

**AAI PHASE I ENVIRONMENTAL SITE ASSESSMENT**

**FORMER OSCAR MAYER PLANT, NORTH END  
910 OSCAR AVE  
MADISON, WISCONSIN**

**PREPARED FOR:**

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**PROJECT REFERENCE #19174**

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## EXECUTIVE SUMMARY

Mr. Thomas Otto, on behalf of the City of Madison Office of Business Resources, retained The Sigma Group, Inc. (Sigma) of Milwaukee, Wisconsin to conduct an AAI Phase I Environmental Site Assessment (ESA) at the property located at 910 Oscar Ave in Madison, Wisconsin (subject property). The purpose of the environmental assessment was to identify any recognized environmental conditions (RECs), as defined by ASTM in its Standard Practice for Environmental Site Assessments (E 1527-13), on the subject property. To perform the service, Sigma compiled a site history, reviewed available regulatory documents, reviewed area geology and hydrogeology and conducted limited site observations between March 1 and April 10, 2020.

RECs, as defined by ASTM in its E1527-13 Standard Practice for Environmental Site Assessments (All Appropriate Inquiry), include the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: 1) due to any release to the environment; 2) under conditions indicative of a release to the environment; or 3) under conditions that pose a material threat of a future release to the environment. The term includes hazardous substances and petroleum products even under conditions in compliance with the law. This term is not intended to include de minimis conditions that do not generally present a material risk to human health or the environment and would not be the subject of an enforcement action if brought to the attention of the appropriate authorities. Conditions determined to be de minimis are not recognized environmental conditions.

### **SITE DESCRIPTION AND HISTORICAL FINDINGS**

The subject property consists of a roughly 16.5-acre section of an approximately 49.52-acre parcel (Parcel # 081031301013), located at 910 Oscar Ave in the City of Madison, Dane County, Wisconsin. The subject property has also historically been listed as 910 Mayer Ave. At the time of this assessment, the subject property was improved with several buildings:

- Building 43 is an approximately 57,240 square-foot warehouse/manufacturing building constructed in 1969-1971. The eastern section of Building 43 has two stories, while the western section is a one-story, high bay warehouse. Building 43 was historically utilized for spice mixing, plastic extrusion/forming, and warehousing.
- Building 50 is an approximately 79,925 square-foot, one-story warehouse/manufacturing building constructed in 1963. Building 50 was historically utilized for meat processing, plastic wrapping material production, and warehousing.
- The brine building is a roughly 500-square foot building constructed sometime between 1968 and 1976. The brine building was historically used to prepare brines and other solutions.
- The wellhouse is a roughly 500 square-foot building constructed sometime between 1968 and 1976 (the well was reportedly abandoned in 2004).

Historically, the northeast corner of the subject property was improved with a roughly 900 square-foot concrete brick plant and associated smokestack, constructed sometime prior to 1937, expanded to roughly 2,600 square feet by 1950, and razed sometime between 1950 and 1962. A roughly 4,000 square-foot building (likely a cold storage building) was constructed on the site of Building 43 sometime between 1950 and 1955 and was razed

in 1969. Prior to the construction of these buildings, the subject property was unimproved. Since development, the subject property has been occupied by Oscar Mayer and Kraft Foods, which utilized the subject property for meat processing and distribution. The property has been unoccupied since the meat processing facility closed in 2017.

Fill materials were historically placed on the subject property. Topographic maps produced between 1890 and 1906 depict the subject property as a wetland. A geologic cross-section of the subject property produced by BT<sup>2</sup> in 2006 indicates that a layer of fill material extends to a depth of up to six feet below ground surface (bgs) in the central section of the subject property, and peat is present below the fill material in some sections. A 2016 Phase I ESA report repeats a claim from a prior environmental report (likely produced in 1994) that fly ash was buried in the northern section of the subject property. Coal piles and land disturbances were depicted in the northern section of the subject property in aerial photographs produced between 1949 and 1968.

### **ENVIRONMENTAL RECORD FINDINGS**

A search of available environmental records was conducted by Environmental Data Resources Inc. (EDR). The 910 Oscar Ave parcel, which includes the subject property as well as an additional 33 acres, was identified in the Resource Conservation and Recovery Act (RCRA), Emergency Response Notification System (ERNS), Leaking Underground Storage Tank (LUST), Underground Storage Tank (UST), Environmental Repair Program (ERP), Aboveground Storage Tank (AST), Wisconsin Spills, Facility Index System (FINDS), toxic Release Inventory System (TRIS), Tier 2, Wisconsin Asbestos, and Wisconsin Solid and Hazardous Waste Information System (SHWIMS) databases researched by EDR.

#### ***Environmental Record Findings Known to Include the Subject Property***

EDR identified the 910 Oscar Ave parcel, which includes the subject property, in the Wisconsin Spills database with 38 releases. Based on the available information, the following release is known to have occurred on the subject property itself:

- BRRTS #04-13-227692/04-13-227043: In 1998, a cylinder on an elevator broke, resulting in a reported release of 75 gallons of hydraulic oil. An environmental contractor was hired. Two identical BRRTS entries with different BRRTS numbers were generated. Based on the date and nature of the release, a Request for No Further Action report prepared by BT<sup>2</sup>, which was included in the site file for an unrelated ERP case, applied to this spill. No correspondence from the WDNR concerning the release was identified, so it is unclear if the WDNR recommended any additional actions. According to the Request for No Further Action, submitted to the WDNR on March 3, 1999, the freight elevator in Building 43 malfunctioned on October 22, 1998, resulting in a release of 140 gallons of hydraulic oil. Approximately 64 gallons of the hydraulic oil was recovered, and the elevator system was replaced. No further remedial actions were discussed.

