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On

(Date) 4/30/09

☐ Monitoring Well
☐ Water Well
☐ Drill Hole
☒ Borehole

Construction Report Available? ☐ Yes ☒ No

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

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth(ft.) 8' (From groundsurface)
Casting Diameter(in.) ____
Casting Depth(ft.) ____

Lower Drillhole Diameter (in.) 2"

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? ____ Feet

(4) Depth to Water (Feet) 9'

Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable
Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable
Screen Removed? ☐ Yes ☐ No ☒ Not Applicable
Casting Left in Place? ☐ Yes ☒ No
If No, Explain No Casing
Was Casting Cut Off Below Surface? ☐ Yes ☒ No
Did Sealing Material Rise to Surface? ☒ Yes ☐ No
Did Material Settle After 24 Hours ☐ Yes ☒ No
If Yes, Was Hole Retopped? ☐ Yes ☐ No

(5) Required Method of Placing Sealed Material

☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Dump Bailer ☐ Other (Explain) ____

(6) Sealing Materials — For monitoring wells and monitoring well boreholes only

☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☒ Chipped Bentonite
☐ Bentonite Pellets
☐ Granular Bentonite
☒ Bentonite - Cement Grout

(7) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	No. Yards, Sacks, Sealant (Circle or Volume One)	Mix Ratio or Mud Weight
Granular Bentonite	Surface	8'	13 lbs	

(8) Comments:

(9) Name of Person or Firm Doing Sealing Work
Soil Essentials (Dave Paulson)

Signature of Person Doing Work

Date Signed: **5/3/09**

Street or Route: **W6306 STH 39**

Telephone Number: **(608)527-2355**

City, State, Zip Code; **New Glarus, Wi 53574**

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	☐ Complying Work ☐ Noncomplying Work
Follow-up Necessary	

State of Wisconsin — WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Department of Natural Resources — Form 3300-5B — Rev. 3-95

All Abandonment work shall be performed in accordance with the provision of Chapters NR 811, NR 812 or NR 141, Wis. Adm. Code,whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location - B-3/GP-D

County: Dane

_____ 1/4 of _____ 1/4 of Sec. _____ ; T:. _____ N;R. _____ ☒E ☐W

(If Applicable)Street or Route _____ Gov't Lot _____ Grid Number

Grid Location _____ Ft. ☐ N. ☐ S., _____ Ft. ☐ E. ☐ W.

Civil Town Name: **Madison**

Street Address of Well: 515 S. Park Street

City, Village: **Madison**

(2) FACILITY NAME

Original Well Owner (If Known): La Hacienda

Present Well Owner: **La Hacienda**

515 S. Park Street

City, State, Zip Code: Madison, WI

Facility Well No. and/or Name (If App):

WI Unique Well No.:

Reason For Abandonment: NO LONGER NEEDED

Date of Abandonment: **4/30/09**

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On

(Date) 4/30/09

☐ Monitoring Well
☐ Water Well
☐ Drill Hole
☒ Borehole

Construction Report Available? ☐ Yes ☒ No

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

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth(ft.) 8' (From groundsurface)

Casting Diameter(in.) _____

Casting Depth(ft.) _____

Lower Drillhole Diameter (in.) 2"

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? _____ Feet

(4) Depth to Water (Feet) 9'

Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable
Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable
Screen Removed? ☐ Yes ☐ No ☒ Not Applicable
Casting Left in Place? ☐ Yes ☒ No
If No, Explain No Casing
Was Casting Cut Off Below Surface? ☐ Yes ☒ No
Did Sealing Material Rise to Surface? ☒ Yes ☐ No
Did Material Settle After 24 Hours ☐ Yes ☒ No
If Yes, Was Hole Retopped? ☐ Yes ☐ No

(5) Required Method of Placing Sealed Material

☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Dump Bailer ☐ Other (Explain) _____

(6) Sealing Materials — For monitoring wells and monitoring well boreholes only

☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☒ Chipped Bentonite
☐ Bentonite Pellets
☐ Granular Bentonite
☒ Bentonite - Cement Grout

(7) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	No. Yards, Sacks, Sealant (Circle or Volume One)	Mix Ratio or Mud Weight
Granular Bentonite	Surface	8'	13 lbs	

(8) Comments:

(9) Name of Person or Firm Doing Sealing Work
Soil Essentials (Dave Paulson)

Signature of Person Doing Work: Dave Paulson

Date Signed: **5/3/09**

Street or Route: **W6306 STH 39**

Telephone Number: **(608)527-2355**

City, State, Zip Code; **New Glarus, Wi 53574**

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	☐ Complying Work ☐ Noncomplying Work
Follow-up Necessary	

State of Wisconsin — WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Department of Natural Resources — Form 3300-5B — Rev. 3-95

All Abandonment work shall be performed in accordance with the provision of Chapters NR 811, NR 812 or NR 141, Wis. Adm. Code,whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location - B-6 / GP-1

County: Dane

____ 1/4 of ____ 1/4 of Sec. ____ ; T:. ____ N;R. ____ ☒E ☐W

(If Applicable) Street or Route ____ Gov't Lot ____ Grid Number

Grid Location ____ Ft. ☐ N. ☐ S., ____ Ft. ☐ E. ☐ W.

Civil Town Name: **Madison**

Street Address of Well: 515 S. Park Street

City, Village: **Madison**

(2) FACILITY NAME

Original Well Owner (If Known): La Hacienda

Present Well Owner: **La Hacienda**

515 S. Park Street

City, State, Zip Code: Madison, WI

Facility Well No. and/or Name (If App):

WI Unique Well No.:

Reason For Abandonment: NO LONGER NEEDED

Date of Abandonment: **4/30/09**

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On

(Date) 4/30/09

☐ Monitoring Well
☐ Water Well
☐ Drill Hole
☒ Borehole

Construction Report Available? ☐ Yes ☒ No

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

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth(ft.) 32.5' (From groundsurface)

Casting Diameter(in.) ____

Casting Depth(ft.) ____

Lower Drillhole Diameter (in.) 2"

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? ____ Feet

(4) Depth to Water (Feet) 9'

Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable
Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable
Screen Removed? ☐ Yes ☐ No ☒ Not Applicable
Casting Left in Place? ☐ Yes ☒ No
If No, Explain No Casing
Was Casting Cut Off Below Surface? ☐ Yes ☒ No
Did Sealing Material Rise to Surface? ☒ Yes ☐ No
Did Material Settle After 24 Hours ☐ Yes ☒ No
If Yes, Was Hole Retopped? ☐ Yes ☐ No

(5) Required Method of Placing Sealed Material

☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Dump Bailer ☐ Other (Explain) ____

(6) Sealing Materials — For monitoring wells and monitoring well boreholes only

☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☒ Chipped Bentonite
☐ Bentonite Pellets
☐ Granular Bentonite
☒ Bentonite - Cement Grout

(7) 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	7'	12 lbs	
	7	32.5	2 gals	

(8) Comments:

(9) Name of Person or Firm Doing Sealing Work
Soil Essentials (Dave Paulson)

Signature of Person Doing Work

Date Signed: **5/3/09**

Street or Route: **W6306 STH 39**

Telephone Number: **(608)527-2355**

City, State, Zip Code; **New Glarus, Wi 53574**

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	☐ Complying Work ☐ Noncomplying Work
Follow-up Necessary	

State of Wisconsin — WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Department of Natural Resources — Form 3300-5B — Rev. 3-95

All Abandonment work shall be performed in accordance with the provision of Chapters NR 811, NR 812 or NR 141, Wis. Adm. Code,whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location - B-7/GP-3

County: Dane

____ 1/4 of ____ 1/4 of Sec. ____ ; T:. ____ N;R. ____ ☒E ☐W

(If Applicable)Street or Route: ____ Gov't Lot ____ Grid Number

Grid Location: ____ Ft. ☐ N. ☐ S., ____ Ft. ☐ E. ☐ W.

Civil Town Name: **Madison**

Street Address of Well: 515 S. Park Street

City, Village: **Madison**

(2) FACILITY NAME

Original Well Owner (If Known): La Hacienda

Present Well Owner: **La Hacienda**

515 S. Park Street

City, State, Zip Code: Madison, WI

Facility Well No. and/or Name (If App): | WI Unique Well No.:

Reason For Abandonment: NO LONGER NEEDED

Date of Abandonment: **4/30/09**

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On

(Date) 4/30/09

☐ Monitoring Well
☐ Water Well
☐ Drill Hole
☒ Borehole

Construction Report Available? ☐ Yes ☒ No

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

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth(ft.) 28.5' (From groundsurface)

Casting Diameter(in.) ____

Casting Depth(ft.) ____

Lower Drillhole Diameter (in.) 2"

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? ____ Feet

(4) Depth to Water (Feet) 9'

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☒ Not Applicable
Screen Removed?	☐ Yes	☐ No	☒ Not Applicable
Casting Left in Place?	☐ Yes	☒ No	

If No, Explain No Casing

Was Casting Cut Off Below Surface?	☐ Yes	☒ No
Did Sealing Material Rise to Surface?	☒ Yes	☐ No
Did Material Settle After 24 Hours	☐ Yes	☒ No
If Yes, Was Hole Retopped?	☐ Yes	☐ No

(5) Required Method of Placing Sealed Material

☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Dump Bailer ☐ Other (Explain) ____

(6) 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 Pellets
☐ Granular Bentonite
☒ Bentonite - Cement Grout

(7) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	No. Yards, Sacks, Sealant (Circle One) or Volume	Mix Ratio or Mud Weight
Granular Bentonite	Surface	6'	11 lbs	
	6	28.5'	1.5 gal 4	

(8) Comments:

(9) Name of Person or Firm Doing Sealing Work
Soil Essentials (Dave Paulson)

Signature of Person Doing Work

Date Signed: **5/3/09**

Street or Route: **W6306 STH 39**

Telephone Number: **(608)527-2355**

City, State, Zip Code; **New Glarus, Wi 53574**

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	☐ Complying Work ☐ Noncomplying Work
Follow-up Necessary	

Department of Natural Resources | Form 3300-5B | Rev. 3-95

All Abandonment work shall be performed in accordance with the provision of Chapters NR 811, NR 812 or NR 141, Wis. Adm. Code,whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location - B-4/GP-2

County: Dane

____ 1/4 of ____ 1/4 of Sec. ____ ; T:. ____ N;R. ____ ☒E ☐W

(If Applicable)Street or Route ____ Gov't Lot ____ Grid Number

Grid Location ____ Ft. ☐ N. ☐ S., ____ Ft. ☐ E. ☐ W.

Civil Town Name: **Madison**

Street Address of Well: 515 S. Park Street

City, Village: **Madison**

(2) FACILITY NAME

Original Well Owner (If Known): La Hacienda

Present Well Owner: **La Hacienda**

515 S. Park Street

City, State, Zip Code: Madison, WI

Facility Well No. and/or Name (If App) | WI Unique Well No.

Reason For Abandonment: NO LONGER NEEDED

Date of Abandonment: **4/30/09**

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On

(Date) 4/30/09

☐ Monitoring Well
☐ Water Well
☐ Drill Hole
☒ Borehole

Construction Report Available? ☐ Yes ☒ No

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

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth(ft.) 38' (From groundsurface)
Casting Diameter(in.) ____
Casting Depth(ft.) ____

Lower Drillhole Diameter (in.) 2"

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? ____ Feet

(4) Depth to Water (Feet) 9'

Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable
Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable
Screen Removed? ☐ Yes ☐ No ☒ Not Applicable
Casting Left in Place? ☐ Yes ☒ No
If No, Explain No Casing
Was Casting Cut Off Below Surface? ☐ Yes ☒ No
Did Sealing Material Rise to Surface? ☒ Yes ☐ No
Did Material Settle After 24 Hours ☐ Yes ☒ No
If Yes, Was Hole Retopped? ☐ Yes ☐ No

(5) Required Method of Placing Sealed Material

☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Dump Bailer ☐ Other (Explain) ____

(6) 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 Pellets
☐ Granular Bentonite
☒ Bentonite - Cement Grout

(7) 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	7'	10 lbs	
Bentonite grout	7'	38'	2 gals	

(8) Comments:

(9) Name of Person or Firm Doing Sealing Work
Soil Essentials (Dave Paulson)

Signature of Person Doing Work | Date Signed: **5/3/09**

Street or Route: **W6306 STH 39** | Telephone Number: **(608)527-2355**

City, State, Zip Code; **New Glarus, Wi 53574**

(10) **FOR DNR OR COUNTY USE ONLY**

Date Received/Inspected	District/County
Reviewer/Inspector	☐ Complying Work ☐ Noncomplying Work
Follow-up Necessary	

Department of Natural Resources — Form 3300-5B — Rev. 3-95

All Abandonment work shall be performed in accordance with the provision of Chapters NR 811, NR 812 or NR 141, Wis. Adm. Code,whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location - B-5/GP-4

County: Dane

_____ 1/4 of _____ 1/4 of Sec. _____ ; T:. _____ N;R. _____ ☒E ☐W

(If Applicable)Street or Route _____ Gov't Lot _____ Grid Number

Grid Location _____ Ft. ☐ N. ☐ S., _____ Ft. ☐ E. ☐ W.

Civil Town Name: **Madison**

Street Address of Well: 515 S. Park Street

City, Village: **Madison**

(2) FACILITY NAME

Original Well Owner (If Known): La Hacienda

Present Well Owner: **La Hacienda**

515 S. Park Street

City, State, Zip Code: Madison, WI

Facility Well No. and/or Name (If App) | WI Unique Well No.

Reason For Abandonment: NO LONGER NEEDED

Date of Abandonment: **4/30/09**

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On

(Date) 4/30/09

☐ Monitoring Well
☐ Water Well
☐ Drill Hole
☒ Borehole

Construction Report Available? ☐ Yes ☒ No

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

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth(ft.) 33' (From groundsurface)
Casting Diameter(in.) _____
Casting Depth(ft.) _____

Lower Drillhole Diameter (in.) 2"

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? _____ Feet

(4) Depth to Water (Feet) 9'

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☒ Not Applicable
Screen Removed?	☐ Yes	☐ No	☒ Not Applicable
Casting Left in Place?	☐ Yes	☒ No	

If No, Explain No Casing

Was Casting Cut Off Below Surface?	☐ Yes	☒ No
Did Sealing Material Rise to Surface?	☒ Yes	☐ No
Did Material Settle After 24 Hours	☐ Yes	☒ No
If Yes, Was Hole Retopped?	☐ Yes	☐ No

(5) Required Method of Placing Sealed Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Dump Bailer ☐ Other (Explain) _____

(6) Sealing Materials — For monitoring wells and monitoring well boreholes only
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☒ Chipped Bentonite
☐ Bentonite Pellets
☐ Granular Bentonite
☒ Bentonite - Cement Grout

(7) 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	7'	12 lbs	
	7	33	2 gals	

(8) Comments:

(9) Name of Person or Firm Doing Sealing Work
Soil Essentials (Dave Paulson)

Signature of Person Doing Work | Date Signed: **5/3/09**

Street or Route: **W6306 STH 39** | Telephone Number: **(608)527-2355**

City, State, Zip Code; **New Glarus, Wi 53574**

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	☐ Complying Work ☐ Noncomplying Work
Follow-up Necessary	

Appendix B
Pace Analytical Laboratory Reports

Pace Analytical®
www.pacelabs.com

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

May 11, 2009

Robyn Seymour
Seymour Environmental Services, INC.
2531 Dyreson Road
Mc Farland, WI 53558

RE: Project: LA HACIENDA
Pace Project No.: 4016991

Dear Robyn Seymour:
Enclosed are the analytical results for sample(s) received by the laboratory on May 07, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Brian Basten

brian.basten@pacelabs.com
Project Manager

Enclosures

Pace Analytical®
www.pacelabs.com

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

CERTIFICATIONS

Project: LA HACIENDA
Pace Project No.: 4016991

Green Bay Certification IDs

Wisconsin DATCP Certification #: 105-444
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
South Carolina Certification #: 83006001
North Dakota Certification #: R-200
North Dakota Certification #: R-150
North Carolina Certification #: 503
North Carolina Certification #: 503
New York Certification #: 11887
New York Certification #: 11888
Minnesota Certification #: 055-999-334
Minnesota Certification #: 055-999-334
Louisiana Certification #: 04169
Louisiana Certification #: 04168
Kentucky Certification #: 83
Kentucky Certification #: 82
Illinois Certification #: 200051
Illinois Certification #: 200050
Florida/NELAP Certification #: E87951
Florida/NELAP Certification #: E87948

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

SAMPLE SUMMARY

Project: LA HACIENDA
Pace Project No.: 4016991

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4016991001	GP-B 4-6	Solid	04/30/09 08:15	05/07/09 09:00
4016991002	GP-C 4-6	Solid	04/30/09 08:45	05/07/09 09:00
4016991003	GP-D 4-7	Solid	04/30/09 09:15	05/07/09 09:00
4016991004	GP-2 SHALLOW	Water	04/30/09 11:15	05/07/09 09:00
4016991005	GP-2 DEEP	Water	04/30/09 11:45	05/07/09 09:00
4016991006	GP-4 SHALLOW	Water	04/30/09 12:15	05/07/09 09:00
4016991007	GP-4 DEEP	Water	04/30/09 12:45	05/07/09 09:00
4016991008	GP-1 SHALLOW	Water	04/30/09 13:15	05/07/09 09:00
4016991009	GP-1 DEEP	Water	04/30/09 13:45	05/07/09 09:00
4016991010	GP-3 SHALLOW	Water	04/30/09 14:15	05/07/09 09:00
4016991011	GP-3 DEEP	Water	04/30/09 14:45	05/07/09 09:00

Pace Analytical®
www.pacelabs.com

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

SAMPLE ANALYTE COUNT

Project: LA HACIENDA
Pace Project No.: 4016991

Lab ID	Sample ID	Method	Analysts	Analytes Reported
4016991001	GP-B 4-6	ASTM D2974-87	MRN	1
		EPA 8260	JJB	64
4016991002	GP-C 4-6	ASTM D2974-87	MRN	1
		EPA 8260	JJB	64
4016991003	GP-D 4-7	ASTM D2974-87	MRN	1
		EPA 8260	JJB	64
4016991004	GP-2 SHALLOW	EPA 8260	SMT	64
4016991005	GP-2 DEEP	EPA 8260	SMT	64
4016991006	GP-4 SHALLOW	EPA 8260	SMT	64
4016991007	GP-4 DEEP	EPA 8260	SMT	64
4016991008	GP-1 SHALLOW	EPA 8260	SMT	64
4016991009	GP-1 DEEP	EPA 8260	SMT	64
4016991010	GP-3 SHALLOW	EPA 8260	SMT	64
4016991011	GP-3 DEEP	EPA 8260	SMT	64

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

ANALYTICAL RESULTS

Project: LA HACIENDA
Pace Project No.: 4016991

Sample: GP-B 4-6 **Lab ID: 4016991001** Collected: 04/30/09 08:15 Received: 05/07/09 09:00 Matrix: Solid

Results reported on a "dry-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								
Benzene	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	71-43-2	W
Bromobenzene	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	108-86-1	W
Bromochloromethane	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	74-97-5	W
Bromodichloromethane	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	75-27-4	W
Bromoform	**<40.5**	ug/kg	93.8	40.5	1	05/08/09 09:09	05/08/09 18:19	75-25-2	W
Bromomethane	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	74-83-9	W
n-Butylbenzene	**<63.1**	ug/kg	93.8	63.1	1	05/08/09 09:09	05/08/09 18:19	104-51-8	W
sec-Butylbenzene	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	135-98-8	W
tert-Butylbenzene	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	98-06-6	W
Carbon tetrachloride	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	56-23-5	W
Chlorobenzene	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	108-90-7	W
Chloroethane	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	75-00-3	CC,L1, W
Chloroform	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	67-66-3	W
Chloromethane	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	74-87-3	W
2-Chlorotoluene	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	95-49-8	W
4-Chlorotoluene	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	106-43-4	W
1,2-Dibromo-3-chloropropane	**<129**	ug/kg	391	129	1	05/08/09 09:09	05/08/09 18:19	96-12-8	W
Dibromochloromethane	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	124-48-1	W
1,2-Dibromoethane (EDB)	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	106-93-4	W
Dibromomethane	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	74-95-3	W
1,2-Dichlorobenzene	**<69.4**	ug/kg	93.8	69.4	1	05/08/09 09:09	05/08/09 18:19	95-50-1	W
1,3-Dichlorobenzene	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	541-73-1	W
1,4-Dichlorobenzene	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	106-46-7	W
Dichlorodifluoromethane	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	75-71-8	W
1,1-Dichloroethane	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	75-34-3	W
1,2-Dichloroethane	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	107-06-2	W
1,1-Dichloroethene	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	75-35-4	W
cis-1,2-Dichloroethene	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	156-59-2	W
trans-1,2-Dichloroethene	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	156-60-5	W
1,2-Dichloropropane	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	78-87-5	W
1,3-Dichloropropane	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	142-28-9	W
2,2-Dichloropropane	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	594-20-7	W
1,1-Dichloropropene	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	563-58-6	W
cis-1,3-Dichloropropene	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	10061-01-5	W
trans-1,3-Dichloropropene	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	10061-02-6	W
Diisopropyl ether	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	108-20-3	W
Ethylbenzene	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	100-41-4	W
Hexachloro-1,3-butadiene	**<41.2**	ug/kg	93.8	41.2	1	05/08/09 09:09	05/08/09 18:19	87-68-3	W
Isopropylbenzene (Cumene)	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	98-82-8	W
p-Isopropyltoluene	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	99-87-6	W
Methylene Chloride	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	75-09-2	W
Methyl-tert-butyl ether	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	1634-04-4	W
Naphthalene	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	91-20-3	W
n-Propylbenzene	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	103-65-1	W

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(920)469-2436

ANALYTICAL RESULTS

Project: LA HACIENDA
Pace Project No.: 4016991

Sample: GP-B 4-6 **Lab ID: 4016991001** Collected: 04/30/09 08:15 Received: 05/07/09 09:00 Matrix: Solid

Results reported on a "dry-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								
Styrene	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	100-42-5	W
1,1,1,2-Tetrachloroethane	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	630-20-6	W
1,1,2,2-Tetrachloroethane	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	79-34-5	W
Tetrachloroethene	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	127-18-4	W
Toluene	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	108-88-3	W
1,2,3-Trichlorobenzene	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	87-61-6	W
1,2,4-Trichlorobenzene	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	120-82-1	W
1,1,1-Trichloroethane	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	71-55-6	W
1,1,2-Trichloroethane	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	79-00-5	W
Trichloroethene	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	79-01-6	W
Trichlorofluoromethane	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	75-69-4	W
1,2,3-Trichloropropane	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	96-18-4	W
1,2,4-Trimethylbenzene	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	95-63-6	W
1,3,5-Trimethylbenzene	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	108-67-8	W
Vinyl chloride	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	75-01-4	W
m&p-Xylene	**<78.1**	ug/kg	188	78.1	1	05/08/09 09:09	05/08/09 18:19	1330-20-7	W
o-Xylene	**<39.1**	ug/kg	93.8	39.1	1	05/08/09 09:09	05/08/09 18:19	95-47-6	W
Dibromofluoromethane (S)	251	%	70-150		1	05/08/09 09:09	05/08/09 18:19	1868-53-7	1j
Toluene-d8 (S)	249	%	70-155		1	05/08/09 09:09	05/08/09 18:19	2037-26-5	1j
4-Bromofluorobenzene (S)	232	%	70-147		1	05/08/09 09:09	05/08/09 18:19	460-00-4	1j
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**21.2**	%	0.10	0.10	1		05/08/09 08:19		

Sample: GP-C 4-6 **Lab ID: 4016991002** Collected: 04/30/09 08:45 Received: 05/07/09 09:00 Matrix: Solid

Results reported on a "dry-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								
Benzene	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	71-43-2	W
Bromobenzene	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	108-86-1	W
Bromochloromethane	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	74-97-5	W
Bromodichloromethane	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	75-27-4	W
Bromoform	**<28.0**	ug/kg	64.9	28.0	1	05/08/09 09:09	05/08/09 18:42	75-25-2	W
Bromomethane	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	74-83-9	W
n-Butylbenzene	**<43.7**	ug/kg	64.9	43.7	1	05/08/09 09:09	05/08/09 18:42	104-51-8	W
sec-Butylbenzene	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	135-98-8	W
tert-Butylbenzene	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	98-06-6	W
Carbon tetrachloride	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	56-23-5	W
Chlorobenzene	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	108-90-7	W
Chloroethane	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	75-00-3	CC,L1, W
Chloroform	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	67-66-3	W

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ANALYTICAL RESULTS

Project: LA HACIENDA
Pace Project No.: 4016991

Sample: GP-C 4-6 **Lab ID: 4016991002** Collected: 04/30/09 08:45 Received: 05/07/09 09:00 Matrix: Solid

Results reported on a "dry-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								
Chloromethane	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	74-87-3	W
2-Chlorotoluene	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	95-49-8	W
4-Chlorotoluene	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	106-43-4	W
1,2-Dibromo-3-chloropropane	**<89.0**	ug/kg	270	89.0	1	05/08/09 09:09	05/08/09 18:42	96-12-8	W
Dibromochloromethane	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	124-48-1	W
1,2-Dibromoethane (EDB)	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	106-93-4	W
Dibromomethane	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	74-95-3	W
1,2-Dichlorobenzene	**<48.0**	ug/kg	64.9	48.0	1	05/08/09 09:09	05/08/09 18:42	95-50-1	W
1,3-Dichlorobenzene	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	541-73-1	W
1,4-Dichlorobenzene	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	106-46-7	W
Dichlorodifluoromethane	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	75-71-8	W
1,1-Dichloroethane	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	75-34-3	W
1,2-Dichloroethane	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	107-06-2	W
1,1-Dichloroethene	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	75-35-4	W
cis-1,2-Dichloroethene	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	156-59-2	W
trans-1,2-Dichloroethene	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	156-60-5	W
1,2-Dichloropropane	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	78-87-5	W
1,3-Dichloropropane	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	142-28-9	W
2,2-Dichloropropane	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	594-20-7	W
1,1-Dichloropropene	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	563-58-6	W
cis-1,3-Dichloropropene	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	10061-01-5	W
trans-1,3-Dichloropropene	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	10061-02-6	W
Diisopropyl ether	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	108-20-3	W
Ethylbenzene	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	100-41-4	W
Hexachloro-1,3-butadiene	**<28.5**	ug/kg	64.9	28.5	1	05/08/09 09:09	05/08/09 18:42	87-68-3	W
Isopropylbenzene (Cumene)	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	98-82-8	W
p-Isopropyltoluene	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	99-87-6	W
Methylene Chloride	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	75-09-2	W
Methyl-tert-butyl ether	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	1634-04-4	W
Naphthalene	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	91-20-3	W
n-Propylbenzene	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	103-65-1	W
Styrene	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	100-42-5	W
1,1,1,2-Tetrachloroethane	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	630-20-6	W
1,1,2,2-Tetrachloroethane	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	79-34-5	W
Tetrachloroethene	**325**	ug/kg	69.7	29.0	1	05/08/09 09:09	05/08/09 18:42	127-18-4	
Toluene	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	108-88-3	W
1,2,3-Trichlorobenzene	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	87-61-6	W
1,2,4-Trichlorobenzene	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	120-82-1	W
1,1,1-Trichloroethane	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	71-55-6	W
1,1,2-Trichloroethane	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	79-00-5	W
Trichloroethene	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	79-01-6	W
Trichlorofluoromethane	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	75-69-4	W
1,2,3-Trichloropropane	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	96-18-4	W
1,2,4-Trimethylbenzene	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	95-63-6	W
1,3,5-Trimethylbenzene	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	108-67-8	W

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

ANALYTICAL RESULTS

Project: LA HACIENDA
Pace Project No.: 4016991

Sample: GP-C 4-6 **Lab ID: 4016991002** Collected: 04/30/09 08:45 Received: 05/07/09 09:00 Matrix: Solid

Results reported on a "dry-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								
Vinyl chloride	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	75-01-4	W
m&p-Xylene	**<54.1**	ug/kg	130	54.1	1	05/08/09 09:09	05/08/09 18:42	1330-20-7	W
o-Xylene	**<27.0**	ug/kg	64.9	27.0	1	05/08/09 09:09	05/08/09 18:42	95-47-6	W
Dibromofluoromethane (S)	153	%	70-150		1	05/08/09 09:09	05/08/09 18:42	1868-53-7	1j
Toluene-d8 (S)	153	%	70-155		1	05/08/09 09:09	05/08/09 18:42	2037-26-5	
4-Bromofluorobenzene (S)	140	%	70-147		1	05/08/09 09:09	05/08/09 18:42	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**6.9**	%	0.10	0.10	1		05/08/09 08:19		

Sample: GP-D 4-7 **Lab ID: 4016991003** Collected: 04/30/09 09:15 Received: 05/07/09 09:00 Matrix: Solid

Results reported on a "dry-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								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	75-27-4	W
Bromoform	**<25.9**	ug/kg	60.0	25.9	1	05/08/09 09:09	05/08/09 19:05	75-25-2	W
Bromomethane	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	74-83-9	W
n-Butylbenzene	**<40.4**	ug/kg	60.0	40.4	1	05/08/09 09:09	05/08/09 19:05	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	108-90-7	W
Chloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	75-00-3	CC,L1, W
Chloroform	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	106-43-4	W
1,2-Dibromo-3-chloropropane	**<82.3**	ug/kg	250	82.3	1	05/08/09 09:09	05/08/09 19:05	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	74-95-3	W
1,2-Dichlorobenzene	**<44.4**	ug/kg	60.0	44.4	1	05/08/09 09:09	05/08/09 19:05	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	75-35-4	W

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LA HACIENDA
Pace Project No.: 4016991

Sample: GP-D 4-7 **Lab ID: 4016991003** Collected: 04/30/09 09:15 Received: 05/07/09 09:00 Matrix: Solid

Results reported on a "dry-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-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	100-41-4	W
Hexachloro-1,3-butadiene	**<26.4**	ug/kg	60.0	26.4	1	05/08/09 09:09	05/08/09 19:05	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	87-61-6	W
1,2,4-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	05/08/09 09:09	05/08/09 19:05	1330-20-7	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	05/08/09 09:09	05/08/09 19:05	95-47-6	W
Dibromofluoromethane (S)	125	%	70-150		1	05/08/09 09:09	05/08/09 19:05	1868-53-7	
Toluene-d8 (S)	121	%	70-155		1	05/08/09 09:09	05/08/09 19:05	2037-26-5	
4-Bromofluorobenzene (S)	104	%	70-147		1	05/08/09 09:09	05/08/09 19:05	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**26.3**	%	0.10	0.10	1		05/08/09 08:19		

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LA HACIENDA
Pace Project No.: 4016991

Sample: GP-2 SHALLOW **Lab ID: 4016991004** Collected: 04/30/09 11:15 Received: 05/07/09 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.41**	ug/L	1.0	0.41	1		05/08/09 16:18	71-43-2	
Bromobenzene	**<0.82**	ug/L	1.0	0.82	1		05/08/09 16:18	108-86-1	
Bromochloromethane	**<0.97**	ug/L	1.0	0.97	1		05/08/09 16:18	74-97-5	
Bromodichloromethane	**<0.56**	ug/L	1.0	0.56	1		05/08/09 16:18	75-27-4	
Bromoform	**<0.94**	ug/L	1.0	0.94	1		05/08/09 16:18	75-25-2	
Bromomethane	**<0.91**	ug/L	1.0	0.91	1		05/08/09 16:18	74-83-9	
n-Butylbenzene	**<0.93**	ug/L	1.0	0.93	1		05/08/09 16:18	104-51-8	
sec-Butylbenzene	**<0.89**	ug/L	5.0	0.89	1		05/08/09 16:18	135-98-8	
tert-Butylbenzene	**<0.97**	ug/L	1.0	0.97	1		05/08/09 16:18	98-06-6	
Carbon tetrachloride	**<0.49**	ug/L	1.0	0.49	1		05/08/09 16:18	56-23-5	
Chlorobenzene	**<0.41**	ug/L	1.0	0.41	1		05/08/09 16:18	108-90-7	
Chloroethane	**<0.97**	ug/L	1.0	0.97	1		05/08/09 16:18	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		05/08/09 16:18	67-66-3	
Chloromethane	**<0.24**	ug/L	1.0	0.24	1		05/08/09 16:18	74-87-3	
2-Chlorotoluene	**<0.85**	ug/L	1.0	0.85	1		05/08/09 16:18	95-49-8	
4-Chlorotoluene	**<0.74**	ug/L	1.0	0.74	1		05/08/09 16:18	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.7**	ug/L	5.0	1.7	1		05/08/09 16:18	96-12-8	
Dibromochloromethane	**<0.81**	ug/L	1.0	0.81	1		05/08/09 16:18	124-48-1	
1,2-Dibromoethane (EDB)	**<0.56**	ug/L	1.0	0.56	1		05/08/09 16:18	106-93-4	
Dibromomethane	**<0.60**	ug/L	1.0	0.60	1		05/08/09 16:18	74-95-3	
1,2-Dichlorobenzene	**<0.83**	ug/L	1.0	0.83	1		05/08/09 16:18	95-50-1	
1,3-Dichlorobenzene	**<0.87**	ug/L	1.0	0.87	1		05/08/09 16:18	541-73-1	
1,4-Dichlorobenzene	**<0.95**	ug/L	1.0	0.95	1		05/08/09 16:18	106-46-7	
Dichlorodifluoromethane	**<0.99**	ug/L	1.0	0.99	1		05/08/09 16:18	75-71-8	
1,1-Dichloroethane	**<0.75**	ug/L	1.0	0.75	1		05/08/09 16:18	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/L	1.0	0.36	1		05/08/09 16:18	107-06-2	
1,1-Dichloroethene	**<0.57**	ug/L	1.0	0.57	1		05/08/09 16:18	75-35-4	
cis-1,2-Dichloroethene	**<0.83**	ug/L	1.0	0.83	1		05/08/09 16:18	156-59-2	
trans-1,2-Dichloroethene	**<0.89**	ug/L	1.0	0.89	1		05/08/09 16:18	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/L	1.0	0.49	1		05/08/09 16:18	78-87-5	
1,3-Dichloropropane	**<0.61**	ug/L	1.0	0.61	1		05/08/09 16:18	142-28-9	
2,2-Dichloropropane	**<0.62**	ug/L	1.0	0.62	1		05/08/09 16:18	594-20-7	
1,1-Dichloropropene	**<0.75**	ug/L	1.0	0.75	1		05/08/09 16:18	563-58-6	
cis-1,3-Dichloropropene	**<0.20**	ug/L	1.0	0.20	1		05/08/09 16:18	10061-01-5	
trans-1,3-Dichloropropene	**<0.19**	ug/L	1.0	0.19	1		05/08/09 16:18	10061-02-6	
Diisopropyl ether	**<0.76**	ug/L	1.0	0.76	1		05/08/09 16:18	108-20-3	
Ethylbenzene	**<0.54**	ug/L	1.0	0.54	1		05/08/09 16:18	100-41-4	
Hexachloro-1,3-butadiene	**<0.67**	ug/L	5.0	0.67	1		05/08/09 16:18	87-68-3	
Isopropylbenzene (Cumene)	**<0.59**	ug/L	1.0	0.59	1		05/08/09 16:18	98-82-8	
p-Isopropyltoluene	**<0.67**	ug/L	1.0	0.67	1		05/08/09 16:18	99-87-6	
Methylene Chloride	**<0.43**	ug/L	1.0	0.43	1		05/08/09 16:18	75-09-2	
Methyl-tert-butyl ether	**<0.61**	ug/L	1.0	0.61	1		05/08/09 16:18	1634-04-4	
Naphthalene	**<0.89**	ug/L	5.0	0.89	1		05/08/09 16:18	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	1.0	0.81	1		05/08/09 16:18	103-65-1	
Styrene	**<0.86**	ug/L	1.0	0.86	1		05/08/09 16:18	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.92**	ug/L	1.0	0.92	1		05/08/09 16:18	630-20-6	

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(920)469-2436

ANALYTICAL RESULTS

Project: LA HACIENDA
Pace Project No.: 4016991

Sample: GP-2 SHALLOW **Lab ID: 4016991004** Collected: 04/30/09 11:15 Received: 05/07/09 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.20**	ug/L	1.0	0.20	1		05/08/09 16:18	79-34-5	
Tetrachloroethene	**<0.45**	ug/L	1.0	0.45	1		05/08/09 16:18	127-18-4	
Toluene	**<0.67**	ug/L	1.0	0.67	1		05/08/09 16:18	108-88-3	
1,2,3-Trichlorobenzene	**<0.74**	ug/L	1.0	0.74	1		05/08/09 16:18	87-61-6	
1,2,4-Trichlorobenzene	**<0.97**	ug/L	1.0	0.97	1		05/08/09 16:18	120-82-1	
1,1,1-Trichloroethane	**<0.90**	ug/L	1.0	0.90	1		05/08/09 16:18	71-55-6	
1,1,2-Trichloroethane	**<0.42**	ug/L	1.0	0.42	1		05/08/09 16:18	79-00-5	
Trichloroethene	**<0.48**	ug/L	1.0	0.48	1		05/08/09 16:18	79-01-6	
Trichlorofluoromethane	**<0.79**	ug/L	1.0	0.79	1		05/08/09 16:18	75-69-4	
1,2,3-Trichloropropane	**<0.99**	ug/L	1.0	0.99	1		05/08/09 16:18	96-18-4	
1,2,4-Trimethylbenzene	**<0.97**	ug/L	1.0	0.97	1		05/08/09 16:18	95-63-6	
1,3,5-Trimethylbenzene	**<0.83**	ug/L	1.0	0.83	1		05/08/09 16:18	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		05/08/09 16:18	75-01-4	
m&p-Xylene	**<1.8**	ug/L	2.0	1.8	1		05/08/09 16:18	1330-20-7	
o-Xylene	**<0.83**	ug/L	1.0	0.83	1		05/08/09 16:18	95-47-6	
4-Bromofluorobenzene (S)	96	%	70-130		1		05/08/09 16:18	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		05/08/09 16:18	1868-53-7	
Toluene-d8 (S)	106	%	70-130		1		05/08/09 16:18	2037-26-5	

Sample: GP-2 DEEP **Lab ID: 4016991005** Collected: 04/30/09 11:45 Received: 05/07/09 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.41**	ug/L	1.0	0.41	1		05/08/09 15:55	71-43-2	
Bromobenzene	**<0.82**	ug/L	1.0	0.82	1		05/08/09 15:55	108-86-1	
Bromochloromethane	**<0.97**	ug/L	1.0	0.97	1		05/08/09 15:55	74-97-5	
Bromodichloromethane	**<0.56**	ug/L	1.0	0.56	1		05/08/09 15:55	75-27-4	
Bromoform	**<0.94**	ug/L	1.0	0.94	1		05/08/09 15:55	75-25-2	
Bromomethane	**<0.91**	ug/L	1.0	0.91	1		05/08/09 15:55	74-83-9	
n-Butylbenzene	**<0.93**	ug/L	1.0	0.93	1		05/08/09 15:55	104-51-8	
sec-Butylbenzene	**<0.89**	ug/L	5.0	0.89	1		05/08/09 15:55	135-98-8	
tert-Butylbenzene	**<0.97**	ug/L	1.0	0.97	1		05/08/09 15:55	98-06-6	
Carbon tetrachloride	**<0.49**	ug/L	1.0	0.49	1		05/08/09 15:55	56-23-5	
Chlorobenzene	**<0.41**	ug/L	1.0	0.41	1		05/08/09 15:55	108-90-7	
Chloroethane	**<0.97**	ug/L	1.0	0.97	1		05/08/09 15:55	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		05/08/09 15:55	67-66-3	
Chloromethane	**<0.24**	ug/L	1.0	0.24	1		05/08/09 15:55	74-87-3	
2-Chlorotoluene	**<0.85**	ug/L	1.0	0.85	1		05/08/09 15:55	95-49-8	
4-Chlorotoluene	**<0.74**	ug/L	1.0	0.74	1		05/08/09 15:55	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.7**	ug/L	5.0	1.7	1		05/08/09 15:55	96-12-8	
Dibromochloromethane	**<0.81**	ug/L	1.0	0.81	1		05/08/09 15:55	124-48-1	
1,2-Dibromoethane (EDB)	**<0.56**	ug/L	1.0	0.56	1		05/08/09 15:55	106-93-4	
Dibromomethane	**<0.60**	ug/L	1.0	0.60	1		05/08/09 15:55	74-95-3	

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ANALYTICAL RESULTS

Project: LA HACIENDA
Pace Project No.: 4016991

Sample: GP-2 DEEP **Lab ID: 4016991005** Collected: 04/30/09 11:45 Received: 05/07/09 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2-Dichlorobenzene	**<0.83**	ug/L	1.0	0.83	1		05/08/09 15:55	95-50-1	
1,3-Dichlorobenzene	**<0.87**	ug/L	1.0	0.87	1		05/08/09 15:55	541-73-1	
1,4-Dichlorobenzene	**<0.95**	ug/L	1.0	0.95	1		05/08/09 15:55	106-46-7	
Dichlorodifluoromethane	**<0.99**	ug/L	1.0	0.99	1		05/08/09 15:55	75-71-8	
1,1-Dichloroethane	**<0.75**	ug/L	1.0	0.75	1		05/08/09 15:55	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/L	1.0	0.36	1		05/08/09 15:55	107-06-2	
1,1-Dichloroethene	**<0.57**	ug/L	1.0	0.57	1		05/08/09 15:55	75-35-4	
cis-1,2-Dichloroethene	**<0.83**	ug/L	1.0	0.83	1		05/08/09 15:55	156-59-2	
trans-1,2-Dichloroethene	**<0.89**	ug/L	1.0	0.89	1		05/08/09 15:55	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/L	1.0	0.49	1		05/08/09 15:55	78-87-5	
1,3-Dichloropropane	**<0.61**	ug/L	1.0	0.61	1		05/08/09 15:55	142-28-9	
2,2-Dichloropropane	**<0.62**	ug/L	1.0	0.62	1		05/08/09 15:55	594-20-7	
1,1-Dichloropropene	**<0.75**	ug/L	1.0	0.75	1		05/08/09 15:55	563-58-6	
cis-1,3-Dichloropropene	**<0.20**	ug/L	1.0	0.20	1		05/08/09 15:55	10061-01-5	
trans-1,3-Dichloropropene	**<0.19**	ug/L	1.0	0.19	1		05/08/09 15:55	10061-02-6	
Diisopropyl ether	**<0.76**	ug/L	1.0	0.76	1		05/08/09 15:55	108-20-3	
Ethylbenzene	**<0.54**	ug/L	1.0	0.54	1		05/08/09 15:55	100-41-4	
Hexachloro-1,3-butadiene	**<0.67**	ug/L	5.0	0.67	1		05/08/09 15:55	87-68-3	
Isopropylbenzene (Cumene)	**<0.59**	ug/L	1.0	0.59	1		05/08/09 15:55	98-82-8	
p-Isopropyltoluene	**<0.67**	ug/L	1.0	0.67	1		05/08/09 15:55	99-87-6	
Methylene Chloride	**<0.43**	ug/L	1.0	0.43	1		05/08/09 15:55	75-09-2	
Methyl-tert-butyl ether	**<0.61**	ug/L	1.0	0.61	1		05/08/09 15:55	1634-04-4	
Naphthalene	**<0.89**	ug/L	5.0	0.89	1		05/08/09 15:55	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	1.0	0.81	1		05/08/09 15:55	103-65-1	
Styrene	**<0.86**	ug/L	1.0	0.86	1		05/08/09 15:55	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.92**	ug/L	1.0	0.92	1		05/08/09 15:55	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.20**	ug/L	1.0	0.20	1		05/08/09 15:55	79-34-5	
Tetrachloroethene	**<0.45**	ug/L	1.0	0.45	1		05/08/09 15:55	127-18-4	
Toluene	**<0.67**	ug/L	1.0	0.67	1		05/08/09 15:55	108-88-3	
1,2,3-Trichlorobenzene	**<0.74**	ug/L	1.0	0.74	1		05/08/09 15:55	87-61-6	
1,2,4-Trichlorobenzene	**<0.97**	ug/L	1.0	0.97	1		05/08/09 15:55	120-82-1	
1,1,1-Trichloroethane	**<0.90**	ug/L	1.0	0.90	1		05/08/09 15:55	71-55-6	
1,1,2-Trichloroethane	**<0.42**	ug/L	1.0	0.42	1		05/08/09 15:55	79-00-5	
Trichloroethene	**<0.48**	ug/L	1.0	0.48	1		05/08/09 15:55	79-01-6	
Trichlorofluoromethane	**<0.79**	ug/L	1.0	0.79	1		05/08/09 15:55	75-69-4	
1,2,3-Trichloropropane	**<0.99**	ug/L	1.0	0.99	1		05/08/09 15:55	96-18-4	
1,2,4-Trimethylbenzene	**<0.97**	ug/L	1.0	0.97	1		05/08/09 15:55	95-63-6	
1,3,5-Trimethylbenzene	**<0.83**	ug/L	1.0	0.83	1		05/08/09 15:55	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		05/08/09 15:55	75-01-4	
m&p-Xylene	**<1.8**	ug/L	2.0	1.8	1		05/08/09 15:55	1330-20-7	
o-Xylene	**<0.83**	ug/L	1.0	0.83	1		05/08/09 15:55	95-47-6	
4-Bromofluorobenzene (S)	98	%	70-130		1		05/08/09 15:55	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		05/08/09 15:55	1868-53-7	
Toluene-d8 (S)	106	%	70-130		1		05/08/09 15:55	2037-26-5	