EDR identified the subject property as an ERP site:

- The Oscar Mayer Former Spice Room Building 43 site (BRRTS #02-13-580723) is an open ERP site located in the southeast corner of Building 43. The ERP case was opened in 2017 to address chlorinated volatile organic compounds (CVOCs) detected in sub-slab gas samples collected in the vicinity of the former spice room. Concentrations of trichloroethylene (TCE) in sub-slab vapor samples collected below

Building 43 ranged from 2.7 to 66,800 ug/m<sup>3</sup>, exceeding WDNR sub-slab vapor criteria. In 2019, two rounds of groundwater samples were collected from wells located directly east, west, and south of the building and tested for volatile organic compounds (VOCs). One or more chlorinated compound was detected at a concentration greater than the preventive action limit (PAL) and/or enforcement standard (ES) in each groundwater sample tested.

- The Oscar Mayer Inc. site (BRRTS #02-13-000895) is a closed ERP site with continuing obligations, located in the central section of the subject property. According to the BRRTS database, the ERP case was opened in 1984; however, no documents from the period between 1984 and 1993 were included in the site file. According to the July 2006 Closure Request submitted to the WDNR by BT<sup>2</sup>, the ERP case was opened to address chlorinated solvent impacts discovered in groundwater from production wells installed in the bedrock on the subject property. The report figures indicate that Production Well #5, located in the northwest corner of the subject property, extended to a depth of 400 feet bgs, with a well casing extending to a depth of 225 feet bgs. Quarterly groundwater samples from Production Well #5 collected between 1986 and 1993 indicated that TCE levels ranged from 1.37 to 5.64 ppb (ug/L), exceeding the ES of 5 ug/L, and tetrachloroethylene (PCE) levels ranged from below detection level to 37.9 ppb (ug/L), exceeding the ES of 5 ug/L. Production well data from after 1993 was not included in the site file.

In 1994, Conestoga Rovers & Associates (CRA) advanced soil borings and installed monitoring wells to depths of up to 56 feet bgs, which indicated that a plume of chlorinated substances (1,2-dichloroethene and vinyl chloride) was present. Groundwater samples collected by BT<sup>2</sup> between 1994 and 2005 indicated that impacts were generally limited to the central section of the subject property and concentrations generally followed a downward trend throughout the monitoring period. BT<sup>2</sup> concluded that the area of ES exceedance for vinyl chloride extended to between 50 and 60 feet bgs. The site was granted a conditional closure in 2006.

A 2006 memorandum to the site closure committee stated that in 1986, a spill of chlorinated solvents occurred in a drum storage area, thought to be west of Building 28, southwest of the subject property. In 1987 and 1988, approximately 110 cubic yards of contaminated soil was excavated and treated on site. No data from the remedial action was included in the site file. Sigma reviewed an excavation photo included in the site file. Based on aerial photographs and site maps from the 1980s, the excavation was most likely to the west of Building 43, directly west of the subject property.

### ***Environmental Record Findings Which May Include the Subject Property***

The 910 Oscar Ave parcel, which includes the subject property, was identified in the Tier 2 database for the on-site storage of ethylene glycol, nitric acid, nitrogen, carbon dioxide, lead acid batteries, sulfuric acid, diesel fuel, ammonia, petroleum hydrocarbons, ethylene vinyl acetate, vinylidene chloride/vinyl chloride copolymer, and sodium hydroxide.

EDR identified the 910 Oscar Ave parcel, which includes the subject property, in the RCRA and FINDS databases as an active Large Quantity Generator (generates 1,000 kg or more of hazardous waste during a calendar month) of ignitable and corrosive wastes, as well as

waste lead, mercury, PCE, TCE, spent nonhalogenated solvents, and dichloromethane or methylene chloride, and byproduct salts generated in the production of MSMA and cacodylic acid. The facility has received notices of violations, including a formal enforcement action, which were subsequently corrected.

The subject property parcel was identified in the FINDS database as a TRI reporter, with nitrate compounds, ethylene glycol, nitric acid, ammonia, ammonia nitrite, methanol, chlorine, phosphoric acid, hydrochloric acid, sulfuric acid, butyl benzyl phthalate, sodium hydroxide, and dichloromethane listed as hazardous substances which were historically released. According to the Form R for 1987, hazardous materials were disposed of via an on-site landfill, on-site land treatment, on-site surface impoundment, and on-site underground injection. The quantity released through these methods was not included in the form.

The 910 Oscar Ave parcel, which includes the subject property, was identified in the SHWIMS database as a solid waste transporter between 1989 and 1999, a solid waste refuse derived fuel storage site handling animal carcasses, garbage, and refuse between 1989 and 1994, an inactive waste registry site, and a proposed landfill.

EDR identified the 910 Oscar Ave parcel, which includes the subject property, as an ERNS site with 24 reported releases. Various operator errors and equipment failures resulted in 17 reported releases of up to 110 pounds of ammonia between 1993 and 2012. The other seven reported releases were as follows:

- In 1991, a release of ammonia, chlorine, methane arsenic acid, sodium salts and black phosphorus was reported.
- A 1993 equipment failure resulted in a release of 30 gallons of ethylene glycol.
- A 1993 equipment failure resulted in a release of 5 gallons of ethylene glycol.
- A 1993 equipment failure resulted in a release of an unknown amount of ethylene glycol.
- A 1995 break in a hose resulted in a release of 0.5 gallons of diesel fuel.
- A 1995 equipment failure resulted in a release of 15 gallons of hydraulic oil.
- A 2000 sanitary sewer backup resulted in a release of 20 gallons of sewage.

EDR identified the 910 Oscar Ave parcel, which includes the subject property, in the Wisconsin Spills database with 38 releases. In addition to 14 releases of ammonia, the following releases may have occurred on the subject property:

- BRRTS #04-13-039771: In 1984, a release of 50 gallons of PCB-containing mineral oil occurred during the replacement of a transformer. The release was contained and recovered using absorbent.
- BRRTS #04-13-041208: In 1986, the sewer plugged, resulting in a release of up to 1,000 gallons of wastewater.
- BRRTS #04-13-048202: In 1993, a break in a pipe under the sidewalk resulted in a release of 30 gallons of antifreeze. The spill was cleaned up using absorbent.
- BRRTS #04-13-049245: In 1994, a tank froze, resulting in a release of three gallons of hydraulic oil. The oil landed on snow, which was removed. The remaining oil was cleaned up using absorbent.
- BRRTS #04-13-050780: In 1995, a break in a discharge line resulted in a release of an unknown amount of engine waste oil into the storm sewer.

- BRRTS #04-13-051030: In 1995, a break in a hose resulted in a release of one gallon of petroleum. The spill was cleaned up using absorbent, but at least some of it entered the storm sewer.
- BRRTS #04-13-051042: In 1995, a mechanical failure resulted in a release of 30 gallons of antifreeze. The spill was cleaned up using absorbent, but at least some of it entered the sanitary sewer.
- BRRTS #04-13-229872: In 1998, a plug in a line resulted in a release of 1,000 gallons of cooling water into the storm sewer.
- BRRTS #04-13-241160: In 1999, a release of 12 gallons of sulfuric acid occurred.
- BRRTS #04-13-248176: In 2000, an electrical problem resulted in a release of 110 pounds of ammonia.
- BRRTS #04-13-264296: In 2000, a stoppage in the sewer drain resulted in a release of 475 gallons of sewage.
- BRRTS #04-13-270923: In 2000, a broken flange resulted in a release of 35 gallons of sodium hydroxide solution.
- BRRTS #04-13-529401: In 2004, a gasket on a 250,000-gallon reservoir failed, resulting in a release of 8,000 gallons of bleach (chlorinated water).
- BRRTS #04-13-548071: In 2006, a pump failure resulted in a release of 10 gallons of non-hazardous wastewater. The spill was contained and cleaned up.
- BRRTS #04-13-551001: In 2008, a sump pump in the wastewater treatment plant failed, resulting in a release of an unknown amount of wastewater.
- BRRTS #04-13-555058: In 2010, a release of 1,500 gallons of Quad X 100, a cleaning solution containing 40% sodium hydroxide, occurred during delivery. The wash basin was flushed, and an environmental contractor was hired.
- BRRTS #04-13-558448: In 2012, an unknown quantity of ammonia was released from an over-pressurized refrigeration system.
- BRRTS #04-13-560490: In 2013, a coolant overflow resulted in a release of 3,100 pounds of antifreeze.
- BRRTS #04-13-562776: In 2014, an operator error resulted in a release of 7,000 gallons of a saltwater solution. Some of the release was captured, and some of it entered the storm sewer.
- BRRTS #04-13-528788: In 1993, a fire or explosion on an overheated motor in the engine/compressor room resulted in a release of 20,000 pounds of ammonia.

The 910 Oscar Ave parcel, which includes the subject property, was identified in the WI Asbestos database for asbestos abatement projects completed in 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, and 2019.

The parcel was also identified in the FINDS database as an Occupational Safety and Health Administration (OSHA) establishment and a major source of air pollution.

***Environmental Record Findings Known to Not Include the Subject Property***

EDR identified the 910 Mayer St parcel, which includes the subject property, as a registered UST site, with a 250-gallon fuel oil UST, a 9,500-gallon unleaded gasoline UST, a 10,000 gallon leaded gasoline UST, a 10,000-gallon diesel UST, and a 12,000-gallon diesel UST historically located on the parcel. All of the USTs have been removed. Based on available LUST documents and fire department records, none of the USTs were located on the subject property.

EDR identified the Oscar Mayer property in the AST database with a 550-gallon unleaded gasoline AST, a 2,000-gallon diesel AST, a 500-gallon waste/used oil UST, a 150-000-gallon fuel oil AST, and a 250-000-gallon fuel oil AST. All of the ASTs have been removed. Based on aerial photographs and fire department records, none of these ASTs were located on the subject property.

EDR identified the 910 Oscar Ave parcel, which includes the subject property, in the Wisconsin Spills database with 38 releases. Based on the available information, the following releases did not occur on the subject property:

- BRRTS #04-13-049014: In 1993, a mechanical failure in Building 23 resulted in a release of 40 gallons of antifreeze. The release was cleaned up using absorbent and a vacuum; however, some of the antifreeze likely entered the storm sewer.
- BRRTS #04-13-212337: In 1995, a leaking pipe on the 2<sup>nd</sup> floor of Building 19 resulted in a release of 22 pounds of freon gas. The pipe was subsequently repaired.
- BRRTS #04-13-245306: In 1999, backpressure during the filling of a UST resulted in a release of 12 gallons of petroleum. Sorbent pads were used to clean up the release.