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ANALYTICAL RESULTS

Project: LA HACIENDA
Pace Project No.: 4016991

Sample: GP-4 SHALLOW **Lab ID: 4016991006** Collected: 04/30/09 12:15 Received: 05/07/09 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**296**	ug/L	5.0	2.0	5		05/08/09 17:52	71-43-2	
Bromobenzene	**<4.1**	ug/L	5.0	4.1	5		05/08/09 17:52	108-86-1	
Bromochloromethane	**<4.8**	ug/L	5.0	4.8	5		05/08/09 17:52	74-97-5	
Bromodichloromethane	**<2.8**	ug/L	5.0	2.8	5		05/08/09 17:52	75-27-4	
Bromoform	**<4.7**	ug/L	5.0	4.7	5		05/08/09 17:52	75-25-2	
Bromomethane	**<4.6**	ug/L	5.0	4.6	5		05/08/09 17:52	74-83-9	
n-Butylbenzene	**<4.6**	ug/L	5.0	4.6	5		05/08/09 17:52	104-51-8	
sec-Butylbenzene	**<4.4**	ug/L	25.0	4.4	5		05/08/09 17:52	135-98-8	
tert-Butylbenzene	**<4.8**	ug/L	5.0	4.8	5		05/08/09 17:52	98-06-6	
Carbon tetrachloride	**<2.4**	ug/L	5.0	2.4	5		05/08/09 17:52	56-23-5	
Chlorobenzene	**<2.0**	ug/L	5.0	2.0	5		05/08/09 17:52	108-90-7	
Chloroethane	**<4.8**	ug/L	5.0	4.8	5		05/08/09 17:52	75-00-3	
Chloroform	**<6.5**	ug/L	25.0	6.5	5		05/08/09 17:52	67-66-3	
Chloromethane	**<1.2**	ug/L	5.0	1.2	5		05/08/09 17:52	74-87-3	
2-Chlorotoluene	**<4.2**	ug/L	5.0	4.2	5		05/08/09 17:52	95-49-8	
4-Chlorotoluene	**<3.7**	ug/L	5.0	3.7	5		05/08/09 17:52	106-43-4	
1,2-Dibromo-3-chloropropane	**<8.4**	ug/L	25.0	8.4	5		05/08/09 17:52	96-12-8	
Dibromochloromethane	**<4.0**	ug/L	5.0	4.0	5		05/08/09 17:52	124-48-1	
1,2-Dibromoethane (EDB)	**<2.8**	ug/L	5.0	2.8	5		05/08/09 17:52	106-93-4	
Dibromomethane	**<3.0**	ug/L	5.0	3.0	5		05/08/09 17:52	74-95-3	
1,2-Dichlorobenzene	**<4.2**	ug/L	5.0	4.2	5		05/08/09 17:52	95-50-1	
1,3-Dichlorobenzene	**<4.4**	ug/L	5.0	4.4	5		05/08/09 17:52	541-73-1	
1,4-Dichlorobenzene	**<4.8**	ug/L	5.0	4.8	5		05/08/09 17:52	106-46-7	
Dichlorodifluoromethane	**<5.0**	ug/L	5.0	5.0	5		05/08/09 17:52	75-71-8	
1,1-Dichloroethane	**<3.8**	ug/L	5.0	3.8	5		05/08/09 17:52	75-34-3	
1,2-Dichloroethane	**<1.8**	ug/L	5.0	1.8	5		05/08/09 17:52	107-06-2	
1,1-Dichloroethene	**<2.8**	ug/L	5.0	2.8	5		05/08/09 17:52	75-35-4	
cis-1,2-Dichloroethene	**<4.2**	ug/L	5.0	4.2	5		05/08/09 17:52	156-59-2	
trans-1,2-Dichloroethene	**<4.4**	ug/L	5.0	4.4	5		05/08/09 17:52	156-60-5	
1,2-Dichloropropane	**<2.4**	ug/L	5.0	2.4	5		05/08/09 17:52	78-87-5	
1,3-Dichloropropane	**<3.0**	ug/L	5.0	3.0	5		05/08/09 17:52	142-28-9	
2,2-Dichloropropane	**<3.1**	ug/L	5.0	3.1	5		05/08/09 17:52	594-20-7	
1,1-Dichloropropene	**<3.8**	ug/L	5.0	3.8	5		05/08/09 17:52	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	5.0	1.0	5		05/08/09 17:52	10061-01-5	
trans-1,3-Dichloropropene	**<0.95**	ug/L	5.0	0.95	5		05/08/09 17:52	10061-02-6	
Diisopropyl ether	**<3.8**	ug/L	5.0	3.8	5		05/08/09 17:52	108-20-3	
Ethylbenzene	**2.7J**	ug/L	5.0	2.7	5		05/08/09 17:52	100-41-4	
Hexachloro-1,3-butadiene	**<3.4**	ug/L	25.0	3.4	5		05/08/09 17:52	87-68-3	
Isopropylbenzene (Cumene)	**8.7**	ug/L	5.0	3.0	5		05/08/09 17:52	98-82-8	
p-Isopropyltoluene	**<3.4**	ug/L	5.0	3.4	5		05/08/09 17:52	99-87-6	
Methylene Chloride	**<2.2**	ug/L	5.0	2.2	5		05/08/09 17:52	75-09-2	
Methyl-tert-butyl ether	**4.1J**	ug/L	5.0	3.0	5		05/08/09 17:52	1634-04-4	
Naphthalene	**<4.4**	ug/L	25.0	4.4	5		05/08/09 17:52	91-20-3	
n-Propylbenzene	**11.8**	ug/L	5.0	4.0	5		05/08/09 17:52	103-65-1	
Styrene	**<4.3**	ug/L	5.0	4.3	5		05/08/09 17:52	100-42-5	
1,1,1,2-Tetrachloroethane	**<4.6**	ug/L	5.0	4.6	5		05/08/09 17:52	630-20-6	

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ANALYTICAL RESULTS

Project: LA HACIENDA
Pace Project No.: 4016991

Sample: GP-4 SHALLOW **Lab ID: 4016991006** Collected: 04/30/09 12:15 Received: 05/07/09 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	5.0	1.0	5		05/08/09 17:52	79-34-5	
Tetrachloroethene	**<2.2**	ug/L	5.0	2.2	5		05/08/09 17:52	127-18-4	
Toluene	**9.5**	ug/L	5.0	3.4	5		05/08/09 17:52	108-88-3	
1,2,3-Trichlorobenzene	**<3.7**	ug/L	5.0	3.7	5		05/08/09 17:52	87-61-6	
1,2,4-Trichlorobenzene	**<4.8**	ug/L	5.0	4.8	5		05/08/09 17:52	120-82-1	
1,1,1-Trichloroethane	**<4.5**	ug/L	5.0	4.5	5		05/08/09 17:52	71-55-6	
1,1,2-Trichloroethane	**<2.1**	ug/L	5.0	2.1	5		05/08/09 17:52	79-00-5	
Trichloroethene	**<2.4**	ug/L	5.0	2.4	5		05/08/09 17:52	79-01-6	
Trichlorofluoromethane	**<4.0**	ug/L	5.0	4.0	5		05/08/09 17:52	75-69-4	
1,2,3-Trichloropropane	**<5.0**	ug/L	5.0	5.0	5		05/08/09 17:52	96-18-4	
1,2,4-Trimethylbenzene	**<4.8**	ug/L	5.0	4.8	5		05/08/09 17:52	95-63-6	
1,3,5-Trimethylbenzene	**<4.2**	ug/L	5.0	4.2	5		05/08/09 17:52	108-67-8	
Vinyl chloride	**<0.90**	ug/L	5.0	0.90	5		05/08/09 17:52	75-01-4	
m&p-Xylene	**<9.0**	ug/L	10.0	9.0	5		05/08/09 17:52	1330-20-7	
o-Xylene	**<4.2**	ug/L	5.0	4.2	5		05/08/09 17:52	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130		5		05/08/09 17:52	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		5		05/08/09 17:52	1868-53-7	
Toluene-d8 (S)	105	%	70-130		5		05/08/09 17:52	2037-26-5	

Sample: GP-4 DEEP **Lab ID: 4016991007** Collected: 04/30/09 12:45 Received: 05/07/09 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<1.0**	ug/L	2.5	1.0	2.5		05/08/09 17:29	71-43-2	
Bromobenzene	**<2.0**	ug/L	2.5	2.0	2.5		05/08/09 17:29	108-86-1	
Bromochloromethane	**<2.4**	ug/L	2.5	2.4	2.5		05/08/09 17:29	74-97-5	
Bromodichloromethane	**<1.4**	ug/L	2.5	1.4	2.5		05/08/09 17:29	75-27-4	
Bromoform	**<2.4**	ug/L	2.5	2.4	2.5		05/08/09 17:29	75-25-2	
Bromomethane	**<2.3**	ug/L	2.5	2.3	2.5		05/08/09 17:29	74-83-9	
n-Butylbenzene	**<2.3**	ug/L	2.5	2.3	2.5		05/08/09 17:29	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	12.5	2.2	2.5		05/08/09 17:29	135-98-8	
tert-Butylbenzene	**<2.4**	ug/L	2.5	2.4	2.5		05/08/09 17:29	98-06-6	
Carbon tetrachloride	**<1.2**	ug/L	2.5	1.2	2.5		05/08/09 17:29	56-23-5	
Chlorobenzene	**<1.0**	ug/L	2.5	1.0	2.5		05/08/09 17:29	108-90-7	
Chloroethane	**<2.4**	ug/L	2.5	2.4	2.5		05/08/09 17:29	75-00-3	
Chloroform	**<3.2**	ug/L	12.5	3.2	2.5		05/08/09 17:29	67-66-3	
Chloromethane	**<0.60**	ug/L	2.5	0.60	2.5		05/08/09 17:29	74-87-3	
2-Chlorotoluene	**<2.1**	ug/L	2.5	2.1	2.5		05/08/09 17:29	95-49-8	
4-Chlorotoluene	**<1.8**	ug/L	2.5	1.8	2.5		05/08/09 17:29	106-43-4	
1,2-Dibromo-3-chloropropane	**<4.2**	ug/L	12.5	4.2	2.5		05/08/09 17:29	96-12-8	
Dibromochloromethane	**<2.0**	ug/L	2.5	2.0	2.5		05/08/09 17:29	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/L	2.5	1.4	2.5		05/08/09 17:29	106-93-4	
Dibromomethane	**<1.5**	ug/L	2.5	1.5	2.5		05/08/09 17:29	74-95-3	

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ANALYTICAL RESULTS

Project: LA HACIENDA
Pace Project No.: 4016991

Sample: GP-4 DEEP **Lab ID: 4016991007** Collected: 04/30/09 12:45 Received: 05/07/09 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2-Dichlorobenzene	**<2.1**	ug/L	2.5	2.1	2.5		05/08/09 17:29	95-50-1	
1,3-Dichlorobenzene	**<2.2**	ug/L	2.5	2.2	2.5		05/08/09 17:29	541-73-1	
1,4-Dichlorobenzene	**<2.4**	ug/L	2.5	2.4	2.5		05/08/09 17:29	106-46-7	
Dichlorodifluoromethane	**<2.5**	ug/L	2.5	2.5	2.5		05/08/09 17:29	75-71-8	
1,1-Dichloroethane	**<1.9**	ug/L	2.5	1.9	2.5		05/08/09 17:29	75-34-3	
1,2-Dichloroethane	**<0.90**	ug/L	2.5	0.90	2.5		05/08/09 17:29	107-06-2	
1,1-Dichloroethene	**<1.4**	ug/L	2.5	1.4	2.5		05/08/09 17:29	75-35-4	
cis-1,2-Dichloroethene	**153**	ug/L	2.5	2.1	2.5		05/08/09 17:29	156-59-2	
trans-1,2-Dichloroethene	**4.1**	ug/L	2.5	2.2	2.5		05/08/09 17:29	156-60-5	
1,2-Dichloropropane	**<1.2**	ug/L	2.5	1.2	2.5		05/08/09 17:29	78-87-5	
1,3-Dichloropropane	**<1.5**	ug/L	2.5	1.5	2.5		05/08/09 17:29	142-28-9	
2,2-Dichloropropane	**<1.6**	ug/L	2.5	1.6	2.5		05/08/09 17:29	594-20-7	
1,1-Dichloropropene	**<1.9**	ug/L	2.5	1.9	2.5		05/08/09 17:29	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	2.5	0.50	2.5		05/08/09 17:29	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/L	2.5	0.48	2.5		05/08/09 17:29	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	2.5	1.9	2.5		05/08/09 17:29	108-20-3	
Ethylbenzene	**<1.4**	ug/L	2.5	1.4	2.5		05/08/09 17:29	100-41-4	
Hexachloro-1,3-butadiene	**<1.7**	ug/L	12.5	1.7	2.5		05/08/09 17:29	87-68-3	
Isopropylbenzene (Cumene)	**<1.5**	ug/L	2.5	1.5	2.5		05/08/09 17:29	98-82-8	
p-Isopropyltoluene	**<1.7**	ug/L	2.5	1.7	2.5		05/08/09 17:29	99-87-6	
Methylene Chloride	**<1.1**	ug/L	2.5	1.1	2.5		05/08/09 17:29	75-09-2	
Methyl-tert-butyl ether	**<1.5**	ug/L	2.5	1.5	2.5		05/08/09 17:29	1634-04-4	
Naphthalene	**<2.2**	ug/L	12.5	2.2	2.5		05/08/09 17:29	91-20-3	
n-Propylbenzene	**<2.0**	ug/L	2.5	2.0	2.5		05/08/09 17:29	103-65-1	
Styrene	**<2.2**	ug/L	2.5	2.2	2.5		05/08/09 17:29	100-42-5	
1,1,1,2-Tetrachloroethane	**<2.3**	ug/L	2.5	2.3	2.5		05/08/09 17:29	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.50**	ug/L	2.5	0.50	2.5		05/08/09 17:29	79-34-5	
Tetrachloroethene	**6.6**	ug/L	2.5	1.1	2.5		05/08/09 17:29	127-18-4	
Toluene	**<1.7**	ug/L	2.5	1.7	2.5		05/08/09 17:29	108-88-3	
1,2,3-Trichlorobenzene	**<1.8**	ug/L	2.5	1.8	2.5		05/08/09 17:29	87-61-6	
1,2,4-Trichlorobenzene	**<2.4**	ug/L	2.5	2.4	2.5		05/08/09 17:29	120-82-1	
1,1,1-Trichloroethane	**<2.2**	ug/L	2.5	2.2	2.5		05/08/09 17:29	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	2.5	1.0	2.5		05/08/09 17:29	79-00-5	
Trichloroethene	**2.5**	ug/L	2.5	1.2	2.5		05/08/09 17:29	79-01-6	
Trichlorofluoromethane	**<2.0**	ug/L	2.5	2.0	2.5		05/08/09 17:29	75-69-4	
1,2,3-Trichloropropane	**<2.5**	ug/L	2.5	2.5	2.5		05/08/09 17:29	96-18-4	
1,2,4-Trimethylbenzene	**<2.4**	ug/L	2.5	2.4	2.5		05/08/09 17:29	95-63-6	
1,3,5-Trimethylbenzene	**<2.1**	ug/L	2.5	2.1	2.5		05/08/09 17:29	108-67-8	
Vinyl chloride	**<0.45**	ug/L	2.5	0.45	2.5		05/08/09 17:29	75-01-4	
m&p-Xylene	**<4.5**	ug/L	5.0	4.5	2.5		05/08/09 17:29	1330-20-7	
o-Xylene	**<2.1**	ug/L	2.5	2.1	2.5		05/08/09 17:29	95-47-6	
4-Bromofluorobenzene (S)	98	%	70-130		2.5		05/08/09 17:29	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		2.5		05/08/09 17:29	1868-53-7	
Toluene-d8 (S)	106	%	70-130		2.5		05/08/09 17:29	2037-26-5	

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ANALYTICAL RESULTS

Project: LA HACIENDA
Pace Project No.: 4016991

Sample: GP-1 SHALLOW **Lab ID: 4016991008** Collected: 04/30/09 13:15 Received: 05/07/09 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.41**	ug/L	1.0	0.41	1		05/08/09 16:42	71-43-2	
Bromobenzene	**<0.82**	ug/L	1.0	0.82	1		05/08/09 16:42	108-86-1	
Bromochloromethane	**<0.97**	ug/L	1.0	0.97	1		05/08/09 16:42	74-97-5	
Bromodichloromethane	**<0.56**	ug/L	1.0	0.56	1		05/08/09 16:42	75-27-4	
Bromoform	**<0.94**	ug/L	1.0	0.94	1		05/08/09 16:42	75-25-2	
Bromomethane	**<0.91**	ug/L	1.0	0.91	1		05/08/09 16:42	74-83-9	
n-Butylbenzene	**<0.93**	ug/L	1.0	0.93	1		05/08/09 16:42	104-51-8	
sec-Butylbenzene	**<0.89**	ug/L	5.0	0.89	1		05/08/09 16:42	135-98-8	
tert-Butylbenzene	**<0.97**	ug/L	1.0	0.97	1		05/08/09 16:42	98-06-6	
Carbon tetrachloride	**<0.49**	ug/L	1.0	0.49	1		05/08/09 16:42	56-23-5	
Chlorobenzene	**<0.41**	ug/L	1.0	0.41	1		05/08/09 16:42	108-90-7	
Chloroethane	**<0.97**	ug/L	1.0	0.97	1		05/08/09 16:42	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		05/08/09 16:42	67-66-3	
Chloromethane	**<0.24**	ug/L	1.0	0.24	1		05/08/09 16:42	74-87-3	
2-Chlorotoluene	**<0.85**	ug/L	1.0	0.85	1		05/08/09 16:42	95-49-8	
4-Chlorotoluene	**<0.74**	ug/L	1.0	0.74	1		05/08/09 16:42	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.7**	ug/L	5.0	1.7	1		05/08/09 16:42	96-12-8	
Dibromochloromethane	**<0.81**	ug/L	1.0	0.81	1		05/08/09 16:42	124-48-1	
1,2-Dibromoethane (EDB)	**<0.56**	ug/L	1.0	0.56	1		05/08/09 16:42	106-93-4	
Dibromomethane	**<0.60**	ug/L	1.0	0.60	1		05/08/09 16:42	74-95-3	
1,2-Dichlorobenzene	**<0.83**	ug/L	1.0	0.83	1		05/08/09 16:42	95-50-1	
1,3-Dichlorobenzene	**<0.87**	ug/L	1.0	0.87	1		05/08/09 16:42	541-73-1	
1,4-Dichlorobenzene	**<0.95**	ug/L	1.0	0.95	1		05/08/09 16:42	106-46-7	
Dichlorodifluoromethane	**<0.99**	ug/L	1.0	0.99	1		05/08/09 16:42	75-71-8	
1,1-Dichloroethane	**<0.75**	ug/L	1.0	0.75	1		05/08/09 16:42	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/L	1.0	0.36	1		05/08/09 16:42	107-06-2	
1,1-Dichloroethene	**<0.57**	ug/L	1.0	0.57	1		05/08/09 16:42	75-35-4	
cis-1,2-Dichloroethene	**1.3**	ug/L	1.0	0.83	1		05/08/09 16:42	156-59-2	
trans-1,2-Dichloroethene	**<0.89**	ug/L	1.0	0.89	1		05/08/09 16:42	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/L	1.0	0.49	1		05/08/09 16:42	78-87-5	
1,3-Dichloropropane	**<0.61**	ug/L	1.0	0.61	1		05/08/09 16:42	142-28-9	
2,2-Dichloropropane	**<0.62**	ug/L	1.0	0.62	1		05/08/09 16:42	594-20-7	
1,1-Dichloropropene	**<0.75**	ug/L	1.0	0.75	1		05/08/09 16:42	563-58-6	
cis-1,3-Dichloropropene	**<0.20**	ug/L	1.0	0.20	1		05/08/09 16:42	10061-01-5	
trans-1,3-Dichloropropene	**<0.19**	ug/L	1.0	0.19	1		05/08/09 16:42	10061-02-6	
Diisopropyl ether	**<0.76**	ug/L	1.0	0.76	1		05/08/09 16:42	108-20-3	
Ethylbenzene	**<0.54**	ug/L	1.0	0.54	1		05/08/09 16:42	100-41-4	
Hexachloro-1,3-butadiene	**<0.67**	ug/L	5.0	0.67	1		05/08/09 16:42	87-68-3	
Isopropylbenzene (Cumene)	**<0.59**	ug/L	1.0	0.59	1		05/08/09 16:42	98-82-8	
p-Isopropyltoluene	**<0.67**	ug/L	1.0	0.67	1		05/08/09 16:42	99-87-6	
Methylene Chloride	**<0.43**	ug/L	1.0	0.43	1		05/08/09 16:42	75-09-2	
Methyl-tert-butyl ether	**<0.61**	ug/L	1.0	0.61	1		05/08/09 16:42	1634-04-4	
Naphthalene	**<0.89**	ug/L	5.0	0.89	1		05/08/09 16:42	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	1.0	0.81	1		05/08/09 16:42	103-65-1	
Styrene	**<0.86**	ug/L	1.0	0.86	1		05/08/09 16:42	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.92**	ug/L	1.0	0.92	1		05/08/09 16:42	630-20-6	

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ANALYTICAL RESULTS

Project: LA HACIENDA
Pace Project No.: 4016991

Sample: GP-1 SHALLOW **Lab ID: 4016991008** Collected: 04/30/09 13:15 Received: 05/07/09 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.20**	ug/L	1.0	0.20	1		05/08/09 16:42	79-34-5	
Tetrachloroethene	**<0.45**	ug/L	1.0	0.45	1		05/08/09 16:42	127-18-4	
Toluene	**<0.67**	ug/L	1.0	0.67	1		05/08/09 16:42	108-88-3	
1,2,3-Trichlorobenzene	**<0.74**	ug/L	1.0	0.74	1		05/08/09 16:42	87-61-6	
1,2,4-Trichlorobenzene	**<0.97**	ug/L	1.0	0.97	1		05/08/09 16:42	120-82-1	
1,1,1-Trichloroethane	**<0.90**	ug/L	1.0	0.90	1		05/08/09 16:42	71-55-6	
1,1,2-Trichloroethane	**<0.42**	ug/L	1.0	0.42	1		05/08/09 16:42	79-00-5	
Trichloroethene	**<0.48**	ug/L	1.0	0.48	1		05/08/09 16:42	79-01-6	
Trichlorofluoromethane	**<0.79**	ug/L	1.0	0.79	1		05/08/09 16:42	75-69-4	
1,2,3-Trichloropropane	**<0.99**	ug/L	1.0	0.99	1		05/08/09 16:42	96-18-4	
1,2,4-Trimethylbenzene	**<0.97**	ug/L	1.0	0.97	1		05/08/09 16:42	95-63-6	
1,3,5-Trimethylbenzene	**<0.83**	ug/L	1.0	0.83	1		05/08/09 16:42	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		05/08/09 16:42	75-01-4	
m&p-Xylene	**<1.8**	ug/L	2.0	1.8	1		05/08/09 16:42	1330-20-7	
o-Xylene	**<0.83**	ug/L	1.0	0.83	1		05/08/09 16:42	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130		1		05/08/09 16:42	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		05/08/09 16:42	1868-53-7	
Toluene-d8 (S)	107	%	70-130		1		05/08/09 16:42	2037-26-5	

Sample: GP-1 DEEP **Lab ID: 4016991009** Collected: 04/30/09 13:45 Received: 05/07/09 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<16.4**	ug/L	40.0	16.4	40		05/08/09 18:16	71-43-2	
Bromobenzene	**<32.8**	ug/L	40.0	32.8	40		05/08/09 18:16	108-86-1	
Bromochloromethane	**<38.8**	ug/L	40.0	38.8	40		05/08/09 18:16	74-97-5	
Bromodichloromethane	**<22.4**	ug/L	40.0	22.4	40		05/08/09 18:16	75-27-4	
Bromoform	**<37.6**	ug/L	40.0	37.6	40		05/08/09 18:16	75-25-2	
Bromomethane	**<36.4**	ug/L	40.0	36.4	40		05/08/09 18:16	74-83-9	
n-Butylbenzene	**<37.2**	ug/L	40.0	37.2	40		05/08/09 18:16	104-51-8	
sec-Butylbenzene	**<35.6**	ug/L	200	35.6	40		05/08/09 18:16	135-98-8	
tert-Butylbenzene	**<38.8**	ug/L	40.0	38.8	40		05/08/09 18:16	98-06-6	
Carbon tetrachloride	**<19.6**	ug/L	40.0	19.6	40		05/08/09 18:16	56-23-5	
Chlorobenzene	**<16.4**	ug/L	40.0	16.4	40		05/08/09 18:16	108-90-7	
Chloroethane	**<38.8**	ug/L	40.0	38.8	40		05/08/09 18:16	75-00-3	
Chloroform	**<52.0**	ug/L	200	52.0	40		05/08/09 18:16	67-66-3	
Chloromethane	**<9.6**	ug/L	40.0	9.6	40		05/08/09 18:16	74-87-3	
2-Chlorotoluene	**<34.0**	ug/L	40.0	34.0	40		05/08/09 18:16	95-49-8	
4-Chlorotoluene	**<29.6**	ug/L	40.0	29.6	40		05/08/09 18:16	106-43-4	
1,2-Dibromo-3-chloropropane	**<67.2**	ug/L	200	67.2	40		05/08/09 18:16	96-12-8	
Dibromochloromethane	**<32.4**	ug/L	40.0	32.4	40		05/08/09 18:16	124-48-1	
1,2-Dibromoethane (EDB)	**<22.4**	ug/L	40.0	22.4	40		05/08/09 18:16	106-93-4	
Dibromomethane	**<24.0**	ug/L	40.0	24.0	40		05/08/09 18:16	74-95-3	

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ANALYTICAL RESULTS

Project: LA HACIENDA
Pace Project No.: 4016991

Sample: GP-1 DEEP **Lab ID: 4016991009** Collected: 04/30/09 13:45 Received: 05/07/09 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2-Dichlorobenzene	**<33.2**	ug/L	40.0	33.2	40		05/08/09 18:16	95-50-1	
1,3-Dichlorobenzene	**<34.8**	ug/L	40.0	34.8	40		05/08/09 18:16	541-73-1	
1,4-Dichlorobenzene	**<38.0**	ug/L	40.0	38.0	40		05/08/09 18:16	106-46-7	
Dichlorodifluoromethane	**<39.6**	ug/L	40.0	39.6	40		05/08/09 18:16	75-71-8	
1,1-Dichloroethane	**<30.0**	ug/L	40.0	30.0	40		05/08/09 18:16	75-34-3	
1,2-Dichloroethane	**<14.4**	ug/L	40.0	14.4	40		05/08/09 18:16	107-06-2	
1,1-Dichloroethene	**<22.8**	ug/L	40.0	22.8	40		05/08/09 18:16	75-35-4	
cis-1,2-Dichloroethene	**4170**	ug/L	40.0	33.2	40		05/08/09 18:16	156-59-2	
trans-1,2-Dichloroethene	**168**	ug/L	40.0	35.6	40		05/08/09 18:16	156-60-5	
1,2-Dichloropropane	**<19.6**	ug/L	40.0	19.6	40		05/08/09 18:16	78-87-5	
1,3-Dichloropropane	**<24.4**	ug/L	40.0	24.4	40		05/08/09 18:16	142-28-9	
2,2-Dichloropropane	**<24.8**	ug/L	40.0	24.8	40		05/08/09 18:16	594-20-7	
1,1-Dichloropropene	**<30.0**	ug/L	40.0	30.0	40		05/08/09 18:16	563-58-6	
cis-1,3-Dichloropropene	**<8.0**	ug/L	40.0	8.0	40		05/08/09 18:16	10061-01-5	
trans-1,3-Dichloropropene	**<7.6**	ug/L	40.0	7.6	40		05/08/09 18:16	10061-02-6	
Diisopropyl ether	**<30.4**	ug/L	40.0	30.4	40		05/08/09 18:16	108-20-3	
Ethylbenzene	**<21.6**	ug/L	40.0	21.6	40		05/08/09 18:16	100-41-4	
Hexachloro-1,3-butadiene	**<26.8**	ug/L	200	26.8	40		05/08/09 18:16	87-68-3	
Isopropylbenzene (Cumene)	**<23.6**	ug/L	40.0	23.6	40		05/08/09 18:16	98-82-8	
p-Isopropyltoluene	**<26.8**	ug/L	40.0	26.8	40		05/08/09 18:16	99-87-6	
Methylene Chloride	**<17.2**	ug/L	40.0	17.2	40		05/08/09 18:16	75-09-2	
Methyl-tert-butyl ether	**<24.4**	ug/L	40.0	24.4	40		05/08/09 18:16	1634-04-4	
Naphthalene	**<35.6**	ug/L	200	35.6	40		05/08/09 18:16	91-20-3	
n-Propylbenzene	**<32.4**	ug/L	40.0	32.4	40		05/08/09 18:16	103-65-1	
Styrene	**<34.4**	ug/L	40.0	34.4	40		05/08/09 18:16	100-42-5	
1,1,1,2-Tetrachloroethane	**<36.8**	ug/L	40.0	36.8	40		05/08/09 18:16	630-20-6	
1,1,2,2-Tetrachloroethane	**<8.0**	ug/L	40.0	8.0	40		05/08/09 18:16	79-34-5	
Tetrachloroethene	**59.0**	ug/L	40.0	18.0	40		05/08/09 18:16	127-18-4	
Toluene	**<26.8**	ug/L	40.0	26.8	40		05/08/09 18:16	108-88-3	
1,2,3-Trichlorobenzene	**<29.6**	ug/L	40.0	29.6	40		05/08/09 18:16	87-61-6	
1,2,4-Trichlorobenzene	**<38.8**	ug/L	40.0	38.8	40		05/08/09 18:16	120-82-1	
1,1,1-Trichloroethane	**<36.0**	ug/L	40.0	36.0	40		05/08/09 18:16	71-55-6	
1,1,2-Trichloroethane	**<16.8**	ug/L	40.0	16.8	40		05/08/09 18:16	79-00-5	
Trichloroethene	**386**	ug/L	40.0	19.2	40		05/08/09 18:16	79-01-6	
Trichlorofluoromethane	**<31.6**	ug/L	40.0	31.6	40		05/08/09 18:16	75-69-4	
1,2,3-Trichloropropane	**<39.6**	ug/L	40.0	39.6	40		05/08/09 18:16	96-18-4	
1,2,4-Trimethylbenzene	**<38.8**	ug/L	40.0	38.8	40		05/08/09 18:16	95-63-6	
1,3,5-Trimethylbenzene	**<33.2**	ug/L	40.0	33.2	40		05/08/09 18:16	108-67-8	
Vinyl chloride	**165**	ug/L	40.0	7.2	40		05/08/09 18:16	75-01-4	
m&p-Xylene	**<72.0**	ug/L	80.0	72.0	40		05/08/09 18:16	1330-20-7	
o-Xylene	**<33.2**	ug/L	40.0	33.2	40		05/08/09 18:16	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130		40		05/08/09 18:16	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		40		05/08/09 18:16	1868-53-7	
Toluene-d8 (S)	105	%	70-130		40		05/08/09 18:16	2037-26-5	

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ANALYTICAL RESULTS

Project: LA HACIENDA
Pace Project No.: 4016991

Sample: GP-3 SHALLOW **Lab ID: 4016991010** Collected: 04/30/09 14:15 Received: 05/07/09 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.41**	ug/L	1.0	0.41	1		05/08/09 17:05	71-43-2	
Bromobenzene	**<0.82**	ug/L	1.0	0.82	1		05/08/09 17:05	108-86-1	
Bromochloromethane	**<0.97**	ug/L	1.0	0.97	1		05/08/09 17:05	74-97-5	
Bromodichloromethane	**<0.56**	ug/L	1.0	0.56	1		05/08/09 17:05	75-27-4	
Bromoform	**<0.94**	ug/L	1.0	0.94	1		05/08/09 17:05	75-25-2	
Bromomethane	**<0.91**	ug/L	1.0	0.91	1		05/08/09 17:05	74-83-9	
n-Butylbenzene	**<0.93**	ug/L	1.0	0.93	1		05/08/09 17:05	104-51-8	
sec-Butylbenzene	**<0.89**	ug/L	5.0	0.89	1		05/08/09 17:05	135-98-8	
tert-Butylbenzene	**<0.97**	ug/L	1.0	0.97	1		05/08/09 17:05	98-06-6	
Carbon tetrachloride	**<0.49**	ug/L	1.0	0.49	1		05/08/09 17:05	56-23-5	
Chlorobenzene	**<0.41**	ug/L	1.0	0.41	1		05/08/09 17:05	108-90-7	
Chloroethane	**<0.97**	ug/L	1.0	0.97	1		05/08/09 17:05	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		05/08/09 17:05	67-66-3	
Chloromethane	**<0.24**	ug/L	1.0	0.24	1		05/08/09 17:05	74-87-3	
2-Chlorotoluene	**<0.85**	ug/L	1.0	0.85	1		05/08/09 17:05	95-49-8	
4-Chlorotoluene	**<0.74**	ug/L	1.0	0.74	1		05/08/09 17:05	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.7**	ug/L	5.0	1.7	1		05/08/09 17:05	96-12-8	
Dibromochloromethane	**<0.81**	ug/L	1.0	0.81	1		05/08/09 17:05	124-48-1	
1,2-Dibromoethane (EDB)	**<0.56**	ug/L	1.0	0.56	1		05/08/09 17:05	106-93-4	
Dibromomethane	**<0.60**	ug/L	1.0	0.60	1		05/08/09 17:05	74-95-3	
1,2-Dichlorobenzene	**<0.83**	ug/L	1.0	0.83	1		05/08/09 17:05	95-50-1	
1,3-Dichlorobenzene	**<0.87**	ug/L	1.0	0.87	1		05/08/09 17:05	541-73-1	
1,4-Dichlorobenzene	**<0.95**	ug/L	1.0	0.95	1		05/08/09 17:05	106-46-7	
Dichlorodifluoromethane	**<0.99**	ug/L	1.0	0.99	1		05/08/09 17:05	75-71-8	
1,1-Dichloroethane	**<0.75**	ug/L	1.0	0.75	1		05/08/09 17:05	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/L	1.0	0.36	1		05/08/09 17:05	107-06-2	
1,1-Dichloroethene	**<0.57**	ug/L	1.0	0.57	1		05/08/09 17:05	75-35-4	
cis-1,2-Dichloroethene	**1.7**	ug/L	1.0	0.83	1		05/08/09 17:05	156-59-2	
trans-1,2-Dichloroethene	**<0.89**	ug/L	1.0	0.89	1		05/08/09 17:05	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/L	1.0	0.49	1		05/08/09 17:05	78-87-5	
1,3-Dichloropropane	**<0.61**	ug/L	1.0	0.61	1		05/08/09 17:05	142-28-9	
2,2-Dichloropropane	**<0.62**	ug/L	1.0	0.62	1		05/08/09 17:05	594-20-7	
1,1-Dichloropropene	**<0.75**	ug/L	1.0	0.75	1		05/08/09 17:05	563-58-6	
cis-1,3-Dichloropropene	**<0.20**	ug/L	1.0	0.20	1		05/08/09 17:05	10061-01-5	
trans-1,3-Dichloropropene	**<0.19**	ug/L	1.0	0.19	1		05/08/09 17:05	10061-02-6	
Diisopropyl ether	**<0.76**	ug/L	1.0	0.76	1		05/08/09 17:05	108-20-3	
Ethylbenzene	**<0.54**	ug/L	1.0	0.54	1		05/08/09 17:05	100-41-4	
Hexachloro-1,3-butadiene	**<0.67**	ug/L	5.0	0.67	1		05/08/09 17:05	87-68-3	
Isopropylbenzene (Cumene)	**<0.59**	ug/L	1.0	0.59	1		05/08/09 17:05	98-82-8	
p-Isopropyltoluene	**<0.67**	ug/L	1.0	0.67	1		05/08/09 17:05	99-87-6	
Methylene Chloride	**<0.43**	ug/L	1.0	0.43	1		05/08/09 17:05	75-09-2	
Methyl-tert-butyl ether	**<0.61**	ug/L	1.0	0.61	1		05/08/09 17:05	1634-04-4	
Naphthalene	**<0.89**	ug/L	5.0	0.89	1		05/08/09 17:05	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	1.0	0.81	1		05/08/09 17:05	103-65-1	
Styrene	**<0.86**	ug/L	1.0	0.86	1		05/08/09 17:05	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.92**	ug/L	1.0	0.92	1		05/08/09 17:05	630-20-6	

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ANALYTICAL RESULTS

Project: LA HACIENDA
Pace Project No.: 4016991

Sample: GP-3 SHALLOW **Lab ID: 4016991010** Collected: 04/30/09 14:15 Received: 05/07/09 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.20**	ug/L	1.0	0.20	1		05/08/09 17:05	79-34-5	
Tetrachloroethene	**<0.45**	ug/L	1.0	0.45	1		05/08/09 17:05	127-18-4	
Toluene	**<0.67**	ug/L	1.0	0.67	1		05/08/09 17:05	108-88-3	
1,2,3-Trichlorobenzene	**<0.74**	ug/L	1.0	0.74	1		05/08/09 17:05	87-61-6	
1,2,4-Trichlorobenzene	**<0.97**	ug/L	1.0	0.97	1		05/08/09 17:05	120-82-1	
1,1,1-Trichloroethane	**<0.90**	ug/L	1.0	0.90	1		05/08/09 17:05	71-55-6	
1,1,2-Trichloroethane	**<0.42**	ug/L	1.0	0.42	1		05/08/09 17:05	79-00-5	
Trichloroethene	**<0.48**	ug/L	1.0	0.48	1		05/08/09 17:05	79-01-6	
Trichlorofluoromethane	**<0.79**	ug/L	1.0	0.79	1		05/08/09 17:05	75-69-4	
1,2,3-Trichloropropane	**<0.99**	ug/L	1.0	0.99	1		05/08/09 17:05	96-18-4	
1,2,4-Trimethylbenzene	**<0.97**	ug/L	1.0	0.97	1		05/08/09 17:05	95-63-6	
1,3,5-Trimethylbenzene	**<0.83**	ug/L	1.0	0.83	1		05/08/09 17:05	108-67-8	
Vinyl chloride	**3.8**	ug/L	1.0	0.18	1		05/08/09 17:05	75-01-4	
m&p-Xylene	**<1.8**	ug/L	2.0	1.8	1		05/08/09 17:05	1330-20-7	
o-Xylene	**<0.83**	ug/L	1.0	0.83	1		05/08/09 17:05	95-47-6	
4-Bromofluorobenzene (S)	98	%	70-130		1		05/08/09 17:05	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		05/08/09 17:05	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		05/08/09 17:05	2037-26-5	

Sample: GP-3 DEEP **Lab ID: 4016991011** Collected: 04/30/09 14:45 Received: 05/07/09 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<164**	ug/L	400	164	400		05/08/09 18:39	71-43-2	
Bromobenzene	**<328**	ug/L	400	328	400		05/08/09 18:39	108-86-1	
Bromochloromethane	**<388**	ug/L	400	388	400		05/08/09 18:39	74-97-5	
Bromodichloromethane	**<224**	ug/L	400	224	400		05/08/09 18:39	75-27-4	
Bromoform	**<376**	ug/L	400	376	400		05/08/09 18:39	75-25-2	
Bromomethane	**<364**	ug/L	400	364	400		05/08/09 18:39	74-83-9	
n-Butylbenzene	**<372**	ug/L	400	372	400		05/08/09 18:39	104-51-8	
sec-Butylbenzene	**<356**	ug/L	2000	356	400		05/08/09 18:39	135-98-8	
tert-Butylbenzene	**<388**	ug/L	400	388	400		05/08/09 18:39	98-06-6	
Carbon tetrachloride	**<196**	ug/L	400	196	400		05/08/09 18:39	56-23-5	
Chlorobenzene	**<164**	ug/L	400	164	400		05/08/09 18:39	108-90-7	
Chloroethane	**<388**	ug/L	400	388	400		05/08/09 18:39	75-00-3	
Chloroform	**<520**	ug/L	2000	520	400		05/08/09 18:39	67-66-3	
Chloromethane	**<96.0**	ug/L	400	96.0	400		05/08/09 18:39	74-87-3	
2-Chlorotoluene	**<340**	ug/L	400	340	400		05/08/09 18:39	95-49-8	
4-Chlorotoluene	**<296**	ug/L	400	296	400		05/08/09 18:39	106-43-4	
1,2-Dibromo-3-chloropropane	**<672**	ug/L	2000	672	400		05/08/09 18:39	96-12-8	
Dibromochloromethane	**<324**	ug/L	400	324	400		05/08/09 18:39	124-48-1	
1,2-Dibromoethane (EDB)	**<224**	ug/L	400	224	400		05/08/09 18:39	106-93-4	
Dibromomethane	**<240**	ug/L	400	240	400		05/08/09 18:39	74-95-3	

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ANALYTICAL RESULTS

Project: LA HACIENDA
Pace Project No.: 4016991

Sample: GP-3 DEEP **Lab ID: 4016991011** Collected: 04/30/09 14:45 Received: 05/07/09 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2-Dichlorobenzene	**<332**	ug/L	400	332	400		05/08/09 18:39	95-50-1	
1,3-Dichlorobenzene	**<348**	ug/L	400	348	400		05/08/09 18:39	541-73-1	
1,4-Dichlorobenzene	**<380**	ug/L	400	380	400		05/08/09 18:39	106-46-7	
Dichlorodifluoromethane	**<396**	ug/L	400	396	400		05/08/09 18:39	75-71-8	
1,1-Dichloroethane	**<300**	ug/L	400	300	400		05/08/09 18:39	75-34-3	
1,2-Dichloroethane	**<144**	ug/L	400	144	400		05/08/09 18:39	107-06-2	
1,1-Dichloroethene	**<228**	ug/L	400	228	400		05/08/09 18:39	75-35-4	
cis-1,2-Dichloroethene	**68700**	ug/L	400	332	400		05/08/09 18:39	156-59-2	
trans-1,2-Dichloroethene	**614**	ug/L	400	356	400		05/08/09 18:39	156-60-5	
1,2-Dichloropropane	**<196**	ug/L	400	196	400		05/08/09 18:39	78-87-5	
1,3-Dichloropropane	**<244**	ug/L	400	244	400		05/08/09 18:39	142-28-9	
2,2-Dichloropropane	**<248**	ug/L	400	248	400		05/08/09 18:39	594-20-7	
1,1-Dichloropropene	**<300**	ug/L	400	300	400		05/08/09 18:39	563-58-6	
cis-1,3-Dichloropropene	**<80.0**	ug/L	400	80.0	400		05/08/09 18:39	10061-01-5	
trans-1,3-Dichloropropene	**<76.0**	ug/L	400	76.0	400		05/08/09 18:39	10061-02-6	
Diisopropyl ether	**<304**	ug/L	400	304	400		05/08/09 18:39	108-20-3	
Ethylbenzene	**830**	ug/L	400	216	400		05/08/09 18:39	100-41-4	
Hexachloro-1,3-butadiene	**<268**	ug/L	2000	268	400		05/08/09 18:39	87-68-3	
Isopropylbenzene (Cumene)	**<236**	ug/L	400	236	400		05/08/09 18:39	98-82-8	
p-Isopropyltoluene	**<268**	ug/L	400	268	400		05/08/09 18:39	99-87-6	
Methylene Chloride	**<172**	ug/L	400	172	400		05/08/09 18:39	75-09-2	
Methyl-tert-butyl ether	**<244**	ug/L	400	244	400		05/08/09 18:39	1634-04-4	
Naphthalene	**<356**	ug/L	2000	356	400		05/08/09 18:39	91-20-3	
n-Propylbenzene	**<324**	ug/L	400	324	400		05/08/09 18:39	103-65-1	
Styrene	**<344**	ug/L	400	344	400		05/08/09 18:39	100-42-5	
1,1,1,2-Tetrachloroethane	**<368**	ug/L	400	368	400		05/08/09 18:39	630-20-6	
1,1,2,2-Tetrachloroethane	**<80.0**	ug/L	400	80.0	400		05/08/09 18:39	79-34-5	
Tetrachloroethene	**1190**	ug/L	400	180	400		05/08/09 18:39	127-18-4	
Toluene	**<268**	ug/L	400	268	400		05/08/09 18:39	108-88-3	
1,2,3-Trichlorobenzene	**<296**	ug/L	400	296	400		05/08/09 18:39	87-61-6	
1,2,4-Trichlorobenzene	**<388**	ug/L	400	388	400		05/08/09 18:39	120-82-1	
1,1,1-Trichloroethane	**<360**	ug/L	400	360	400		05/08/09 18:39	71-55-6	
1,1,2-Trichloroethane	**<168**	ug/L	400	168	400		05/08/09 18:39	79-00-5	
Trichloroethene	**7980**	ug/L	400	192	400		05/08/09 18:39	79-01-6	
Trichlorofluoromethane	**<316**	ug/L	400	316	400		05/08/09 18:39	75-69-4	
1,2,3-Trichloropropane	**<396**	ug/L	400	396	400		05/08/09 18:39	96-18-4	
1,2,4-Trimethylbenzene	**677**	ug/L	400	388	400		05/08/09 18:39	95-63-6	
1,3,5-Trimethylbenzene	**<332**	ug/L	400	332	400		05/08/09 18:39	108-67-8	
Vinyl chloride	**253J**	ug/L	400	72.0	400		05/08/09 18:39	75-01-4	
m&p-Xylene	**2610**	ug/L	800	720	400		05/08/09 18:39	1330-20-7	
o-Xylene	**<332**	ug/L	400	332	400		05/08/09 18:39	95-47-6	
4-Bromofluorobenzene (S)	98	%	70-130		400		05/08/09 18:39	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		400		05/08/09 18:39	1868-53-7	
Toluene-d8 (S)	106	%	70-130		400		05/08/09 18:39	2037-26-5	