The following ERP sites were identified on the 910 Mayer Ave parcel; however, based on the available information, are not located on the subject property itself:

- The Oscar Mayer Former Filling Station East site (BRRTS #02-13-580722) is an open ERP site located in the east-central section of the 910 Mayer Ave parcel. The ERP case was opened in 2017 to address soil and groundwater contamination discovered in the vicinity of three former filling stations, which were razed around 1968. The northernmost filling station was located directly south of the southeast corner of the subject property. While no records of UST removals were identified, ERM did not find evidence indicating that the USTs were still present. Contaminants of concern include VOCs, polycyclic aromatic hydrocarbons (PAHs), and lead. As of October 2018, when a Site Investigation Workplan (SIWP) was submitted to the WDNR by ERM, the extent of groundwater impacts had not yet been delineated; however, impacts were identified within 50 feet of the subject property.
- The Former 1,2-DCA Tank South site (BRRTS #02-13-580721) is an open ERP site located in the southeast section of the 910 Oscar Ave parcel. The ERP case was opened in 2017 to address soil and groundwater contamination discovered in the vicinity of two former 6,300-gallon ethylene dichloride ASTs. Contaminants of concern include CVOCs, PAHs, arsenic and lead.
- The Oscar Mayer Lift site (BRRTS #02-13-221826) is a closed ERP site located on the 910 Oscar Ave parcel. The ERP case was opened in 1999 to address impacts associated with an abandoned 250-gallon UST and closed after two months, with no continuing obligations. The UST was located roughly 500 feet south of the subject property, on the opposite side of the main facility building. According to the tank closure assessment, prepared by Woodward-Clyde Consultants in December 1992, Oscar Mayer representatives knew of "no other tanks, past or present, in the vicinity of the tank" which was removed.



EDR identified several LUST sites on the 910 Mayer Ave parcel; however, based on the available information, the sites are not located on the subject property itself:

- The Oscar Mayer Site #3 (BRRTS #03-13-114831) is a closed LUST site with continuing obligations located in the southeast section of the 910 Mayer St parcel, roughly 900 feet to the south of the subject property. The LUST case was opened in 1996 to address impacts from a 10,000-gallon leaded gasoline UST, a 9,500-gallon unleaded gasoline UST, and a 10,000-gallon diesel UST. At the time of site closure in 2006, residual soil and groundwater contamination were present at the site.
- The Oscar Mayer Foods site (BRRTS #03-13-001744) is a closed LUST site located on the southeast side of the main Oscar Mayer building, to the south of the subject property. The LUST case was opened in 1992 to address contamination discovered during the removal of a UST. While the size of the UST was not stated in the site file, the dimensions of the initial excavation indicate that the UST had a capacity of 1,900 gallons or less. Some residual soil contamination was present at the time of closure in 1993.
- The Oscar Mayer site (BRRTS #03-13-000053) is a closed LUST site located at 2007 Roth Street, southwest of the subject property across the railroad right-of-way. The LUST case was opened in 1989 to address soil and groundwater impacts related to two fuel oil ASTs (likely with capacities of 150,000 and 250,000 gallons) and historical releases along the railroad right-of-way. One AST was removed prior to the site closure, while aerial photographs indicate that the other was present until sometime between 2014 and 2017. Soil and groundwater samples were tested for VOCs and PAHs. The site was closed in 2008 with continuing obligations. Residual soil and groundwater contamination are present, and impacts extend beyond the site.

In addition to the 910 Oscar Ave parcel, EDR identified several properties in the vicinity of the subject property in one or more of the environmental databases researched by EDR:

- Chet's Car Care Center, located at 2020 Aberg Ave, directly north of the subject property across Aberg Avenue, was identified in the RCRA database as a Very Small Quantity Generator (generates less than 100 kg of hazardous waste during a calendar month) of ignitable wastes and lead. Based on RCRA records, the facility has been in operation since circa 1991. The company website indicates that it opened in 1984. No violations were reported for the site. Two 878-gallon waste/used oil ASTs are registered to the site.
- The Madison Metro North Transfer Point site (BRRTS #02-13-524010) is a closed ERP site with continuing obligations located at 1201 Huxley Street, adjacent to the west of the subject property across the railroad right-of-way. The ERP case was opened in 2004 to address impacts from four 10,000-gallon fuel oil USTs and eight 10,000-gallon fuel oil ASTs. According to the continuing obligations packet, contaminants of concern included benzene, toluene, ethyl benzene and xylenes, as well as select PAHs. Soil and groundwater samples collected in 2004 and 2005 indicated that soil and groundwater extended into the railroad right-of-way. The ERP case was closed in 2006, with residual soil and groundwater contamination.

- The Burke Wastewater Treatment Plant site (BRRTS #02-13-315773) was identified in the ERP and PFAS databases as an open ERP site. The site is located at 1401 Packers Ave, northeast of the subject property across the intersection of Packers Ave and Aberg Avenue. According to site documents, the Burke Wastewater Treatment Plant operated on this site from 1914 to 1936 and 1942 to 1978. Prior to 1950, the plant was a public utility and received domestic sewage. After 1950, the plant was operated by Oscar Mayer and treated wastewater from the Oscar Mayer plant. Oscar Mayer constructed a series of sludge lagoons in the northeast section of the site and also used the site for landfilling of ash from coal combustion and waste products (hair and toenails) from the meat processing plant. In 1981, the site was sold to Reynolds Transfer and Storage Co. In the 1980s and 1990s, the lagoons were filled in and buried. The site is bordered to the north by the former Truax Field Landfill, which was used by the City of Madison and the U.S. Army from 1942 to 1972.

In March 2002, REA advanced soil borings and installed groundwater monitoring wells on the ERP site. Soil and groundwater samples were collected from the southwest section of the site, near the historical sludge drying beds. Soil samples from the southwest section of the site contained concentrations of arsenic and cadmium which were greater than their respective groundwater pathway residual contaminant levels (RCLs) and background threshold values (BTVs). The arsenic concentration was also greater than the direct contact RCL. Chromium and lead were present in groundwater samples collected from the southwest section of the site at concentrations greater than their respective ESs.

In August 2019, soil and groundwater samples from the Burke Wastewater Treatment Plant site were tested for the presence of PFAS. One or more PFAS constituents was detected in each sample. At the time of this report's publication, Wisconsin does not have final groundwater standards for PFAS constituents; however, the groundwater sample collected closest to the subject property (TW-4, located roughly 650 feet east northeast of the subject property) contained a combined concentration of PFOS and PFOA of 23.7 ng/L, which is greater than the proposed groundwater ES of 20 ng/L. The Amended SIWP for the site, submitted to the WDNR in December 2018 by Seymour Environmental Services Inc., indicates that groundwater flow on the ERP site is to the southwest.

It should be noted that, based on a review of aerial photographs, Burke Wastewater Treatment Plant operations likely extended onto the eastern edge of the subject property until the re-alignment of Packers Avenue in the mid-1960s. A roughly 6,000 square-foot section of the subject property, which was then east of Packers Ave, is depicted as disturbed land in the 1955 aerial photograph.

- EDR identified the Truax Field landfill, located on Aberg Avenue, to the northeast of the subject property, in the State Hazardous Waste Sites (SHWS) database. The landfill was added to the hazard ranking system list in 1994.

## **CONCLUSIONS**

### ***Recognized Environmental Conditions (RECs)***

This assessment has revealed evidence of the following RECs at the subject property:

- Fill materials were historically placed on the subject property. Topographic maps produced between 1890 and 1906 depict the subject property as a wetland. A geologic cross-section of the subject property produced by BT<sup>2</sup> in 2006 indicates that a layer of fill material extends to a depth of up to six feet bgs in the central section of the subject property, and peat is present below the fill material in some sections. A 2016 Phase I ESA report repeats a claim from a prior environmental report (likely produced in 1994) that fly ash was buried in the northern section of the subject property. Coal piles and land disturbances were depicted in the northern section of the subject property in aerial photographs produced between 1949 and 1968. Considering the confirmed presence of fill material and the reported presence of buried fly ash on the subject property, fill materials may have impacted the subject property via soil, groundwater and/or vapor.
- Industrial activities on the 910 Oscar Ave parcel, which includes the subject property, involved the storage of reportable quantities of petroleum products and hazardous materials including chlorinated compounds, and the generation and possible on-site disposal of solid and/or hazardous waste. Additionally, the 910 Oscar Ave parcel may have been used for the manufacturing of insecticides in the 1960s and 1970s. It should be noted that the Interstate Technology & Regulatory Council (ITRC) has included pesticides in its list of products which can contain PFAS. Releases associated with the manufacturing, storage and/or disposal of petroleum products and hazardous materials may have impacted the subject property via soil, groundwater, and/or vapor.
- The Oscar Mayer Former Spice Room Building 43 site (BRRTS #02-13-580723) is an open ERP site located in the southeast corner of Building 43. The ERP case was opened in 2017 to address CVOCs detected in sub-slab gas samples collected in the vicinity of the former spice room. Concentrations of TCE in sub-slab vapor samples collected below Building 43 ranged from 2.7 to 66,800 ug/m<sup>3</sup>, exceeding WDNR sub-slab vapor criteria. In 2019, two rounds of groundwater samples were collected from wells located directly east, west, and south of the building and tested for VOCs. One or more chlorinated compound was detected at a concentration greater than the PAL and/or ES in each groundwater sample tested. The subject property has been impacted via groundwater and vapor.

EDR identified several properties in the vicinity of the subject property on one or more of the environmental databases. Based on the relative distance between the reported sites and the subject property and/or the reported site status, the identified sites are not expected to impact the subject property, with the exceptions of the following sites, which are considered offsite RECs:

- The Oscar Mayer Former Filling Station East site (BRRTS #02-13-580722) is an open ERP site located in the east-central section of the 910 Oscar Ave parcel. The ERP case was opened in 2017 to address soil and groundwater contamination discovered in the vicinity of three former filling stations, which were razed around 1968. The northernmost filling station was located directly south of the southeast

corner of the subject property. While no records of UST removals were identified, ERM did not find evidence indicating that the USTs were still present. Contaminants of concern include VOCs, PAHs and lead. As of October 2018, when a SIWP was submitted to the WDNR by ERM, the extent of groundwater impacts had not yet been delineated; however, impacts were identified within 50 feet of the subject property. Impacts from this site may have impacted the subject property via soil, groundwater, and/or vapor.