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QUALITY CONTROL DATA

Project: LA HACIENDA
Pace Project No.: 4016991

QC Batch: PMST/2445 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 4016991001, 4016991002, 4016991003

SAMPLE DUPLICATE: 154926

Parameter	Units	4016923001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	6.1	5.6	8	10	

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QUALITY CONTROL DATA

Project: LA HACIENDA
Pace Project No.: 4016991

QC Batch: MSV/4388 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 4016991004, 4016991005, 4016991006, 4016991007, 4016991008, 4016991009, 4016991010, 4016991011

METHOD BLANK: 154956 Matrix: Water
Associated Lab Samples: 4016991004, 4016991005, 4016991006, 4016991007, 4016991008, 4016991009, 4016991010, 4016991011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.92	1.0	05/08/09 09:13	
1,1,1-Trichloroethane	ug/L	<0.90	1.0	05/08/09 09:13	
1,1,2,2-Tetrachloroethane	ug/L	<0.20	1.0	05/08/09 09:13	
1,1,2-Trichloroethane	ug/L	<0.42	1.0	05/08/09 09:13	
1,1-Dichloroethane	ug/L	<0.75	1.0	05/08/09 09:13	
1,1-Dichloroethene	ug/L	<0.57	1.0	05/08/09 09:13	
1,1-Dichloropropene	ug/L	<0.75	1.0	05/08/09 09:13	
1,2,3-Trichlorobenzene	ug/L	<0.74	1.0	05/08/09 09:13	
1,2,3-Trichloropropane	ug/L	<0.99	1.0	05/08/09 09:13	
1,2,4-Trichlorobenzene	ug/L	<0.97	1.0	05/08/09 09:13	
1,2,4-Trimethylbenzene	ug/L	<0.97	1.0	05/08/09 09:13	
1,2-Dibromo-3-chloropropane	ug/L	<1.7	5.0	05/08/09 09:13	
1,2-Dibromoethane (EDB)	ug/L	<0.56	1.0	05/08/09 09:13	
1,2-Dichlorobenzene	ug/L	<0.83	1.0	05/08/09 09:13	
1,2-Dichloroethane	ug/L	<0.36	1.0	05/08/09 09:13	
1,2-Dichloropropane	ug/L	<0.49	1.0	05/08/09 09:13	
1,3,5-Trimethylbenzene	ug/L	<0.83	1.0	05/08/09 09:13	
1,3-Dichlorobenzene	ug/L	<0.87	1.0	05/08/09 09:13	
1,3-Dichloropropane	ug/L	<0.61	1.0	05/08/09 09:13	
1,4-Dichlorobenzene	ug/L	<0.95	1.0	05/08/09 09:13	
2,2-Dichloropropane	ug/L	<0.62	1.0	05/08/09 09:13	
2-Chlorotoluene	ug/L	<0.85	1.0	05/08/09 09:13	
4-Chlorotoluene	ug/L	<0.74	1.0	05/08/09 09:13	
Benzene	ug/L	<0.41	1.0	05/08/09 09:13	
Bromobenzene	ug/L	<0.82	1.0	05/08/09 09:13	
Bromochloromethane	ug/L	<0.97	1.0	05/08/09 09:13	
Bromodichloromethane	ug/L	<0.56	1.0	05/08/09 09:13	
Bromoform	ug/L	<0.94	1.0	05/08/09 09:13	
Bromomethane	ug/L	<0.91	1.0	05/08/09 09:13	
Carbon tetrachloride	ug/L	<0.49	1.0	05/08/09 09:13	
Chlorobenzene	ug/L	<0.41	1.0	05/08/09 09:13	
Chloroethane	ug/L	<0.97	1.0	05/08/09 09:13	
Chloroform	ug/L	<1.3	5.0	05/08/09 09:13	
Chloromethane	ug/L	<0.24	1.0	05/08/09 09:13	
cis-1,2-Dichloroethene	ug/L	<0.83	1.0	05/08/09 09:13	
cis-1,3-Dichloropropene	ug/L	<0.20	1.0	05/08/09 09:13	
Dibromochloromethane	ug/L	<0.81	1.0	05/08/09 09:13	
Dibromomethane	ug/L	<0.60	1.0	05/08/09 09:13	
Dichlorodifluoromethane	ug/L	<0.99	1.0	05/08/09 09:13	
Diisopropyl ether	ug/L	<0.76	1.0	05/08/09 09:13	
Ethylbenzene	ug/L	<0.54	1.0	05/08/09 09:13	
Hexachloro-1,3-butadiene	ug/L	<0.67	5.0	05/08/09 09:13	
Isopropylbenzene (Cumene)	ug/L	<0.59	1.0	05/08/09 09:13	

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QUALITY CONTROL DATA

Project: LA HACIENDA
Pace Project No.: 4016991

METHOD BLANK: 154956 Matrix: Water

Associated Lab Samples: 4016991004, 4016991005, 4016991006, 4016991007, 4016991008, 4016991009, 4016991010, 4016991011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/L	<1.8	2.0	05/08/09 09:13	
Methyl-tert-butyl ether	ug/L	<0.61	1.0	05/08/09 09:13	
Methylene Chloride	ug/L	<0.43	1.0	05/08/09 09:13	
n-Butylbenzene	ug/L	<0.93	1.0	05/08/09 09:13	
n-Propylbenzene	ug/L	<0.81	1.0	05/08/09 09:13	
Naphthalene	ug/L	<0.89	5.0	05/08/09 09:13	
o-Xylene	ug/L	<0.83	1.0	05/08/09 09:13	
p-Isopropyltoluene	ug/L	<0.67	1.0	05/08/09 09:13	
sec-Butylbenzene	ug/L	<0.89	5.0	05/08/09 09:13	
Styrene	ug/L	<0.86	1.0	05/08/09 09:13	
tert-Butylbenzene	ug/L	<0.97	1.0	05/08/09 09:13	
Tetrachloroethene	ug/L	<0.45	1.0	05/08/09 09:13	
Toluene	ug/L	<0.67	1.0	05/08/09 09:13	
trans-1,2-Dichloroethene	ug/L	<0.89	1.0	05/08/09 09:13	
trans-1,3-Dichloropropene	ug/L	<0.19	1.0	05/08/09 09:13	
Trichloroethene	ug/L	<0.48	1.0	05/08/09 09:13	
Trichlorofluoromethane	ug/L	<0.79	1.0	05/08/09 09:13	
Vinyl chloride	ug/L	<0.18	1.0	05/08/09 09:13	
4-Bromofluorobenzene (S)	%	96	70-130	05/08/09 09:13	
Dibromofluoromethane (S)	%	96	70-130	05/08/09 09:13	
Toluene-d8 (S)	%	107	70-130	05/08/09 09:13	

LABORATORY CONTROL SAMPLE & LCSD: 154957 154958

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.1	50.8	100	102	70-132	1	20	
1,1,2,2-Tetrachloroethane	ug/L	50	47.9	48.1	96	96	69-130	.6	20	
1,1,2-Trichloroethane	ug/L	50	48.5	48.9	97	98	70-130	.9	20	
1,1-Dichloroethane	ug/L	50	49.9	49.5	100	99	70-130	.9	20	
1,1-Dichloroethene	ug/L	50	48.8	48.5	98	97	70-130	.6	20	
1,2-Dichloroethane	ug/L	50	47.5	48.0	95	96	70-134	1	20	
1,2-Dichloropropane	ug/L	50	49.9	50.7	100	101	70-130	2	20	
Benzene	ug/L	50	50.6	49.9	101	100	70-131	1	20	
Bromodichloromethane	ug/L	50	47.4	47.7	95	95	70-130	.6	20	
Bromoform	ug/L	50	50.2	49.9	100	100	70-130	.6	20	
Bromomethane	ug/L	50	40.8	42.5	82	85	23-200	4	20	
Carbon tetrachloride	ug/L	50	51.0	50.4	102	101	70-144	1	20	
Chlorobenzene	ug/L	50	51.1	50.6	102	101	70-130	1	20	
Chloroethane	ug/L	50	45.0	43.8	90	88	70-136	3	20	
Chloroform	ug/L	50	47.7	48.3	95	97	70-130	1	20	
Chloromethane	ug/L	50	34.3	34.2	69	68	54-148	.5	20	
cis-1,2-Dichloroethene	ug/L	50	48.8	49.4	98	99	70-130	1	20	
cis-1,3-Dichloropropene	ug/L	50	51.7	51.8	103	104	70-130	.3	20	
Dibromochloromethane	ug/L	50	48.6	48.6	97	97	70-130	.08	20	
Ethylbenzene	ug/L	50	52.9	52.5	106	105	70-130	.7	20	

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QUALITY CONTROL DATA

Project: LA HACIENDA
Pace Project No.: 4016991

LABORATORY CONTROL SAMPLE & LCSD: 154957 154958

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
m&p-Xylene	ug/L	100	107	106	107	106	70-130	1	20	
Methylene Chloride	ug/L	50	48.7	48.0	97	96	66-130	1	20	
o-Xylene	ug/L	50	53.5	52.5	107	105	70-130	2	20	
Styrene	ug/L	50	49.7	49.4	99	99	70-130	.6	20	
Tetrachloroethene	ug/L	50	54.1	53.8	108	108	75-130	.5	20	
Toluene	ug/L	50	52.9	52.5	106	105	70-130	.7	20	
trans-1,2-Dichloroethene	ug/L	50	51.3	50.9	103	102	70-130	.6	20	
trans-1,3-Dichloropropene	ug/L	50	51.4	51.5	103	103	70-130	.1	20	
Trichloroethene	ug/L	50	50.3	50.0	101	100	70-130	.6	20	
Vinyl chloride	ug/L	50	40.2	40.1	80	80	63-141	.2	20	
4-Bromofluorobenzene (S)	%				100	99	70-130			
Dibromofluoromethane (S)	%				99	101	70-130			
Toluene-d8 (S)	%				107	106	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 155090 155091

Parameter	Units	4016991005 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	<0.90	50	50	54.1	54.4	108	109	70-137	.4	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.20	50	50	47.8	50.1	96	100	67-130	5	20	
1,1,2-Trichloroethane	ug/L	<0.42	50	50	48.0	49.1	96	98	70-130	2	20	
1,1-Dichloroethane	ug/L	<0.75	50	50	52.6	51.1	105	102	70-130	3	20	
1,1-Dichloroethene	ug/L	<0.57	50	50	54.5	54.9	109	110	70-130	.7	20	
1,2-Dichloroethane	ug/L	<0.36	50	50	52.0	51.5	104	103	69-134	1	20	
1,2-Dichloropropane	ug/L	<0.49	50	50	50.8	50.3	102	101	70-130	1	20	
Benzene	ug/L	<0.41	50	50	51.9	51.2	104	102	69-131	1	20	
Bromodichloromethane	ug/L	<0.56	50	50	49.6	49.3	99	99	70-130	.6	20	
Bromoform	ug/L	<0.94	50	50	47.5	50.1	95	100	68-130	5	20	
Bromomethane	ug/L	<0.91	50	50	52.4	54.9	105	110	22-200	5	20	
Carbon tetrachloride	ug/L	<0.49	50	50	54.0	54.2	108	108	70-144	.5	20	
Chlorobenzene	ug/L	<0.41	50	50	51.7	51.4	103	103	70-130	.6	20	
Chloroethane	ug/L	<0.97	50	50	51.8	51.9	104	104	66-136	.2	20	
Chloroform	ug/L	<1.3	50	50	51.3	50.1	103	100	70-130	2	20	
Chloromethane	ug/L	<0.24	50	50	49.0	49.3	98	99	54-148	.6	20	
cis-1,2-Dichloroethene	ug/L	<0.83	50	50	52.5	50.1	105	100	70-130	5	20	
cis-1,3-Dichloropropene	ug/L	<0.20	50	50	51.7	50.5	103	101	70-130	2	20	
Dibromochloromethane	ug/L	<0.81	50	50	49.8	50.2	100	100	70-130	.8	20	
Ethylbenzene	ug/L	<0.54	50	50	53.8	53.2	108	106	70-130	1	20	
m&p-Xylene	ug/L	<1.8	100	100	108	107	108	107	70-130	1	20	
Methylene Chloride	ug/L	<0.43	50	50	52.4	51.7	105	103	64-130	1	20	
o-Xylene	ug/L	<0.83	50	50	54.1	53.8	108	108	70-130	.7	20	
Styrene	ug/L	<0.86	50	50	49.6	49.5	99	99	43-130	.1	20	
Tetrachloroethene	ug/L	<0.45	50	50	54.6	53.9	109	108	70-130	1	20	
Toluene	ug/L	<0.67	50	50	53.2	52.8	106	105	70-130	.6	20	
trans-1,2-Dichloroethene	ug/L	<0.89	50	50	53.2	53.5	106	107	70-130	.6	20	
trans-1,3-Dichloropropene	ug/L	<0.19	50	50	50.5	51.1	101	102	70-130	1	20	
Trichloroethene	ug/L	<0.48	50	50	53.1	51.5	106	103	70-130	3	20	

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QUALITY CONTROL DATA

Project: LA HACIENDA
Pace Project No.: 4016991

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 155090 155091

Parameter	Units	4016991005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Vinyl chloride	ug/L	<0.18	50	50	51.8	53.3	104	107	59-141	3	20	
4-Bromofluorobenzene (S)	%						100	102	70-130			
Dibromofluoromethane (S)	%						103	102	70-130			
Toluene-d8 (S)	%						106	106	70-130			

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QUALITY CONTROL DATA

Project: LA HACIENDA
Pace Project No.: 4016991

QC Batch: MSV/4393 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 4016991001, 4016991002, 4016991003

METHOD BLANK: 155004 Matrix: Solid
Associated Lab Samples: 4016991001, 4016991002, 4016991003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<25.0	60.0	05/08/09 11:21	
1,1,1-Trichloroethane	ug/kg	<25.0	60.0	05/08/09 11:21	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	60.0	05/08/09 11:21	
1,1,2-Trichloroethane	ug/kg	<25.0	60.0	05/08/09 11:21	
1,1-Dichloroethane	ug/kg	<25.0	60.0	05/08/09 11:21	
1,1-Dichloroethene	ug/kg	<25.0	60.0	05/08/09 11:21	
1,1-Dichloropropene	ug/kg	<25.0	60.0	05/08/09 11:21	
1,2,3-Trichlorobenzene	ug/kg	<25.0	60.0	05/08/09 11:21	
1,2,3-Trichloropropane	ug/kg	<25.0	60.0	05/08/09 11:21	
1,2,4-Trichlorobenzene	ug/kg	<25.0	60.0	05/08/09 11:21	
1,2,4-Trimethylbenzene	ug/kg	<25.0	60.0	05/08/09 11:21	
1,2-Dibromo-3-chloropropane	ug/kg	<82.3	250	05/08/09 11:21	
1,2-Dibromoethane (EDB)	ug/kg	<25.0	60.0	05/08/09 11:21	
1,2-Dichlorobenzene	ug/kg	<44.4	60.0	05/08/09 11:21	
1,2-Dichloroethane	ug/kg	<25.0	60.0	05/08/09 11:21	
1,2-Dichloropropane	ug/kg	<25.0	60.0	05/08/09 11:21	
1,3,5-Trimethylbenzene	ug/kg	<25.0	60.0	05/08/09 11:21	
1,3-Dichlorobenzene	ug/kg	<25.0	60.0	05/08/09 11:21	
1,3-Dichloropropane	ug/kg	<25.0	60.0	05/08/09 11:21	
1,4-Dichlorobenzene	ug/kg	<25.0	60.0	05/08/09 11:21	
2,2-Dichloropropane	ug/kg	<25.0	60.0	05/08/09 11:21	
2-Chlorotoluene	ug/kg	<25.0	60.0	05/08/09 11:21	
4-Chlorotoluene	ug/kg	<25.0	60.0	05/08/09 11:21	
Benzene	ug/kg	<25.0	60.0	05/08/09 11:21	
Bromobenzene	ug/kg	<25.0	60.0	05/08/09 11:21	
Bromochloromethane	ug/kg	<25.0	60.0	05/08/09 11:21	
Bromodichloromethane	ug/kg	<25.0	60.0	05/08/09 11:21	
Bromoform	ug/kg	<25.9	60.0	05/08/09 11:21	
Bromomethane	ug/kg	<25.0	60.0	05/08/09 11:21	
Carbon tetrachloride	ug/kg	<25.0	60.0	05/08/09 11:21	
Chlorobenzene	ug/kg	<25.0	60.0	05/08/09 11:21	
Chloroethane	ug/kg	<25.0	60.0	05/08/09 11:21	CC
Chloroform	ug/kg	<25.0	60.0	05/08/09 11:21	
Chloromethane	ug/kg	<25.0	60.0	05/08/09 11:21	
cis-1,2-Dichloroethene	ug/kg	<25.0	60.0	05/08/09 11:21	
cis-1,3-Dichloropropene	ug/kg	<25.0	60.0	05/08/09 11:21	
Dibromochloromethane	ug/kg	<25.0	60.0	05/08/09 11:21	
Dibromomethane	ug/kg	<25.0	60.0	05/08/09 11:21	
Dichlorodifluoromethane	ug/kg	<25.0	60.0	05/08/09 11:21	
Diisopropyl ether	ug/kg	<25.0	60.0	05/08/09 11:21	
Ethylbenzene	ug/kg	<25.0	60.0	05/08/09 11:21	
Hexachloro-1,3-butadiene	ug/kg	<26.4	60.0	05/08/09 11:21	
Isopropylbenzene (Cumene)	ug/kg	<25.0	60.0	05/08/09 11:21	

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QUALITY CONTROL DATA

Project: LA HACIENDA
Pace Project No.: 4016991

METHOD BLANK: 155004 Matrix: Solid

Associated Lab Samples: 4016991001, 4016991002, 4016991003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/kg	<50.0	120	05/08/09 11:21	
Methyl-tert-butyl ether	ug/kg	<25.0	60.0	05/08/09 11:21	
Methylene Chloride	ug/kg	<25.0	60.0	05/08/09 11:21	
n-Butylbenzene	ug/kg	<40.4	60.0	05/08/09 11:21	
n-Propylbenzene	ug/kg	<25.0	60.0	05/08/09 11:21	
Naphthalene	ug/kg	<25.0	60.0	05/08/09 11:21	
o-Xylene	ug/kg	<25.0	60.0	05/08/09 11:21	
p-Isopropyltoluene	ug/kg	<25.0	60.0	05/08/09 11:21	
sec-Butylbenzene	ug/kg	<25.0	60.0	05/08/09 11:21	
Styrene	ug/kg	<25.0	60.0	05/08/09 11:21	
tert-Butylbenzene	ug/kg	<25.0	60.0	05/08/09 11:21	
Tetrachloroethene	ug/kg	<25.0	60.0	05/08/09 11:21	
Toluene	ug/kg	<25.0	60.0	05/08/09 11:21	
trans-1,2-Dichloroethene	ug/kg	<25.0	60.0	05/08/09 11:21	
trans-1,3-Dichloropropene	ug/kg	<25.0	60.0	05/08/09 11:21	
Trichloroethene	ug/kg	<25.0	60.0	05/08/09 11:21	
Trichlorofluoromethane	ug/kg	<25.0	60.0	05/08/09 11:21	
Vinyl chloride	ug/kg	<25.0	60.0	05/08/09 11:21	
4-Bromofluorobenzene (S)	%	92	70-147	05/08/09 11:21	
Dibromofluoromethane (S)	%	112	70-150	05/08/09 11:21	
Toluene-d8 (S)	%	105	70-155	05/08/09 11:21	

LABORATORY CONTROL SAMPLE & LCSD: 155005 155006

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2770	2830	111	113	68-140	2	20	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2650	2620	106	105	67-131	1	20	
1,1,2-Trichloroethane	ug/kg	2500	2610	2590	104	104	70-130	.5	20	
1,1-Dichloroethane	ug/kg	2500	2500	2490	100	99	70-130	.7	20	
1,1-Dichloroethene	ug/kg	2500	2980	3030	119	121	70-133	1	20	
1,2-Dichloroethane	ug/kg	2500	2640	2680	106	107	70-132	1	20	
1,2-Dichloropropane	ug/kg	2500	2540	2560	102	102	70-130	.6	20	
Benzene	ug/kg	2500	2560	2580	102	103	70-130	.8	20	
Bromodichloromethane	ug/kg	2500	2770	2790	111	111	70-130	.5	20	
Bromoform	ug/kg	2500	2760	2760	110	110	70-130	.2	20	
Bromomethane	ug/kg	2500	3710	3810	148	152	65-153	3	20	
Carbon tetrachloride	ug/kg	2500	2990	3040	120	122	70-142	2	20	
Chlorobenzene	ug/kg	2500	2440	2500	98	100	70-130	2	20	
Chloroethane	ug/kg	2500	5130	5270	205	211	70-178	3	20	CC,L0
Chloroform	ug/kg	2500	2690	2720	108	109	70-130	1	20	
Chloromethane	ug/kg	2500	2250	2320	90	93	53-143	3	20	
cis-1,2-Dichloroethene	ug/kg	2500	2550	2610	102	105	70-130	2	20	
cis-1,3-Dichloropropene	ug/kg	2500	2430	2430	97	97	70-130	.006	20	
Dibromochloromethane	ug/kg	2500	2750	2720	110	109	70-130	.8	20	
Ethylbenzene	ug/kg	2500	2420	2460	97	99	70-130	2	20	

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QUALITY CONTROL DATA

Project: LA HACIENDA
Pace Project No.: 4016991

LABORATORY CONTROL SAMPLE & LCSD: 155005 155006

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
m&p-Xylene	ug/kg	5000	4890	4950	98	99	70-130	1	20	
Methylene Chloride	ug/kg	2500	2970	3040	119	121	70-134	2	20	
o-Xylene	ug/kg	2500	2370	2440	95	98	70-130	3	20	
Styrene	ug/kg	2500	2290	2320	92	93	70-130	1	20	
Tetrachloroethene	ug/kg	2500	2420	2460	97	98	70-130	2	20	
Toluene	ug/kg	2500	2380	2430	95	97	70-130	2	20	
trans-1,2-Dichloroethene	ug/kg	2500	2520	2520	101	101	67-130	.2	20	
trans-1,3-Dichloropropene	ug/kg	2500	2420	2410	97	96	70-130	.5	20	
Trichloroethene	ug/kg	2500	2580	2580	103	103	70-130	.2	20	
Vinyl chloride	ug/kg	2500	2240	2320	90	93	70-130	4	20	
4-Bromofluorobenzene (S)	%				89	91	70-147			
Dibromofluoromethane (S)	%				105	110	70-150			
Toluene-d8 (S)	%				99	103	70-155			

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QUALIFIERS

Project: LA HACIENDA
Pace Project No.: 4016991

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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U - Indicates the compound was analyzed for, but not detected.

ANALYTE QUALIFIERS

1j	Surrogate recovery outside laboratory control limits due to methanol leakage.
CC	The continuing calibration for this compound is outside of method control limits. The result is estimated.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
W	Non-detect results are reported on a wet weight basis.

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April 14, 2009

Robyn Seymour
Seymour Environmental Services, INC.
2531 Dyreson Road
Mc Farland, WI 53558

RE: Project: LA HACIENDA
Pace Project No.: 4015838

Dear Robyn Seymour:
Enclosed are the analytical results for sample(s) received by the laboratory on April 09, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Brian Basten

brian.basten@pacelabs.com
Project Manager

Enclosures

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: LA HACIENDA
Pace Project No.: 4015838

Green Bay Certification IDs

Wisconsin DATCP Certification #: 105-444
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
South Carolina Certification #: 83006001
North Dakota Certification #: R-200
North Dakota Certification #: R-150
North Carolina Certification #: 503
North Carolina Certification #: 503
New York Certification #: 11888
New York Certification #: 11887
Minnesota Certification #: 055-999-334
Minnesota Certification #: 055-999-334
Louisiana Certification #: 04169
Louisiana Certification #: 04168
Kentucky Certification #: 83
Kentucky Certification #: 82
Illinois Certification #: 200051
Illinois Certification #: 200050
Florida/NELAP Certification #: E87951
Florida/NELAP Certification #: E87948

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SAMPLE SUMMARY

Project: LA HACIENDA
Pace Project No.: 4015838

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4015838001	PZ-1	Water	04/08/09 15:00	04/09/09 08:40

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SAMPLE ANALYTE COUNT

Project: LA HACIENDA
Pace Project No.: 4015838

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4015838001	PZ-1	EPA 8260	HNW	64	PASI-G

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PROJECT NARRATIVE

Project: LA HACIENDA
Pace Project No.: 4015838

Method: **EPA 8260**
Description: 8260 MSV
Client: SEYMOUR ENVIRONMENTAL SERVICES, INC.
Date: April 14, 2009

General Information:
1 sample was analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/4164

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4015887013

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 144543)
  - 1,1,1-Trichloroethane
  - Tetrachloroethene
  - Trichloroethene
- MSD (Lab ID: 144544)
  - 1,1,1-Trichloroethane
  - 1,1-Dichloroethane
  - Tetrachloroethene
  - Trichloroethene

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: LA HACIENDA
Pace Project No.: 4015838

Method: **EPA 8260**
Description: 8260 MSV
Client: SEYMOUR ENVIRONMENTAL SERVICES, INC.
Date: April 14, 2009

Analyte Comments:

QC Batch: MSV/4164

1j: Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample's MSD analysis).

- MS (Lab ID: 144543)
  - Dibromofluoromethane (S)

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 144543)
  - 1,1-Dichloroethane
  - 1,1,1-Trichloroethane
  - Tetrachloroethene
  - Trichloroethene
- MSD (Lab ID: 144544)
  - 1,1-Dichloroethane
  - 1,1,1-Trichloroethane
  - Tetrachloroethene
  - Trichloroethene

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: LA HACIENDA
Pace Project No.: 4015838

Sample: PZ-1 **Lab ID: 4015838001** Collected: 04/08/09 15:00 Received: 04/09/09 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<2.0**	ug/L	5.0	2.0	5		04/13/09 16:21	71-43-2	
Bromobenzene	**<4.1**	ug/L	5.0	4.1	5		04/13/09 16:21	108-86-1	
Bromochloromethane	**<4.8**	ug/L	5.0	4.8	5		04/13/09 16:21	74-97-5	
Bromodichloromethane	**<2.8**	ug/L	5.0	2.8	5		04/13/09 16:21	75-27-4	
Bromoform	**<4.7**	ug/L	5.0	4.7	5		04/13/09 16:21	75-25-2	
Bromomethane	**<4.6**	ug/L	5.0	4.6	5		04/13/09 16:21	74-83-9	
n-Butylbenzene	**<4.6**	ug/L	5.0	4.6	5		04/13/09 16:21	104-51-8	
sec-Butylbenzene	**<4.4**	ug/L	25.0	4.4	5		04/13/09 16:21	135-98-8	
tert-Butylbenzene	**<4.8**	ug/L	5.0	4.8	5		04/13/09 16:21	98-06-6	
Carbon tetrachloride	**<2.4**	ug/L	5.0	2.4	5		04/13/09 16:21	56-23-5	
Chlorobenzene	**<2.0**	ug/L	5.0	2.0	5		04/13/09 16:21	108-90-7	
Chloroethane	**<4.8**	ug/L	5.0	4.8	5		04/13/09 16:21	75-00-3	
Chloroform	**<6.5**	ug/L	25.0	6.5	5		04/13/09 16:21	67-66-3	
Chloromethane	**<1.2**	ug/L	5.0	1.2	5		04/13/09 16:21	74-87-3	
2-Chlorotoluene	**<4.2**	ug/L	5.0	4.2	5		04/13/09 16:21	95-49-8	
4-Chlorotoluene	**<3.7**	ug/L	5.0	3.7	5		04/13/09 16:21	106-43-4	
1,2-Dibromo-3-chloropropane	**<8.4**	ug/L	25.0	8.4	5		04/13/09 16:21	96-12-8	
Dibromochloromethane	**<4.0**	ug/L	5.0	4.0	5		04/13/09 16:21	124-48-1	
1,2-Dibromoethane (EDB)	**<2.8**	ug/L	5.0	2.8	5		04/13/09 16:21	106-93-4	
Dibromomethane	**<3.0**	ug/L	5.0	3.0	5		04/13/09 16:21	74-95-3	
1,2-Dichlorobenzene	**<4.2**	ug/L	5.0	4.2	5		04/13/09 16:21	95-50-1	
1,3-Dichlorobenzene	**<4.4**	ug/L	5.0	4.4	5		04/13/09 16:21	541-73-1	
1,4-Dichlorobenzene	**<4.8**	ug/L	5.0	4.8	5		04/13/09 16:21	106-46-7	
Dichlorodifluoromethane	**<5.0**	ug/L	5.0	5.0	5		04/13/09 16:21	75-71-8	
1,1-Dichloroethane	**<3.8**	ug/L	5.0	3.8	5		04/13/09 16:21	75-34-3	
1,2-Dichloroethane	**<1.8**	ug/L	5.0	1.8	5		04/13/09 16:21	107-06-2	
1,1-Dichloroethene	**<2.8**	ug/L	5.0	2.8	5		04/13/09 16:21	75-35-4	
cis-1,2-Dichloroethene	**181**	ug/L	5.0	4.2	5		04/13/09 16:21	156-59-2	
trans-1,2-Dichloroethene	**6.9**	ug/L	5.0	4.4	5		04/13/09 16:21	156-60-5	
1,2-Dichloropropane	**<2.4**	ug/L	5.0	2.4	5		04/13/09 16:21	78-87-5	
1,3-Dichloropropane	**<3.0**	ug/L	5.0	3.0	5		04/13/09 16:21	142-28-9	
2,2-Dichloropropane	**<3.1**	ug/L	5.0	3.1	5		04/13/09 16:21	594-20-7	
1,1-Dichloropropene	**<3.8**	ug/L	5.0	3.8	5		04/13/09 16:21	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	5.0	1.0	5		04/13/09 16:21	10061-01-5	
trans-1,3-Dichloropropene	**<0.95**	ug/L	5.0	0.95	5		04/13/09 16:21	10061-02-6	
Diisopropyl ether	**<3.8**	ug/L	5.0	3.8	5		04/13/09 16:21	108-20-3	
Ethylbenzene	**<2.7**	ug/L	5.0	2.7	5		04/13/09 16:21	100-41-4	
Hexachloro-1,3-butadiene	**<3.4**	ug/L	25.0	3.4	5		04/13/09 16:21	87-68-3	
Isopropylbenzene (Cumene)	**<3.0**	ug/L	5.0	3.0	5		04/13/09 16:21	98-82-8	
p-Isopropyltoluene	**<3.4**	ug/L	5.0	3.4	5		04/13/09 16:21	99-87-6	
Methylene Chloride	**<2.2**	ug/L	5.0	2.2	5		04/13/09 16:21	75-09-2	
Methyl-tert-butyl ether	**<3.0**	ug/L	5.0	3.0	5		04/13/09 16:21	1634-04-4	
Naphthalene	**<4.4**	ug/L	25.0	4.4	5		04/13/09 16:21	91-20-3	
n-Propylbenzene	**<4.0**	ug/L	5.0	4.0	5		04/13/09 16:21	103-65-1	
Styrene	**<4.3**	ug/L	5.0	4.3	5		04/13/09 16:21	100-42-5	
1,1,1,2-Tetrachloroethane	**<4.6**	ug/L	5.0	4.6	5		04/13/09 16:21	630-20-6	

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ANALYTICAL RESULTS

Project: LA HACIENDA
Pace Project No.: 4015838

Sample: PZ-1 **Lab ID: 4015838001** Collected: 04/08/09 15:00 Received: 04/09/09 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	5.0	1.0	5		04/13/09 16:21	79-34-5	
Tetrachloroethene	**466**	ug/L	5.0	2.2	5		04/13/09 16:21	127-18-4	
Toluene	**<3.4**	ug/L	5.0	3.4	5		04/13/09 16:21	108-88-3	
1,2,3-Trichlorobenzene	**<3.7**	ug/L	5.0	3.7	5		04/13/09 16:21	87-61-6	
1,2,4-Trichlorobenzene	**<4.8**	ug/L	5.0	4.8	5		04/13/09 16:21	120-82-1	
1,1,1-Trichloroethane	**<4.5**	ug/L	5.0	4.5	5		04/13/09 16:21	71-55-6	
1,1,2-Trichloroethane	**<2.1**	ug/L	5.0	2.1	5		04/13/09 16:21	79-00-5	
Trichloroethene	**60.1**	ug/L	5.0	2.4	5		04/13/09 16:21	79-01-6	
Trichlorofluoromethane	**<4.0**	ug/L	5.0	4.0	5		04/13/09 16:21	75-69-4	
1,2,3-Trichloropropane	**<5.0**	ug/L	5.0	5.0	5		04/13/09 16:21	96-18-4	
1,2,4-Trimethylbenzene	**<4.8**	ug/L	5.0	4.8	5		04/13/09 16:21	95-63-6	
1,3,5-Trimethylbenzene	**<4.2**	ug/L	5.0	4.2	5		04/13/09 16:21	108-67-8	
Vinyl chloride	**26.4**	ug/L	5.0	0.90	5		04/13/09 16:21	75-01-4	
m&p-Xylene	**<9.0**	ug/L	10.0	9.0	5		04/13/09 16:21	1330-20-7	
o-Xylene	**<4.2**	ug/L	5.0	4.2	5		04/13/09 16:21	95-47-6	
4-Bromofluorobenzene (S)	96	%	70-130		5		04/13/09 16:21	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		5		04/13/09 16:21	1868-53-7	
Toluene-d8 (S)	99	%	70-130		5		04/13/09 16:21	2037-26-5	

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QUALITY CONTROL DATA

Project: LA HACIENDA
Pace Project No.: 4015838

QC Batch: MSV/4164 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 4015838001

METHOD BLANK: 144540 Matrix: Water
Associated Lab Samples: 4015838001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.92	1.0	04/13/09 07:15	
1,1,1-Trichloroethane	ug/L	<0.90	1.0	04/13/09 07:15	
1,1,2,2-Tetrachloroethane	ug/L	<0.20	1.0	04/13/09 07:15	
1,1,2-Trichloroethane	ug/L	<0.42	1.0	04/13/09 07:15	
1,1-Dichloroethane	ug/L	<0.75	1.0	04/13/09 07:15	
1,1-Dichloroethene	ug/L	<0.57	1.0	04/13/09 07:15	
1,1-Dichloropropene	ug/L	<0.75	1.0	04/13/09 07:15	
1,2,3-Trichlorobenzene	ug/L	<0.74	1.0	04/13/09 07:15	
1,2,3-Trichloropropane	ug/L	<0.99	1.0	04/13/09 07:15	
1,2,4-Trichlorobenzene	ug/L	<0.97	1.0	04/13/09 07:15	
1,2,4-Trimethylbenzene	ug/L	<0.97	1.0	04/13/09 07:15	
1,2-Dibromo-3-chloropropane	ug/L	<1.7	5.0	04/13/09 07:15	
1,2-Dibromoethane (EDB)	ug/L	<0.56	1.0	04/13/09 07:15	
1,2-Dichlorobenzene	ug/L	<0.83	1.0	04/13/09 07:15	
1,2-Dichloroethane	ug/L	<0.36	1.0	04/13/09 07:15	
1,2-Dichloropropane	ug/L	<0.49	1.0	04/13/09 07:15	
1,3,5-Trimethylbenzene	ug/L	<0.83	1.0	04/13/09 07:15	
1,3-Dichlorobenzene	ug/L	<0.87	1.0	04/13/09 07:15	
1,3-Dichloropropane	ug/L	<0.61	1.0	04/13/09 07:15	
1,4-Dichlorobenzene	ug/L	<0.95	1.0	04/13/09 07:15	
2,2-Dichloropropane	ug/L	<0.62	1.0	04/13/09 07:15	
2-Chlorotoluene	ug/L	<0.85	1.0	04/13/09 07:15	
4-Chlorotoluene	ug/L	<0.74	1.0	04/13/09 07:15	
Benzene	ug/L	<0.41	1.0	04/13/09 07:15	
Bromobenzene	ug/L	<0.82	1.0	04/13/09 07:15	
Bromochloromethane	ug/L	<0.97	1.0	04/13/09 07:15	
Bromodichloromethane	ug/L	<0.56	1.0	04/13/09 07:15	
Bromoform	ug/L	<0.94	1.0	04/13/09 07:15	
Bromomethane	ug/L	<0.91	1.0	04/13/09 07:15	
Carbon tetrachloride	ug/L	<0.49	1.0	04/13/09 07:15	
Chlorobenzene	ug/L	<0.41	1.0	04/13/09 07:15	
Chloroethane	ug/L	<0.97	1.0	04/13/09 07:15	
Chloroform	ug/L	<1.3	5.0	04/13/09 07:15	
Chloromethane	ug/L	<0.24	1.0	04/13/09 07:15	
cis-1,2-Dichloroethene	ug/L	<0.83	1.0	04/13/09 07:15	
cis-1,3-Dichloropropene	ug/L	<0.20	1.0	04/13/09 07:15	
Dibromochloromethane	ug/L	<0.81	1.0	04/13/09 07:15	
Dibromomethane	ug/L	<0.60	1.0	04/13/09 07:15	
Dichlorodifluoromethane	ug/L	<0.99	1.0	04/13/09 07:15	
Diisopropyl ether	ug/L	<0.76	1.0	04/13/09 07:15	
Ethylbenzene	ug/L	<0.54	1.0	04/13/09 07:15	
Hexachloro-1,3-butadiene	ug/L	<0.67	5.0	04/13/09 07:15	
Isopropylbenzene (Cumene)	ug/L	<0.59	1.0	04/13/09 07:15	

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QUALITY CONTROL DATA

Project: LA HACIENDA
Pace Project No.: 4015838

METHOD BLANK: 144540 Matrix: Water

Associated Lab Samples: 4015838001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/L	<1.8	2.0	04/13/09 07:15	
Methyl-tert-butyl ether	ug/L	<0.61	1.0	04/13/09 07:15	
Methylene Chloride	ug/L	<0.43	1.0	04/13/09 07:15	
n-Butylbenzene	ug/L	<0.93	1.0	04/13/09 07:15	
n-Propylbenzene	ug/L	<0.81	1.0	04/13/09 07:15	
Naphthalene	ug/L	<0.89	5.0	04/13/09 07:15	
o-Xylene	ug/L	<0.83	1.0	04/13/09 07:15	
p-Isopropyltoluene	ug/L	<0.67	1.0	04/13/09 07:15	
sec-Butylbenzene	ug/L	<0.89	5.0	04/13/09 07:15	
Styrene	ug/L	<0.86	1.0	04/13/09 07:15	
tert-Butylbenzene	ug/L	<0.97	1.0	04/13/09 07:15	
Tetrachloroethene	ug/L	<0.45	1.0	04/13/09 07:15	
Toluene	ug/L	<0.67	1.0	04/13/09 07:15	
trans-1,2-Dichloroethene	ug/L	<0.89	1.0	04/13/09 07:15	
trans-1,3-Dichloropropene	ug/L	<0.19	1.0	04/13/09 07:15	
Trichloroethene	ug/L	<0.48	1.0	04/13/09 07:15	
Trichlorofluoromethane	ug/L	<0.79	1.0	04/13/09 07:15	
Vinyl chloride	ug/L	<0.18	1.0	04/13/09 07:15	
4-Bromofluorobenzene (S)	%	96	70-130	04/13/09 07:15	
Dibromofluoromethane (S)	%	98	70-130	04/13/09 07:15	
Toluene-d8 (S)	%	99	70-130	04/13/09 07:15	

LABORATORY CONTROL SAMPLE & LCSD: 144541 144542

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	53.9	55.2	108	110	75-128	2	20	
1,1,2,2-Tetrachloroethane	ug/L	50	49.1	48.1	98	96	67-125	2	20	
1,1,2-Trichloroethane	ug/L	50	50.8	50.9	102	102	75-125	.3	20	
1,1-Dichloroethane	ug/L	50	53.2	52.9	106	106	71-130	.6	20	
1,1-Dichloroethene	ug/L	50	53.7	55.4	107	111	75-125	3	20	
1,2-Dichloroethane	ug/L	50	50.6	51.6	101	103	71-132	2	20	
1,2-Dichloropropane	ug/L	50	52.4	49.4	105	99	73-125	6	20	
Benzene	ug/L	50	52.5	53.0	105	106	75-125	.9	20	
Bromodichloromethane	ug/L	50	51.8	50.1	104	100	75-125	3	20	
Bromoform	ug/L	50	48.0	46.0	96	92	75-125	4	20	
Bromomethane	ug/L	50	47.6	47.9	95	96	66-125	.6	20	
Carbon tetrachloride	ug/L	50	54.8	55.8	110	112	75-125	2	20	
Chlorobenzene	ug/L	50	50.7	50.5	101	101	75-125	.3	20	
Chloroethane	ug/L	50	52.7	51.9	105	104	72-126	2	20	
Chloroform	ug/L	50	51.0	54.8	102	110	75-125	7	20	
Chloromethane	ug/L	50	47.7	46.9	95	94	46-143	2	20	
cis-1,2-Dichloroethene	ug/L	50	52.2	54.8	104	110	75-125	5	20	
cis-1,3-Dichloropropene	ug/L	50	52.8	50.6	106	101	75-125	4	20	
Dibromochloromethane	ug/L	50	48.4	48.2	97	96	75-125	.4	20	
Ethylbenzene	ug/L	50	51.7	50.1	103	100	75-125	3	20	

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QUALITY CONTROL DATA

Project: LA HACIENDA
Pace Project No.: 4015838

LABORATORY CONTROL SAMPLE & LCSD: 144541 144542

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
m&p-Xylene	ug/L	100	102	100	102	100	75-125	2	20	
Methylene Chloride	ug/L	50	51.0	48.6	102	97	75-125	5	20	
o-Xylene	ug/L	50	52.1	50.0	104	100	75-125	4	20	
Styrene	ug/L	50	47.4	46.9	95	94	75-125	.9	20	
Tetrachloroethene	ug/L	50	52.5	50.1	105	100	75-130	5	20	
Toluene	ug/L	50	52.4	51.4	105	103	75-125	2	20	
trans-1,2-Dichloroethene	ug/L	50	52.0	54.8	104	110	75-125	5	20	
trans-1,3-Dichloropropene	ug/L	50	51.4	48.5	103	97	75-125	6	20	
Trichloroethene	ug/L	50	52.7	52.3	105	105	75-125	.8	20	
Vinyl chloride	ug/L	50	52.5	54.7	105	109	65-130	4	20	
4-Bromofluorobenzene (S)	%				96	94	70-130			
Dibromofluoromethane (S)	%				99	101	70-130			
Toluene-d8 (S)	%				100	99	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 144543 144544

Parameter	Units	4015887013 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	3460	50	50	2690	2640	-1530	-1650	70-130	2	30	E,M0
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	49.4	49.3	99	99	70-130	.2	30	
1,1,2-Trichloroethane	ug/L	ND	50	50	53.7	51.2	107	102	70-130	5	30	
1,1-Dichloroethane	ug/L	978	50	50	1030	999	106	42	70-130	3	30	E,M0
1,1-Dichloroethene	ug/L	ND	50	50	75.8	74.9	121	119	70-135	1	30	
1,2-Dichloroethane	ug/L	ND	50	50	48.4	50.0	97	100	70-130	3	30	
1,2-Dichloropropane	ug/L	ND	50	50	51.2	51.9	102	104	70-130	1	30	
Benzene	ug/L	ND	50	50	51.9	51.7	104	103	70-130	.5	30	
Bromodichloromethane	ug/L	ND	50	50	51.9	51.2	104	102	70-130	1	30	
Bromoform	ug/L	ND	50	50	49.8	48.6	100	97	70-130	3	30	
Bromomethane	ug/L	ND	50	50	46.1	45.8	92	92	63-147	.6	30	
Carbon tetrachloride	ug/L	ND	50	50	52.4	52.3	105	105	70-131	.2	30	
Chlorobenzene	ug/L	ND	50	50	51.6	49.7	103	99	70-130	4	30	
Chloroethane	ug/L	ND	50	50	51.7	48.4	103	97	67-138	6	30	
Chloroform	ug/L	ND	50	50	51.4	49.5	103	99	70-130	4	30	
Chloromethane	ug/L	ND	50	50	46.3	44.4	93	89	43-150	4	30	
cis-1,2-Dichloroethene	ug/L	ND	50	50	52.5	51.6	105	103	70-130	2	30	
cis-1,3-Dichloropropene	ug/L	ND	50	50	51.3	52.5	103	105	70-130	2	30	
Dibromochloromethane	ug/L	ND	50	50	45.2	44.7	90	89	70-130	1	30	
Ethylbenzene	ug/L	ND	50	50	51.9	51.1	104	102	70-136	2	30	
m&p-Xylene	ug/L	ND	100	100	106	102	102	99	70-137	3	30	
Methylene Chloride	ug/L	ND	50	50	49.4	49.0	99	98	70-130	.8	30	
o-Xylene	ug/L	ND	50	50	52.9	51.1	106	102	70-130	4	30	
Styrene	ug/L	ND	50	50	47.9	46.5	96	93	70-130	3	30	
Tetrachloroethene	ug/L	4000	50	50	3630	3450	-729	-1100	70-130	5	30	E,M0
Toluene	ug/L	ND	50	50	55.9	54.0	107	104	70-130	3	30	
trans-1,2-Dichloroethene	ug/L	ND	50	50	52.8	51.5	106	103	70-130	2	30	
trans-1,3-Dichloropropene	ug/L	ND	50	50	52.5	50.1	105	100	70-130	5	30	
Trichloroethene	ug/L	561	50	50	648	630	173	137	70-130	3	30	E,M0

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QUALITY CONTROL DATA

Project: LA HACIENDA
Pace Project No.: 4015838

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 144543 144544

Parameter	Units	4015887013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Vinyl chloride	ug/L	ND	50	50	51.8	51.5	104	103	62-138	.6	30	
4-Bromofluorobenzene (S)	%						95	95	70-130			
Dibromofluoromethane (S)	%						69	71	70-130			1j
Toluene-d8 (S)	%						100	99	70-130			

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QUALIFIERS

Project: LA HACIENDA
Pace Project No.: 4015838

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

1j	Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample's MSD analysis).
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
M0	Matrix spike recovery was outside laboratory control limits.