- Chet's Car Care Center, located at 2020 Aberg Ave, directly north of the subject property across Aberg Avenue, was identified in the RCRA database as a Very Small Quantity Generator (generates less than 100 kg of hazardous waste during a calendar month) of ignitable wastes and lead. Based on RCRA records, the facility has been in operation since circa 1991. The company website indicates that it opened in 1984. No violations were reported for the site. Two 878-gallon waste/used oil ASTs are registered to the site. While no violations have been identified, Chet's Car Care Center is located upgradient from the subject property and has been in operation for around 30 years. Potential releases associated with automotive repair activities may have impacted the subject property via groundwater.
- The Burke Wastewater Treatment Plant site (BRRTS #02-13-315773) was identified in the ERP and PFAS databases as an open ERP site. The site is located at 1401 Packers Ave, northeast of the subject property across the intersection of Packers Ave and Aberg Avenue. According to site documents, the Burke Wastewater Treatment Plant operated on this site from 1914 to 1936 and 1942 to 1978. Prior to 1950, the plant was a public utility and received domestic sewage. After 1950, the plant was operated by Oscar Mayer and treated wastewater from the Oscar Mayer plant. Oscar Mayer constructed a series of sludge lagoons in the northeast section of the site and also used the site for landfilling of ash from coal combustion and waste products (hair and toenails) from the meat processing plant. In 1981, the site was sold to Reynolds Transfer and Storage Co. In the 1980s and 1990s, the lagoons were filled in and buried.

In March 2002, REA advanced soil borings and installed groundwater monitoring wells on the ERP site. Soil and groundwater samples were collected from the southwest section of the site, near the historical sludge drying beds. Soil samples from the southwest section of the site contained concentrations of arsenic and cadmium which were greater than their respective groundwater pathway RCLs and BTVs. The arsenic concentration was also greater than the direct contact RCL. Chromium and lead were present in groundwater samples collected from the southwest section of the site at concentrations greater than their respective ESs.

In August 2019, soil and groundwater samples from the Burke Wastewater Treatment Plant site were tested for the presence of PFAS. One or more PFAS constituents was detected in each sample. At the time of this report's publication, Wisconsin does not have final groundwater standards for PFAS constituents; however, the groundwater sample collected closest to the subject property (TW-4, located roughly 650 feet east northeast of the subject property) contained a combined concentration of PFOS and PFOA of 23.7 ng/L, which is greater than the proposed groundwater ES of 20 ng/L. The Amended SIWP for the site, submitted to

the WDNR in December 2018 by Seymour Environmental Services Inc., indicates that groundwater flow on the ERP site is to the southwest. The site is bordered to the north by the former Truax Field Landfill, which was used by the City of Madison and the U.S. Army from 1942 to 1972. The Truax Field Landfill was identified in the State Hazardous Waste Sites (SHWS) database. The landfill was added to the hazard ranking system list in 1994. Considering that the landfill was used by a nearby airfield, the PFAS contamination may have originated at the landfill.

It should be noted that, based on a review of aerial photographs, Burke Wastewater Treatment Plant operations likely extended onto the eastern edge of the subject property until the re-alignment of Packers Avenue in the mid-1960s. A roughly 6,000 square-foot section of the subject property, which was then east of Packers Ave, is depicted as disturbed land in the 1955 aerial photograph. Groundwater contamination from the Burke Wastewater Treatment Plant site and/or Truax Field Landfill may have impacted the subject property. Additionally, waste materials associated with the Burke Wastewater Treatment Plant may be buried on the subject property.

#### ***Controlled Recognized Environmental Conditions (CRECs)***

Additionally, this assessment has revealed evidence of the following CRECs at the subject property:

- In 1998, a cylinder on an elevator broke, resulting in a reported release of 75 gallons of hydraulic oil (BRRTS #04-13-227692/04-13-227043). Based on the date and nature of the release, a Request for No Further Action report prepared by BT<sup>2</sup>, which was included in the site file for an unrelated ERP case, applied to this spill. No correspondence from the WDNR concerning the release was identified, so it is unclear if the WDNR recommended any additional actions. According to the Request for No Further Action, submitted to the WDNR on March 3, 1999, the freight elevator in Building 43 malfunctioned on October 22, 1998, resulting in a release of 140 gallons of hydraulic oil. Approximately 64 gallons of the hydraulic oil was recovered, and the elevator system was replaced. No further remedial actions were discussed. Approximately 75 gallons of hydraulic oil was left in place below Building 43, possibly impacting the subject property via soil or groundwater.
- The Oscar Mayer Inc. site (BRRTS #02-13-000895) is a closed ERP site with continuing obligations, located in the central section of the subject property. According to the BRRTS database, the ERP case was opened in 1984; however, no documents from the period between 1984 and 1993 were included in the site file. According to the July 2006 Closure Request submitted to the WDNR by BT<sup>2</sup>, the ERP case was opened to address chlorinated solvent impacts discovered in groundwater from production wells installed in the bedrock on the subject property. The report figures indicate that Production Well #5, located in the northwest corner of the subject property, extended to a depth of 400 feet bgs, with a well casing extending to a depth of 225 feet bgs. Quarterly groundwater samples from Production Well #5 collected between 1986 and 1993 indicated that TCE levels ranged from 1.37 to 5.64 ppb (ug/L), exceeding the ES of 5 ug/L, and PCE levels ranged from below detection level to 37.9 ppb (ug/L), exceeding the ES of 5 ug/L. Production well data from after 1993 was not included in the site file.

In 1994, CRA advanced soil borings and installed monitoring wells to depths of up to 56 feet bgs, which indicated that a plume of chlorinated substances (1,2-dichloroethene and vinyl chloride) was present. Groundwater samples collected by BT<sup>2</sup> between 1994 and 2005 indicated that impacts were generally limited to the central section of the subject property and concentrations generally followed a downward trend throughout the monitoring period. BT<sup>2</sup> concluded that the area of ES exceedance for vinyl chloride extended to between 50 and 60 feet bgs. The site was granted a conditional closure in 2006.