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October 03, 2008

Robyn Seymour
Seymour Environmental Services, INC.
2531 Dyreson Road
Mc Farland, WI 53558

RE: Project: 10509.00 LA HACIENDA
Pace Project No.: 409497

Dear Robyn Seymour:
Enclosed are the analytical results for sample(s) received by the laboratory on September 26, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Brian Basten

brian.basten@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 10509.00 LA HACIENDA
Pace Project No.: 409497

Green Bay Certification IDs
Louisiana Certification #: 04168
Kentucky Certification #: 82
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
Minnesota Certification #: 055-999-334
North Carolina Certification #: 503
North Dakota Certification #: R-150
New York Certification #: 11888
Illinois Certification #: 200050
Florida (NELAP) Certification #: E87948

Green Bay Volatiles Certification IDs
Louisiana Certification #: 04169
Kentucky Certification #: 83
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
Minnesota Certification #: 055-999-334
North Carolina Certification #: 503
North Dakota Certification #: R-200
New York Certification #: 11887
Illinois Certification #: 200051
Florida (NELAP) Certification #: E87951

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SAMPLE SUMMARY

Project: 10509.00 LA HACIENDA
Pace Project No.: 409497

Lab ID	Sample ID	Matrix	Date Collected	Date Received
409497001	**MW-1**	Water	09/24/08 09:45	09/26/08 09:05
409497002	**MW-2**	Water	09/24/08 10:30	09/26/08 09:05
409497003	**MW-3**	Water	09/24/08 10:05	09/26/08 09:05

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SAMPLE ANALYTE COUNT

Project: 10509.00 LA HACIENDA
Pace Project No.: 409497

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
409497001	**MW-1**	EPA 8260	SMT	64	PASI-G
409497002	**MW-2**	EPA 8260	SMT	64	PASI-G
409497003	**MW-3**	EPA 8260	SMT	64	PASI-G

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PROJECT NARRATIVE

Project: 10509.00 LA HACIENDA
Pace Project No.: 409497

Method: **EPA 8260**
Description: 8260 MSV
Client: SEYMOUR ENVIRONMENTAL SERVICES, INC.
Date: October 03, 2008

General Information:
3 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

pH: Post-analysis pH measurement indicates insufficient VOA sample preservation.
- MW-2 (Lab ID: 409497002)

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 10509.00 LA HACIENDA
Pace Project No.: 409497

Sample: MW-1 **Lab ID: 409497001** Collected: 09/24/08 09:45 Received: 09/26/08 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**2.9**	ug/L	1.0	0.41	1		09/30/08 15:16	71-43-2	
Bromobenzene	**<0.82**	ug/L	1.0	0.82	1		09/30/08 15:16	108-86-1	
Bromochloromethane	**<0.97**	ug/L	1.0	0.97	1		09/30/08 15:16	74-97-5	
Bromodichloromethane	**<0.56**	ug/L	1.9	0.56	1		09/30/08 15:16	75-27-4	
Bromoform	**<0.94**	ug/L	3.1	0.94	1		09/30/08 15:16	75-25-2	
Bromomethane	**<0.91**	ug/L	3.0	0.91	1		09/30/08 15:16	74-83-9	
n-Butylbenzene	**<0.93**	ug/L	1.0	0.93	1		09/30/08 15:16	104-51-8	
sec-Butylbenzene	**<0.89**	ug/L	5.0	0.89	1		09/30/08 15:16	135-98-8	
tert-Butylbenzene	**<0.97**	ug/L	1.0	0.97	1		09/30/08 15:16	98-06-6	
Carbon tetrachloride	**<0.49**	ug/L	1.0	0.49	1		09/30/08 15:16	56-23-5	
Chlorobenzene	**<0.41**	ug/L	1.0	0.41	1		09/30/08 15:16	108-90-7	
Chloroethane	**6.6**	ug/L	1.0	0.97	1		09/30/08 15:16	75-00-3	
Chloroform	**<1.3**	ug/L	4.3	1.3	1		09/30/08 15:16	67-66-3	
Chloromethane	**0.26J**	ug/L	0.80	0.24	1		09/30/08 15:16	74-87-3	
2-Chlorotoluene	**<0.85**	ug/L	1.0	0.85	1		09/30/08 15:16	95-49-8	
4-Chlorotoluene	**<0.74**	ug/L	1.0	0.74	1		09/30/08 15:16	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.7**	ug/L	5.6	1.7	1		09/30/08 15:16	96-12-8	
Dibromochloromethane	**<0.81**	ug/L	1.0	0.81	1		09/30/08 15:16	124-48-1	
1,2-Dibromoethane (EDB)	**<0.56**	ug/L	1.9	0.56	1		09/30/08 15:16	106-93-4	
Dibromomethane	**<0.60**	ug/L	1.0	0.60	1		09/30/08 15:16	74-95-3	
1,2-Dichlorobenzene	**<0.83**	ug/L	1.0	0.83	1		09/30/08 15:16	95-50-1	
1,3-Dichlorobenzene	**<0.87**	ug/L	1.0	0.87	1		09/30/08 15:16	541-73-1	
1,4-Dichlorobenzene	**<0.95**	ug/L	1.0	0.95	1		09/30/08 15:16	106-46-7	
Dichlorodifluoromethane	**<0.99**	ug/L	1.0	0.99	1		09/30/08 15:16	75-71-8	
1,1-Dichloroethane	**<0.75**	ug/L	1.0	0.75	1		09/30/08 15:16	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/L	1.0	0.36	1		09/30/08 15:16	107-06-2	
1,1-Dichloroethene	**<0.57**	ug/L	1.0	0.57	1		09/30/08 15:16	75-35-4	
cis-1,2-Dichloroethene	**159**	ug/L	1.0	0.83	1		09/30/08 15:16	156-59-2	
trans-1,2-Dichloroethene	**46.4**	ug/L	1.0	0.89	1		09/30/08 15:16	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/L	1.0	0.49	1		09/30/08 15:16	78-87-5	
1,3-Dichloropropane	**<0.61**	ug/L	2.0	0.61	1		09/30/08 15:16	142-28-9	
2,2-Dichloropropane	**<0.62**	ug/L	1.0	0.62	1		09/30/08 15:16	594-20-7	
1,1-Dichloropropene	**<0.75**	ug/L	1.0	0.75	1		09/30/08 15:16	563-58-6	
cis-1,3-Dichloropropene	**<0.20**	ug/L	0.67	0.20	1		09/30/08 15:16	10061-01-5	
trans-1,3-Dichloropropene	**<0.19**	ug/L	0.63	0.19	1		09/30/08 15:16	10061-02-6	
Diisopropyl ether	**<0.76**	ug/L	1.0	0.76	1		09/30/08 15:16	108-20-3	
Ethylbenzene	**<0.54**	ug/L	1.0	0.54	1		09/30/08 15:16	100-41-4	
Hexachloro-1,3-butadiene	**<0.67**	ug/L	5.0	0.67	1		09/30/08 15:16	87-68-3	
Isopropylbenzene (Cumene)	**<0.59**	ug/L	1.0	0.59	1		09/30/08 15:16	98-82-8	
p-Isopropyltoluene	**<0.67**	ug/L	1.0	0.67	1		09/30/08 15:16	99-87-6	
Methylene Chloride	**<0.43**	ug/L	1.4	0.43	1		09/30/08 15:16	75-09-2	
Methyl-tert-butyl ether	**<0.61**	ug/L	2.0	0.61	1		09/30/08 15:16	1634-04-4	
Naphthalene	**<0.89**	ug/L	5.0	0.89	1		09/30/08 15:16	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	1.0	0.81	1		09/30/08 15:16	103-65-1	
Styrene	**<0.86**	ug/L	1.0	0.86	1		09/30/08 15:16	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.92**	ug/L	1.0	0.92	1		09/30/08 15:16	630-20-6	

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ANALYTICAL RESULTS

Project: 10509.00 LA HACIENDA
Pace Project No.: 409497

Sample: MW-1 **Lab ID: 409497001** Collected: 09/24/08 09:45 Received: 09/26/08 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.20**	ug/L	0.67	0.20	1		09/30/08 15:16	79-34-5	
Tetrachloroethene	**<0.45**	ug/L	1.0	0.45	1		09/30/08 15:16	127-18-4	
Toluene	**<0.67**	ug/L	1.0	0.67	1		09/30/08 15:16	108-88-3	
1,2,3-Trichlorobenzene	**<0.74**	ug/L	1.0	0.74	1		09/30/08 15:16	87-61-6	
1,2,4-Trichlorobenzene	**<0.97**	ug/L	1.0	0.97	1		09/30/08 15:16	120-82-1	
1,1,1-Trichloroethane	**<0.90**	ug/L	1.0	0.90	1		09/30/08 15:16	71-55-6	
1,1,2-Trichloroethane	**<0.42**	ug/L	1.4	0.42	1		09/30/08 15:16	79-00-5	
Trichloroethene	**0.61J**	ug/L	1.0	0.48	1		09/30/08 15:16	79-01-6	
Trichlorofluoromethane	**<0.79**	ug/L	1.0	0.79	1		09/30/08 15:16	75-69-4	
1,2,3-Trichloropropane	**<0.99**	ug/L	1.0	0.99	1		09/30/08 15:16	96-18-4	
1,2,4-Trimethylbenzene	**<0.97**	ug/L	1.0	0.97	1		09/30/08 15:16	95-63-6	
1,3,5-Trimethylbenzene	**<0.83**	ug/L	1.0	0.83	1		09/30/08 15:16	108-67-8	
Vinyl chloride	**76.3**	ug/L	0.60	0.18	1		09/30/08 15:16	75-01-4	
m&p-Xylene	**<1.8**	ug/L	2.0	1.8	1		09/30/08 15:16	1330-20-7	
o-Xylene	**<0.83**	ug/L	1.0	0.83	1		09/30/08 15:16	95-47-6	
4-Bromofluorobenzene (S)	100	%	64-132		1		09/30/08 15:16	460-00-4	
Dibromofluoromethane (S)	96	%	68-122		1		09/30/08 15:16	1868-53-7	
Toluene-d8 (S)	105	%	73-127		1		09/30/08 15:16	2037-26-5	

Sample: MW-2 **Lab ID: 409497002** Collected: 09/24/08 10:30 Received: 09/26/08 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<41.0**	ug/L	100	41.0	100		10/01/08 03:47	71-43-2	
Bromobenzene	**<82.0**	ug/L	100	82.0	100		10/01/08 03:47	108-86-1	
Bromochloromethane	**<97.0**	ug/L	100	97.0	100		10/01/08 03:47	74-97-5	
Bromodichloromethane	**<56.0**	ug/L	187	56.0	100		10/01/08 03:47	75-27-4	
Bromoform	**<94.0**	ug/L	313	94.0	100		10/01/08 03:47	75-25-2	
Bromomethane	**<91.0**	ug/L	303	91.0	100		10/01/08 03:47	74-83-9	
n-Butylbenzene	**<93.0**	ug/L	100	93.0	100		10/01/08 03:47	104-51-8	
sec-Butylbenzene	**<89.0**	ug/L	500	89.0	100		10/01/08 03:47	135-98-8	
tert-Butylbenzene	**<97.0**	ug/L	100	97.0	100		10/01/08 03:47	98-06-6	
Carbon tetrachloride	**<49.0**	ug/L	100	49.0	100		10/01/08 03:47	56-23-5	
Chlorobenzene	**<41.0**	ug/L	100	41.0	100		10/01/08 03:47	108-90-7	
Chloroethane	**<97.0**	ug/L	100	97.0	100		10/01/08 03:47	75-00-3	
Chloroform	**<130**	ug/L	433	130	100		10/01/08 03:47	67-66-3	
Chloromethane	**<24.0**	ug/L	80.0	24.0	100		10/01/08 03:47	74-87-3	
2-Chlorotoluene	**<85.0**	ug/L	100	85.0	100		10/01/08 03:47	95-49-8	
4-Chlorotoluene	**<74.0**	ug/L	100	74.0	100		10/01/08 03:47	106-43-4	
1,2-Dibromo-3-chloropropane	**<168**	ug/L	560	168	100		10/01/08 03:47	96-12-8	
Dibromochloromethane	**<81.0**	ug/L	100	81.0	100		10/01/08 03:47	124-48-1	
1,2-Dibromoethane (EDB)	**<56.0**	ug/L	187	56.0	100		10/01/08 03:47	106-93-4	
Dibromomethane	**<60.0**	ug/L	100	60.0	100		10/01/08 03:47	74-95-3	

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ANALYTICAL RESULTS

Project: 10509.00 LA HACIENDA
Pace Project No.: 409497

Sample: MW-2 **Lab ID: 409497002** Collected: 09/24/08 10:30 Received: 09/26/08 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2-Dichlorobenzene	**<83.0**	ug/L	100	83.0	100		10/01/08 03:47	95-50-1	
1,3-Dichlorobenzene	**<87.0**	ug/L	100	87.0	100		10/01/08 03:47	541-73-1	
1,4-Dichlorobenzene	**<95.0**	ug/L	100	95.0	100		10/01/08 03:47	106-46-7	
Dichlorodifluoromethane	**<99.0**	ug/L	100	99.0	100		10/01/08 03:47	75-71-8	
1,1-Dichloroethane	**<75.0**	ug/L	100	75.0	100		10/01/08 03:47	75-34-3	
1,2-Dichloroethane	**<36.0**	ug/L	100	36.0	100		10/01/08 03:47	107-06-2	
1,1-Dichloroethene	**<57.0**	ug/L	100	57.0	100		10/01/08 03:47	75-35-4	
cis-1,2-Dichloroethene	**3130**	ug/L	100	83.0	100		10/01/08 03:47	156-59-2	
trans-1,2-Dichloroethene	**<89.0**	ug/L	100	89.0	100		10/01/08 03:47	156-60-5	
1,2-Dichloropropane	**<49.0**	ug/L	100	49.0	100		10/01/08 03:47	78-87-5	
1,3-Dichloropropane	**<61.0**	ug/L	203	61.0	100		10/01/08 03:47	142-28-9	
2,2-Dichloropropane	**<62.0**	ug/L	100	62.0	100		10/01/08 03:47	594-20-7	
1,1-Dichloropropene	**<75.0**	ug/L	100	75.0	100		10/01/08 03:47	563-58-6	
cis-1,3-Dichloropropene	**<20.0**	ug/L	66.7	20.0	100		10/01/08 03:47	10061-01-5	
trans-1,3-Dichloropropene	**<19.0**	ug/L	63.3	19.0	100		10/01/08 03:47	10061-02-6	
Diisopropyl ether	**<76.0**	ug/L	100	76.0	100		10/01/08 03:47	108-20-3	
Ethylbenzene	**<54.0**	ug/L	100	54.0	100		10/01/08 03:47	100-41-4	
Hexachloro-1,3-butadiene	**<67.0**	ug/L	500	67.0	100		10/01/08 03:47	87-68-3	
Isopropylbenzene (Cumene)	**<59.0**	ug/L	100	59.0	100		10/01/08 03:47	98-82-8	
p-Isopropyltoluene	**<67.0**	ug/L	100	67.0	100		10/01/08 03:47	99-87-6	
Methylene Chloride	**<43.0**	ug/L	143	43.0	100		10/01/08 03:47	75-09-2	
Methyl-tert-butyl ether	**<61.0**	ug/L	203	61.0	100		10/01/08 03:47	1634-04-4	
Naphthalene	**<89.0**	ug/L	500	89.0	100		10/01/08 03:47	91-20-3	
n-Propylbenzene	**<81.0**	ug/L	100	81.0	100		10/01/08 03:47	103-65-1	
Styrene	**<86.0**	ug/L	100	86.0	100		10/01/08 03:47	100-42-5	
1,1,1,2-Tetrachloroethane	**<92.0**	ug/L	100	92.0	100		10/01/08 03:47	630-20-6	
1,1,2,2-Tetrachloroethane	**<20.0**	ug/L	66.7	20.0	100		10/01/08 03:47	79-34-5	
Tetrachloroethene	**8420**	ug/L	100	45.0	100		10/01/08 03:47	127-18-4	
Toluene	**<67.0**	ug/L	100	67.0	100		10/01/08 03:47	108-88-3	
1,2,3-Trichlorobenzene	**<74.0**	ug/L	100	74.0	100		10/01/08 03:47	87-61-6	
1,2,4-Trichlorobenzene	**<97.0**	ug/L	100	97.0	100		10/01/08 03:47	120-82-1	
1,1,1-Trichloroethane	**<90.0**	ug/L	100	90.0	100		10/01/08 03:47	71-55-6	
1,1,2-Trichloroethane	**<42.0**	ug/L	140	42.0	100		10/01/08 03:47	79-00-5	
Trichloroethene	**486**	ug/L	100	48.0	100		10/01/08 03:47	79-01-6	
Trichlorofluoromethane	**<79.0**	ug/L	100	79.0	100		10/01/08 03:47	75-69-4	
1,2,3-Trichloropropane	**<99.0**	ug/L	100	99.0	100		10/01/08 03:47	96-18-4	
1,2,4-Trimethylbenzene	**<97.0**	ug/L	100	97.0	100		10/01/08 03:47	95-63-6	
1,3,5-Trimethylbenzene	**<83.0**	ug/L	100	83.0	100		10/01/08 03:47	108-67-8	
Vinyl chloride	**507**	ug/L	60.0	18.0	100		10/01/08 03:47	75-01-4	
m&p-Xylene	**<180**	ug/L	200	180	100		10/01/08 03:47	1330-20-7	
o-Xylene	**<83.0**	ug/L	100	83.0	100		10/01/08 03:47	95-47-6	
4-Bromofluorobenzene (S)	101	%	64-132		100		10/01/08 03:47	460-00-4	
Dibromofluoromethane (S)	95	%	68-122		100		10/01/08 03:47	1868-53-7	pH
Toluene-d8 (S)	106	%	73-127		100		10/01/08 03:47	2037-26-5	

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ANALYTICAL RESULTS

Project: 10509.00 LA HACIENDA
Pace Project No.: 409497

Sample: MW-3 **Lab ID: 409497003** Collected: 09/24/08 10:05 Received: 09/26/08 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<41.0**	ug/L	100	41.0	100		10/01/08 04:11	71-43-2	
Bromobenzene	**<82.0**	ug/L	100	82.0	100		10/01/08 04:11	108-86-1	
Bromochloromethane	**<97.0**	ug/L	100	97.0	100		10/01/08 04:11	74-97-5	
Bromodichloromethane	**<56.0**	ug/L	187	56.0	100		10/01/08 04:11	75-27-4	
Bromoform	**<94.0**	ug/L	313	94.0	100		10/01/08 04:11	75-25-2	
Bromomethane	**<91.0**	ug/L	303	91.0	100		10/01/08 04:11	74-83-9	
n-Butylbenzene	**<93.0**	ug/L	100	93.0	100		10/01/08 04:11	104-51-8	
sec-Butylbenzene	**<89.0**	ug/L	500	89.0	100		10/01/08 04:11	135-98-8	
tert-Butylbenzene	**<97.0**	ug/L	100	97.0	100		10/01/08 04:11	98-06-6	
Carbon tetrachloride	**<49.0**	ug/L	100	49.0	100		10/01/08 04:11	56-23-5	
Chlorobenzene	**<41.0**	ug/L	100	41.0	100		10/01/08 04:11	108-90-7	
Chloroethane	**<97.0**	ug/L	100	97.0	100		10/01/08 04:11	75-00-3	
Chloroform	**<130**	ug/L	433	130	100		10/01/08 04:11	67-66-3	
Chloromethane	**<24.0**	ug/L	80.0	24.0	100		10/01/08 04:11	74-87-3	
2-Chlorotoluene	**<85.0**	ug/L	100	85.0	100		10/01/08 04:11	95-49-8	
4-Chlorotoluene	**<74.0**	ug/L	100	74.0	100		10/01/08 04:11	106-43-4	
1,2-Dibromo-3-chloropropane	**<168**	ug/L	560	168	100		10/01/08 04:11	96-12-8	
Dibromochloromethane	**<81.0**	ug/L	100	81.0	100		10/01/08 04:11	124-48-1	
1,2-Dibromoethane (EDB)	**<56.0**	ug/L	187	56.0	100		10/01/08 04:11	106-93-4	
Dibromomethane	**<60.0**	ug/L	100	60.0	100		10/01/08 04:11	74-95-3	
1,2-Dichlorobenzene	**<83.0**	ug/L	100	83.0	100		10/01/08 04:11	95-50-1	
1,3-Dichlorobenzene	**<87.0**	ug/L	100	87.0	100		10/01/08 04:11	541-73-1	
1,4-Dichlorobenzene	**<95.0**	ug/L	100	95.0	100		10/01/08 04:11	106-46-7	
Dichlorodifluoromethane	**<99.0**	ug/L	100	99.0	100		10/01/08 04:11	75-71-8	
1,1-Dichloroethane	**<75.0**	ug/L	100	75.0	100		10/01/08 04:11	75-34-3	
1,2-Dichloroethane	**<36.0**	ug/L	100	36.0	100		10/01/08 04:11	107-06-2	
1,1-Dichloroethene	**<57.0**	ug/L	100	57.0	100		10/01/08 04:11	75-35-4	
cis-1,2-Dichloroethene	**10200**	ug/L	100	83.0	100		10/01/08 04:11	156-59-2	
trans-1,2-Dichloroethene	**386**	ug/L	100	89.0	100		10/01/08 04:11	156-60-5	
1,2-Dichloropropane	**<49.0**	ug/L	100	49.0	100		10/01/08 04:11	78-87-5	
1,3-Dichloropropane	**<61.0**	ug/L	203	61.0	100		10/01/08 04:11	142-28-9	
2,2-Dichloropropane	**<62.0**	ug/L	100	62.0	100		10/01/08 04:11	594-20-7	
1,1-Dichloropropene	**<75.0**	ug/L	100	75.0	100		10/01/08 04:11	563-58-6	
cis-1,3-Dichloropropene	**<20.0**	ug/L	66.7	20.0	100		10/01/08 04:11	10061-01-5	
trans-1,3-Dichloropropene	**<19.0**	ug/L	63.3	19.0	100		10/01/08 04:11	10061-02-6	
Diisopropyl ether	**<76.0**	ug/L	100	76.0	100		10/01/08 04:11	108-20-3	
Ethylbenzene	**<54.0**	ug/L	100	54.0	100		10/01/08 04:11	100-41-4	
Hexachloro-1,3-butadiene	**<67.0**	ug/L	500	67.0	100		10/01/08 04:11	87-68-3	
Isopropylbenzene (Cumene)	**<59.0**	ug/L	100	59.0	100		10/01/08 04:11	98-82-8	
p-Isopropyltoluene	**<67.0**	ug/L	100	67.0	100		10/01/08 04:11	99-87-6	
Methylene Chloride	**<43.0**	ug/L	143	43.0	100		10/01/08 04:11	75-09-2	
Methyl-tert-butyl ether	**<61.0**	ug/L	203	61.0	100		10/01/08 04:11	1634-04-4	
Naphthalene	**<89.0**	ug/L	500	89.0	100		10/01/08 04:11	91-20-3	
n-Propylbenzene	**<81.0**	ug/L	100	81.0	100		10/01/08 04:11	103-65-1	
Styrene	**<86.0**	ug/L	100	86.0	100		10/01/08 04:11	100-42-5	
1,1,1,2-Tetrachloroethane	**<92.0**	ug/L	100	92.0	100		10/01/08 04:11	630-20-6	

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ANALYTICAL RESULTS

Project: 10509.00 LA HACIENDA
Pace Project No.: 409497

Sample: MW-3 **Lab ID: 409497003** Collected: 09/24/08 10:05 Received: 09/26/08 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<20.0**	ug/L	66.7	20.0	100		10/01/08 04:11	79-34-5	
Tetrachloroethene	**1340**	ug/L	100	45.0	100		10/01/08 04:11	127-18-4	
Toluene	**<67.0**	ug/L	100	67.0	100		10/01/08 04:11	108-88-3	
1,2,3-Trichlorobenzene	**<74.0**	ug/L	100	74.0	100		10/01/08 04:11	87-61-6	
1,2,4-Trichlorobenzene	**<97.0**	ug/L	100	97.0	100		10/01/08 04:11	120-82-1	
1,1,1-Trichloroethane	**<90.0**	ug/L	100	90.0	100		10/01/08 04:11	71-55-6	
1,1,2-Trichloroethane	**<42.0**	ug/L	140	42.0	100		10/01/08 04:11	79-00-5	
Trichloroethene	**1230**	ug/L	100	48.0	100		10/01/08 04:11	79-01-6	
Trichlorofluoromethane	**<79.0**	ug/L	100	79.0	100		10/01/08 04:11	75-69-4	
1,2,3-Trichloropropane	**<99.0**	ug/L	100	99.0	100		10/01/08 04:11	96-18-4	
1,2,4-Trimethylbenzene	**<97.0**	ug/L	100	97.0	100		10/01/08 04:11	95-63-6	
1,3,5-Trimethylbenzene	**<83.0**	ug/L	100	83.0	100		10/01/08 04:11	108-67-8	
Vinyl chloride	**20.1J**	ug/L	60.0	18.0	100		10/01/08 04:11	75-01-4	
m&p-Xylene	**<180**	ug/L	200	180	100		10/01/08 04:11	1330-20-7	
o-Xylene	**<83.0**	ug/L	100	83.0	100		10/01/08 04:11	95-47-6	
4-Bromofluorobenzene (S)	100	%	64-132		100		10/01/08 04:11	460-00-4	
Dibromofluoromethane (S)	96	%	68-122		100		10/01/08 04:11	1868-53-7	
Toluene-d8 (S)	105	%	73-127		100		10/01/08 04:11	2037-26-5	

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QUALITY CONTROL DATA

Project: 10509.00 LA HACIENDA
Pace Project No.: 409497

QC Batch: MSV/2693 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 409497001, 409497002, 409497003

METHOD BLANK: 82151 Matrix: Water
Associated Lab Samples: 409497001, 409497002, 409497003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.92	1.0	09/30/08 06:50	
1,1,1-Trichloroethane	ug/L	<0.90	1.0	09/30/08 06:50	
1,1,2,2-Tetrachloroethane	ug/L	<0.20	0.67	09/30/08 06:50	
1,1,2-Trichloroethane	ug/L	<0.42	1.4	09/30/08 06:50	
1,1-Dichloroethane	ug/L	<0.75	1.0	09/30/08 06:50	
1,1-Dichloroethene	ug/L	<0.57	1.0	09/30/08 06:50	
1,1-Dichloropropene	ug/L	<0.75	1.0	09/30/08 06:50	
1,2,3-Trichlorobenzene	ug/L	<0.74	1.0	09/30/08 06:50	
1,2,3-Trichloropropane	ug/L	<0.99	1.0	09/30/08 06:50	
1,2,4-Trichlorobenzene	ug/L	<0.97	1.0	09/30/08 06:50	
1,2,4-Trimethylbenzene	ug/L	<0.97	1.0	09/30/08 06:50	
1,2-Dibromo-3-chloropropane	ug/L	<1.7	5.6	09/30/08 06:50	
1,2-Dibromoethane (EDB)	ug/L	<0.56	1.9	09/30/08 06:50	
1,2-Dichlorobenzene	ug/L	<0.83	1.0	09/30/08 06:50	
1,2-Dichloroethane	ug/L	<0.36	1.0	09/30/08 06:50	
1,2-Dichloropropane	ug/L	<0.49	1.0	09/30/08 06:50	
1,3,5-Trimethylbenzene	ug/L	<0.83	1.0	09/30/08 06:50	
1,3-Dichlorobenzene	ug/L	<0.87	1.0	09/30/08 06:50	
1,3-Dichloropropane	ug/L	<0.61	2.0	09/30/08 06:50	
1,4-Dichlorobenzene	ug/L	<0.95	1.0	09/30/08 06:50	
2,2-Dichloropropane	ug/L	<0.62	1.0	09/30/08 06:50	
2-Chlorotoluene	ug/L	<0.85	1.0	09/30/08 06:50	
4-Chlorotoluene	ug/L	<0.74	1.0	09/30/08 06:50	
Benzene	ug/L	<0.41	1.0	09/30/08 06:50	
Bromobenzene	ug/L	<0.82	1.0	09/30/08 06:50	
Bromochloromethane	ug/L	<0.97	1.0	09/30/08 06:50	
Bromodichloromethane	ug/L	<0.56	1.9	09/30/08 06:50	
Bromoform	ug/L	<0.94	3.1	09/30/08 06:50	
Bromomethane	ug/L	<0.91	3.0	09/30/08 06:50	
Carbon tetrachloride	ug/L	<0.49	1.0	09/30/08 06:50	
Chlorobenzene	ug/L	<0.41	1.0	09/30/08 06:50	
Chloroethane	ug/L	<0.97	1.0	09/30/08 06:50	
Chloroform	ug/L	<1.3	4.3	09/30/08 06:50	
Chloromethane	ug/L	<0.24	0.80	09/30/08 06:50	
cis-1,2-Dichloroethene	ug/L	<0.83	1.0	09/30/08 06:50	
cis-1,3-Dichloropropene	ug/L	<0.20	0.67	09/30/08 06:50	
Dibromochloromethane	ug/L	<0.81	1.0	09/30/08 06:50	
Dibromomethane	ug/L	<0.60	1.0	09/30/08 06:50	
Dichlorodifluoromethane	ug/L	<0.99	1.0	09/30/08 06:50	
Diisopropyl ether	ug/L	<0.76	1.0	09/30/08 06:50	
Ethylbenzene	ug/L	<0.54	1.0	09/30/08 06:50	
Hexachloro-1,3-butadiene	ug/L	<0.67	5.0	09/30/08 06:50	
Isopropylbenzene (Cumene)	ug/L	<0.59	1.0	09/30/08 06:50	

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QUALITY CONTROL DATA

Project: 10509.00 LA HACIENDA
Pace Project No.: 409497

METHOD BLANK: 82151 Matrix: Water

Associated Lab Samples: 409497001, 409497002, 409497003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/L	<1.8	2.0	09/30/08 06:50	
Methyl-tert-butyl ether	ug/L	<0.61	2.0	09/30/08 06:50	
Methylene Chloride	ug/L	<0.43	1.4	09/30/08 06:50	
n-Butylbenzene	ug/L	<0.93	1.0	09/30/08 06:50	
n-Propylbenzene	ug/L	<0.81	1.0	09/30/08 06:50	
Naphthalene	ug/L	<0.89	5.0	09/30/08 06:50	
o-Xylene	ug/L	<0.83	1.0	09/30/08 06:50	
p-Isopropyltoluene	ug/L	<0.67	1.0	09/30/08 06:50	
sec-Butylbenzene	ug/L	<0.89	5.0	09/30/08 06:50	
Styrene	ug/L	<0.86	1.0	09/30/08 06:50	
tert-Butylbenzene	ug/L	<0.97	1.0	09/30/08 06:50	
Tetrachloroethene	ug/L	<0.45	1.0	09/30/08 06:50	
Toluene	ug/L	<0.67	1.0	09/30/08 06:50	
trans-1,2-Dichloroethene	ug/L	<0.89	1.0	09/30/08 06:50	
trans-1,3-Dichloropropene	ug/L	<0.19	0.63	09/30/08 06:50	
Trichloroethene	ug/L	<0.48	1.0	09/30/08 06:50	
Trichlorofluoromethane	ug/L	<0.79	1.0	09/30/08 06:50	
Vinyl chloride	ug/L	<0.18	0.60	09/30/08 06:50	
4-Bromofluorobenzene (S)	%	101	64-132	09/30/08 06:50	
Dibromofluoromethane (S)	%	96	68-122	09/30/08 06:50	
Toluene-d8 (S)	%	107	73-127	09/30/08 06:50	

LABORATORY CONTROL SAMPLE & LCSD: 82152 82153

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.3	49.0	97	98	75-128	1	20	
1,1,2,2-Tetrachloroethane	ug/L	50	44.3	45.6	89	91	67-125	3	20	
1,1,2-Trichloroethane	ug/L	50	47.9	48.4	96	97	75-125	1	20	
1,1-Dichloroethane	ug/L	50	47.1	46.7	94	93	71-130	.7	20	
1,1-Dichloroethene	ug/L	50	49.5	49.0	99	98	75-125	.9	20	
1,2-Dichloroethane	ug/L	50	44.5	45.3	89	91	71-132	2	20	
1,2-Dichloropropane	ug/L	50	48.7	48.7	97	97	73-125	.1	20	
Benzene	ug/L	50	48.2	48.7	96	97	75-125	1	20	
Bromodichloromethane	ug/L	50	47.3	47.3	95	95	75-125	.01	20	
Bromoform	ug/L	50	45.2	46.3	90	93	75-125	2	20	
Bromomethane	ug/L	50	38.3	43.1	77	86	66-125	12	20	
Carbon tetrachloride	ug/L	50	49.7	50.6	99	101	75-125	2	20	
Chlorobenzene	ug/L	50	51.1	51.4	102	103	75-125	.6	20	
Chloroethane	ug/L	50	45.3	45.3	91	91	72-126	.02	20	
Chloroform	ug/L	50	46.0	46.2	92	92	75-125	.4	20	
Chloromethane	ug/L	50	36.4	36.7	73	73	46-143	.7	20	
cis-1,2-Dichloroethene	ug/L	50	49.0	48.6	98	97	75-125	.9	20	
cis-1,3-Dichloropropene	ug/L	50	49.8	51.1	100	102	75-125	3	20	
Dibromochloromethane	ug/L	50	46.6	47.7	93	95	75-125	2	20	
Ethylbenzene	ug/L	50	51.1	51.1	102	102	75-125	.08	20	

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QUALITY CONTROL DATA

Project: 10509.00 LA HACIENDA
Pace Project No.: 409497

LABORATORY CONTROL SAMPLE & LCSD: 82152 82153

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
m&p-Xylene	ug/L	100	106	106	106	106	75-125	.1	20	
Methylene Chloride	ug/L	50	47.8	48.1	96	96	75-125	.5	20	
o-Xylene	ug/L	50	52.4	51.7	105	103	75-125	1	20	
Styrene	ug/L	50	47.7	48.1	95	96	75-125	.9	20	
Tetrachloroethene	ug/L	50	53.3	53.4	107	107	75-130	.2	20	
Toluene	ug/L	50	51.2	51.2	102	102	75-125	.04	20	
trans-1,2-Dichloroethene	ug/L	50	52.9	55.9	106	112	75-125	6	20	
trans-1,3-Dichloropropene	ug/L	50	46.2	47.7	92	95	75-125	3	20	
Trichloroethene	ug/L	50	50.5	50.7	101	101	75-125	.4	20	
Vinyl chloride	ug/L	50	40.9	42.0	82	84	65-130	3	20	
4-Bromofluorobenzene (S)	%				102	102	64-132			
Dibromofluoromethane (S)	%				95	95	68-122			
Toluene-d8 (S)	%				106	106	73-127			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 82541 82542

Parameter	Units	409470002 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	<0.90	50	50	52.6	49.2	105	98	70-130	7	30	
1,1,2,2-Tetrachloroethane	ug/L	<0.20	50	50	47.7	43.8	95	88	70-130	9	30	
1,1,2-Trichloroethane	ug/L	<0.42	50	50	50.1	47.0	100	94	70-130	6	30	
1,1-Dichloroethane	ug/L	<0.75	50	50	51.4	48.2	103	96	70-130	7	30	
1,1-Dichloroethene	ug/L	<0.57	50	50	56.1	52.3	112	105	70-135	7	30	
1,2-Dichloroethane	ug/L	<0.36	50	50	47.4	44.5	95	89	70-130	6	30	
1,2-Dichloropropane	ug/L	<0.49	50	50	52.3	48.4	105	97	70-130	8	30	
Benzene	ug/L	<0.41	50	50	51.6	48.4	103	96	70-130	6	30	
Bromodichloromethane	ug/L	<0.56	50	50	50.7	47.0	101	94	70-130	8	30	
Bromoform	ug/L	<0.94	50	50	47.5	44.2	95	88	70-130	7	30	
Bromomethane	ug/L	<0.91	50	50	52.8	51.0	106	102	63-147	4	30	
Carbon tetrachloride	ug/L	<0.49	50	50	55.0	51.3	110	103	70-131	7	30	
Chlorobenzene	ug/L	<0.41	50	50	54.2	49.2	108	98	70-130	10	30	
Chloroethane	ug/L	<0.97	50	50	53.8	50.0	108	100	67-138	7	30	
Chloroform	ug/L	<1.3	50	50	49.7	46.4	99	93	70-130	7	30	
Chloromethane	ug/L	<0.24	50	50	52.2	48.5	104	97	43-150	7	30	
cis-1,2-Dichloroethene	ug/L	<0.83	50	50	53.4	49.5	107	99	70-130	8	30	
cis-1,3-Dichloropropene	ug/L	<0.20	50	50	53.8	48.8	108	98	70-130	10	30	
Dibromochloromethane	ug/L	<0.81	50	50	49.2	46.3	98	93	70-130	6	30	
Ethylbenzene	ug/L	<0.54	50	50	53.6	49.4	107	99	70-136	8	30	
m&p-Xylene	ug/L	<1.8	100	100	111	101	110	101	70-137	9	30	
Methylene Chloride	ug/L	<0.43	50	50	53.6	49.6	107	99	70-130	8	30	
o-Xylene	ug/L	<0.83	50	50	54.5	49.5	109	99	70-130	10	30	
Styrene	ug/L	<0.86	50	50	49.8	45.6	100	91	70-130	9	30	
Tetrachloroethene	ug/L	<0.45	50	50	57.3	51.9	115	104	70-130	10	30	
Toluene	ug/L	<0.67	50	50	54.6	50.4	108	100	70-130	8	30	
trans-1,2-Dichloroethene	ug/L	<0.89	50	50	56.6	53.0	113	106	70-130	7	30	
trans-1,3-Dichloropropene	ug/L	<0.19	50	50	50.3	46.6	101	93	70-130	8	30	
Trichloroethene	ug/L	<0.48	50	50	54.7	50.2	109	100	70-130	8	30	

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

QUALITY CONTROL DATA

Project: 10509.00 LA HACIENDA
Pace Project No.: 409497

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 82541 82542

Parameter	Units	409470002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Vinyl chloride	ug/L	<0.18	50	50	53.7	50.1	107	100	62-138	7	30	
4-Bromofluorobenzene (S)	%						100	100	64-132			
Dibromofluoromethane (S)	%						97	97	68-122			
Toluene-d8 (S)	%						105	107	73-127			

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

QUALIFIERS

Project: 10509.00 LA HACIENDA
Pace Project No.: 409497

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

pH Post-analysis pH measurement indicates insufficient VOA sample preservation.

Appendix C
Beacon Environmental Services Reports

BEACON ENVIRONMENTAL SERVICES, INC.

The Leaders in Soil Gas Surveys and Vapor Intrusion Monitoring

Seymour Environmental Services, Inc.
2531 Dyreson Road
McFarland, WI 53558
Attn: Ms. Robyn Seymour

Passive Soil Gas Survey – Analytical Report
Date: August 1, 2012

Beacon Project No. 2541

Project Reference:	La Hacienda Restaurant, Madison, WI
Samplers Installed:	July 9 and 10, 2012
Samplers Retrieved:	July 16 and 17, 2012
Samples Received:	July 18, 2012
Analyses Completed:	July 25, 2012
Laboratory Data Issued:	July 25, 2012

EPA Method 8260C (Modified)
All samples were successfully analyzed using thermal desorption-gas chromatography/mass spectrometry (TD-GC/MS) instrumentation to target a custom compound list following EPA Method 8260C. Laboratory results are reported in nanograms (ng) of specific compound per sample.

Laboratory QA/QC procedures included internal standards, surrogates, and blanks based on EPA Method 8260C. Analyses and reporting were in accordance with BEACON's Quality Assurance Project Plan.

Reporting limits
The contract required quantification limit (CRQL) is 25 nanograms (ng) for individual compounds and 5,000 ng for Total Petroleum Hydrocarbons (TPH). **Table 1** provides survey results in nanograms per sampler by sample-point number and compound name. The CRQLs represent a baseline above which results exceed laboratory-determined limits of precision and accuracy. Any field sample measurements above the upper calibration standard are estimated; however, these values are reported without qualifiers because all reported measurements are relative to each other and are appropriate to meet the survey objectives of locating source areas and vapor intrusion pathways and defining the lateral extent of contamination.

Calibration Verification
The continuing calibration verification (CCV) values for the calibration check compounds were all within ±20% of the true values as defined by the initial five-point calibration and met the requirements specified in Beacon Environmental's Quality Assurance Project Plan.

Method Blanks/Trip Blanks
Laboratory method blanks are run with each sample batch to identify contamination present in the laboratory. If contamination is detected on a method blank, measurements of identical compounds in that sample batch are flagged in the laboratory report. The laboratory method blanks analyzed in connection with the present samples revealed no contamination.

The trip blank is a sampler prepared, transported, and analyzed with other samples but intentionally not exposed. Any target compounds identified on the trip blanks are reported in the laboratory data. The analysis of the trip blank (labeled Trip-1 in **Table 1**) reported none of the targeted compounds.

Passive Soil-Gas Survey Notes

When sample locations are covered with or near the edge of an artificial surface (*e.g.*, asphalt or concrete), the concentrations of compounds in soil gas are often significantly higher than the concentrations would be if the surfacing were not present. Thus, a reading taken below or near an impermeable surface is much higher than it would be in the absence of such a cap. Therefore, the sample location conditions should be evaluated when comparing results between locations.

Survey findings are exclusive to this project and when the spatial relationships are compared with results of other BEACON Surveys it is necessary to incorporate survey and site information from both investigations (*e.g.*, depth to sources, soil types, porosity, soil moisture, presence of impervious surfacing, sample collection times). BEACON recommends the guidelines stated in **Attachment 1** to establish a relationship between reported soil-gas measurements and actual subsurface contaminant concentrations, which will indicate those measurements representing significant subsurface contamination.

Project Details

Samplers were deployed on July 9 and 10, 2012, and were retrieved on July 16 and 17, 2012. **Attachment 2** describes the field procedures used. Individual deployment and retrieval times will be found in the Field Deployment Report (**Attachment 3**).

Twenty-six (26) field samples and one (1) trip blank were received by BEACON on July 18, 2012. Adsorbent cartridges from the passive samplers were thermally desorbed, then analyzed using gas chromatography/mass spectrometry (GC/MS) equipment, in accordance with EPA Method 8260C (Modified), as described in **Attachment 4**. BEACON's laboratory analyzed each sample for the targeted compounds; analyses were completed on July 25, 2012. Following a laboratory review, results were provided to SEYMOUR on July 25, 2012. The Chain-of-Custody form, which was shipped with the samples for this survey, is supplied as **Attachment 5**.

Field samples 20, 24, and 25 detected inordinately high measurements of Tetrachloroethen (PCE) that were not automatically identified (*i.e.*, integrated) by the analytical software. To ensure that data quality objectives were met, manual integration was performed by the analyst to quantify the PCE measurements on each of these samples, in accordance with BEACON's QA/QC program. All data reported for these samples are reported with high confidence.

Sample locations are shown on **Figure 1**. The following table lists frequency of detections based on the number of field samples analyzed, the reporting limit, and the maximum value for each mapped compound. The table also includes the transformation and interpolation method for the compound distribution maps provided.