Considering that the modeled extent of ES exceedances for chlorinated compounds in groundwater did not extend below 60 ft bgs in 2005, it is unlikely that this plume was the source of impacts detected in production wells at depths of over 225 bgs in the 1980s.

A 2006 memorandum to the site closure committee stated that in 1986, a spill of chlorinated solvents occurred in a drum storage area, thought to be west of Building 28, southwest of the subject property. In 1987 and 1988, approximately 110 cubic yards of contaminated soil was excavated and treated on site. No data from the remedial action was included in the site file. Sigma reviewed an excavation photo included in the site file. Based on aerial photographs and site maps from the 1980s, the excavation was most likely to the west of Building 43, directly west of the subject property. Considering the general southerly direction of groundwater flow on the subject property and the relative locations of the two identified areas of groundwater impacts, it is unlikely that spill of chlorinated solvents was the source of those impacts.

A review of the site file indicates that at least three sources of chlorinated compounds are likely to have impacted the subject property via soil and/or groundwater.

EDR identified several properties in the vicinity of the subject property on one or more of the environmental databases. Based on the relative distance between the reported sites and the subject property and/or the reported site status, the identified sites are not expected to impact the subject property, with the exception of the following site:

- The Madison Metro North Transfer Point site (BRRS #02-13-524010) was identified in the ERP database as a closed ERP site with continuing obligations. The site is located at 1201 Huxley Street, adjacent to the west of the subject property across the railroad right-of-way. The ERP case was opened in 2004 to address impacts from four 10,000-gallon fuel oil USTs and eight 10,000-gallon fuel oil ASTs. According to the continuing obligations packet, contaminants of concern included benzene, toluene, ethyl benzene and xylenes, as well as select PAHs. Soil and groundwater samples collected in 2004 and 2005 indicated that soil and groundwater extended into the railroad right-of-way. The ERP case was closed in 2006, with residual soil and groundwater contamination. While groundwater samples collected from one monitoring well on the subject property did not contain any exceedances, impacts may extend onto the subject property.

The Phase I Environmental Site Assessment has been performed in conformance with the scope and limitations of ASTM Practice E1527-13. This assessment has revealed evidence of recognized environmental conditions at the subject property.

With the exception of time constraints there were no limiting conditions to this report. Where observations were limited, Sigma renders no opinion as to the presence of hazardous substances, wastes or contamination potential.

The conclusions included in this assessment report should not be construed as legal advice. This practice is intended to reflect a commercially prudent and reasonable inquiry as no environmental site assessment can wholly eliminate uncertainty regarding the potential for recognized environmental conditions in connection with the subject property. Performance of the ASTM E1527-13 practice is intended to reduce, but not eliminate that uncertainty. Finally, even a finding of no recognized environmental conditions is not a warranty or guarantee that the property is free from contamination.

## 1.0 INTRODUCTION

### 1.1 Purpose

Mr. Thomas Otto, on behalf of the City of Madison Office of Business Resources, retained The Sigma Group, Inc. (Sigma) of Milwaukee, Wisconsin to conduct an AAI Phase I Environmental Site Assessment (ESA) at the property located at 910 Oscar Ave in Madison, Wisconsin (subject property). The purpose of the environmental assessment was to identify any recognized environmental conditions (RECs), as defined by ASTM in its Standard Practice for Environmental Site Assessments (E 1527-13), on the subject property. To perform the service, Sigma compiled a site history, reviewed available regulatory documents, reviewed area geology and hydrogeology and conducted limited site observations between March 1 and April 10, 2020. The findings of the assessment are summarized in this report.

The ASTM Standard E 1527-13 defines a REC as:

“The presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: 1) due to any release to the environment; 2) under conditions indicative of a release to the environment; or 3) under conditions that pose a material threat of a future release to the environment.” The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include *de minimis* conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be *de minimis* are not recognized environmental conditions.

The ASTM Standard E 1527-13 defines a controlled recognized environmental condition (CREC) as:

“A recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).”

The ASTM Standard E 1527-13 defines a historical recognized environmental condition (HREC) as:

“A past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).”



## **1.2 Methodology**

Research of the property evaluated its historical use and examined the generation, treatment, storage, and disposal of hazardous chemicals, materials, substances, and wastes for potential sources of environmental concern. Research included a review of reasonably ascertainable records, interviews of knowledgeable local and state officials, and a site reconnaissance.

## **1.3 Significant Assumptions**

This report was prepared under constraints of cost, time, and scope, and reflects a limited assessment and evaluation rather than a total, complete, or extensive assessment and evaluation. Sigma's review was performed using the degree of care and skill ordinarily exercised under similar localities. No other warranty or guarantee, expressed or implied, is made as to the conclusions and recommendations included in this report.

The findings of this report, to the best of our knowledge, are valid as of the date of this review. However, changes in the conditions of a property can occur with the passage of time, whether due to natural processes or the works of man on this or adjacent properties. In addition, changes in applicable or appropriate standards may occur, whether they result from legislation, from the broadening of knowledge, or from other reasons. Accordingly, the findings of this report may be invalidated wholly or partially by changes outside our control.

Specified information contained in this report has been obtained from publicly available sources and other secondary sources of information produced by entities other than Sigma. Although care has been taken by Sigma in compiling the information, Sigma disclaims any and all liability for any errors, omissions, or inaccuracies of the third parties in such information and data, and for any consequences arising there from.