Figure No.	**2**	**3**	**4**
Compound	cis-1,2-Dichloroethene-	Trichloroethene	Tetrachloroethene
Frequency	9	12	18
Reporting Limit (nanograms)	25	25	25
Max Value (nanograms)	3,033	99,043	65,486
Transformation Method	Log	Log	Log
Interpolation Method	Kriging	Kriging	Kriging

Attachments:

-1- Applying Results From Passive Soil-Gas Surveys
-2- Field Procedures
-3- Field Deployment Report
-4- Laboratory Procedures
-5- Chain-of-Custody Form

ALL DATA MEET REQUIREMENTS AS SPECIFIED IN THE BEACON ENVIRONMENTAL SERVICES, INC. QUALITY ASSURANCE PROJECT PLAN AND THE RESULTS RELATE ONLY TO THE SAMPLES REPORTED. THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY. RELEASE OF THE DATA CONTAINED IN THIS HARDCOPY DATA PACKAGE HAS BEEN AUTHORIZED BY THE LABORATORY DIRECTOR OR HIS SIGNEE, AS VERIFIED BY THE FOLLOWING SIGNATURES:

Steven C. Thornley
Laboratory Director

Patti J. Riggs
Quality Manager

Table 1

Beacon Environmental Services, Inc.
323 Williams Street
Bel Air, MD 21014 USA

Analysis by EPA Method 8260C (Modified)

	Client Sample ID:	mb120723a	Trip-1	1	2	3	4
	Project Number:		2541	2541	2541	2541	2541
	Lab File ID:	A12072305	A12072323	A12072324	A12072325	A12072326	A12072464
	Received Date:		7/18/2012	7/18/2012	7/18/2012	7/18/2012	7/18/2012
	Analysis Date:	7/23/2012	7/23/2012	7/23/2012	7/23/2012	7/23/2012	7/25/2012
	Analysis Time:	10:26	17:23	17:46	18:09	18:32	9:47
	Matrix:			Soil Gas	Soil Gas	Soil Gas	Soil Gas
	Units:	ng	ng	ng	ng	ng	ng
COMPOUNDS							
Vinyl Chloride		<25	<25	<25	<25	<25	<25
1,1-Dichloroethene		<25	<25	<25	<25	**51**	<25
trans-1,2-Dichloroethene		<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene		<25	<25	<25	<25	**82**	<25
Trichloroethene		<25	<25	<25	<25	**5,705**	<25
Tetrachloroethene		<25	<25	**57**	**30**	**25,681**	<25

Results in nanograms (ng). B = Detected in method blank.

Table 1

Beacon Environmental Services, Inc.
323 Williams Street
Bel Air, MD 21014 USA

Analysis by EPA Method 8260C (Modified)

	Client Sample ID:	5	6	7	8	9	10
	Project Number:	2541	2541	2541	2541	2541	2541
	Lab File ID:	A12072328	A12072329	A12072330	A12072331	A12072332	A12072333
	Received Date:	7/18/2012	7/18/2012	7/18/2012	7/18/2012	7/18/2012	7/18/2012
	Analysis Date:	7/23/2012	7/23/2012	7/23/2012	7/23/2012	7/23/2012	7/23/2012
	Analysis Time:	19:17	19:40	20:03	20:25	20:48	21:11
	Matrix:	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
	Units:	ng	ng	ng	ng	ng	ng
COMPOUNDS							
Vinyl Chloride		<25	<25	<25	<25	<25	<25
1,1-Dichloroethene		<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene		<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene		<25	<25	<25	<25	<25	<25
Trichloroethene		<25	<25	<25	<25	<25	**233**
Tetrachloroethene		**33**	**36**	<25	<25	**216**	**704**

Results in nanograms (ng). B = Detected in method blank.

Table 1

Beacon Environmental Services, Inc.
323 Williams Street
Bel Air, MD 21014 USA

Analysis by EPA Method 8260C (Modified)

	Client Sample ID:	11	12	13	14	15	16
	Project Number:	2541	2541	2541	2541	2541	2541
	Lab File ID:	A12072334	A12072335	A12072336	A12072337	A12072338	A12072339
	Received Date:	7/18/2012	7/18/2012	7/18/2012	7/18/2012	7/18/2012	7/18/2012
	Analysis Date:	7/23/2012	7/23/2012	7/23/2012	7/23/2012	7/23/2012	7/23/2012
	Analysis Time:	21:34	21:56	22:19	22:42	23:05	23:28
	Matrix:	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
	Units:	ng	ng	ng	ng	ng	ng
COMPOUNDS							
Vinyl Chloride		<25	<25	<25	<25	<25	<25
1,1-Dichloroethene		<25	<25	**81**	<25	<25	<25
trans-1,2-Dichloroethene		<25	**65**	**100**	<25	<25	<25
cis-1,2-Dichloroethene		<25	**331**	**256**	<25	<25	<25
Trichloroethene		**29**	**1,106**	**3,904**	<25	<25	<25
Tetrachloroethene		**78**	**2,921**	**10,280**	<25	**52**	<25

Results in nanograms (ng). B = Detected in method blank.

Table 1

Beacon Environmental Services, Inc.
323 Williams Street
Bel Air, MD 21014 USA

Analysis by EPA Method 8260C (Modified)

	Client Sample ID:	17	18	19	20	21	22
	Project Number:	2541	2541	2541	2541	2541	2541
	Lab File ID:	A12072340	A12072341	A12072342	A12072343	A12072465	A12072466
	Received Date:	7/18/2012	7/18/2012	7/18/2012	7/18/2012	7/18/2012	7/18/2012
	Analysis Date:	7/23/2012	7/24/2012	7/24/2012	7/24/2012	7/25/2012	7/25/2012
	Analysis Time:	23:50	0:13	0:36	0:59	10:09	10:32
	Matrix:	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
	Units:	ng	ng	ng	ng	ng	ng
COMPOUNDS							
Vinyl Chloride		<25	<25	<25	<25	<25	<25
1,1-Dichloroethene		<25	<25	**30**	**96**	<25	<25
trans-1,2-Dichloroethene		**32**	<25	**39**	**232**	<25	<25
cis-1,2-Dichloroethene		**81**	**27**	**73**	**3,033**	<25	<25
Trichloroethene		**1,219**	**1,467**	**1,028**	**8,236**	<25	<25
Tetrachloroethene		**2,729**	**17,290**	**2,716**	**29,941**	<25	<25

Results in nanograms (ng). B = Detected in method blank.

Table 1

Beacon Environmental Services, Inc.
323 Williams Street
Bel Air, MD 21014 USA

Analysis by EPA Method 8260C (Modified)

	Client Sample ID:	23	24	25	26	mb120724a
	Project Number:	2541	2541	2541	2541	
	Lab File ID:	A12072346	A12072347	A12072348	A12072467	A12072413
	Received Date:	7/18/2012	7/18/2012	7/18/2012	7/18/2012	
	Analysis Date:	7/24/2012	7/24/2012	7/24/2012	7/25/2012	7/24/2012
	Analysis Time:	2:07	2:30	2:52	10:55	13:03
	Matrix:	Soil Gas	Soil Gas	Soil Gas	Soil Gas	
	Units:	ng	ng	ng	ng	ng
COMPOUNDS						
Vinyl Chloride		<25	<25	<25	<25	<25
1,1-Dichloroethene		<25	**417**	**614**	<25	<25
trans-1,2-Dichloroethene		<25	**234**	**751**	<25	<25
cis-1,2-Dichloroethene		<25	**827**	**905**	<25	<25
Trichloroethene		<25	**51,540**	**99,043**	**104**	<25
Tetrachloroethene		<25	**47,072**	**65,486**	**2,744**	<25

Results in nanograms (ng). B = Detected in method blank.

LEGEND

▲ 18 PASSIVE SOIL-GAS SAMPLE LOCATION

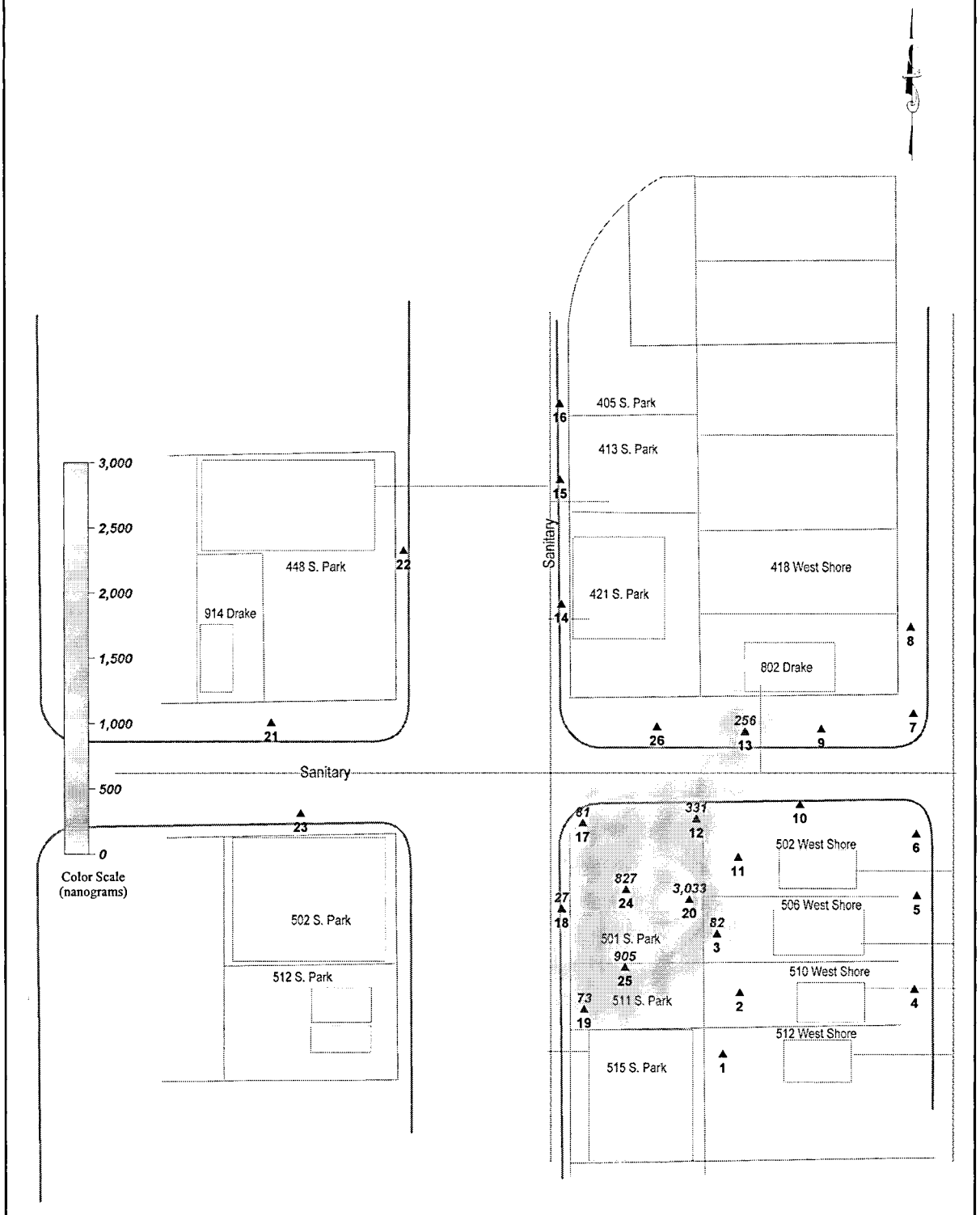
Scale in Feet

0 60 120

BEACON ENVIRONMENTAL SERVICES, INC.
323 Williams Street, Bel Air, MD. 21014, USA 1-410-838-8780
Beacon Project No. 2541, August 2012

Figure 1
Passive Soil-Gas Survey
Sample Locations

La Hacienda Restaurant
Madison, WI



LEGEND

1,000 NANOGRAMS/SAMPLER

▲ 18 PASSIVE SOIL-GAS SAMPLE LOCATION

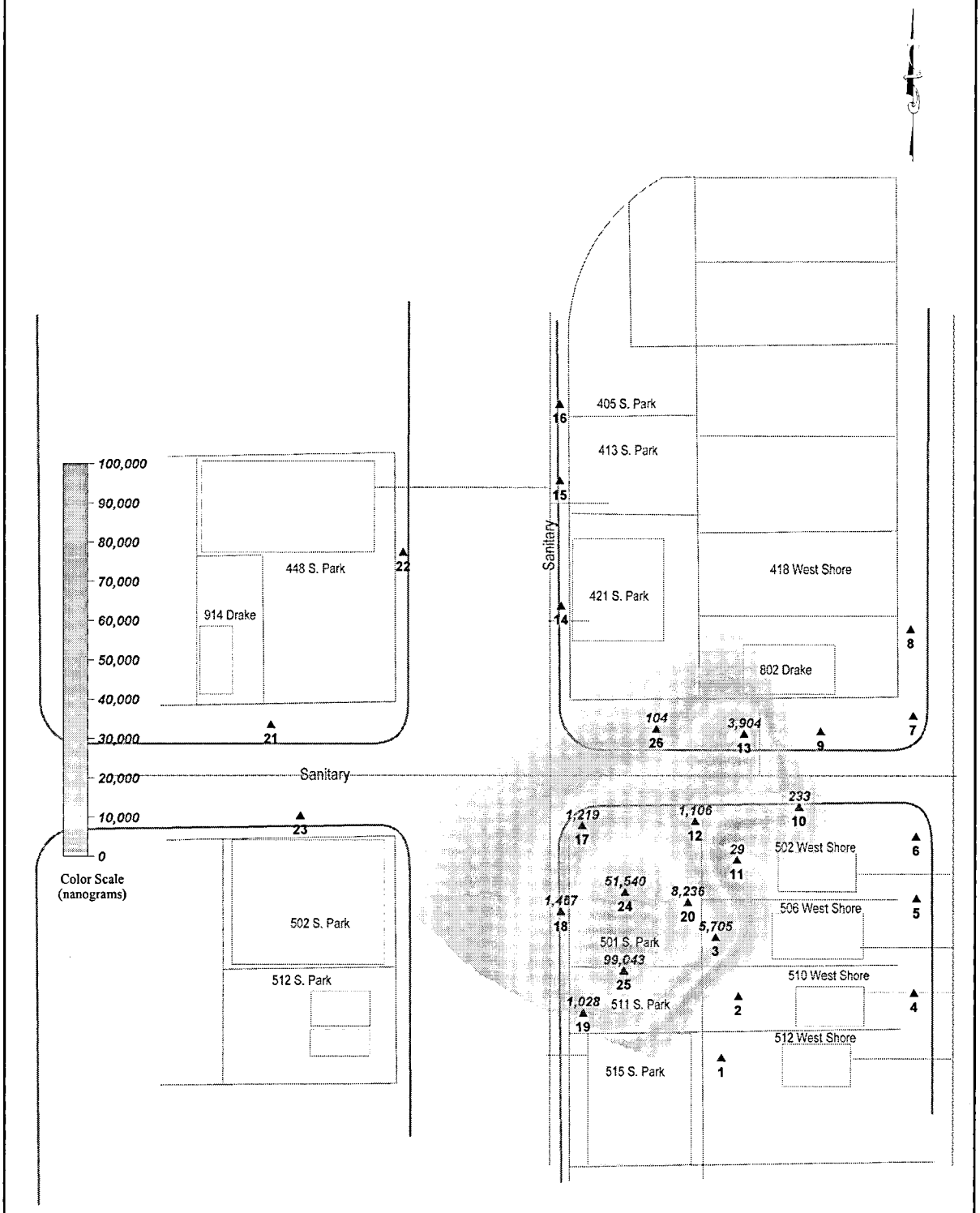
Scale in Feet

0 60 120

BEACON ENVIRONMENTAL SERVICES, INC.
323 Williams Street, Bel Air, MD, 21014, USA T-410-838-8780
Beacon Project No. 2541, August 2012

Figure 2
Passive Soil-Gas Survey
cis-1,2-Dichloroethene

La Hacienda Restaurant
Madison, WI



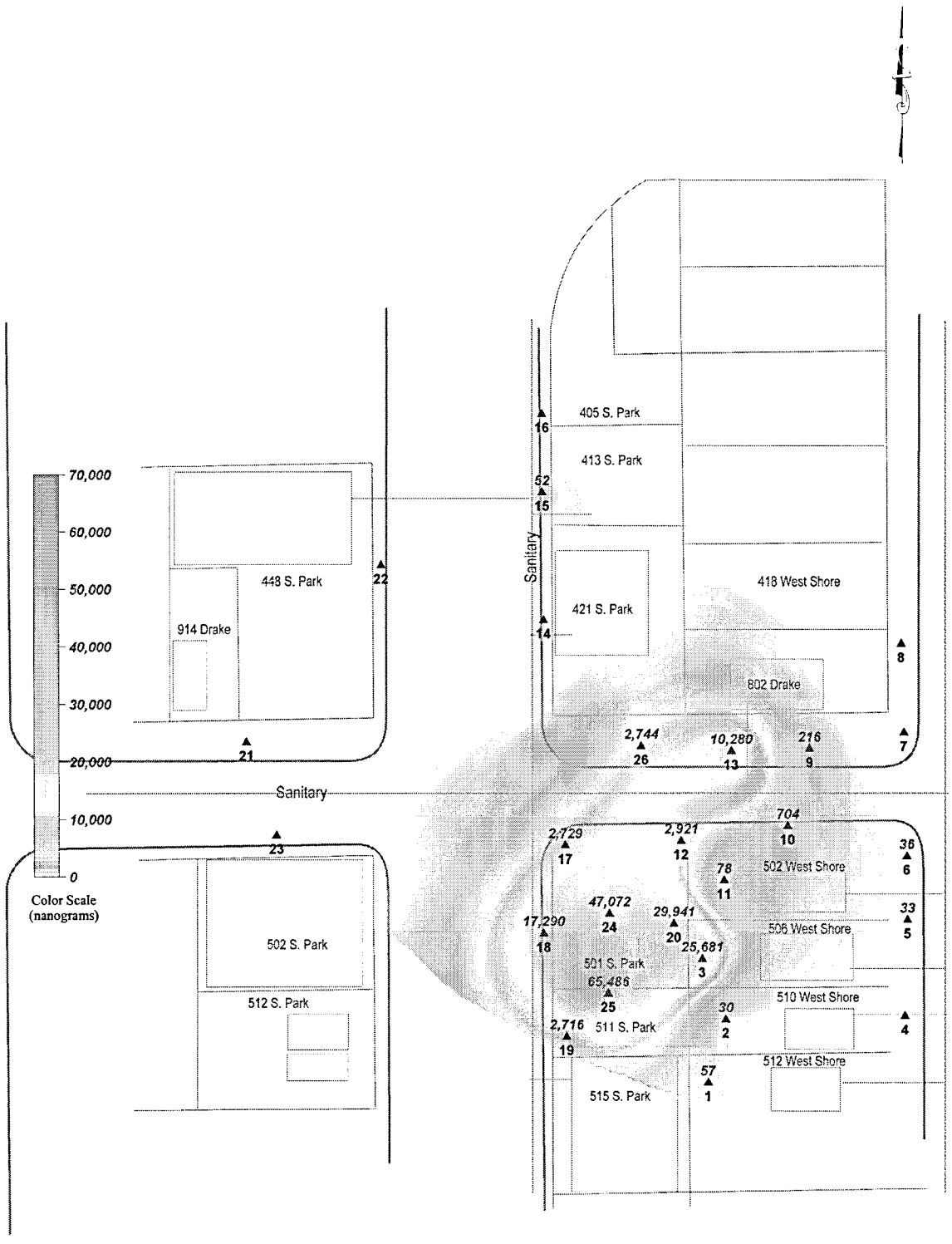
BEACON ENVIRONMENTAL SERVICES, INC.

323 Williams Street, Bel Air, MD, 21014, USA 1-410-838-8780

Beacon Project No. 2541, August 2012

Figure 3
Passive Soil-Gas Survey
Trichloroethene

La Hacienda Restaurant
Madison, WI



LEGEND

1,000 NANOGRAMS/SAMPLER

▲ 18 PASSIVE SOIL-GAS SAMPLE LOCATION

Scale in Feet

0 60 120

BEACON ENVIRONMENTAL SERVICES, INC.
323 Williams Street, Bel Air, MD. 21014, USA 1-410-838-8780
Beacon Project No. 2541, August 2012

Figure 4
Passive Soil-Gas Survey
Tetrachloroethene

La Hacienda Restaurant
Madison, WI

Attachment 1

APPLYING RESULTS FROM PASSIVE SOIL-GAS SURVEYS

The utility of soil-gas surveys is directly proportional to their accuracy in reflecting and representing changes in the subsurface concentrations of source compounds. Passive soil-gas survey results are the mass collected from the vapor-phase emanating from the source(s). The vapor-phase is merely a fractional trace of the source(s) and, as a matter of convenience, the units used in reporting detection values from passive soil-gas surveys are smaller than those employed for source-compound concentrations.

Passive soil gas data are reported in mass of compounds identified per sample location (e.g., nanograms (ng) or micrograms (µg) per sampler). Results from a passive soil gas survey typically are then used to guide where follow-on intrusive samples should be collected to obtain corresponding concentrations of the contaminants in soil, soil gas, and/or groundwater, as well as eliminate those areas where intrusive samples are not required. It is not practical to report passive soil gas data as concentration because the sampler's uptake rates of the compounds are often greater than the replenishment rates of the compounds around the sampler, which results in low bias measurements, and the replenishment rates will be dependent on several factors that include, at a minimum, soil gas concentrations, soil porosity and permeability, and soil moisture level.

Whatever the relative concentrations of source and associated soil gas, best results are realized when the ratio of soil-gas measurements to actual subsurface concentrations remains as close to constant as the real world permits. It is the reliability and consistency of this ratio, not the particular units of mass (*e.g.*, nanograms) that determine usefulness. Thus, BEACON emphasizes the necessity of conducting — at minimum — follow-on intrusive sampling in areas that show relatively high soil-gas measurements to obtain corresponding concentrations of soil and groundwater contaminants. These correspondent values furnish the basis for approximating a relationship. For extrapolating passive soil gas results to vapor intrusion evaluations, we recommend a minimum of three passive soil gas locations be converted to a shallow vapor well then sampled using an active soil gas method. Once a relationship is established, it can be used in conjunction with the remaining soil-gas measurements to estimate subsurface contaminant concentrations across the survey field. (See www.beacon-usa.com/passivesoilgas.html, Publication 1: *Mass to Concentration Tie-In for PSG Surveys* and Publication 4: *Groundwater and PSG Correlation.*) It is important to keep in mind, however, that specific conditions at individual sample points, including soil porosity and permeability, depth to contamination, and perched ground water, can have an impact on soil-gas measurements at those locations.

When passive soil-gas surveys are utilized as described above, the data provide information that can yield substantial savings in drilling costs and in time. They furnish, among other things, a checklist of compounds expected at each survey location and help to determine how and where drilling budgets can most effectively be spent. Passive soil-gas surveys can also be used as a remediation or general site monitoring tool that can be implemented on a quarterly, semi-annual or annual basis.

Attachment 2

FIELD PROCEDURES FOR PASSIVE SOIL-GAS SURVEYS

The following field procedures are routinely used during a BEACON Passive Soil-Gas Survey. Modifications can be and are incorporated from time to time in response to individual project requirements. In all instances, BEACON adheres to EPA-approved Quality Assurance and Quality Control practices.

A. Field personnel carry a BESURE Sample Collection Kit™ and support equipment to the site and deploy the passive samplers in a prearranged survey pattern. A passive sampler consists of a borosilicate glass vial containing hydrophobic adsorbent cartridges with a length of wire attached to the vial for retrieval. Although samplers require only one person for emplacement and retrieval, the specific number of field personnel required depends upon the scope and schedule of the project. Each Sampler emplacement generally takes less than two minutes.

B. At each survey point a field technician clears vegetation as needed and, using a hammer drill with a 1"- to 1½"-diameter bit, creates a hole 12 to 14 inches deep. [Note: For locations covered with asphalt, concrete, or gravel surfacing, the field technician drills a 1"- to 1½"-diameter hole through the surfacing to the soils beneath]. The hole is then sleeved with a 1"-diameter metal sleeve.

C. The technician then removes the solid plastic cap from a sampler and replaces it with a Sampling Cap (a plastic cap with a hole covered by screen meshing). The technician inserts the sampler, with the Sampling Cap end facing down, into the hole (**see attached figure**). The sampler is then covered with an aluminum foil plug and soils for uncapped locations or, for capped locations, an aluminum foil plug and a concrete patch. The sampler's location, time and date of emplacement, and other relevant information are recorded on the Field Deployment Form

D. One or more trip blanks are included as part of the quality-control procedures.

E. Once all the passive samplers have been deployed, field personnel schedule sampler recovery and depart, taking all other equipment and materials with them.

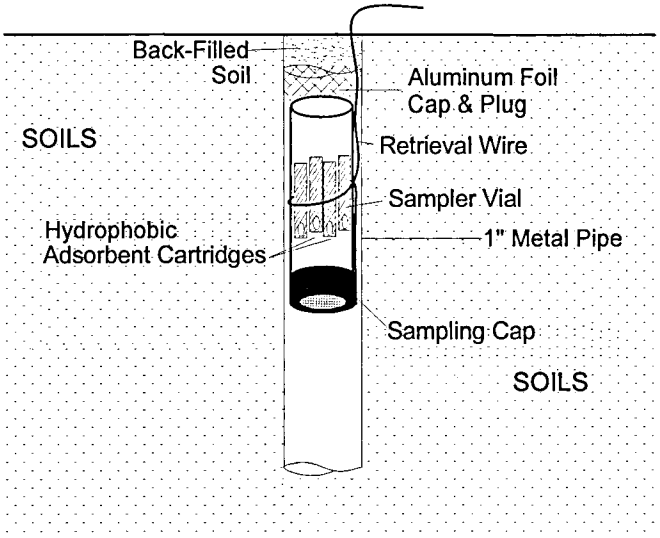
F. Field personnel retrieve the samplers at the end of the exposure period. At each location, a field technician withdraws the sampler from its hole, removes the retrieval wire, and wipes the outside of the vial clean using gauze cloth; following removal of the Sampling Cap, the threads of the vial are also cleaned. A solid plastic cap is screwed onto the vial and the sample location number is written on the label. The technician then records sample-point location, date, time, etc. on the Field Deployment Form.

G. Sampling holes are refilled with soil, sand, or other suitable material. If Samplers have been installed through asphalt or concrete, the hole is filled to grade with a plug of cold patch or cement.

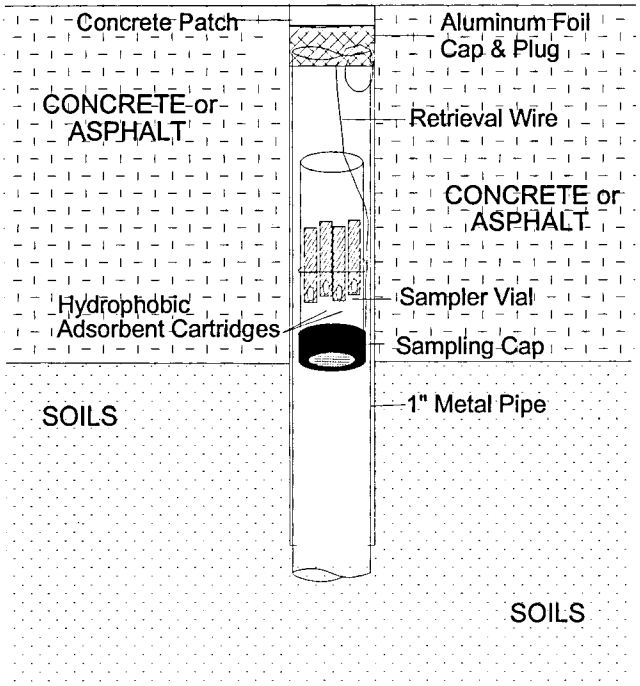
H. Following retrieval, field personnel ship or transport the passive samplers to BEACON's laboratory.

BEACON PASSIVE SAMPLER

DEPLOYMENT THROUGH SOILS



DEPLOYMENT THROUGH AN ASPHALT/CONCRETE CAP



PASSIVE SOIL-GAS SURVEY
FIELD DEPLOYMENT REPORT

Project Information	
Beacon Project No.:	2541
Site Name:	La Hacienda Restaurant
Site Location:	Madison, WI

BEACON ENVIRONMENTAL SERVICES, INC.
323 Williams Street, Suite D, Bel Air, MD 21014 (800) 878-5510

Client Information	
Company Name:	Seymour Environmental Services, Inc.
Office Location:	McFarland, WI
Samples Collected By:	MRS + MDF

FIELD SAMPLE ID	Date Emplaced / Time Emplaced	Date Retrieved / Time Retrieved	Sampling Hole Depth (inches)	FIELD NOTES (*e.g.*, asphalt/concrete/gravel, description of sample location, PID/FID readings)
	7/9/2012	7/26/2012		
PS-1	1450	1230	16"	Grass
PS-2	1455	1234		"
PS-3	1500	1237		"
PS-4	1503	1240		"
PS-5	1504	1243		"
PS-6	1506	1245		"
PS-7	1508	1246		"
PS-8	1510	1248		"
PS-9	1513	1252		"
PS-10	1515	1254		"
PS-11	1517	1256		"
PS-12	1520	1259		"
PS-13	1522	1303		"
PS-14	1525	1306		"
PS-15	1527	1307		"

PASSIVE SOIL-GAS SURVEY
FIELD DEPLOYMENT REPORT

Project Information	
Beacon Project No.:	2541
Site Name:	La Hacienda Restaurant
Site Location:	Madison, WI

BEACON ENVIRONMENTAL SERVICES, INC.
323 Williams Street, Suite D, Bel Air, MD 21014 (800) 878-5510

Client Information	
Company Name:	Seymour Environmental Services, Inc.
Office Location:	McFarland, WI
Samples Collected By:	MRS + MDE

FIELD SAMPLE ID	Date Emplaced / Time Emplaced	Date Retrieved / Time Retrieved	Sampling Hole Depth (inches)	FIELD NOTES (*e.g.*, asphalt/concrete/gravel, description of sample location, PID/FID readings)
PS-16	7/9/2012 1529	7/16/2012 1310	16"	Grass
PS-17	1531	1312		
PS-18	1533	1314		
PS-19	1535	1317		
PS-20	1537	1319		
PS-21	1545	1326		
PS-22	1547	1328		
PS-23	1550	1331		

PASSIVE SOIL-GAS SURVEY
FIELD DEPLOYMENT REPORT

Project Information	
Beacon Project No.:	2541
Site Name:	La Hacienda Restaurant
Site Location:	Madison, WI

BEACON ENVIRONMENTAL SERVICES, INC.
323 Williams Street, Suite D, Del Air, MD 21014 (800) 878-5510

Client Information	
Company Name:	Seymour Environmental Services, Inc.
Office Location:	McFarland, WI
Samples Collected By:	MRS + MDF

FIELD SAMPLE ID	Date Emplaced / Time Emplaced	Date Retrieved / Time Retrieved	Sampling Hole Depth (inches)	FIELD NOTES (*e.g.*, asphalt/concrete/gravel, description of sample location, PID/FID readings)
	7/10/2012	7/17/2012		
PS-24	1240	1155	12"	concrete
PS-25	1245	1159	12"	concrete
PS-26	1252	1204	16"	grass

Attachment 4

LABORATORY PROCEDURES FOR PASSIVE SOIL-GAS SAMPLES

Following are laboratory procedures used with BEACON Passive Soil-Gas Surveys, a screening technology for expedited site investigation. After exposure, adsorbent cartridges from the passive samplers are analyzed using U.S. EPA Method 8260C as a guidance document, a capillary gas chromatographic/mass spectrometric method, modified to accommodate high temperature thermal desorption of the adsorbent cartridges and to meet the objecitves of reporting semi-quantitative data. This procedure is summarized as follows:

A. The adsorbent cartridges are loaded with internal standards and surrogates prior to loading the autosampler with the cartridges. The loaded cartridges are purged in a helium flow. Then the cartridges are thermally desorbed in a helium flow onto a focusing trap. Any analytes in the helium stream are adsorbed onto a focusing trap.

B. Following trap focusing, the trap is thermally desorbed onto a Rxi-624Sil MS 20m, 0.18 mm ID, 1.00 micron filament thickness capillary column.

C. The GC/MS is scanned between 35 and 270 Atomic Mass Units (AMU) at 3.12 scans per second.

D. BFB tuning criteria and the initial five-point calibration procedures are those stated in method SW846-8260C. System performance and calibration check criteria are met prior to analysis of samples. A laboratory method blank is analyzed after the daily standard to determine that the system is contaminant-free.

E. The instrumentation used for these analyses includes:

- Agilent 6890-5973a Gas Chromatograph/Mass Spectrometer;
- Markes Unity thermal desorber;
- Markes UltrA autosampler; and
- Markes Mass Flow Controller Modules

CHAIN-OF-CUSTODY
PASSIVE SOIL-GAS SAMPLES

Project Information	
Beacon Project No.:	2541
Site Name:	La Hacienda Restaurant
Site Location:	Madison, WI
Analytical Method:	EPA Method 8260C
Target Compounds:	Beacon Project Number 2541 Target Compound List

BEACON ENVIRONMENTAL SERVICES, INC.
125 Williams Street, Suite D, Belcamp, MD 21017 (410) 638-2500

Client Information	
Company Name:	Seymour Environmental Services, Inc.
Office Location:	McFarland, WI
Samples Submitted By:	
Contact Phone No.:	

Field Sample ID	Comments (only necessary if problem or discrepancy)			
	Notes	Date	Time	Initial
Trip-1		07/11/12	12:30	
			12:34	
1			12:37	
2			12:40	
3			12:43	
4			12:45	
5			12:46	
6			12:48	
7			12:52	
8			12:54	
9			12:56	
10			12:59	
11			13:03	
12			13:06	
13			13:07	
14			13:10	
15			13:12	
16			~~13:14~~	
17			~~13:17~~	

Shipment of Field Kit to Site — Custody Seal # 17350171 Intact? (Y) N

Relinquished by:	Date/Time	Courier	Received by:	Date/Time
Kenny Ipsacho	6/11/2012 / 1700 hours	FedEx	Mike Fyan	06/13/2012 12:30

Shipment of Field Kit to Laboratory — Custody Seal # 17350172 Intact? (Y) N

Relinquished by:	Date/Time	Courier	Received by:	Date/Time
Mike Fyan	07/17/12 13:30	UPS	Kenny Ipsacho	07/18/2012 @ 1500 hours

CHAIN-OF-CUSTODY
PASSIVE SOIL-GAS SAMPLES

Project Information	
Beacon Project No.:	2541
Site Name:	La Hacienda Restaurant
Site Location:	Madison, WI
Analytical Method:	EPA Method 8260C
Target Compounds:	Beacon Project Number 2541 Target Compound List

BEACON ENVIRONMENTAL SERVICES, INC.
525 Williams Street, Suite D, Bel Air, MD 21014 (410) 575-5519

Client Information	
Company Name:	Seymour Environmental Services, Inc.
Office Location:	McFarland, WI
Samples Submitted By:	
Contact Phone No.:	

Field Sample ID	Comments (only necessary if problem or discrepancy)			
	Notes	Date	Time	Initial
18		07/16/12	13:14	
19		"	13:17	
20		"	13:19	
21		"	13:26	
22		"	13:28	
23		07/16/12	13:31	
24		07/17/12	11:55	
25		07/17/12	11:58	
26		07/17/12	12:04	

Shipment of Field Kit to Site — Custody Seal # 17350171 Intact? (Y) N

Relinquished by:	Date/Time	Courier	Received by:	Date/Time
Kenny Ipeachs	6/11/2012 / 1700 hours	FedEx	Mark Fyan	06/13/2012 12:00

Shipment of Field Kit to Laboratory — Custody Seal # 17350172 Intact? (Y) N

Relinquished by:	Date/Time	Courier	Received by:	Date/Time
Mark D. Fyan	07/17/12 13:30	UPS	Kenny Ipeachs	07/18/2012 / 1500 hours

Page _____ of _____

BEACON ENVIRONMENTAL SERVICES, INC.

The Leaders in Soil Gas Surveys and Vapor Intrusion Monitoring

Seymour Environmental Services, Inc.
2531 Dyreson Road
McFarland, WI 53558
Attn: Ms. Robyn Seymour

Passive Soil Gas Survey – Analytical Report

Date: April 3, 2013
Beacon Project No. 2638

Project Reference:	La Hacienda Restaurant, Madison, WI
Samplers Installed:	March 1, 2013
Samplers Retrieved:	March 8, 2013
Samples Received:	March 12, 2013
Analyses Completed:	March 15, 2013
Laboratory Data Issued:	March 19, 2013

EPA Method 8260C
All samples were successfully analyzed using thermal desorption-gas chromatography/mass spectrometry (TD-GC/MS) instrumentation to target a custom compound list following EPA Method 8260C. Laboratory results are reported in nanograms (ng) of specific compound per sample.

Laboratory QA/QC procedures included internal standards, surrogates, and blanks based on EPA Method 8260C. Analyses and reporting were in accordance with BEACON's Quality Assurance Project Plan.

Reporting limits
The reporting limit (RL) for each compound is equal to the limit of quantitation (LOQ), which is 10 nanograms (ng), and the limit of detection (LOD) is 5 ng. **Table 1** provides survey results in nanograms per sampler by sample-point number and compound name; measurements below the LOQ but above the MDL are flagged with a "J." The LOQs (<10 ng) represent a baseline above which results exceed laboratory-determined limits of precision and accuracy. Any field sample measurements above the upper calibration standard are estimated; however, these values are reported without qualifiers because all reported measurements are relative to each other and are appropriate to meet the survey objectives of locating source areas and vapor intrusion pathways and defining the lateral extent of contamination.

Calibration Verification
The continuing calibration verification (CCV) values for the calibration check compounds were all within ±20% of the true values as defined by the initial five-point calibration and met the requirements specified in Beacon Environmental's Quality Assurance Project Plan.

Method Blanks/Trip Blanks
Laboratory method blanks are run with each sample batch to identify contamination present in the laboratory. If contamination is detected on a method blank, measurements of identical compounds in that sample batch are flagged in the laboratory report. The laboratory method blank analyzed in connection with the present samples revealed no contamination.

The trip blank is a sampler prepared, transported, and analyzed with other samples but intentionally not exposed. Any target compounds identified on the trip blanks are reported in the laboratory data. The analysis of the trip blank (labeled Trip-1 in **Table 1**) reported 22 ng of trans-1,2-Dichloroethene.

No other compounds were identified on the trip blanks, which suggests that except for the lower level measurements of trans-1,2-Dichloroethene, the survey site itself is the source of detected compounds.

Passive Soil-Gas Survey Notes

When sample locations are covered with or near the edge of an artificial surface (*e.g.*, asphalt or concrete), the concentrations of compounds in soil gas are often significantly higher than the concentrations would be if the surfacing were not present. Thus, a reading taken below or near an impermeable surface is much higher than it would be in the absence of such a cap. Therefore, the sample location conditions should be evaluated when comparing results between locations.

Survey findings are exclusive to this project and when the spatial relationships are compared with results of other BEACON Surveys it is necessary to incorporate survey and site information from both investigations (*e.g.*, depth to sources, soil types, porosity, soil moisture, presence of impervious surfacing, sample collection times). BEACON recommends the guidelines stated in **Attachment 1** to establish a relationship between reported soil-gas measurements and actual subsurface contaminant concentrations, which will indicate those measurements representing significant subsurface contamination.

Project Details

Samplers were deployed on March 1, 2013, and were retrieved on March 8, 2013. **Attachment 2** describes standard field procedures. Individual deployment and retrieval times will be found in the Field Deployment Report (**Attachment 3**).

Twelve (12) field samples and one (1) trip blank were received by BEACON on March 12, 2013. Adsorbent cartridges from the passive samplers were thermally desorbed, then analyzed using gas chromatography/mass spectrometry (GC/MS) equipment, in accordance with EPA Method 8260C, as described in **Attachment 4**. BEACON's laboratory analyzed each sample for the targeted compounds; analyses were completed on March 15, 2013. Following a laboratory review, results were provided to Seymour on March 19, 2013. The Chain-of-Custody form, which was shipped with the samples for this survey, is supplied as **Attachment 5**.

Sample locations are shown on **Figure 1**. The following table lists frequency of detections based on the number of field samples analyzed, the reporting limit, and the maximum value for each mapped compound. The table also includes the transformation and interpolation method for the compound distribution maps provided.

Figure No.	**2**	**3**	**4**
Compound	Cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Frequency	3	3	9
Reporting Limit (nanograms)	10	10	10
Max Value (nanograms)	108	84	181
Transformation Method	Log	Log	Log
Interpolation Method	Kriging	Kriging	Kriging

Attachments:

-1- Applying Results From Passive Soil-Gas Surveys
-2- Field Procedures
-3- Field Deployment Report
-4- Laboratory Procedures
-5- Chain-of-Custody Form

ALL DATA MEET REQUIREMENTS AS SPECIFIED IN THE BEACON ENVIRONMENTAL SERVICES, INC. QUALITY ASSURANCE PROJECT PLAN AND THE RESULTS RELATE ONLY TO THE SAMPLES REPORTED. BEACON ENVIRONMENTAL SERVICES IS ACCREDITED TO ISO 17025:2005, AND THE WORK PERFORMED WAS IN ACCORDANCE WITH ISO 17025 REQUIREMENTS, WITH THE EXCEPTION THAT SAMPLES WERE ANALYZED WITHIN A 24-HOUR TUNE WINDOW. THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY. RELEASE OF THE DATA CONTAINED IN THIS HARDCOPY DATA PACKAGE HAS BEEN AUTHORIZED BY THE LABORATORY DIRECTOR OR HIS SIGNEE, AS VERIFIED BY THE FOLLOWING SIGNATURES:

Steven C. Thornley
Laboratory Director

Patti J. Riggs
Quality Manager

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road, Suite 1
Forest Hill, MD 21050 USA

Analysis by EPA Method 8260C

Client Sample ID:	mb130315c	Trip-1	27	28	29	30
Project Number:		2638	2638	2638	2638	2638
Lab File ID:	C13031503	C13031528	C13031529	C13031530	C13031531	C13031532
Received Date:		3/12/2013	3/12/2013	3/12/2013	3/12/2013	3/12/2013
Analysis Date:	3/15/2013	3/15/2013	3/15/2013	3/15/2013	3/15/2013	3/15/2013
Analysis Time:	8:53	17:54	18:15	18:36	18:57	19:16
Matrix:			Soil Gas	Soil Gas	Soil Gas	Soil Gas
Units:	ng	ng	ng	ng	ng	ng
COMPOUNDS						
Vinyl Chloride	<10	<10	<10	<10	<10	<10
1,1-Dichloroethene	<10	<10	<10	<10	<10	<10
trans-1,2-Dichloroethene	<10	**22**	**19**	**62**	**66**	**91**
cis-1,2-Dichloroethene	<10	<10	<10	<10	<10	<10
Trichloroethene	<10	<10	<10	<10	<10	**13**
Tetrachloroethene	<10	<10	**7 J**	<10	<10	**80**

Results in nanograms (ng). J = Values below limit of quantitation (LOQ) but above limit of detection (LOD). B = Detected in method blank.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road, Suite 1
Forest Hill, MD 21050 USA

Analysis by EPA Method 8260C

	Client Sample ID:	31	32	33	34	35	36
	Project Number:	2638	2638	2638	2638	2638	2638
	Lab File ID:	C13031533	C13031534	C13031535	C13031536	C13031537	C13031538
	Received Date:	3/12/2013	3/12/2013	3/12/2013	3/12/2013	3/12/2013	3/12/2013
	Analysis Date:	3/15/2013	3/15/2013	3/15/2013	3/15/2013	3/15/2013	3/15/2013
	Analysis Time:	19:37	19:59	20:20	20:41	21:03	21:24
	Matrix:	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
	Units:	ng	ng	ng	ng	ng	ng
COMPOUNDS							
Vinyl Chloride		<10	<10	<10	<10	<10	<10
1,1-Dichloroethene		<10	<10	<10	<10	<10	<10
trans-1,2-Dichloroethene		**64**	**123**	**24**	**5 J**	**14**	**51**
cis-1,2-Dichloroethene		**108**	**12**	**21**	<10	<10	<10
Trichloroethene		**17**	**84**	<10	<10	<10	<10
Tetrachloroethene		**52**	**181**	**6 J**	<10	**23**	**11**

Results in nanograms (ng). J = Values below limit of quantitation (LOQ) but above limit of detection (LOD). B = Detected in method blank.

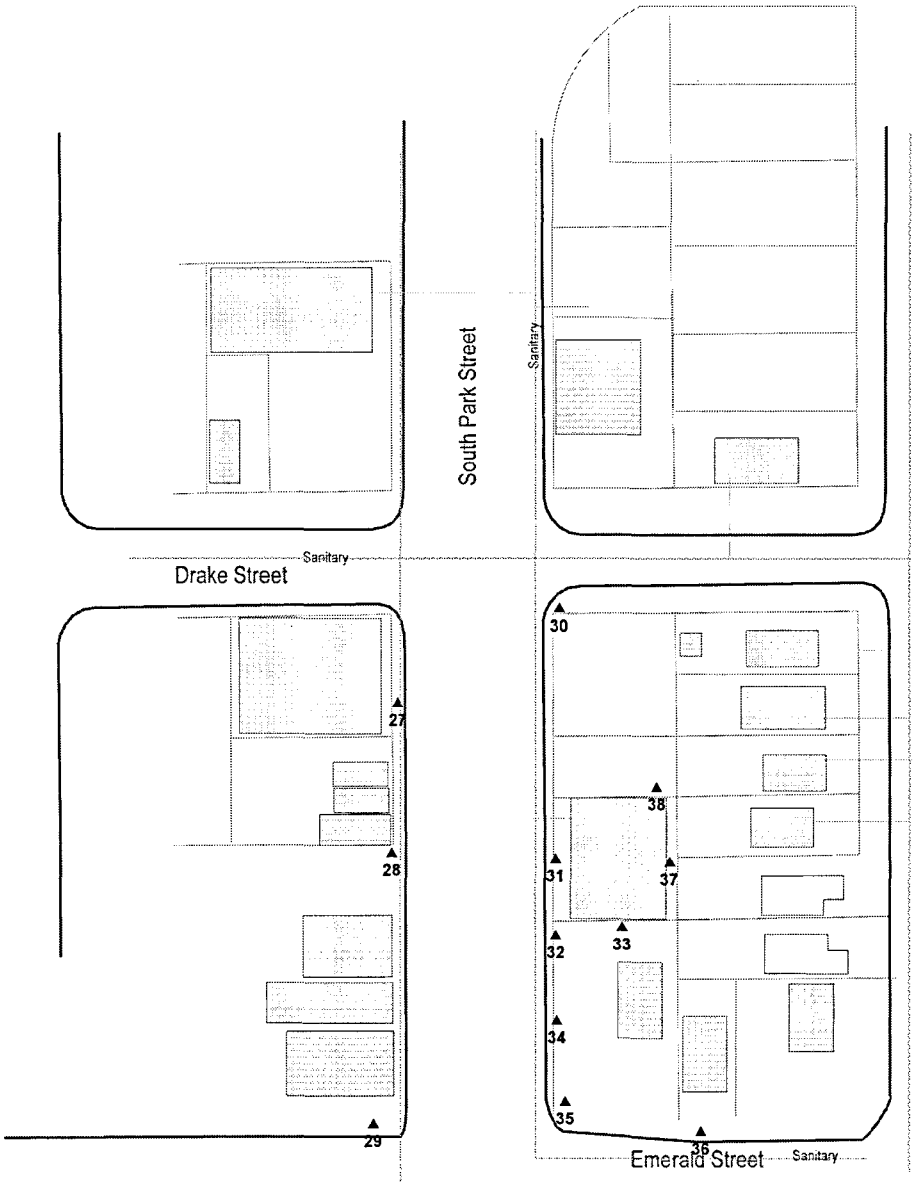
Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road, Suite 1
Forest Hill, MD 21050 USA

Analysis by EPA Method 8260C

Client Sample ID:	37	38
Project Number:	2638	2638
Lab File ID:	C13031539	C13031540
Received Date:	3/12/2013	3/12/2013
Analysis Date:	3/15/2013	3/15/2013
Analysis Time:	21:45	22:07
Matrix:	Soil Gas	Soil Gas
Units:	ng	ng
COMPOUNDS		
Vinyl Chloride	<10	<10
1,1-Dichloroethene	<10	<10
trans-1,2-Dichloroethene	**32**	**27**
cis-1,2-Dichloroethene	<10	<10
Trichloroethene	<10	<10
Tetrachloroethene	**23**	**23**

Results in nanograms (ng). J = Values below limit of quantitation (LOQ) but above limit of detection (LOD). B = Detected in method blank.



LEGEND

▲ 33 PASSIVE SOIL-GAS SAMPLE LOCATION

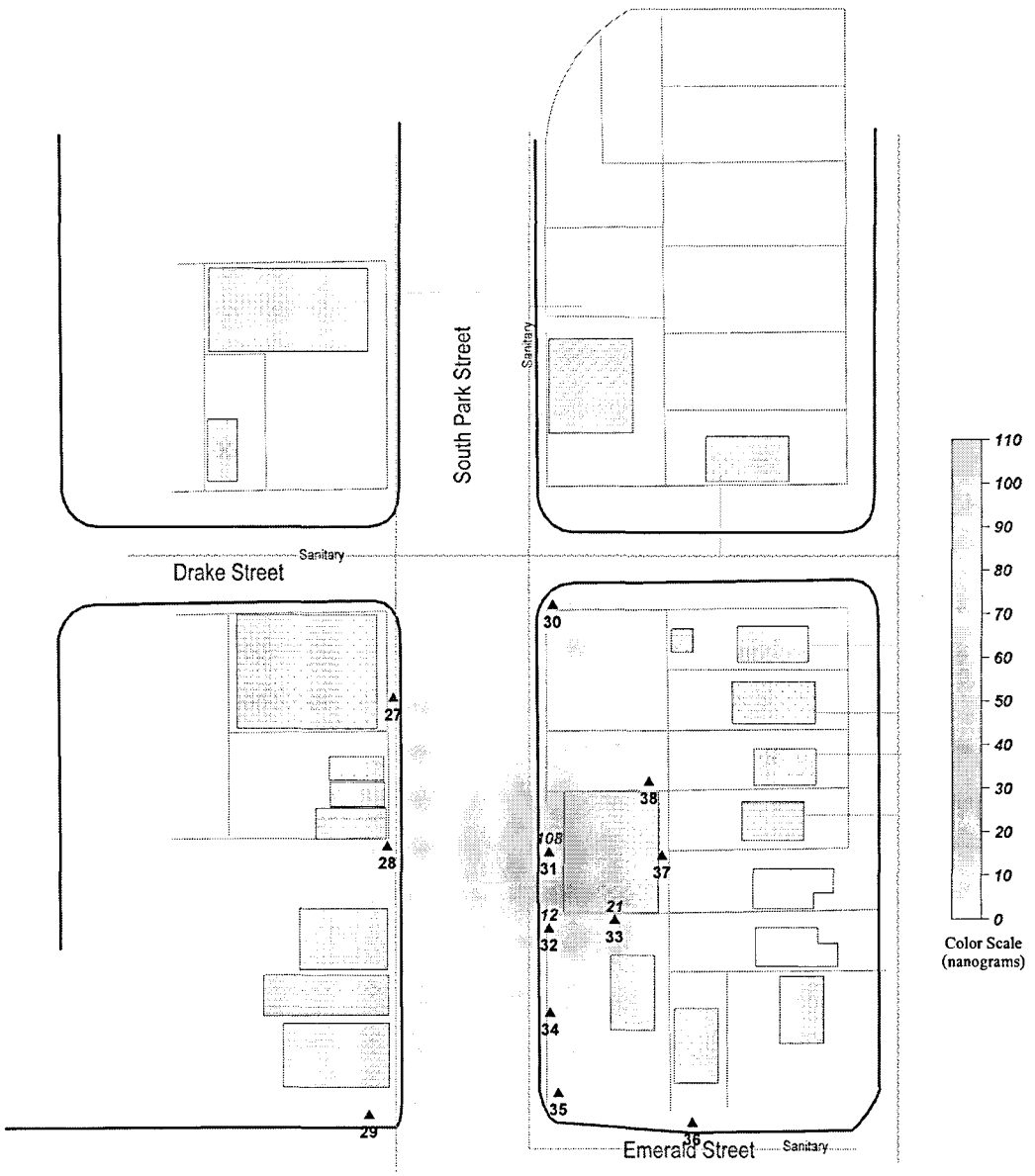
Scale in Feet

0 80 160

BEACON ENVIRONMENTAL SERVICES, INC.
2203A Commerce Road, Suite 1, Forest Hill, MD 21050 USA
www.Beacon-USA.com 1-410-838-8789
Beacon Project No. 2638, April 2013

Figure 1
Passive Soil-Gas Survey
Sample Locations

La Hacienda Restaurant
Madison, WI



LEGEND

7 J NANOGRAMS/SAMPLER (J = Estimated value)

▲ 33 PASSIVE SOIL-GAS SAMPLE LOCATION

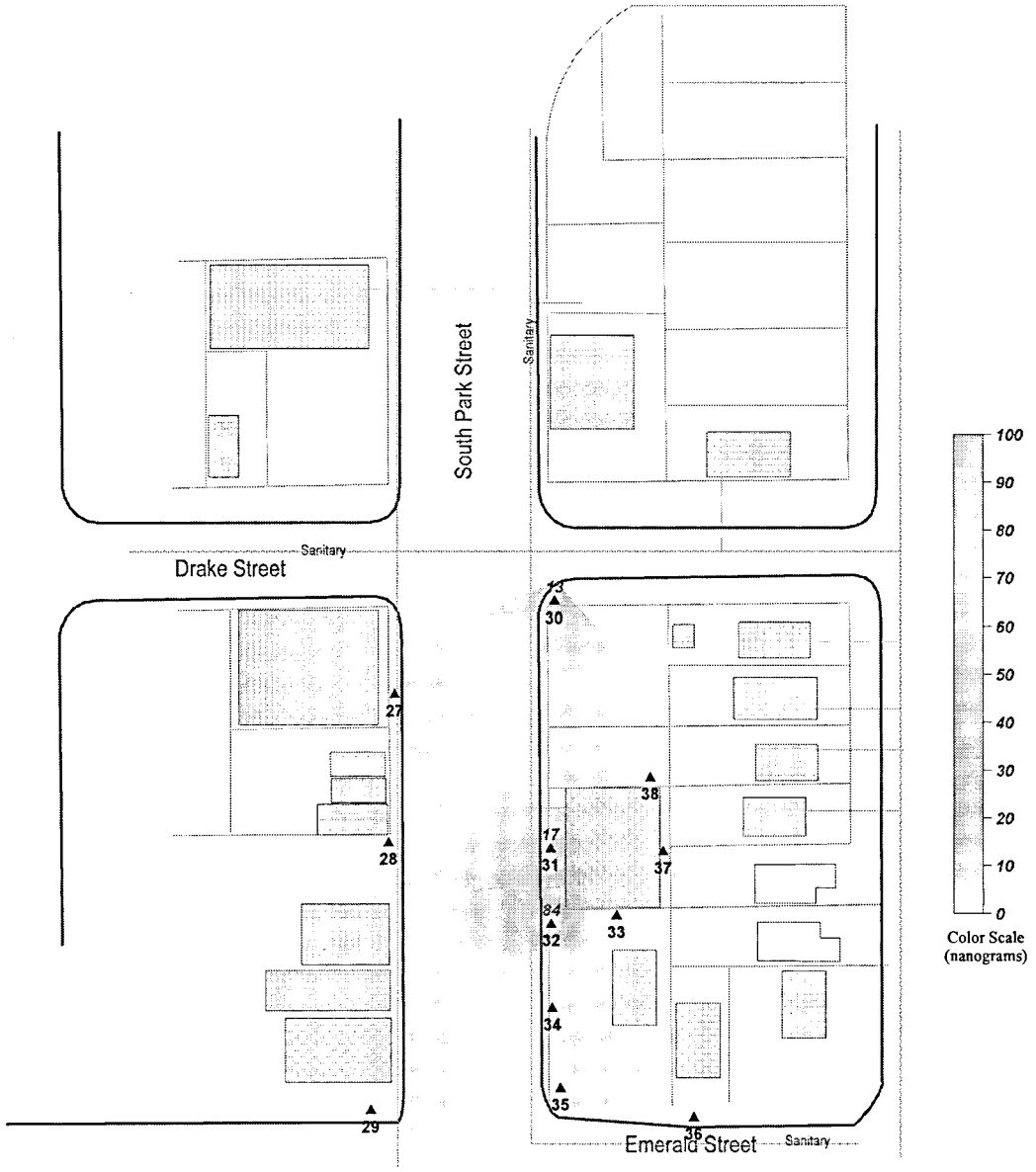
Scale in Feet

0 80 160

BEACON ENVIRONMENTAL SERVICES, INC.
2203A Commerce Road, Suite 3, Forest Hill, MD 21050 USA
www.Beacon-USA.com 1-410-838-8780
Beacon Project No. 2638, April 2013

Figure 2
Passive Soil-Gas Survey
cis-1,2-Dichloroethene

La Hacienda Restaurant
Madison, WI



LEGEND

7 J NANOGRAMS/SAMPLER (J = Estimated value)

▲ 33 PASSIVE SOIL-GAS SAMPLE LOCATION

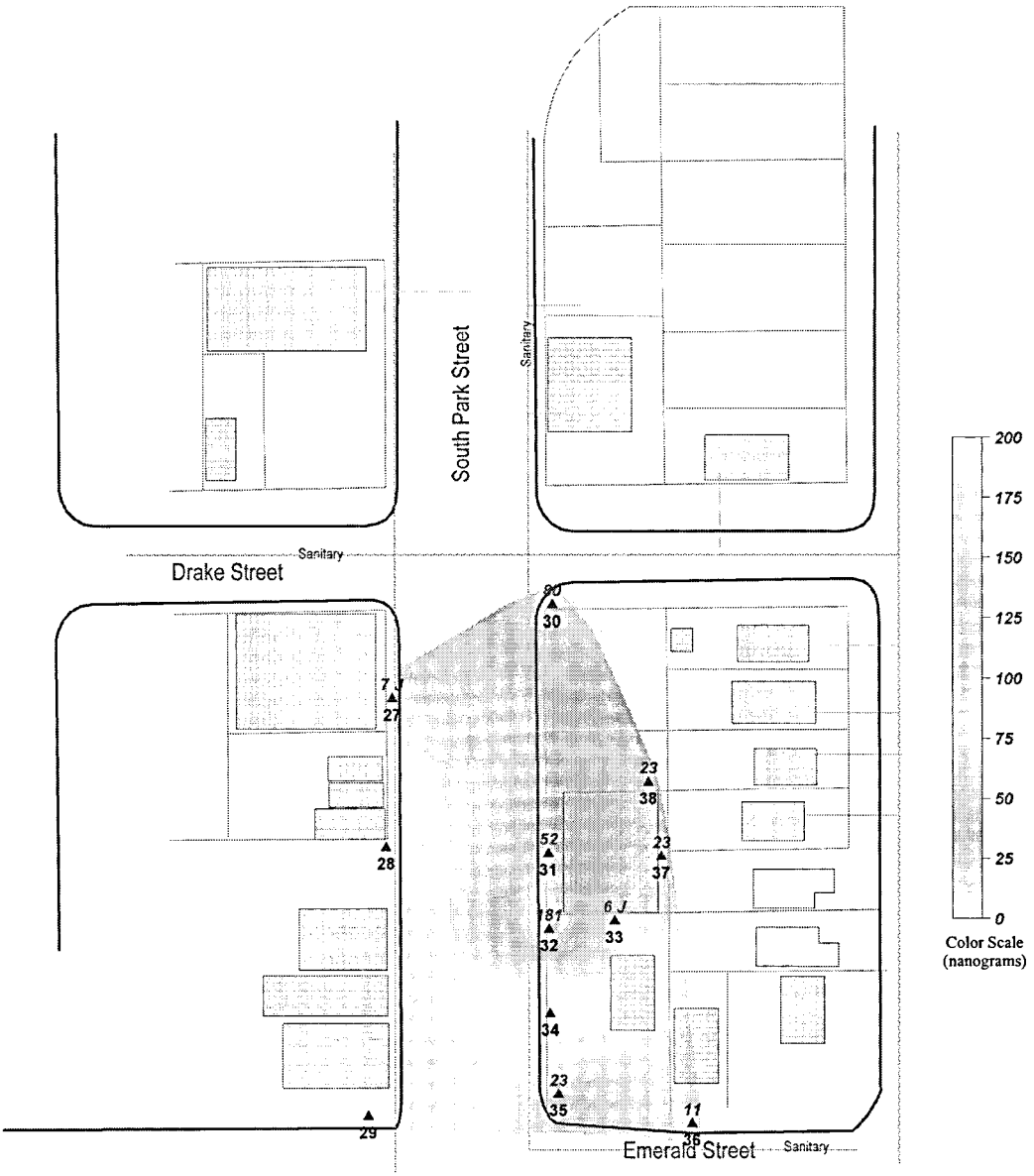
Scale in Feet

0 80 160

BEACON ENVIRONMENTAL SERVICES, INC.
2203A Commerce Road, Suite 1, Forest Hill, MD 21050 USA
www.Beacon-USA.com 1-410-838-8780
Beacon Project No. 2638, April 2013

Figure 3
Passive Soil-Gas Survey
Trichloroethene

La Hacienda Restaurant
Madison, WI



LEGEND

7 J NANOGRAMS/SAMPLER (J = Estimated value)

▲ 33 PASSIVE SOIL-GAS SAMPLE LOCATION

Scale in Feet

0 80 160

BEACON ENVIRONMENTAL SERVICES, INC.
2293A Commerce Road, Suite 1, Forest Hill, MD 21050 USA
www.Beacon-USA.com 1-410-838-8780
Beacon Project No. 2638, April 2013

Figure 4
Passive Soil-Gas Survey
Tetrachloroethene

La Hacienda Restaurant
Madison, WI

Attachment 1

APPLYING RESULTS FROM PASSIVE SOIL-GAS SURVEYS

The utility of soil-gas surveys is directly proportional to their accuracy in reflecting and representing changes in the subsurface concentrations of source compounds. Passive soil-gas survey results are the mass collected from the vapor-phase emanating from the source(s). The vapor-phase is merely a fractional trace of the source(s) and, as a matter of convenience, the units used in reporting detection values from passive soil-gas surveys are smaller than those employed for source-compound concentrations.

Passive soil gas data are reported in mass of compounds identified per sample location (e.g., nanograms (ng) or micrograms (µg) per sampler). Results from a passive soil gas survey typically are then used to guide where follow-on intrusive samples should be collected to obtain corresponding concentrations of the contaminants in soil, soil gas, and/or groundwater, as well as eliminate those areas where intrusive samples are not required. It is not practical to report passive soil gas data as concentration because the sampler's uptake rates of the compounds are often greater than the replenishment rates of the compounds around the sampler, which results in low bias measurements, and the replenishment rates will be dependent on several factors that include, at a minimum, soil gas concentrations, soil porosity and permeability, and soil moisture level.

Whatever the relative concentrations of source and associated soil gas, best results are realized when the ratio of soil-gas measurements to actual subsurface concentrations remains as close to constant as the real world permits. It is the reliability and consistency of this ratio, not the particular units of mass (*e.g.*, nanograms) that determine usefulness. Thus, BEACON emphasizes the necessity of conducting — at minimum — follow-on intrusive sampling in areas that show relatively high soil-gas measurements to obtain corresponding concentrations of soil and groundwater contaminants. These correspondent values furnish the basis for approximating a relationship. For extrapolating passive soil gas results to vapor intrusion evaluations, we recommend a minimum of three passive soil gas locations be converted to a shallow vapor well then sampled using an active soil gas method. Once a relationship is established, it can be used in conjunction with the remaining soil-gas measurements to estimate subsurface contaminant concentrations across the survey field. (See www.beacon-usa.com/passivesoilgas.html, Publication 1: *Mass to Concentration Tie-In for PSG Surveys* and Publication 4: *Groundwater and PSG Correlation.*) It is important to keep in mind, however, that specific conditions at individual sample points, including soil porosity and permeability, depth to contamination, and perched ground water, can have an impact on soil-gas measurements at those locations.

When passive soil-gas surveys are utilized as described above, the data provide information that can yield substantial savings in drilling costs and in time. They furnish, among other things, a checklist of compounds expected at each survey location and help to determine how and where drilling budgets can most effectively be spent. Passive soil-gas surveys can also be used as a remediation or general site monitoring tool that can be implemented on a quarterly, semi-annual or annual basis.

Attachment 2

FIELD PROCEDURES FOR PASSIVE SOIL-GAS SURVEYS

The following field procedures are routinely used during a BEACON Passive Soil-Gas Survey. Modifications can be and are incorporated from time to time in response to individual project requirements. In all instances, BEACON adheres to EPA-approved Quality Assurance and Quality Control practices.

A. Field personnel carry a BESURE Sample Collection Kit™ and support equipment to the site and deploy the passive samplers in a prearranged survey pattern. A passive sampler consists of a borosilicate glass vial containing hydrophobic adsorbent cartridges with a length of wire attached to the vial for retrieval. Although samplers require only one person for emplacement and retrieval, the specific number of field personnel required depends upon the scope and schedule of the project. Each Sampler emplacement generally takes less than two minutes.

B. At each survey point a field technician clears vegetation as needed and, using a hammer drill with a 1"- to 1½"-diameter bit, creates a hole 12 to 14 inches deep. [Note: For locations covered with asphalt, concrete, or gravel surfacing, the field technician drills a 1"- to 1½"-diameter hole through the surfacing to the soils beneath]. The technician then, using a hammer drill with a ½" diameter bit, creates a hole three-feet deep. The hole is then sleeved with a 1"-diameter metal sleeve.

C. The technician then removes the solid plastic cap from a sampler and replaces it with a Sampling Cap (a plastic cap with a hole covered by screen meshing). The technician inserts the sampler, with the Sampling Cap end facing down, into the hole (**see attached figure**). The sampler is then covered with an aluminum foil plug and soils for uncapped locations or, for capped locations, an aluminum foil plug and a concrete patch. The sampler's location, time and date of emplacement, and other relevant information are recorded on the Field Deployment Form.

D. One or more trip blanks are included as part of the quality-control procedures.

E. Once all the samplers have been deployed, field personnel schedule sampler recovery and depart, taking all other equipment and materials with them.

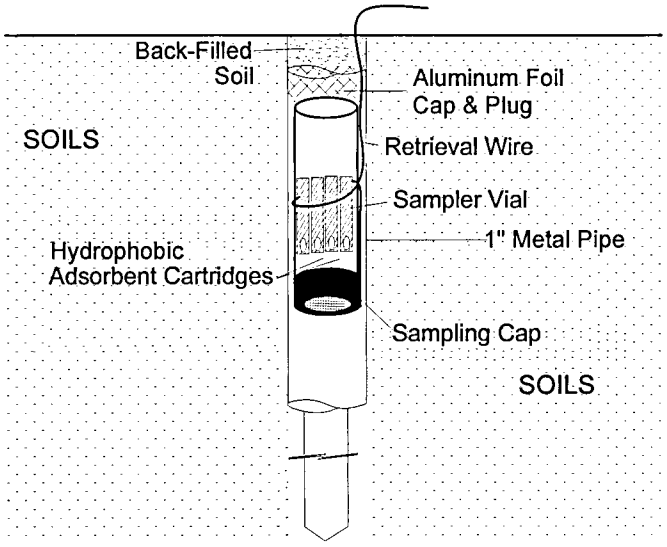
F. Field personnel retrieve the samplers at the end of the exposure period. At each location, a field technician withdraws the sampler from its hole, removes the retrieval wire, and wipes the outside of the vial clean using gauze cloth; following removal of the Sampling Cap, the threads of the vial are also cleaned. A solid plastic cap is screwed onto the vial and the sample location number is written on the label. The technician then records sample-point location, date, time, etc. on the Field Deployment Form.

G. Sampling holes are refilled with soil, sand, or other suitable material. If samplers have been installed through asphalt or concrete, the hole is filled to grade with a plug of cold patch or cement.

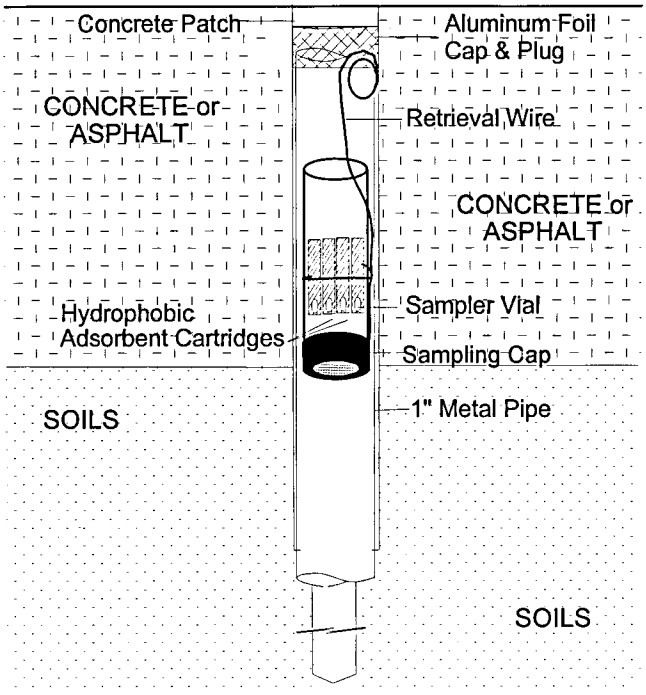
H. Following retrieval, field personnel ship or transport the passive samplers to BEACON's laboratory.

BEACON'S PASSIVE SOIL-GAS SAMPLER

DEPLOYMENT THROUGH SOILS



DEPLOYMENT THROUGH AN ASPHALT/CONCRETE CAP



PASSIVE SOIL-GAS SURVEY
FIELD DEPLOYMENT REPORT

Project Information	
Beacon Project No.:	2638
Site Name:	LA Hacienda Restaurant
Site Location:	Madison, WI

BEACON ENVIRONMENTAL SERVICES, INC.
2203A Commerce Road | Suite 1
Forest Hill, MD 21050 USA
800-878-5510 | 1-410-838-8780

Client Information	
Company Name:	Seymour Environmental Svcs, Inc.
Office Location:	McFarland, WI
Samples Collected By:	MDS

FIELD SAMPLE ID	Date Emplaced / Time Emplaced	Date Retrieved / Time Retrieved	Sampling Hole Depth (inches)	FIELD NOTES (e.g., asphalt/concrete/gravel, description of sample location, PID/FID readings)
	03/01/2013	03/08/2013		
27	12:32	10:40	12"	CONCRETE
28	12:44	10:45		ASPHALT
29	12:52	11:08		GRASS
30	13:08	09:56		GARDEN BED
31	13:15	10:03		CONCRETE
32	13:19	10:07		GARDEN BED
33	13:24	10:13		CONCRETE
34	13:33	10:10		CONCRETE
35	13:40	10:16		GARDEN BED
36	13:47	10:18		GRASS
37	13:52	10:20		CONCRETE
38	13:57	10:00		CONCRETE

Attachment 4

LABORATORY PROCEDURES FOR PASSIVE SOIL-GAS SAMPLES

Following are laboratory procedures used with BEACON Passive Soil-Gas Surveys, a screening technology for expedited site investigation. After exposure, adsorbent cartridges from the passive samplers are analyzed using U.S. EPA Method 8260C as a guidance document, a capillary gas chromatographic/mass spectrometric method, modified to accommodate high temperature thermal desorption of the adsorbent cartridges and to meet the objecitves of reporting semi-quantitative data. This procedure is summarized as follows:

A. The adsorbent cartridges are loaded with internal standards and surrogates prior to loading the autosampler with the cartridges. The loaded cartridges are purged in a helium flow. Then the cartridges are thermally desorbed in a helium flow onto a focusing trap. Any analytes in the helium stream are adsorbed onto a focusing trap.

B. Following trap focusing, the trap is thermally desorbed onto a Rxi-624Sil MS 20m, 0.18 mm ID, 1.00 micron filament thickness capillary column.

C. The GC/MS is scanned between 35 and 270 Atomic Mass Units (AMU) at 3.12 scans per second.

D. BFB tuning criteria and the initial five-point calibration procedures are those stated in method SW846-8260C. System performance and calibration check criteria are met prior to analysis of samples. A laboratory method blank is analyzed after the daily standard to determine that the system is contaminant-free.

E. The instrumentation used for these analyses includes:

- Agilent 7890-5975c Gas Chromatograph/Mass Spectrometer;
- Markes Unity2 thermal desorber;
- Markes UltrA2 autosampler; and
- Markes Mass Flow Controller Modules.

CHAIN-OF-CUSTODY
PASSIVE SOIL-GAS SAMPLES

Project Information	
Beacon Project No.:	2638
Site Name:	LA Hacienda Restaurant
Site Location:	Madison, WI
Analytical Method:	EPA Method 8260C
Target Compounds:	Beacon Project Number 2638 Target Compound List

BEACON ENVIRONMENTAL SERVICES, INC.
2203A Commerce Road | Suite 1
Forest Hill, MD 21050 USA
800-878-5510 | 1-410-838-8780

Client Information	
Company Name:	Seymour Environmental Svcs, Inc.
Office Location:	McFarland, WI
Samples Submitted By:	Roslyn Seymour
Contact Phone No.:	(608) 838-7160

Field Sample ID	Comments (only necessary if problem or discrepancy)			
	Notes	Date	Time	Initial
Trip-1				
27		03/05/13	10:40	MOF
28			10:45	
29			11:08	
30			9:56	
31			10:03	
32			10:07	
33			10:13	
34			10:10	
35			10:16	
36			10:18	
37			10:20	
38			10:00	

Shipment of Field Kit to Site — Custody Seal # 17350297 Intact? (Y) N

Relinquished by:	Date/Time	Courier	Received by:	Date/Time
Tracy Tyacke	02-12-2013 / 1700 Hours	FedEx		

Shipment of Field Kit to Laboratory — Custody Seal # 17350298 Intact? (Y) N

Relinquished by:	Date/Time	Courier	Received by:	Date/Time
[signature]	03/11/13 - 15:00	~~Fedex~~ UPS	Steven Thornley	3.12.2013 / 12:00

Appendix D
Wisconsin Laboratory of Hygiene Reports

Wisconsin State Laboratory of Hygiene
2601 Agriculture Drive, PO Box 7996
Madison, WI 53707-7996
(800)442-4618 • FAX (608)224-6213
http://www.slh.wisc.edu

Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division Organic Chemistry

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB WI00007 WI DATCP ID: 105-415

WSLH Sample: OX002778

SEYMOUR ENVIRONMENTAL SERVICES

2531 DYRESON ROAD

MCFARLAND, WI 53558

Bill To

Customer ID: 320225
TRACKING 4920
2601 AGRICULTURAL DRIVE
MADISON WI 53718

Field #: LAHACIENDA SUMP
Collection Start: 03/15/2013 16:03:00
Collection End: 03/15/2013 16:34:00
Collected By: M. FRYMAN
County:
Sample Source: INDOOR AIR
Sample Depth:
Sample Information:
Sample Location:
Sample Description:

ID#:
Waterbody/Outfall ID:
Point/Well:
Account #: LH034
Project No:
Date Received: 03/20/2013 07:30:00
Date Reported: 03/27/2013
Sample Reason:

Analyses and Results:

Analysis Date	Lab Comment
03/25/2013	SEE OX002778.MM1

Analysis Method	Result	Units	LOD	LOQ	Report Limit
VINYL CHLORIDE	*IS*D< 100	PPB V	0.085	0.280	
TRANS-1,2-DICHLOROETHYLENE	*IS*D< 100	PPB V	0.085	0.280	
CIS-1,2-DICHLOROETHYLENE	*IS 349	PPB V	0.085	0.280	
TRICHLOROETHYLENE	*IS*D< 100	PPB V	0.085	0.280	
TETRACHLOROETHYLENE	*IS 155	PPB V	0.085	0.280	

OX002778.MM1:

WISCONSIN STATE LABORATORY OF HYGIENE SAMPLE OX002778 CONTAINS THE FOLLOWING FLAGS.

THE INTERNAL STANDARD QC LIMIT IS EXCEEDED - *IS.
LOD NOT ACHIEVABLE DUE TO DILUTION - *D.

IF YOU HAVE ANY QUESTIONS, CONTACT STEVE GEIS AT (608) 224-6269.

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division Organic Chemistry

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB WI00007 WI DATCP ID: 105-415

WSLH Sample: OX002778

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see http://www.slh.wisc.edu/nelap/

List of Abbreviations:

LOD = Level of detection
LOQ = Level of quantification
ND = None detected. Results are less than the LOD

Responsible Party: _____ Steve Geis, Chemist Supervisor

If there are questions about this report, please contact Steve Geis at 608-224-6269.

Report #: 9546909

Wisconsin State Laboratory of Hygiene
2601 Agriculture Drive, PO Box 7996
Madison, WI 53707-7996
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http://www.slh.wisc.edu

Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division Organic Chemistry

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB WI00007 WI DATCP ID: 105-415

WSLH Sample: OX002779

SEYMOUR ENVIRONMENTAL SERVICES

2531 DYRESON ROAD

MCFARLAND, WI 53558

Bill To

Customer ID: 320225
TRACKING 4920
2601 AGRICULTURAL DRIVE
MADISON WI 53718

Field #: DAVIDSAVER SS-1
Collection Start: 03/15/2013 13:42:00
Collection End: 03/15/2013 14:16:00
Collected By: M. FRYMAN
County:
Sample Source: INDOOR AIR
Sample Depth:
Sample Information:
Sample Location:
Sample Description:

ID#:
Waterbody/Outfall ID:
Point/Well:
Account #: LH034
Project No:
Date Received: 03/20/2013 07:30:00
Date Reported: 03/27/2013
Sample Reason:

Analyses and Results:

Analysis Date 03/25/2013 Lab Comment

Analysis Method	Result	Units	LOD	LOQ	Report Limit
VINYL CHLORIDE	ND	PPB V	0.085	0.280	
TRANS-1,2-DICHLOROETHYLENE	ND	PPB V	0.085	0.280	
CIS-1,2-DICHLOROETHYLENE	ND	PPB V	0.085	0.280	
TRICHLOROETHYLENE	0.340	PPB V	0.085	0.280	
TETRACHLOROETHYLENE	1.49	PPB V	0.085	0.280	

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division Organic Chemistry

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB WI00007 WI DATCP ID: 105-415

WSLH Sample: OX002779

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see http://www.slh.wisc.edu/nelap/

List of Abbreviations:

LOD = Level of detection
LOQ = Level of quantification
ND = None detected. Results are less than the LOD

Responsible Party: _____ Steve Geis, Chemist Supervisor

If there are questions about this report, please contact Steve Geis at 608-224-6269.

Report #: 9546910

Wisconsin State Laboratory of Hygiene
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Madison, WI 53707-7996
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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division Organic Chemistry

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB WI00007 WI DATCP ID: 105-415

WSLH Sample: OX002780

SEYMOUR ENVIRONMENTAL SERVICES

2531 DYRESON ROAD

MCFARLAND, WI 53558

Bill To

Customer ID: 320225
TRACKING 4920
2601 AGRICULTURAL DRIVE
MADISON WI 53718

Field #: DAVIDSAVER SS-2
Collection Start: 03/15/2013 13:59:00
Collection End: 03/15/2013 14:34:00
Collected By: M. FRYMAN
County:
Sample Source: INDOOR AIR
Sample Depth:
Sample Information:
Sample Location:
Sample Description:

ID#:
Waterbody/Outfall ID:
Point/Well:
Account #: LH034
Project No:
Date Received: 03/20/2013 07:30:00
Date Reported: 03/27/2013
Sample Reason:

Analyses and Results:

Analysis Date 03/25/2013 Lab Comment

Analysis Method	Result	Units	LOD	LOQ	Report Limit
VINYL CHLORIDE	ND	PPB V	0.085	0.280	
TRANS-1,2-DICHLOROETHYLENE	ND	PPB V	0.085	0.280	
CIS-1,2-DICHLOROETHYLENE	ND	PPB V	0.085	0.280	
TRICHLOROETHYLENE	ND	PPB V	0.085	0.280	
TETRACHLOROETHYLENE	0.360	PPB V	0.085	0.280	

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D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division Organic Chemistry

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB WI00007 WI DATCP ID: 105-415

WSLH Sample: OX002780

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see http://www.slh.wisc.edu/nelap/

List of Abbreviations:

LOD = Level of detection
LOQ = Level of quantification
ND = None detected. Results are less than the LOD

Responsible Party: _____ Steve Geis, Chemist Supervisor

If there are questions about this report, please contact Steve Geis at 608-224-6269.

Report #: 9546911

Wisconsin State Laboratory of Hygiene
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http://www.slh.wisc.edu

Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division Organic Chemistry

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB WI00007 WI DATCP ID: 105-415

WSLH Sample: OX002781

SEYMOUR ENVIRONMENTAL SERVICES

2531 DYRESON ROAD

MCFARLAND, WI 53558

Bill To

Customer ID: 320225
TRACKING 4920
2601 AGRICULTURAL DRIVE
MADISON WI 53718

Field #: WARTMANN SS-1
Collection Start: 03/15/2013 12:08:00
Collection End: 03/15/2013 12:39:00
Collected By: M. FRYMAN
County:
Sample Source: INDOOR AIR
Sample Depth:
Sample Information:
Sample Location:
Sample Description:

ID#:
Waterbody/Outfall ID:
Point/Well:
Account #: LH034
Project No:
Date Received: 03/20/2013 07:30:00
Date Reported: 03/27/2013
Sample Reason:

Analyses and Results:

Analysis Date 03/25/2013 Lab Comment

Analysis Method	Result	Units	LOD	LOQ	Report Limit
VINYL CHLORIDE	ND	PPB V	0.085	0.280	
TRANS-1,2-DICHLOROETHYLENE	ND	PPB V	0.085	0.280	
CIS-1,2-DICHLOROETHYLENE	ND	PPB V	0.085	0.280	
TRICHLOROETHYLENE	ND	PPB V	0.085	0.280	
TETRACHLOROETHYLENE	0.780	PPB V	0.085	0.280	

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division Organic Chemistry

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB WI00007 WI DATCP ID: 105-415

WSLH Sample: OX002781

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see http://www.slh.wisc.edu/nelap/

List of Abbreviations:

LOD = Level of detection
LOQ = Level of quantification
ND = None detected. Results are less than the LOD

Responsible Party: _____ Steve Geis, Chemist Supervisor

If there are questions about this report, please contact Steve Geis at 608-224-6269.

Report #: 9546912

Wisconsin State Laboratory of Hygiene
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Environmental Health Division Organic Chemistry

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB WI00007 WI DATCP ID: 105-415

WSLH Sample: OX002783

SEYMOUR ENVIRONMENTAL SERVICES

2531 DYRESON ROAD

MCFARLAND, WI 53558

Bill To

Customer ID: 320225
TRACKING 4920
2601 AGRICULTURAL DRIVE
MADISON WI 53718

Field #: HOFFENBERG SS-1
Collection Start: 03/15/2013 10:29:00
Collection End: 03/15/2013 11:07:00
Collected By: M. FRYMAN
County:
Sample Source: INDOOR AIR
Sample Depth:
Sample Information:
Sample Location:
Sample Description:

ID#:
Waterbody/Outfall ID:
Point/Well:
Account #: LH034
Project No:
Date Received: 03/20/2013 07:30:00
Date Reported: 03/27/2013
Sample Reason:

Analyses and Results:

Analysis Date	Lab Comment				
03/25/2013	LAB ACCIDENT - NO WORK DONE.				
Analysis Method	**Result**	**Units**	**LOD**	**LOQ**	**Report Limit**
CANISTER CLEANING	COMPLETE				1

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division Organic Chemistry

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB WI00007 WI DATCP ID: 105-415

WSLH Sample: OX002783

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see http://www.slh.wisc.edu/nelap/

List of Abbreviations:

LOD = Level of detection
LOQ = Level of quantification
ND = None detected. Results are less than the LOD

Responsible Party: _____ Steve Geis, Chemist Supervisor

If there are questions about this report, please contact Steve Geis at 608-224-6269.

Report #: 9546914

Wisconsin State Laboratory of Hygiene
2601 Agriculture Drive, PO Box 7996
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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division Organic Chemistry

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB WI00007 WI DATCP ID: 105-415

WSLH Sample: OX002784

SEYMOUR ENVIRONMENTAL SERVICES

2531 DYRESON ROAD

MCFARLAND, WI 53558

Bill To

Customer ID: 320225
TRACKING 4920
2601 AGRICULTURAL DRIVE
MADISON WI 53718

Field #: HOFFENBERG SS-2
Collection Start: 03/15/2013 10:45:00
Collection End: 03/15/2013 11:24:00
Collected By: M. FRYMAN
County:
Sample Source: INDOOR AIR
Sample Depth:
Sample Information:
Sample Location:
Sample Description:

ID#:
Waterbody/Outfall ID:
Point/Well:
Account #: LH034
Project No:
Date Received: 03/20/2013 07:30:00
Date Reported: 03/27/2013
Sample Reason:

Analyses and Results:

Analysis Date 03/25/2013 Lab Comment

Analysis Method	Result	Units	LOD	LOQ	Report Limit
VINYL CHLORIDE	ND	PPB V	0.085	0.280	
TRANS-1,2-DICHLOROETHYLENE	ND	PPB V	0.085	0.280	
CIS-1,2-DICHLOROETHYLENE	ND	PPB V	0.085	0.280	
TRICHLOROETHYLENE	ND	PPB V	0.085	0.280	
TETRACHLOROETHYLENE	0.500	PPB V	0.085	0.280	

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division Organic Chemistry

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB WI00007 WI DATCP ID: 105-415

WSLH Sample: OX002784

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see http://www.slh.wisc.edu/nelap/

List of Abbreviations:

LOD = Level of detection
LOQ = Level of quantification
ND = None detected. Results are less than the LOD

Responsible Party: _____ Steve Geis, Chemist Supervisor

If there are questions about this report, please contact Steve Geis at 608-224-6269.

The results in this report apply only to the sample specifically listed above. This report is not to be reproduced except in full.

Report #: 9546915

Wisconsin State Laboratory of Hygiene
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Madison, WI 53707-7996
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http://www.slh.wisc.edu

Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division Organic Chemistry

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB WI00007 WI DATCP ID: 105-415

WSLH Sample: OX002785

SEYMOUR ENVIRONMENTAL SERVICES

2531 DYRESON ROAD

MCFARLAND, WI 53558

Bill To

Customer ID: 320225
TRACKING 4920
2601 AGRICULTURAL DRIVE
MADISON WI 53718

Field #: SWEET SS-2
Collection Start: 03/15/2013 09:28:00
Collection End: 03/15/2013 10:03:00
Collected By: M. FRYMAN
County:
Sample Source: INDOOR AIR
Sample Depth:
Sample Information:
Sample Location:
Sample Description:

ID#:
Waterbody/Outfall ID:
Point/Well:
Account #: LH034
Project No:
Date Received: 03/20/2013 07:30:00
Date Reported: 03/27/2013
Sample Reason:

Analyses and Results:

Analysis Date 03/25/2013	Lab Comment				
Analysis Method	Result	Units	LOD	LOQ	Report Limit
VINYL CHLORIDE	ND	PPB V	0.085	0.280	
TRANS-1,2-DICHLOROETHYLENE	ND	PPB V	0.085	0.280	
CIS-1,2-DICHLOROETHYLENE	ND	PPB V	0.085	0.280	
TRICHLOROETHYLENE	ND	PPB V	0.085	0.280	
TETRACHLOROETHYLENE	1.49	PPB V	0.085	0.280	

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division Organic Chemistry

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB WI00007 WI DATCP ID: 105-415

WSLH Sample: OX002785

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see http://www.slh.wisc.edu/nelap/

List of Abbreviations:

LOD = Level of detection
LOQ = Level of quantification
ND = None detected. Results are less than the LOD

Responsible Party: _____ Steve Geis, Chemist Supervisor

If there are questions about this report, please contact Steve Geis at 608-224-6269.

Report #: 9546916

Wisconsin State Laboratory of Hygiene
2601 Agriculture Drive, PO Box 7996
Madison, WI 53707-7996
(800)442-4618 • FAX (608)224-6213
http://www.slh.wisc.edu

Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division Organic Chemistry

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB WI00007 WI DATCP ID: 105-415

WSLH Sample: OX002786

SEYMOUR ENVIRONMENTAL SERVICES

2531 DYRESON ROAD

MCFARLAND, WI 53558

Bill To

Customer ID: 320225
TRACKING 4920
2601 AGRICULTURAL DRIVE
MADISON WI 53718

Field #: SWEET SS-1
Collection Start: 03/15/2013 09:05:00
Collection End: 03/15/2013 09:36:00
Collected By: M. FRYMAN
County:
Sample Source: INDOOR AIR
Sample Depth:
Sample Information:
Sample Location:
Sample Description:

ID#:
Waterbody/Outfall ID:
Point/Well:
Account #: LH034
Project No:
Date Received: 03/20/2013 07:30:00
Date Reported: 03/27/2013
Sample Reason:

Analyses and Results:

Analysis Date 03/25/2013 Lab Comment

Analysis Method	Result	Units	LOD	LOQ	Report Limit
VINYL CHLORIDE	ND	PPB V	0.085	0.280	
TRANS-1,2-DICHLOROETHYLENE	0.370	PPB V	0.085	0.280	
CIS-1,2-DICHLOROETHYLENE	ND	PPB V	0.085	0.280	
TRICHLOROETHYLENE	ND	PPB V	0.085	0.280	
TETRACHLOROETHYLENE	1.31	PPB V	0.085	0.280	

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division Organic Chemistry

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB WI00007 WI DATCP ID: 105-415

WSLH Sample: OX002786

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see http://www.slh.wisc.edu/nelap/

List of Abbreviations:

LOD = Level of detection
LOQ = Level of quantification
ND = None detected. Results are less than the LOD

Responsible Party: _____ Steve Geis, Chemist Supervisor

If there are questions about this report, please contact Steve Geis at 608-224-6269.

Report #: 9546917

Wisconsin State Laboratory of Hygiene
2601 Agriculture Drive, PO Box 7996
Madison, WI 53707-7996
(800)442-4618 • FAX (608)224-6213
http://www.slh.wisc.edu

Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division Organic Chemistry

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB WI00007 WI DATCP ID: 105-415

WSLH Sample: OX002797

SEYMOUR ENVIRONMENTAL SERVICES

2531 DYRESON ROAD

MCFARLAND, WI 53558

Bill To

Customer ID: 320225
TRACKING 4920
2601 AGRICULTURAL DRIVE
MADISON WI 53718

Field #: HOFFENBERG INDOOR
Collection Start: 03/15/2013 10:55:00
Collection End: 03/20/2013 16:10:00
Collected By: M. FRYMAN
County:
Sample Source: INDOOR AIR
Sample Depth:
Sample Information:
Sample Location:
Sample Description:

ID#:
Waterbody/Outfall ID:
Point/Well:
Account #: LH034
Project No:
Date Received: 03/21/2013 12:02:00
Date Reported: 03/27/2013
Sample Reason:

Analyses and Results:

Analysis Date 03/25/2013 Lab Comment

Analysis Method	Result	Units	LOD	LOQ	Report Limit
VINYL CHLORIDE	ND	PPB V	0.085	0.280	
TRANS-1,2-DICHLOROETHYLENE	ND	PPB V	0.085	0.280	
CIS-1,2-DICHLOROETHYLENE	ND	PPB V	0.085	0.280	
TRICHLOROETHYLENE	ND	PPB V	0.085	0.280	
TETRACHLOROETHYLENE	ND	PPB V	0.085	0.280	

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division Organic Chemistry

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB WI00007 WI DATCP ID: 105-415

WSLH Sample: OX002797

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see http://www.slh.wisc.edu/nelap/

List of Abbreviations:

LOD = Level of detection
LOQ = Level of quantification
ND = None detected. Results are less than the LOD

Responsible Party: _____ Steve Geis, Chemist Supervisor

If there are questions about this report, please contact Steve Geis at 608-224-6269.

Report #: 9546918

Wisconsin State Laboratory of Hygiene
2601 Agriculture Drive, PO Box 7996
Madison, WI 53707-7996
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http://www.slh.wisc.edu

Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division Organic Chemistry

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB WI00007 WI DATCP ID: 105-415

WSLH Sample: OX002798

SEYMOUR ENVIRONMENTAL SERVICES

2531 DYRESON ROAD

MCFARLAND, WI 53558

Bill To

Customer ID: 320225
TRACKING 4920
2601 AGRICULTURAL DRIVE
MADISON WI 53718

Field #: LAHACIENDA INDOOR
Collection Start: 03/15/2013 16:05:00
Collection End: 03/20/2013 15:20:00
Collected By: M. FRYMAN
County:
Sample Source: INDOOR AIR
Sample Depth:
Sample Information:
Sample Location:
Sample Description:

ID#:
Waterbody/Outfall ID:
Point/Well:
Account #: LH034
Project No:
Date Received: 03/21/2013 12:02:00
Date Reported: 03/27/2013
Sample Reason:

Analyses and Results:

Analysis Date	Lab Comment				
03/25/2013	THE INTERNAL STANDARD QC LIMIT IS EXCEEDED - *IS.				
Analysis Method	**Result**	**Units**	**LOD**	**LOQ**	**Report Limit**
VINYL CHLORIDE	*IS ND	PPB V	0.085	0.280	
TRANS-1,2-DICHLOROETHYLENE	*IS 0.29	PPB V	0.085	0.280	
CIS-1,2-DICHLOROETHYLENE	*IS 0.44	PPB V	0.085	0.280	
TRICHLOROETHYLENE	*IS 0.24	PPB V	0.085	0.280	
TETRACHLOROETHYLENE	*IS 2.73	PPB V	0.085	0.280	

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division Organic Chemistry

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB WI00007 WI DATCP ID: 105-415

WSLH Sample: OX002798

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see http://www.slh.wisc.edu/nelap/

List of Abbreviations:

LOD = Level of detection
LOQ = Level of quantification
ND = None detected. Results are less than the LOD

Responsible Party: _____ Steve Geis, Chemist Supervisor

If there are questions about this report, please contact Steve Geis at 608-224-6269.

The results in this report apply only to the sample specifically listed above. This report is not to be reproduced except in full.

Report #: 9546919

Wisconsin State Laboratory of Hygiene
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http://www.slh.wisc.edu

Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division Organic Chemistry

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB WI00007 WI DATCP ID: 105-415

WSLH Sample: OX002799

SEYMOUR ENVIRONMENTAL SERVICES

2531 DYRESON ROAD

MCFARLAND, WI 53558

Bill To

Customer ID: 320225
TRACKING 4920
2601 AGRICULTURAL DRIVE
MADISON WI 53718

Field #: SWEET INDOOR
Collection Start: 03/15/2013 09:33:00
Collection End: 03/20/2013 16:00:00
Collected By: MARK FRYMAN
County:
Sample Source: INDOOR AIR
Sample Depth:
Sample Information:
Sample Location: LAHACIENDA, SOUTH PARK STREET, MADISON
Sample Description: SWEET INDOOR, DH-006

ID#:
Waterbody/Outfall ID:
Point/Well:
Account #: LH034
Project No:
Date Received: 03/21/2013
Date Reported: 03/27/2013
Sample Reason:

Analyses and Results:

Analysis Date	Lab Comment
03/25/2013	THE INTERNAL STANDARD QC LIMIT IS EXCEEDED - *IS.

Analysis Method	Result	Units	LOD	LOQ	Report Limit
VINYL CHLORIDE	*IS ND	PPB V	0.085	0.280	
TRANS-1,2-DICHLOROETHYLENE	*IS 0.30	PPB V	0.085	0.280	
CIS-1,2-DICHLOROETHYLENE	*IS ND	PPB V	0.085	0.280	
TRICHLOROETHYLENE	*IS ND	PPB V	0.085	0.280	
TETRACHLOROETHYLENE	*IS 0.29	PPB V	0.085	0.280	

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division Organic Chemistry

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB WI00007 WI DATCP ID: 105-415

WSLH Sample: OX002799

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see http://www.slh.wisc.edu/nelap/

List of Abbreviations:

LOD = Level of detection
LOQ = Level of quantification
ND = None detected. Results are less than the LOD

Responsible Party: _____ Steve Geis, Chemist Supervisor

If there are questions about this report, please contact Steve Geis at 608-224-6269.

The results in this report apply only to the sample specifically listed above. This report is not to be reproduced except in full.

Report #: 9546920

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http://www.slh.wisc.edu

Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division Organic Chemistry

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB WI00007 WI DATCP ID: 105-415

WSLH Sample: OX002800

SEYMOUR ENVIRONMENTAL SERVICES

2531 DYRESON ROAD

MCFARLAND, WI 53558

Bill To

Customer ID: 320225
TRACKING 4920
2601 AGRICULTURAL DRIVE
MADISON WI 53718

Field #: DAVIDSAVER INDOOR
Collection Start: 03/15/2013 14:03:00
Collection End: 03/20/2013 15:35:00
Collected By: M. FRYMAN
County:
Sample Source: INDOOR AIR
Sample Depth:
Sample Information:
Sample Location:
Sample Description:

ID#:
Waterbody/Outfall ID:
Point/Well:
Account #: LH034
Project No:
Date Received: 03/21/2013 12:02:00
Date Reported: 03/27/2013
Sample Reason:

Analyses and Results:

Analysis Date 03/25/2013 Lab Comment

Analysis Method	Result	Units	LOD	LOQ	Report Limit
VINYL CHLORIDE	ND	PPB V	0.085	0.280	
TRANS-1,2-DICHLOROETHYLENE	0.270	PPB V	0.085	0.280	
Note: The reported value above is equal to or greater than the LOD and less than the LOQ.					
CIS-1,2-DICHLOROETHYLENE	ND	PPB V	0.085	0.280	
TRICHLOROETHYLENE	ND	PPB V	0.085	0.280	
TETRACHLOROETHYLENE	0.340	PPB V	0.085	0.280	

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division Organic Chemistry

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB WI00007 WI DATCP ID: 105-415

WSLH Sample: OX002800

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see http://www.slh.wisc.edu/nelap/

List of Abbreviations:

LOD = Level of detection
LOQ = Level of quantification
ND = None detected. Results are less than the LOD

Responsible Party: _____ Steve Geis, Chemist Supervisor

If there are questions about this report, please contact Steve Geis at 608-224-6269.

Report #: 9546921

Wisconsin State Laboratory of Hygiene
2601 Agriculture Drive, PO Box 7996
Madison, WI 53707-7996
(800)442-4618 • FAX (608)224-6213
http://www.slh.wisc.edu

Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division Organic Chemistry

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB WI00007 WI DATCP ID: 105-415

WSLH Sample: OX002801

SEYMOUR ENVIRONMENTAL SERVICES

2531 DYRESON ROAD

MCFARLAND, WI 53558

Bill To

Customer ID: 320225
TRACKING 4920
2601 AGRICULTURAL DRIVE
MADISON WI 53718

Field #: WARTMANN INDOOR
Collection Start: 03/15/2013 12:28:00
Collection End: 03/20/2013 15:45:00
Collected By: M. FRYMAN
County:
Sample Source: INDOOR AIR
Sample Depth: 6
Sample Information:
Sample Location:
Sample Description:

ID#:
Waterbody/Outfall ID:
Point/Well:
Account #: LH034
Project No:
Date Received: 03/21/2013 12:02:00
Date Reported: 03/27/2013
Sample Reason:

Analyses and Results:

Analysis Date 03/25/2013	Lab Comment				
Analysis Method	Result	Units	LOD	LOQ	Report Limit
VINYL CHLORIDE	ND	PPB V	0.085	0.280	
TRANS-1,2-DICHLOROETHYLENE	0.300	PPB V	0.085	0.280	
CIS-1,2-DICHLOROETHYLENE	ND	PPB V	0.085	0.280	
TRICHLOROETHYLENE	ND	PPB V	0.085	0.280	
TETRACHLOROETHYLENE	ND	PPB V	0.085	0.280	

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Madison, WI 53707-7996
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http://www.slh.wisc.edu

Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division Organic Chemistry

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB WI00007 WI DATCP ID: 105-415

WSLH Sample: OX002801

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see http://www.slh.wisc.edu/nelap/

List of Abbreviations:

LOD = Level of detection
LOQ = Level of quantification
ND = None detected. Results are less than the LOD

Responsible Party: _____ Steve Geis, Chemist Supervisor

If there are questions about this report, please contact Steve Geis at 608-224-6269.

Report #: 9546922

Appendix E
Meriter Hospital Well Information

Hooper CORPORATION

November 4, 2011

Nick Crompton
Meriter Hospital

Here is a breakdown on the reduced cost for the main hospital campus water project:

130 less feet of 4" copper pipe:

		/ft $		/ft lbr	
4" cu pipe deduct	-130	$30.00	-$3,900.00	0.2	-26
			$0.00		0
hangers	-13	$5.00	-$65.00	0.25	-3.25

Labor savings (including small tools, consumables, etc.) =	$3,400.00
Material savings for the pipe and hangers=	$4,365.00
Insulation credit=	$ 650.00
Well contractor savings=	$54,001.00
% mark-up on subcontractor savings=	$2,732.00
Total savings:	$65,148.00.

Original proposal amount:	$277,728.00
Savings=	$ 65,148.00
New proposal amount:	$212,580.00.

There may be some savings associated with the allowance amount I have included for the traffic control, irrigation system repair, and possibly shoring of the tunnel since the drill rig would not be directly over the tunnel in the new proposed location. However, we are not currently carrying any contingency either and allowances can be credited back if not used or needed, which total $6,370.00

I would also think that the electrical cost will go down since the control panel for the well is closer to the electrical panels in the tower mechanical room, that is assuming that the power will come from there.

Also, if we go with the interior bladder pressure tank at the C&A Facility there will be a savings of $7,875.00 to that project as well.

The 70 GPM C&A Facility well capacity is called out on the Plan Notes 1 on plan sheet PE210.

Phone: (608) 249-0451
Fax: (608) 249-7360

2030 Pennsylvania Avenue
P.O. Box 7455 • Madison, WI 53707-7455

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Madison, WI 53707-7996
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http://www.slh.wisc.edu

Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division | Inorganic Chemistry

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: IX009709

MERITER HOSPITAL
202 S PARK ST
MADISON WI 53715-1599

Bill To
Billing ID: 7328890
Customer ID: 343236
MERITER HOSPITAL
202 S PARK ST
MADISON WI 53715-1599

Collection Date: 10/10/2012 14:25:00
Owner: MERITER HOSPITAL
Unique Well #: YH017
Well Construction: DRILLED
County: DANE
Driller or Pump Installers License #:
Sampling Location: 202 S PARK ST MADISON WI 53715-1599
Sampling Point: SAMPLING FAUCET
Sampling information:

Collected By: RYAN UNZICKER
Well Completion Date: 04/12/12
Account: PP001
Date Received: 10/10/2012
Date Reported: 10/18/2012
Sample Reason: ANNUAL TEST

Analyses and Results:

Analysis Date	Lab Comment
10/17/2012	

Analysis Method	Result	Units	LOD	LOQ	Report Limit
ARSENIC	1.2	UG/L	1	3	

Note: The reported value above is equal to or greater than the LOD and less than the LOQ.

Your water is considered safe for drinking with respect to arsenic. The arsenic concentration in your water is below the federal action level of 10 micrograms per liter (UG/L, also known as parts per billion, or ppb) for arsenic in drinking water. However, you should retest your well water each year because concentrations of arsenic can change over time.

Analysis Date	Lab Comment
10/16/2012	

Analysis Method	Result	Units	LOD	LOQ	Report Limit
DIG, AS/SE ONLY, PRIVATE (SW846 7060A)	COMPLETE				

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division Inorganic Chemistry

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: IX009709

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see http://www.slh.wisc.edu/nelap/

List of Abbreviations:

LOD = Level of detection
LOQ = Level of quantification
ND = None detected. Results are less than the LOD

Responsible Party: Tracy Fritsch Tracy Fritsch, Chemist Supervisor

If there are questions about this report, please contact Customer Service at 800-442-4618 or 608-224-6202.

The results in this report apply only to the sample specifically listed above. This report is not to be reproduced except in full.

Report #: 9531517

Wisconsin State Laboratory of Hygiene
2601 Agriculture Drive, PO Box 7996
Madison, WI 53707-7996
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http://www.slh.wisc.edu

Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 45423001

Report To:
MERITER HOSPITAL
202 S PARK ST
MADISON, WI 53715-1599

Invoice To:
MERITER HOSPITAL
202 S PARK ST
MADISON, WI 53715-1599
Customer ID: 343236

Collection Date: 10/10/2012 2:20:00 PM
Owner: MERITER HOSPITAL, 202 S PARK ST., (608) 417-6484
Unique Well #: YH017
Well Construction: DRILLED
County: DANE
Driller or Pump Installers License #:
Sampling Location: 202 S PARK ST.
MADISON, WI 53715
Sampling Point: SAMPLE FAUCET

Collected By: RYAN U
Well Completion Date: 04/12/12

Date Received: 10/10/2012
Date Reported: 10/11/2012
Sample Reason: ANNUAL TEST

Microbiology

Analyte	Analysis Method	Result	Units	LOD	LOQ	RL	Prep Date	Analysis Date
Total Coliform - Colisure	SM9223B	Absent	/100mL				10/10/12	10/11/12

INTERPRETATION: BACTERIOLOGICALLY SAFE
At this time there is no indication of bacterial contamination entering your well system. Even though your well has been labeled "BACTERIOLOGICALLY SAFE", you should retest it annually - or any time it has been repaired, modified, or there is a change in appearance, taste, odor or flow.

E. Coli - Colisure	SM9223B	Absent	/100mL				10/10/12	10/11/12

The presence of E. coli indicates the presence of fecal material. Their presence indicates that water may be contaminated with organisms that can cause disease. There were NO E.coli bacteria found in you water sample.

The water microbiology unit analyzes samples as received and not all samples are tested for preservation before analysis is performed.

*Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see http://www.slh.edu/nelap/

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 45423001

List of Abbreviations

LOD = Level of detection
LOQ = Level of quantification
ND = None detected. Results are less than the LOD

Responsible Party: David Webb, Deputy Director, Environmental Health Division

If there are questions about this report, please contact the laboratory at the numbers listed below.

Microbiology: 608-224-6262

Wisconsin Department of Natural Resources
dnr.wi.gov

Pump Work – Water Test Request
Form 3300-288A (R 10/10)

Notice: This form is authorized by ch. NR 812, Wis. Adm. Code. This form will be used to determine pump installer compliance with bacteriological water sampling requirements. The pump installer is required to use a certified laboratory that provides the test results directly to DNR within 30 days of completion of the analysis.

Collection Date (MM-DD-YY)	Time	Collected By	License # (mandatory)
4/13/2012	10:00 AM ○ am ○ pm	Kent Lange	370

Owner's Name	Owner's Phone Number
Meritor Hospital	

Owner's Street Address	Well Address (Street or Legal Description)
202 South Park Street	202 S Park St., Madison

City	State	Zip Code	Town or City	County
Madison	WI		Madison	Dane

Latitude DEG	MIN	Longitude DEG	MIN	Lat./Long. Method

Mail Results To:

Name	
Sam's Well Drilling	
Address	
PO Box 150	
City	**State** / **Zip Code**
Randolph	53956

Do not use this form for Public Water Compliance Samples

Approx. Well Completion Date	Wis. Unique Well #
	.YH017

Sampling Information

Reason for Test:
- ☐ Previous Unsafe Following Pump Work
- ☐ Pump Work – New Well
- ☐ Pump Work – Existing Well

Installer must collect a second sample if the first sample is invalid (e.g., older than 48 hrs.).

Sample Location:
- ☐ Bathroom Tap
- ☐ Pressure Tank Tap
- ☐ Kitchen Tap
- ☐ Milkhouse
- ☐ Other

Well Construction Information
- ☐ Drilled
- ☐ Driven Point
- ☐ Jetted
- ☐ Dug
- ☐ Other

Driller (if new well)

Other Tests & Comments:

Arsenic: _____ µg/L

Pump Installers: All shaded areas are mandatory. The pump installer may collect the well driller's first sample as the agent; however, the sample must be in a separate bottle with the driller's test form attached.

SWD Labs, LLC
WI DNR# 111083830
WI DATCP# 105-458

Laboratory Use Only

Approved Method:
- ☐ Membrane Filtration
- ☐ Fermentation Broth
- ☒ Presence/Absence Enzyme Substrate
- ☐ Other

Laboratory Results

Bacteriological Interpretation:
- ☑ Safe (Coliform Absent)
- ☐ Unsafe (Coliform Present) and:
  - ☐ Fecal E Coli Present
  - ☐ Fecal E Coli Absent
- ☐ Invalid (Submit another sample)
  - ☐ Old - OL
  - ☐ Frozen - FR
  - ☐ Overgrown - OG
  - ☐ Lab Accident - LA
  - ☐ Turbidity - TU
  - ☐ Shipping Problem - SP
  - ☐ Chlorine Present - CL

Nitrate: <.34 mg/L as N

Fluoride: _____ mg/L

Date / Time Received	
4/13/2012	4:15 PM

Lab Sample No.: 6721

Date Reported: 4/16/2012 5:54 AM

Date Received by DNR

Wisconsin Department of Natural Resources
dnr.wi.gov

Pump Work – Water Test Request

Form 3300-208A (R 10/10)

Notice: This form is authorized by ch. NR 812, Wis. Adm. Code. This form will be used to determine pump installer compliance with bacteriological water sampling requirements. The pump installer is required to use a certified laboratory that provides the test results directly to DNR within 30 days of completion of the analysis.

Collection Date (MM-DD-YY)	Time	Collected By	License # (mandatory)
4/13/2012	10:00 AM ○ am ○ pm	Kent Lange	370

Owner's Name	Owner's Phone Number
Meritor Hospital	

Owner's Street Address	Well Address (Street or Legal Description)
202 South Park Street	202 S Park St., Madison

City	State	ZIP Code	Town or City	County
Madison	WI		Madison	Dane

Latitude DEG MIN	Longitude DEG MIN	Lat./Long. Method

Mail Results To:

Name: Sam's Well Drilling

Address: PO Box 150

City	State	ZIP Code
Randolph		53956

Do not use this form for Public Water Compliance Samples

Approx. Well Completion Date	Wis. Unique Well #
	YH017

Sampling Information

Reason for Test:

- ☐ Previous Unsafe Following Pump Work
- ☐ Pump Work – New Well
- ☐ Pump Work – Existing Well

Installer must collect a second sample if the first sample is invalid (e.g., older than 48 hrs.).

Sample Location:

- ☐ Bathroom Tap
- ☐ Pressure Tank Tap
- ☐ Kitchen Tap
- ☐ Milkhouse
- ☐ Other

Well Construction Information

- ☐ Drilled
- ☐ Driven Point
- ☐ Jetted
- ☐ Dug
- ☐ Other

Driller (if new well)

Other Tests & Comments:

Arsenic: _____ µg/L

Pump Installers: All shaded areas are mandatory. The pump installer may collect the well driller's first sample as the agent; however, the sample must be in a separate bottle with the driller's test form attached.

SWD Labs, LLC
WI DNR# 111083830
WI DATCP# 105-458

Laboratory Use Only

Approved Method:

- ☐ Membrane Filtration
- ☐ Fermentation Broth
- ☒ Presence/Absence Enzyme Substrate
- ☐ Other

Laboratory Results

Bacteriological Interpretation:

- ☑ Safe (Coliform Absent)
- ☐ Unsafe (Coliform Present) and:
  - ☐ Fecal E Coli Present
  - ☐ Fecal E Coli Absent
- ☐ Invalid (Submit another sample)
  - ☐ Old - OL
  - ☐ Frozen - FR
  - ☐ Overgrown - OG
  - ☐ Lab Accident - LA
  - ☐ Turbidity - TU
  - ☐ Shipping Problem - SP
  - ☐ Chlorine Present - CL

Nitrate: <.34 mg/L as N

Fluoride: _____ mg/L

Date / Time Received: 4/13/2012 4:15 PM

Lab Sample No.: 6721

Date Reported: 4/16/2012 5:54 AM

Date Received by DNR

Wisconsin Department of Natural Resources
dnr.wi.gov

Water Testing Form For Private Water Systems

Form 3300-217 (R 11/04)

Collection Date (MM-DD-YY)	Time	Collected By	License # (if pump installer or well driller required sample)*
5/4/2012	12:30 PM	Stu Kok	370

Owner's Name	Owner's Telephone Number
Meriter Hospital	( )

Owner's Street Address	Well Address (Street or Legal Description)
202 South Prk Street	202 South Park Street

City	State	ZIP Code	Town or City	County
Madison	WI		Madison	Dane

Mail Results To:

Name: Sam's Well Drilling

Address: PO Box 150

City: Randolph | State: WI | ZIP Code: 53956

Well Owner: Do you want a copy of results sent to DNR? ☐ Yes ☐ No

This form is not to be used for Public Water Compliance Samples

Approx. Well Completion Date:

Wis. Unique Well #: YH017 (A A N N N)

Sampling Information

Reason for Test:

* *Lab is required to send DNR test results*

- ☐ Annual Test
- ☐ New Well*
- ☐ Taste or Odor
- ☐ Other Reasons: _____
- ☐ Previous Unsafe
- ☐ Pump Work*
- ☐ Real Estate

Sample Location:

- ☐ Bathroom Tap
- ☐ Kitchen Tap
- ☐ Other _____
- ☐ Pressure Tank Tap
- ☐ Milkhouse

Well Construction Information

- ☐ Drilled
- ☐ Jetted
- ☐ Other _____
- ☐ Driven Point
- ☐ Dug

SWD Labs, LLC

WI DNR #111083830
WI DATCP #105-458

Laboratory Use Only

Approved Method:

- ☒ MMO-MUG (Colilert®, Colisure®, etc.)
- ☐ Membrane Filter
- ☐ Multiple Tube Fermentation
- ☐ Presence/Absence
- ☐ Other _____

Laboratory Results

Bacteriological Interpretation:

- ☑ **Safe** (Coliform Absent)
- ☐ **Unsafe** (Coliform Present) and:
  - ☐ Fecal/E Coli Present
  - ☐ Fecal/E Coli Absent
- ☐ **Invalid** (Submit another sample)
  - ☐ Old - OL
  - ☐ Overgrown - OG
  - ☐ Turbidity - TU
  - ☐ Chlorine Present - CL
  - ☐ Frozen - FR
  - ☐ Lab Accident - LA
  - ☐ Shipping Problem - SP

Nitrate: .442 mg/L as N

Date / Time Received: 5/4/2012 3:05 PM

Lab Sample No.: 6783

Date Reported: 5/5/2012

Return Completed Forms To
Department of Natural Resources
Water Use Section - DG/5
PO Box 7921, Madison WI 53707-7921
dnr.wi.gov

Water Withdrawal Report
Form 3300-275 (R 11/12))

http://dnr.wi.gov/topic/WaterUse/

Notice: Pursuant to chs. NR 820 & 856 Wis. Adm. Code, this form is required to report monthly volumes of the withdrawal on an annual basis. Reports must be submitted by March 1 for the previous year's withdrawals. Personally identifiable information provided on this form is not intended to be used for any other purposes but may be made available to requesters under Wisconsin's Open Records law (s. 19.31-19.39, Wis. Stats.)

1. Property Information
All sources on the same property have the same property #.

Property Name (Assigned by Owner):

Property # 12957

OWNER # 20593	OPERATOR # 20593
MERITER HEALTH SERVICES CROMPTON, NICK 202 SOUTH PARK STREET MADISON WI 53715 Phone: (608) 417-6000 E-Mail: ncrompton@meriter.com	MERITER HEALTH SERVICES CROMPTON, NICK 202 SOUTH PARK STREET MADISON WI 53715 Phone: (608) 417-6000 E-Mail: ncrompton@meriter.com

2. Source Information
Each source has a unique #.

a. Source Name (Assigned by Owner): 1

Source # 18475

b. PLSS: NW ¼ of SW ¼ of Section SW, Township 7 N, Range 9 E

c. Hicap Well #: **71881**	d. Constructed Year: 2012	e. Unique Well #: YH017
f. Pump Capacity (GPM): 250	g. Well Depth (ft): 560	h. Casing Diameter (in): 8

3. Water Withdrawal Reporting for 2012
Report each source separately.

a. Measurement Code: TFM

b. Water Use Code: PS12

c. Comments:

Month	Gallons Pumped or Withdrawn Indicate zero gallons with a single "0"
Example	1,200,550 Gallons
January	0 Gallons
February	0 Gallons
March	0 Gallons
April	8,200 Gallons
May	2,600 Gallons
June	0 Gallons
July	0 Gallons
August	0 Gallons
September	0 Gallons
October	29,900 Gallons
November	19,500 Gallons
December	22,700 Gallons

d. ☐ This source is approved exclusively for single family residential uses and the withdrawal capacity is less than or equal to 20 gallons per minute (GPM).

e. ☐ I did not withdraw from this source in ____.
If you checked , select from the reasons below:

1) ☐ Filled & Sealed Well 2) ☐ Temporarily Capped Well 3) ☐ Well Not Drilled 4) ☐ Do Not Know of this Well or Source

5) ☐ No Need for Water This Year 6) ☐ Surface Water Source Temporarily Offline 7) ☐ Surface Water Source Permanently Terminated

4. Certification and Signature
I hereby certify that I am the owner or authorized representative of the owner of the property which is the subject of this water use report. I certify that the information contained in this form and attachments is accurate and complete.

Name (Print) Nicholas Crompton ☒ Owner ☐ Agent of Owner (if not, operator) ☐ Operator

Signature [signature] Company Meriter Health Services Date Signed 1-28-13

Mail signed form to address in upper left-hand corner of this form. NO NOT mail in this form if you reported your water use online.

Wisconsin State Laboratory of Hygiene
2601 Agriculture Drive, PO Box 7996
Madison, WI 53707-7996
(800)442-4618 - FAX (608)224-6213
http://www.slh.wisc.edu

Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 68024001

Report To:
MERITER HOSPITAL
202 S PARK ST
MADISON, WI 53715-1599

Invoice To:
MERITER HOSPITAL
202 S PARK ST
MADISON, WI 53715-1599
Customer ID: 343236

Collection Date: 4/12/2013 10:30:00 AM
Owner: MERITER HOSPITAL, 202 S PARK ST., (608) 417-6484
Unique Well #: YH017
Well Construction: DRILLED
County: DANE
Driller or Pump Installers License #:
Sampling Location: 202 S PARK ST.
MADISON, WI 53715
Sampling Point: BASEMENT TAP

Collected By: MIKE MCLAUGHLIN
Well Completion Date: 04/12/12

Date Received: 4/13/2013
Date Reported: 4/15/2013
Sample Reason: ANNUAL TEST

Microbiology

Analyte	Analysis Method	Result	Units	LOD	LOQ	RL	Prep Date	Analysis Date
Total Coliform - Colisure	SM9223B	Absent	/100mL				04/13/13	04/14/13

INTERPRETATION: BACTERIOLOGICALLY SAFE
At this time there is no indication of bacterial contamination entering your well system. Even though your well has been labeled "BACTERIOLOGICALLY SAFE", you should retest it annually - or any time it has been repaired, modified, or there is a change in appearance, taste, odor or flow.

E. Coli - Colisure	SM9223B	Absent	/100mL				04/13/13	04/14/13

The presence of E. coli indicates the presence of fecal material. Their presence indicates that water may be contaminated with organisms that can cause disease. There were NO E.coli bacteria found in you water sample.

The water microbiology unit analyzes samples as received and not all samples are tested for preservation before analysis is performed.

*Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see http://www.slh.edu/nelap/

Wisconsin State Laboratory of Hygiene
2601 Agriculture Drive, PO Box 7996
Madison, WI 53707-7996
(800)442-4618 - FAX (608)224-6213
http://www.slh.wisc.edu

Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 68024001

List of Abbreviations

LOD = Level of detection
LOQ = Level of quantification
ND = None detected. Results are less than the LOD

Responsible Party: David Webb, Deputy Director, Environmental Health Division

The results in this report apply only to the sample specifically listed above. This report is not to be reproduced except in full.

If there are questions about this report, please contact the laboratory at the numbers listed below.

Microbiology: 608-224-6262

Demographic and Income Profile

La Hacienda
501 S Park St, Madison, Wisconsin, 53715
Ring band: 0 - 0.25 mile radius

Prepared by Esri
Latitude: 43.06186
Longitude: -89.40043

Summary	Census 2010	Census 2020	2023	2028
Population	1,015	1,172	1,180	1,168
Households	439	569	576	574
Families	119	-	148	146
Average Household Size	2.31	2.06	2.05	2.03
Owner Occupied Housing Units	118	-	150	158
Renter Occupied Housing Units	321	-	426	417
Median Age	24.5	-	25.4	25.5

Trends: 2023-2028 Annual Rate	Area	State	National
Population	-0.20%	0.11%	0.30%
Households	-0.07%	0.33%	0.49%
Families	-0.27%	0.25%	0.44%
Owner HHs	1.04%	0.52%	0.66%
Median Household Income	3.09%	2.54%	2.57%

	2023		2028	
Households by Income	Number	Percent	Number	Percent
<$15,000	94	16.3%	80	13.9%
$15,000 - $24,999	21	3.6%	17	3.0%
$25,000 - $34,999	78	13.5%	66	11.5%
$35,000 - $49,999	46	8.0%	42	7.3%
$50,000 - $74,999	95	16.5%	94	16.4%
$75,000 - $99,999	69	12.0%	69	12.0%
$100,000 - $149,999	81	14.1%	93	16.2%
$150,000 - $199,999	70	12.2%	89	15.5%
$200,000+	23	4.0%	24	4.2%
Median Household Income	$60,740		$70,710	
Average Household Income	$83,764		$95,298	
Per Capita Income	$38,318		$43,909	

	Census 2010		2023		2028	
Population by Age	Number	Percent	Number	Percent	Number	Percent
0 - 4	28	2.8%	31	2.6%	32	2.7%
5 - 9	26	2.6%	30	2.5%	30	2.6%
10 - 14	16	1.6%	18	1.5%	18	1.5%
15 - 19	38	3.7%	42	3.6%	42	3.6%
20 - 24	446	44.0%	454	38.5%	442	37.9%
25 - 34	217	21.4%	277	23.5%	266	22.8%
35 - 44	66	6.5%	84	7.1%	88	7.6%
45 - 54	72	7.1%	75	6.4%	75	6.4%
55 - 64	63	6.2%	89	7.5%	83	7.1%
65 - 74	27	2.7%	52	4.4%	55	4.7%
75 - 84	11	1.1%	21	1.8%	26	2.2%
85+	4	0.4%	7	0.6%	8	0.7%

	Census 2010		Census 2020		2023		2028	
Race and Ethnicity	Number	Percent	Number	Percent	Number	Percent	Number	Percent
White Alone	881	86.8%	920	78.5%	916	77.7%	890	76.1%
Black Alone	25	2.5%	62	5.3%	63	5.3%	65	5.6%
American Indian Alone	6	0.6%	6	0.5%	6	0.5%	7	0.6%
Asian Alone	63	6.2%	85	7.3%	88	7.5%	94	8.0%
Pacific Islander Alone	0	0.0%	3	0.3%	3	0.3%	3	0.3%
Some Other Race Alone	14	1.4%	17	1.5%	18	1.5%	20	1.7%
Two or More Races	26	2.6%	80	6.8%	85	7.2%	90	7.7%
Hispanic Origin (Any Race)	44	4.3%	65	5.5%	69	5.8%	75	6.4%

Data Note: Income is expressed in current dollars.

Source: Esri forecasts for 2023 and 2028. U.S. Census Bureau 2010 decennial Census data converted by Esri into 2020 geography.

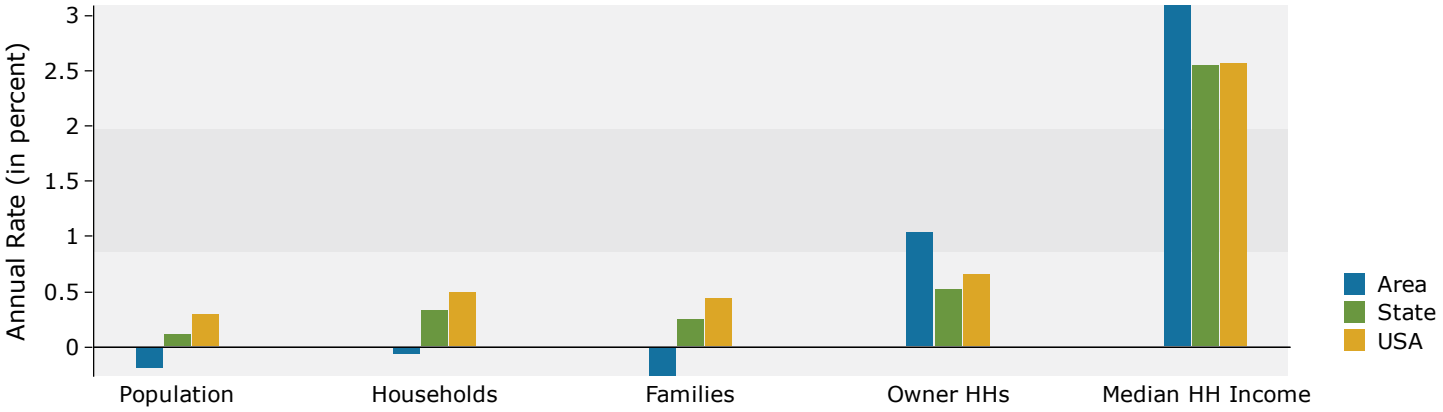
June 28, 2023

Demographic and Income Profile

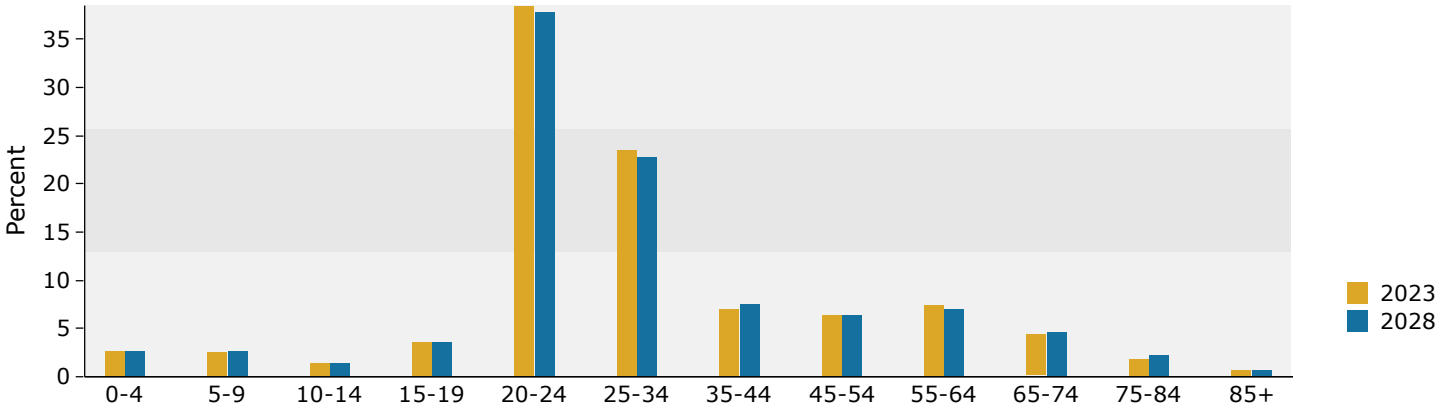
La Hacienda
501 S Park St, Madison, Wisconsin, 53715
Ring band: 0 - 0.25 mile radius

Prepared by Esri
Latitude: 43.06186
Longitude: -89.40043

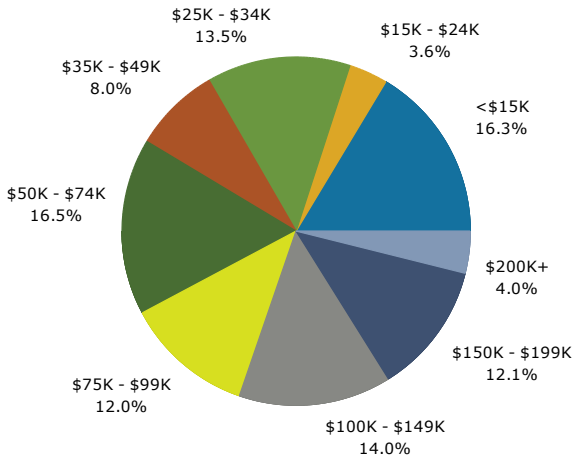
Trends 2023-2028



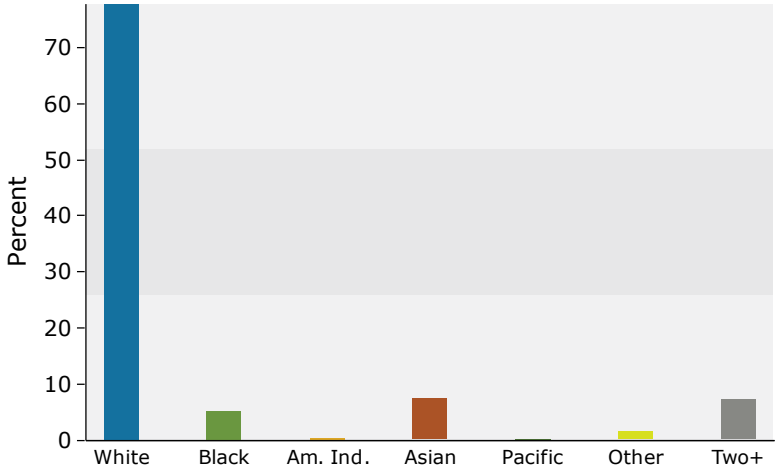
Population by Age



2023 Household Income



2023 Population by Race



2023 Percent Hispanic Origin:5.8%

Source: Esri forecasts for 2023 and 2028. U.S. Census Bureau 2010 decennial Census data converted by Esri into 2020 geography.

June 28, 2023

Demographic and Income Profile

La Hacienda
501 S Park St, Madison, Wisconsin, 53715
Ring band: 0.25 - 0.5 mile radius

Prepared by Esri
Latitude: 43.06186
Longitude: -89.40043

Summary	Census 2010	Census 2020	2023	2028
Population	4,632	5,204	5,446	5,540
Households	1,853	2,271	2,383	2,448
Families	487	-	578	590
Average Household Size	2.25	2.02	2.03	2.01
Owner Occupied Housing Units	374	-	442	471
Renter Occupied Housing Units	1,478	-	1,941	1,977
Median Age	23.9	-	24.3	24.4

Trends: 2023-2028 Annual Rate	Area	State	National
Population	0.34%	0.11%	0.30%
Households	0.54%	0.33%	0.49%
Families	0.41%	0.25%	0.44%
Owner HHs	1.28%	0.52%	0.66%
Median Household Income	4.03%	2.54%	2.57%

	2023		2028	
Households by Income	Number	Percent	Number	Percent
<$15,000	626	26.3%	586	23.9%
$15,000 - $24,999	169	7.1%	154	6.3%
$25,000 - $34,999	265	11.1%	231	9.4%
$35,000 - $49,999	211	8.9%	203	8.3%
$50,000 - $74,999	300	12.6%	318	13.0%
$75,000 - $99,999	197	8.3%	208	8.5%
$100,000 - $149,999	328	13.8%	400	16.3%
$150,000 - $199,999	179	7.5%	236	9.6%
$200,000+	109	4.6%	112	4.6%
Median Household Income	$43,429		$52,908	
Average Household Income	$72,295		$81,757	
Per Capita Income	$32,077		$36,516	

	Census 2010		2023		2028	
Population by Age	Number	Percent	Number	Percent	Number	Percent
0 - 4	118	2.5%	125	2.3%	134	2.4%
5 - 9	105	2.3%	112	2.1%	113	2.0%
10 - 14	81	1.7%	89	1.6%	89	1.6%
15 - 19	538	11.6%	606	11.1%	611	11.0%
20 - 24	1,878	40.5%	2,073	38.1%	2,079	37.5%
25 - 34	837	18.1%	1,058	19.4%	1,066	19.2%
35 - 44	277	6.0%	338	6.2%	354	6.4%
45 - 54	325	7.0%	329	6.0%	338	6.1%
55 - 64	270	5.8%	357	6.6%	339	6.1%
65 - 74	124	2.7%	237	4.4%	256	4.6%
75 - 84	55	1.2%	88	1.6%	116	2.1%
85+	24	0.5%	36	0.7%	45	0.8%

	Census 2010		Census 2020		2023		2028	
Race and Ethnicity	Number	Percent	Number	Percent	Number	Percent	Number	Percent
White Alone	3,822	82.5%	3,884	74.6%	4,030	74.0%	4,021	72.6%
Black Alone	187	4.0%	315	6.1%	326	6.0%	336	6.1%
American Indian Alone	22	0.5%	26	0.5%	29	0.5%	31	0.6%
Asian Alone	406	8.8%	509	9.8%	543	10.0%	587	10.6%
Pacific Islander Alone	1	0.0%	10	0.2%	10	0.2%	10	0.2%
Some Other Race Alone	68	1.5%	108	2.1%	122	2.2%	136	2.5%
Two or More Races	125	2.7%	352	6.8%	386	7.1%	420	7.6%
Hispanic Origin (Any Race)	223	4.8%	344	6.6%	381	7.0%	415	7.5%

Data Note: Income is expressed in current dollars.

Source: Esri forecasts for 2023 and 2028. U.S. Census Bureau 2010 decennial Census data converted by Esri into 2020 geography.

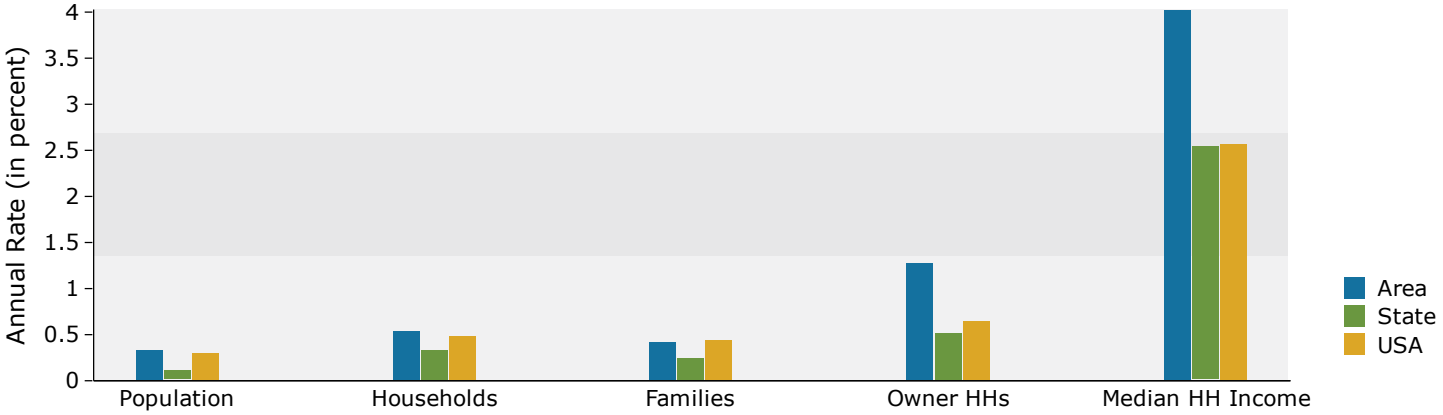
June 28, 2023

Demographic and Income Profile

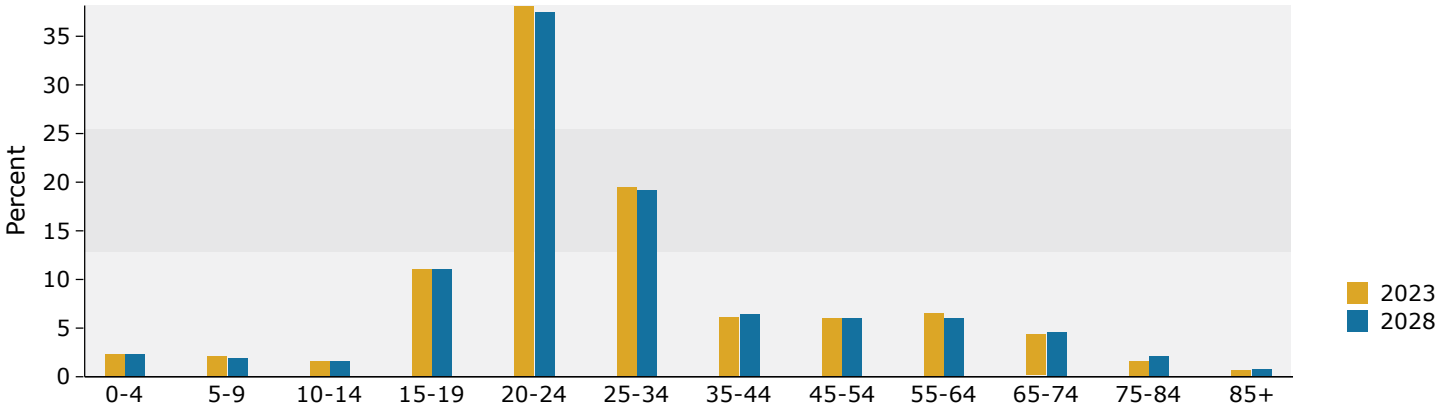
La Hacienda
501 S Park St, Madison, Wisconsin, 53715
Ring band: 0.25 - 0.5 mile radius

Prepared by Esri
Latitude: 43.06186
Longitude: -89.40043

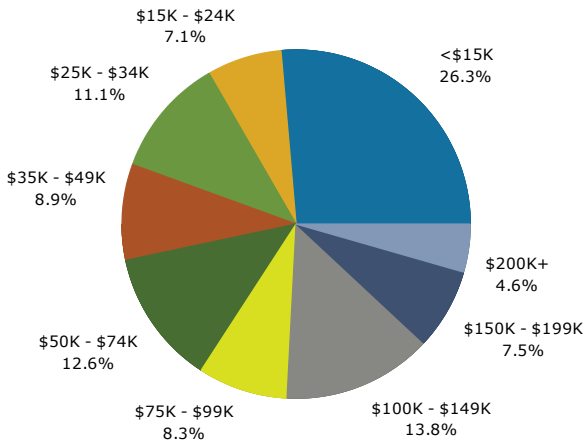
Trends 2023-2028



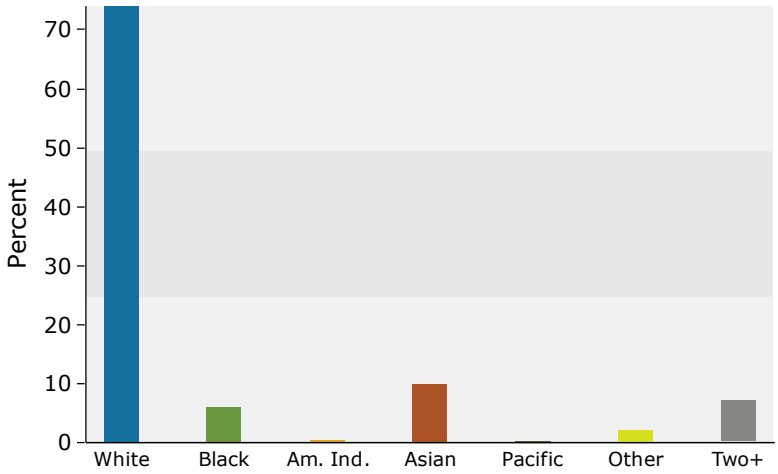
Population by Age



2023 Household Income



2023 Population by Race



2023 Percent Hispanic Origin:7.0%

Source: Esri forecasts for 2023 and 2028. U.S. Census Bureau 2010 decennial Census data converted by Esri into 2020 geography.

June 28, 2023

Demographic and Income Profile

La Hacienda
501 S Park St, Madison, Wisconsin, 53715
Ring band: 0.5 - 1 mile radius

Prepared by Esri
Latitude: 43.06186
Longitude: -89.40043

Summary	Census 2010	Census 2020	2023	2028
Population	22,404	31,234	32,451	33,371
Households	9,021	12,953	13,558	14,073
Families	1,281	-	1,576	1,647
Average Household Size	2.09	2.05	2.05	2.04
Owner Occupied Housing Units	1,400	-	1,707	1,887
Renter Occupied Housing Units	7,621	-	11,851	12,185
Median Age	22.8	-	23.1	23.1

Trends: 2023-2028 Annual Rate	Area	State	National
Population	0.56%	0.11%	0.30%
Households	0.75%	0.33%	0.49%
Families	0.89%	0.25%	0.44%
Owner HHs	2.03%	0.52%	0.66%
Median Household Income	3.41%	2.54%	2.57%

	2023		2028	
Households by Income	Number	Percent	Number	Percent
<$15,000	4,657	34.3%	4,507	32.0%
$15,000 - $24,999	1,448	10.7%	1,266	9.0%
$25,000 - $34,999	1,258	9.3%	1,248	8.9%
$35,000 - $49,999	1,359	10.0%	1,465	10.4%
$50,000 - $74,999	1,413	10.4%	1,541	11.0%
$75,000 - $99,999	751	5.5%	791	5.6%
$100,000 - $149,999	1,173	8.7%	1,394	9.9%
$150,000 - $199,999	743	5.5%	1,002	7.1%
$200,000+	755	5.6%	859	6.1%
Median Household Income	$29,703		$35,118	
Average Household Income	$64,455		$73,486	
Per Capita Income	$27,019		$30,942	

	Census 2010		2023		2028	
Population by Age	Number	Percent	Number	Percent	Number	Percent
0 - 4	228	1.0%	340	1.0%	368	1.1%
5 - 9	199	0.9%	256	0.8%	253	0.8%
10 - 14	193	0.9%	261	0.8%	237	0.7%
15 - 19	4,155	18.5%	4,770	14.7%	4,782	14.3%
20 - 24	11,351	50.7%	16,984	52.3%	17,750	53.2%
25 - 34	2,574	11.5%	4,311	13.3%	4,388	13.1%
35 - 44	892	4.0%	1,303	4.0%	1,264	3.8%
45 - 54	933	4.2%	1,134	3.5%	1,130	3.4%
55 - 64	971	4.3%	1,409	4.3%	1,348	4.0%
65 - 74	418	1.9%	943	2.9%	970	2.9%
75 - 84	258	1.2%	459	1.4%	563	1.7%
85+	231	1.0%	281	0.9%	316	0.9%

	Census 2010		Census 2020		2023		2028	
Race and Ethnicity	Number	Percent	Number	Percent	Number	Percent	Number	Percent
White Alone	18,931	84.5%	22,558	72.2%	23,078	71.1%	23,129	69.3%
Black Alone	675	3.0%	842	2.7%	897	2.8%	964	2.9%
American Indian Alone	80	0.4%	114	0.4%	126	0.4%	130	0.4%
Asian Alone	1,922	8.6%	5,158	16.5%	5,548	17.1%	6,076	18.2%
Pacific Islander Alone	5	0.0%	29	0.1%	31	0.1%	32	0.1%
Some Other Race Alone	242	1.1%	546	1.7%	608	1.9%	681	2.0%
Two or More Races	548	2.4%	1,988	6.4%	2,164	6.7%	2,359	7.1%
Hispanic Origin (Any Race)	838	3.7%	1,682	5.4%	1,862	5.7%	2,054	6.2%

Data Note: Income is expressed in current dollars.

Source: Esri forecasts for 2023 and 2028. U.S. Census Bureau 2010 decennial Census data converted by Esri into 2020 geography.

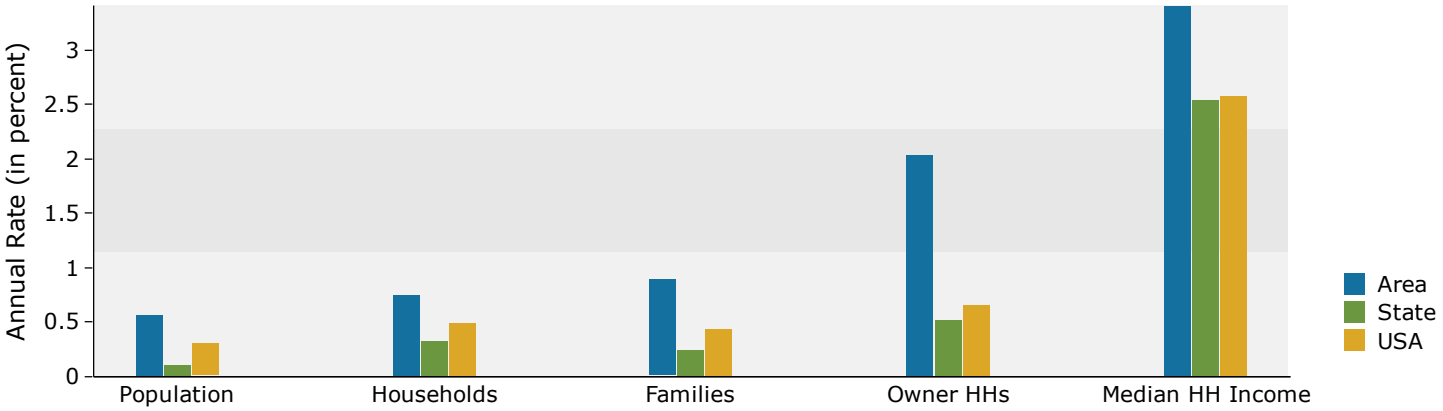
June 28, 2023

Demographic and Income Profile

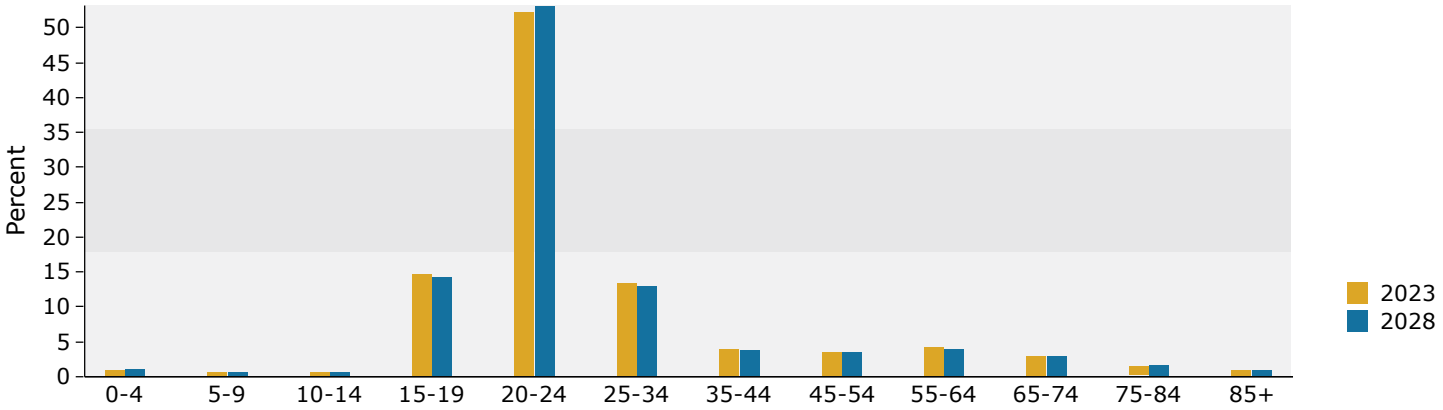
La Hacienda
501 S Park St, Madison, Wisconsin, 53715
Ring band: 0.5 - 1 mile radius

Prepared by Esri
Latitude: 43.06186
Longitude: -89.40043

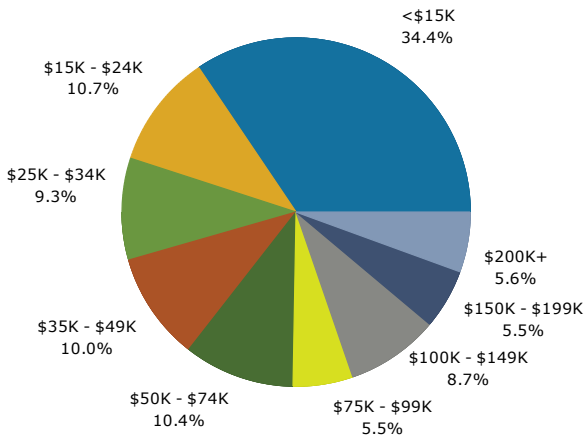
Trends 2023-2028



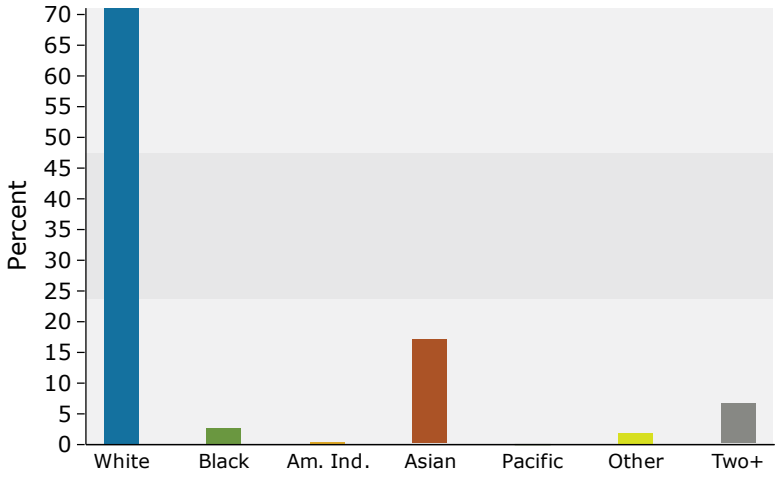
Population by Age



2023 Household Income



2023 Population by Race



2023 Percent Hispanic Origin:5.7%

Source: Esri forecasts for 2023 and 2028. U.S. Census Bureau 2010 decennial Census data converted by Esri into 2020 geography.

June 28, 2023

Demographic and Income Profile

La Hacienda
501 S Park St, Madison, Wisconsin, 53715
Ring band: 1 - 2 mile radius

Prepared by Esri
Latitude: 43.06186
Longitude: -89.40043

Summary	Census 2010	Census 2020	2023	2028
Population	30,679	35,918	36,595	38,252
Households	12,542	15,220	15,709	16,702
Families	3,649	-	4,195	4,408
Average Household Size	2.05	1.96	1.94	1.93
Owner Occupied Housing Units	3,267	-	3,887	4,080
Renter Occupied Housing Units	9,275	-	11,822	12,622
Median Age	24.5	-	25.1	25.3

Trends: 2023-2028 Annual Rate	Area	State	National
Population	0.89%	0.11%	0.30%
Households	1.23%	0.33%	0.49%
Families	1.00%	0.25%	0.44%
Owner HHs	0.97%	0.52%	0.66%
Median Household Income	2.23%	2.54%	2.57%

	2023		2028	
Households by Income	Number	Percent	Number	Percent
<$15,000	3,041	19.4%	2,901	17.4%
$15,000 - $24,999	1,280	8.1%	1,077	6.4%
$25,000 - $34,999	1,456	9.3%	1,436	8.6%
$35,000 - $49,999	1,923	12.2%	1,981	11.9%
$50,000 - $74,999	2,429	15.5%	2,634	15.8%
$75,000 - $99,999	1,426	9.1%	1,494	8.9%
$100,000 - $149,999	1,496	9.5%	1,821	10.9%
$150,000 - $199,999	1,087	6.9%	1,469	8.8%
$200,000+	1,569	10.0%	1,889	11.3%
Median Household Income	$51,097		$57,061	
Average Household Income	$91,084		$104,076	
Per Capita Income	$40,317		$46,726	

	Census 2010		2023		2028	
Population by Age	Number	Percent	Number	Percent	Number	Percent
0 - 4	1,147	3.7%	1,140	3.1%	1,267	3.3%
5 - 9	1,004	3.3%	974	2.7%	999	2.6%
10 - 14	904	2.9%	957	2.6%	893	2.3%
15 - 19	3,771	12.3%	4,223	11.5%	4,112	10.8%
20 - 24	9,476	30.9%	10,919	29.8%	11,570	30.2%
25 - 34	6,099	19.9%	7,815	21.4%	8,058	21.1%
35 - 44	2,550	8.3%	3,066	8.4%	3,469	9.1%
45 - 54	2,271	7.4%	2,359	6.4%	2,402	6.3%
55 - 64	2,103	6.9%	2,362	6.5%	2,349	6.1%
65 - 74	859	2.8%	1,772	4.8%	1,733	4.5%
75 - 84	361	1.2%	717	2.0%	1,027	2.7%
85+	133	0.4%	288	0.8%	371	1.0%

	Census 2010		Census 2020		2023		2028	
Race and Ethnicity	Number	Percent	Number	Percent	Number	Percent	Number	Percent
White Alone	23,199	75.6%	25,269	70.4%	25,475	69.6%	25,908	67.7%
Black Alone	2,561	8.3%	2,198	6.1%	2,218	6.1%	2,369	6.2%
American Indian Alone	121	0.4%	211	0.6%	219	0.6%	247	0.6%
Asian Alone	2,427	7.9%	3,401	9.5%	3,555	9.7%	3,902	10.2%
Pacific Islander Alone	15	0.0%	18	0.1%	20	0.1%	21	0.1%
Some Other Race Alone	1,393	4.5%	1,841	5.1%	1,949	5.3%	2,289	6.0%
Two or More Races	963	3.1%	2,979	8.3%	3,159	8.6%	3,515	9.2%
Hispanic Origin (Any Race)	3,167	10.3%	3,907	10.9%	4,151	11.3%	4,761	12.4%

Data Note: Income is expressed in current dollars.

Source: Esri forecasts for 2023 and 2028. U.S. Census Bureau 2010 decennial Census data converted by Esri into 2020 geography.

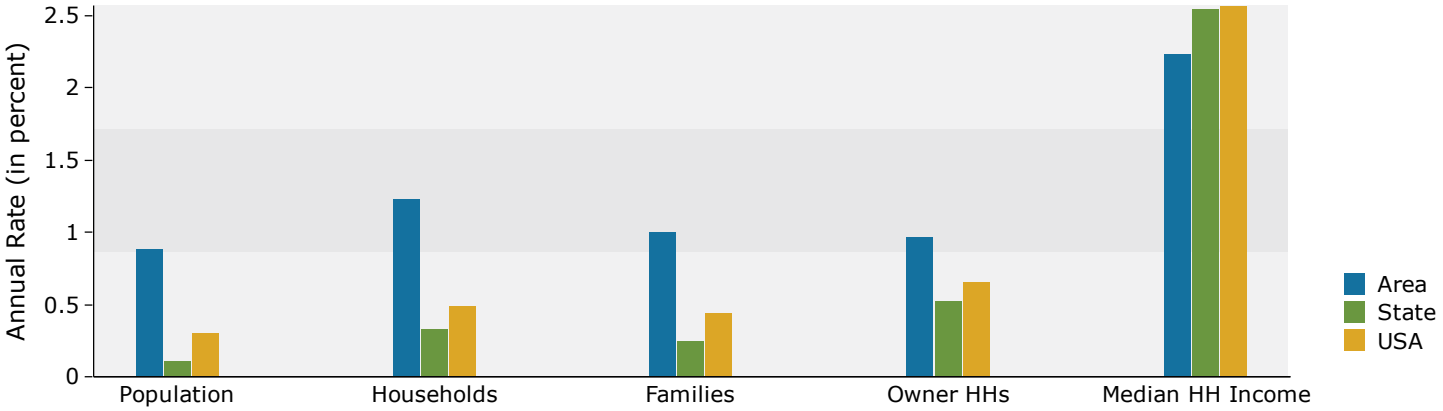
June 28, 2023

Demographic and Income Profile

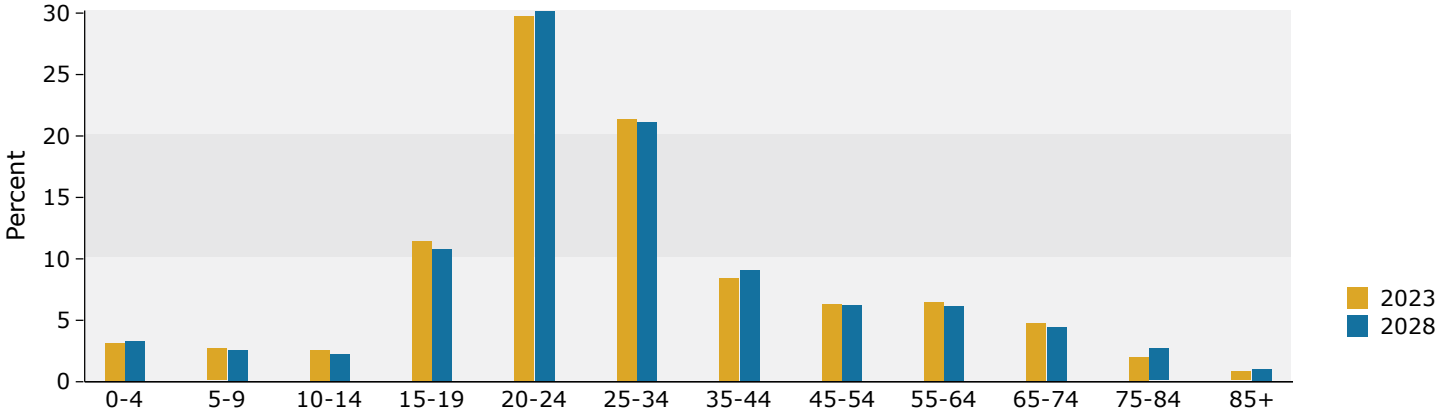
La Hacienda
501 S Park St, Madison, Wisconsin, 53715
Ring band: 1 - 2 mile radius

Prepared by Esri
Latitude: 43.06186
Longitude: -89.40043

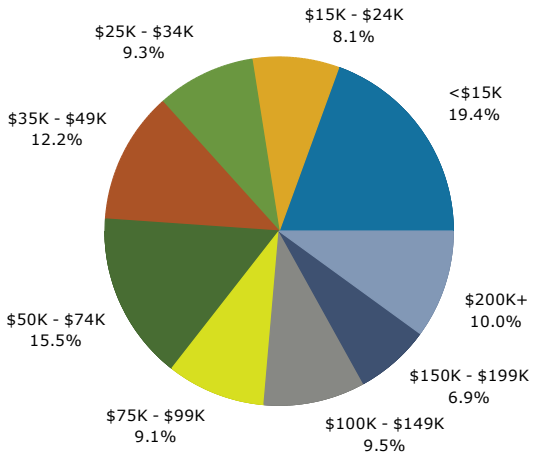
Trends 2023-2028



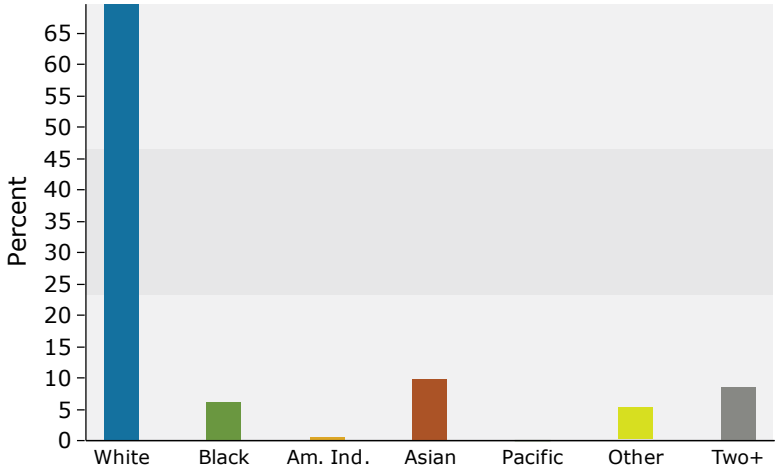
Population by Age



2023 Household Income



2023 Population by Race



2023 Percent Hispanic Origin:11.3%

Source: Esri forecasts for 2023 and 2028. U.S. Census Bureau 2010 decennial Census data converted by Esri into 2020 geography.

June 28, 2023

Demographic and Income Profile

La Hacienda
501 S Park St, Madison, Wisconsin, 53715
Ring band: 2 - 3 mile radius

Prepared by Esri
Latitude: 43.06186
Longitude: -89.40043

Summary	Census 2010	Census 2020	2023	2028
Population	37,392	40,672	42,120	42,801
Households	17,178	19,034	19,925	20,439
Families	8,537	-	9,405	9,586
Average Household Size	2.17	2.12	2.10	2.08
Owner Occupied Housing Units	7,818	-	9,172	9,497
Renter Occupied Housing Units	9,353	-	10,753	10,942
Median Age	33.0	-	35.5	35.2

Trends: 2023-2028 Annual Rate	Area	State	National
Population	0.32%	0.11%	0.30%
Households	0.51%	0.33%	0.49%
Families	0.38%	0.25%	0.44%
Owner HHs	0.70%	0.52%	0.66%
Median Household Income	2.62%	2.54%	2.57%

	2023		2028	
Households by Income	Number	Percent	Number	Percent
<$15,000	2,008	10.1%	1,719	8.4%
$15,000 - $24,999	1,279	6.4%	993	4.9%
$25,000 - $34,999	1,585	8.0%	1,418	6.9%
$35,000 - $49,999	2,092	10.5%	1,971	9.6%
$50,000 - $74,999	3,321	16.7%	3,298	16.1%
$75,000 - $99,999	2,548	12.8%	2,562	12.5%
$100,000 - $149,999	3,005	15.1%	3,517	17.2%
$150,000 - $199,999	1,652	8.3%	2,193	10.7%
$200,000+	2,436	12.2%	2,767	13.5%
Median Household Income	$71,700		$81,579	
Average Household Income	$113,147		$127,855	
Per Capita Income	$53,638		$61,189	

	Census 2010		2023		2028	
Population by Age	Number	Percent	Number	Percent	Number	Percent
0 - 4	2,582	6.9%	2,358	5.6%	2,460	5.7%
5 - 9	2,167	5.8%	2,159	5.1%	2,109	4.9%
10 - 14	1,801	4.8%	2,087	5.0%	1,927	4.5%
15 - 19	1,672	4.5%	2,045	4.9%	1,878	4.4%
20 - 24	3,208	8.6%	3,385	8.0%	3,861	9.0%
25 - 34	8,755	23.4%	8,652	20.5%	9,059	21.2%
35 - 44	4,933	13.2%	6,367	15.1%	6,056	14.1%
45 - 54	4,672	12.5%	4,349	10.3%	4,567	10.7%
55 - 64	4,167	11.1%	4,484	10.6%	4,057	9.5%
65 - 74	1,867	5.0%	3,873	9.2%	3,870	9.0%
75 - 84	1,096	2.9%	1,717	4.1%	2,231	5.2%
85+	471	1.3%	641	1.5%	727	1.7%

	Census 2010		Census 2020		2023		2028	
Race and Ethnicity	Number	Percent	Number	Percent	Number	Percent	Number	Percent
White Alone	27,736	74.2%	27,347	67.2%	27,807	66.0%	27,521	64.3%
Black Alone	3,084	8.2%	3,912	9.6%	4,139	9.8%	4,253	9.9%
American Indian Alone	190	0.5%	244	0.6%	260	0.6%	275	0.6%
Asian Alone	3,189	8.5%	3,281	8.1%	3,438	8.2%	3,699	8.6%
Pacific Islander Alone	9	0.0%	11	0.0%	13	0.0%	13	0.0%
Some Other Race Alone	1,967	5.3%	2,221	5.5%	2,505	5.9%	2,788	6.5%
Two or More Races	1,218	3.3%	3,656	9.0%	3,958	9.4%	4,252	9.9%
Hispanic Origin (Any Race)	4,144	11.1%	4,722	11.6%	5,272	12.5%	5,765	13.5%

Data Note: Income is expressed in current dollars.

Source: Esri forecasts for 2023 and 2028. U.S. Census Bureau 2010 decennial Census data converted by Esri into 2020 geography.

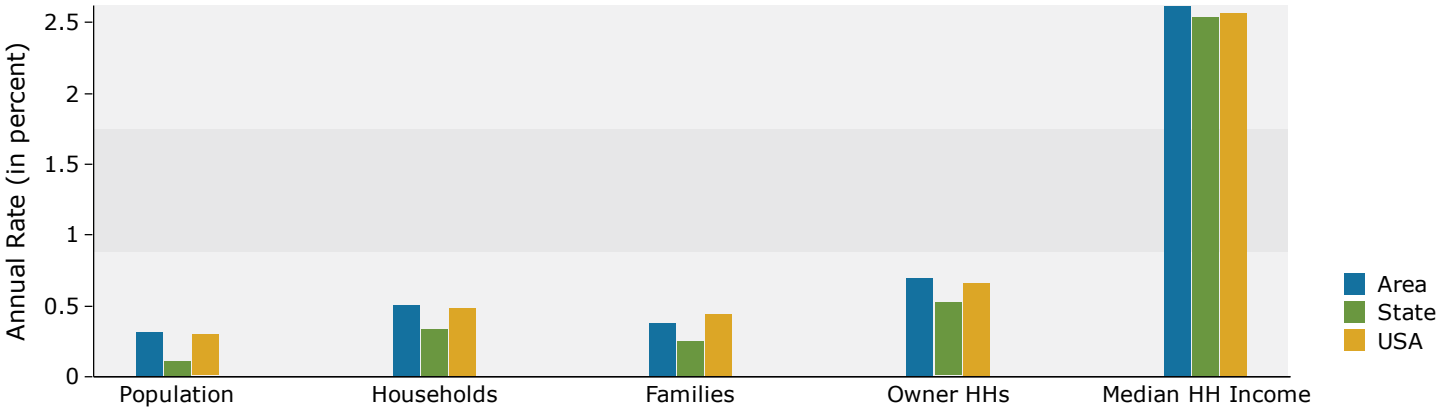
June 28, 2023

Demographic and Income Profile

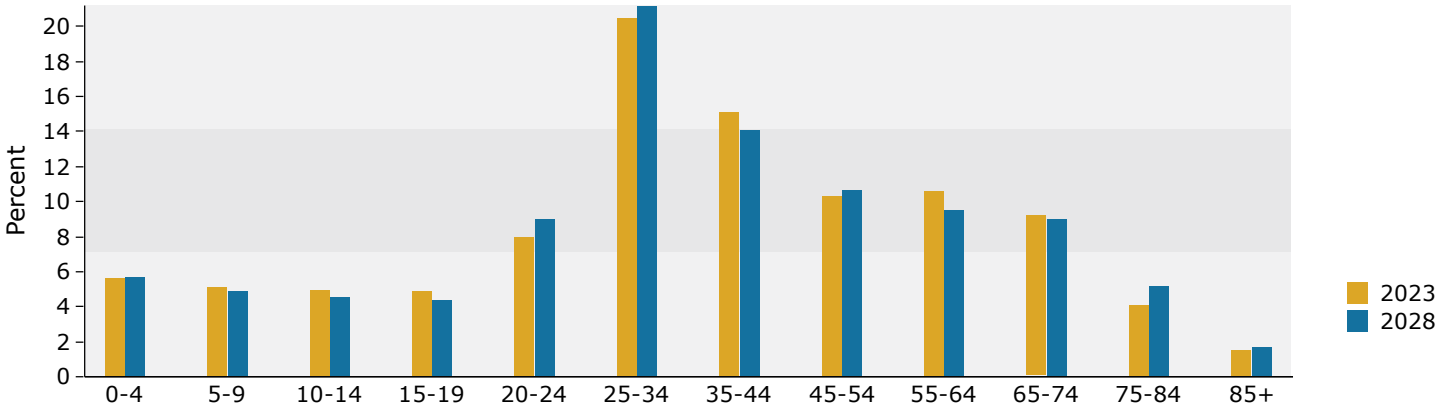
La Hacienda
501 S Park St, Madison, Wisconsin, 53715
Ring band: 2 - 3 mile radius

Prepared by Esri
Latitude: 43.06186
Longitude: -89.40043

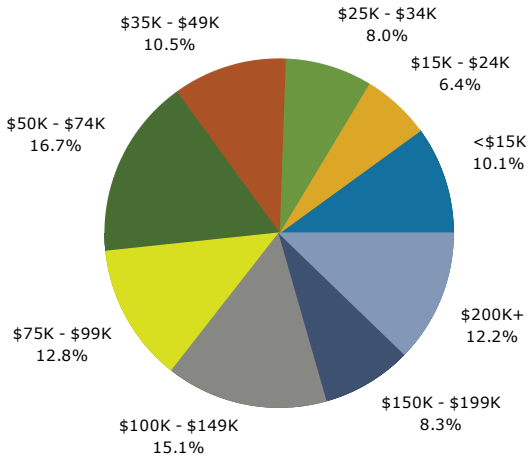
Trends 2023-2028



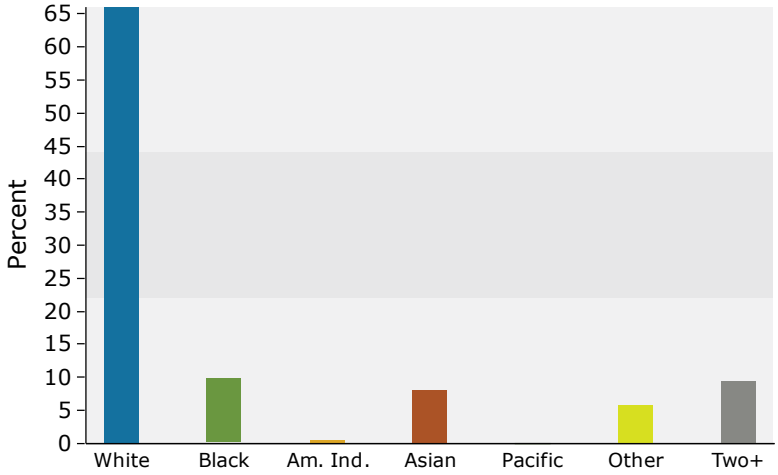
Population by Age



2023 Household Income



2023 Population by Race



2023 Percent Hispanic Origin:12.5%

Source: Esri forecasts for 2023 and 2028. U.S. Census Bureau 2010 decennial Census data converted by Esri into 2020 geography.

June 28, 2023

Demographic and Income Profile

La Hacienda
501 S Park St, Madison, Wisconsin, 53715
Ring band: 3 - 4 mile radius

Prepared by Esri
Latitude: 43.06186
Longitude: -89.40043

Summary	Census 2010	Census 2020	2023	2028
Population	39,204	43,102	44,829	46,440
Households	18,550	20,751	21,513	22,487
Families	9,573	-	10,817	11,218
Average Household Size	2.11	2.06	2.07	2.05
Owner Occupied Housing Units	10,326	-	11,849	12,276
Renter Occupied Housing Units	8,232	-	9,664	10,211
Median Age	36.8	-	39.3	40.1

Trends: 2023-2028 Annual Rate	Area	State	National
Population	0.71%	0.11%	0.30%
Households	0.89%	0.33%	0.49%
Families	0.73%	0.25%	0.44%
Owner HHs	0.71%	0.52%	0.66%
Median Household Income	2.85%	2.54%	2.57%

	2023		2028	
Households by Income	Number	Percent	Number	Percent
<$15,000	1,757	8.2%	1,476	6.6%
$15,000 - $24,999	1,165	5.4%	932	4.1%
$25,000 - $34,999	1,559	7.2%	1,384	6.2%
$35,000 - $49,999	2,380	11.1%	2,176	9.7%
$50,000 - $74,999	3,185	14.8%	3,167	14.1%
$75,000 - $99,999	2,929	13.6%	2,889	12.8%
$100,000 - $149,999	4,001	18.6%	4,730	21.0%
$150,000 - $199,999	2,197	10.2%	2,995	13.3%
$200,000+	2,339	10.9%	2,738	12.2%
Median Household Income	$79,824		$91,862	
Average Household Income	$113,180		$128,524	
Per Capita Income	$53,380		$61,191	

	Census 2010		2023		2028	
Population by Age	Number	Percent	Number	Percent	Number	Percent
0 - 4	2,548	6.5%	2,470	5.5%	2,582	5.6%
5 - 9	2,133	5.4%	2,364	5.3%	2,377	5.1%
10 - 14	1,922	4.9%	2,395	5.3%	2,307	5.0%
15 - 19	1,844	4.7%	2,252	5.0%	2,214	4.8%
20 - 24	2,488	6.3%	2,801	6.2%	3,114	6.7%
25 - 34	7,690	19.6%	6,899	15.4%	7,371	15.9%
35 - 44	5,277	13.5%	6,998	15.6%	6,554	14.1%
45 - 54	5,505	14.0%	5,166	11.5%	5,693	12.3%
55 - 64	5,142	13.1%	5,601	12.5%	5,145	11.1%
65 - 74	2,314	5.9%	4,817	10.7%	5,112	11.0%
75 - 84	1,598	4.1%	2,161	4.8%	2,923	6.3%
85+	741	1.9%	907	2.0%	1,048	2.3%

	Census 2010		Census 2020		2023		2028	
Race and Ethnicity	Number	Percent	Number	Percent	Number	Percent	Number	Percent
White Alone	31,199	79.6%	31,713	73.6%	32,623	72.8%	33,059	71.2%
Black Alone	2,719	6.9%	2,569	6.0%	2,690	6.0%	2,828	6.1%
American Indian Alone	249	0.6%	268	0.6%	286	0.6%	307	0.7%
Asian Alone	2,214	5.6%	2,562	5.9%	2,712	6.0%	3,059	6.6%
Pacific Islander Alone	13	0.0%	15	0.0%	16	0.0%	16	0.0%
Some Other Race Alone	1,684	4.3%	2,410	5.6%	2,628	5.9%	2,912	6.3%
Two or More Races	1,125	2.9%	3,565	8.3%	3,873	8.6%	4,258	9.2%
Hispanic Origin (Any Race)	3,662	9.3%	5,066	11.8%	5,533	12.3%	6,094	13.1%

Data Note: Income is expressed in current dollars.

Source: Esri forecasts for 2023 and 2028. U.S. Census Bureau 2010 decennial Census data converted by Esri into 2020 geography.

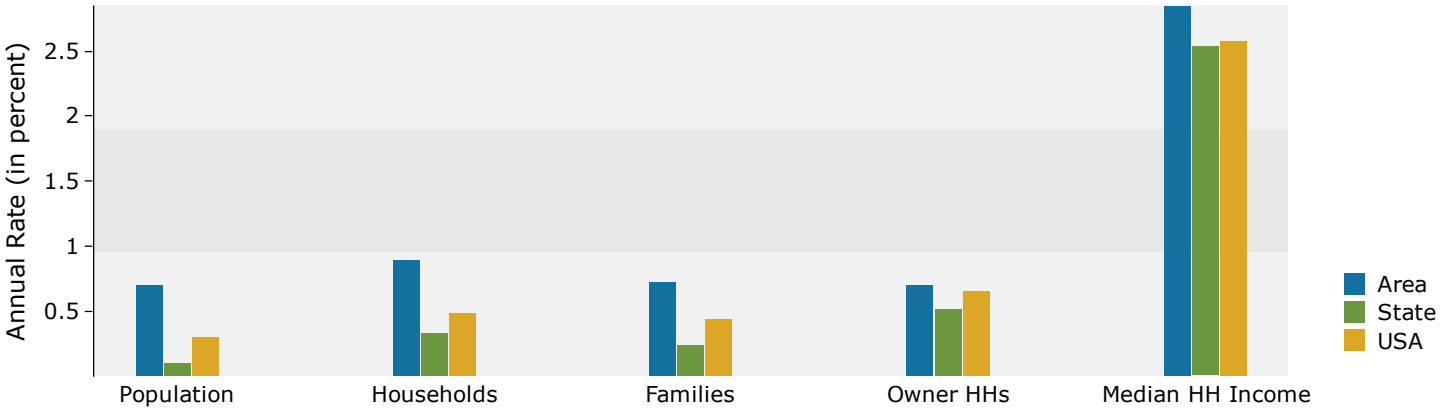
June 28, 2023

Demographic and Income Profile

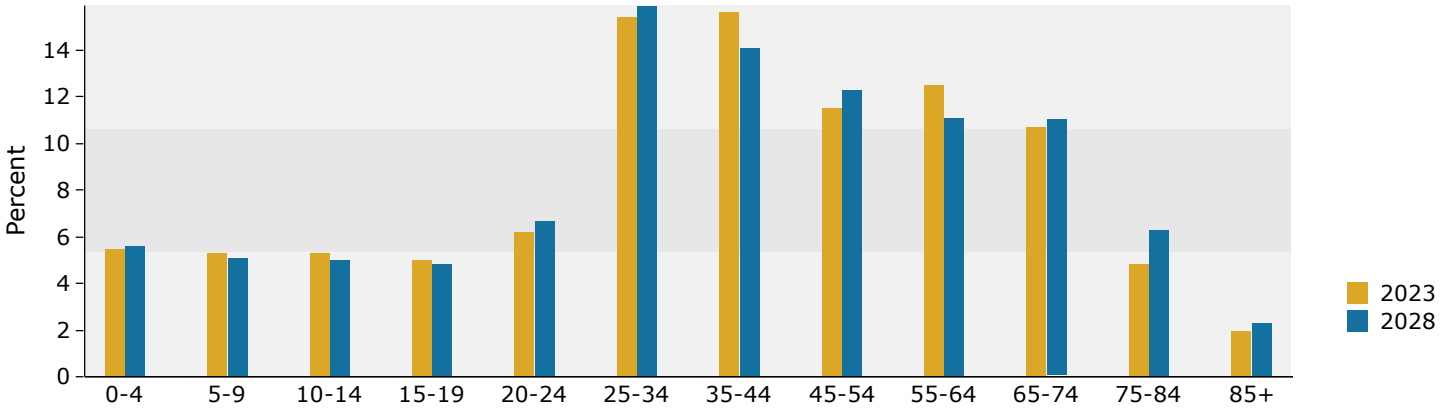
La Hacienda
501 S Park St, Madison, Wisconsin, 53715
Ring band: 3 - 4 mile radius

Prepared by Esri
Latitude: 43.06186
Longitude: -89.40043

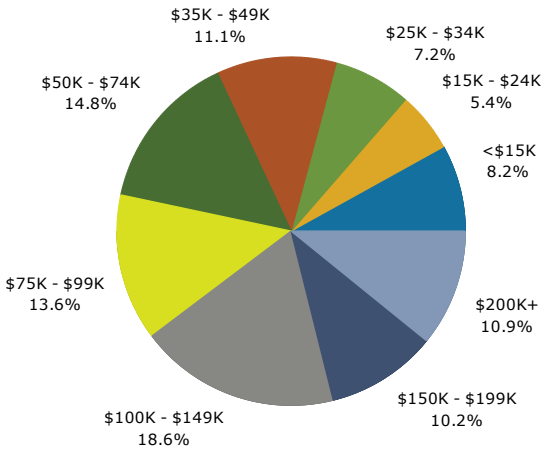
Trends 2023-2028



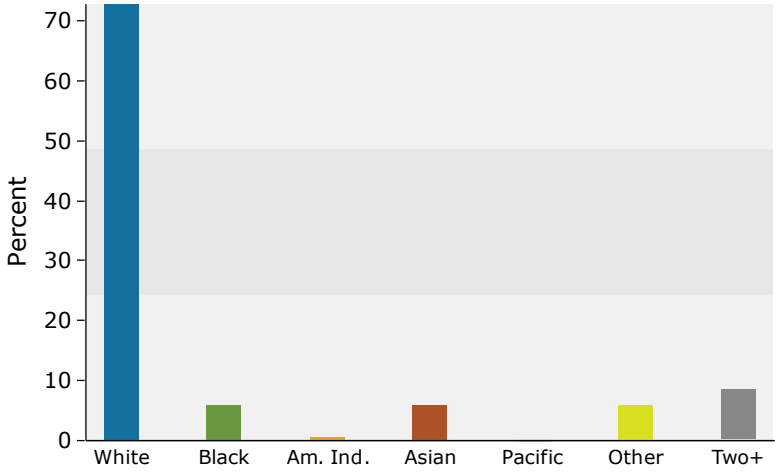
Population by Age



2023 Household Income



2023 Population by Race



2023 Percent Hispanic Origin:12.3%

Source: Esri forecasts for 2023 and 2028. U.S. Census Bureau 2010 decennial Census data converted by Esri into 2020 geography.

June 28, 2023