The conclusions contained in this report are based upon information provided by the client, a limited on-site inspection, and our investigation of available public records and should not be considered legal advice. Latent conditions at the site are not known. The review did not include sampling of rock, soil, groundwater, surface water, air or all on-site substances or materials. It is, therefore, not possible to confirm the presence or absence of toxic or hazardous substances, wastes or materials in the environments associated with the site. Sigma makes no warranties, expressed or implied, as to marketability or fitness of the property for a particular purpose.

## **1.4 Limitations and Exceptions**

Conclusions in this report represent our professional judgment and are limited to those site conditions and potential impacts from neighboring properties that could be discovered under the scope of services authorized by the proposal. The conclusions presented were based on an inspection of the property and a review of relevant records.

Sigma attempted to review all reasonably ascertainable, practically reviewable information regarding the history of the subject property; however, data gaps were encountered during preparation of this report. It is Sigma's opinion that the data gaps do not significantly affect, as defined by ASTM E1527-13, the ability to identify recognized environmental conditions in connection with the subject property.

Additionally, Sigma attempted to review all pertinent regulatory agency files for the subject property and adjoining properties; however, time constraints limited the regulatory file review. Based on a review of on-line, historical and municipal records, user and owner provided information and regulatory information provided by Environmental Data Resources (EDR, Milford, Connecticut) it is Sigma's opinion that the regulatory file review constraints do not significantly affect, as defined by ASTM E1527-13, the ability to identify recognized environmental conditions in connection with the subject property.

The conclusions and interpretations of this report do not collectively define all the risks associated with purchase or other use of the property. Should you, our client, or other interested parties, wish to further reduce the risks associated with undiscovered or unquantified environmental impacts, you may want to consider having additional assessment activities performed such as collecting and analyzing soil, groundwater, or other appropriate samples for compounds of relevant and particular concern, or complete other investigation activities as appropriate.

This report does not address or include regulatory compliance issues, cultural or historic resources, industrial hygiene, health and safety issues, ecological resources, endangered species, mold or indoor air quality. Further this report does not purport to identify or quantify asbestos, radon, lead-based paint, lead in drinking water, extremely low frequency radiation (ELF) or electromagnetic frequency radiation (EMF) on-site.

Based on Sigma's review of historic information available, manufacturing of PFAS related products may have occurred at the subject property. The subject property was utilized to produce food packaging and may have been used to produce pesticides. PFAS usage has historically been associated with food packaging and pesticide production; however, no direct evidence of PFAS usage on the subject property has been identified.

### **1.5 Special Terms and Conditions**

No part of this document may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopy, recording, or any information storage and retrieval system, without permission in writing from The Sigma Group, Inc.

### **1.6 User Reliance**

This document contains proprietary and confidential information, which is the sole and exclusive property of The Sigma Group, Inc. and the City of Madison. This document may not be used or duplicated by those other than the City of Madison in any manner without the express written consent of The Sigma Group, Inc. and the City of Madison. The environmental conditions of an operating facility change continuously. This report documents the status of environmental issues as of the date of the report. We caution reliance on this information as time progresses without an appropriate review and update to this environmental assessment.

## **2.0 SITE DESCRIPTION**

### **2.1 Location, Legal Description, and General Characteristics**

The subject property consists of a roughly 16.5-acre section of an approximately 49.52-acre parcel (Parcel # 081031301013), located at 910 Oscar Ave in the City of Madison, Dane County, Wisconsin. The subject property has also historically been listed as 910 Mayer Ave. A legal description and GIS image of the subject property are included in **Appendix A** of this report. The subject property location is presented in **Figure 1**. A site plan map of the subject property is presented in **Figure 2**.

### **2.2 Current Use of the Property**

At the time of this assessment, the subject property was unoccupied. Rabin, a national asset disposition company, is overseeing the redevelopment of the Oscar Mayer property, and has removed manufacturing equipment from the subject property buildings.

### **2.3 Site and Vicinity Characteristics**

The subject property extends south from Aberg Avenue, between Packers Avenue and a railroad right-of-way, on the north end of the former Oscar Mayer campus. The City of Madison has included the subject property within Urban Design District 4. The subject property is zoned Industrial – General District (IG).

### **2.4 Descriptions of Structures, Roads, and Other Improvements on the Site**

At the time of this assessment, the subject property was improved with several buildings:

- Building 43 is an approximately 57,240 square-foot warehouse/manufacturing building constructed in 1969-1971. The eastern section of Building 43 has two stories, while the western section is a one-story, high bay warehouse.
- Building 50 is an approximately 79,925 square-foot, one-story warehouse/manufacturing building constructed in 1963.
- The brine building is a roughly 500-square foot building constructed sometime between 1968 and 1976.
- The wellhouse is a roughly 500 square-foot building constructed sometime between 1968 and 1976.

Access to the subject property parcel is gained from Commercial Ave to the south and Aberg Ave from the north.

Utilities provided to the subject property include water, gas, electric, communications, and sewer. The City of Madison supplies potable water and wastewater service to the subject property.

### **2.5 Current Uses of the Adjoining Properties**

At the time of this assessment, adjoining properties included Aberg Avenue then the Chet's Car Care service center and residences to the north of the subject property, Packers Avenue then residential properties and parkland to the east of the subject property, the southern section of the former Oscar Mayer plant to the south of the subject property, and a railroad right-of-way then a storage facility and a bus hub to the west of the subject property. The subject property location is presented in **Figure 1**. A site plan map of the subject property is presented in **Figure 2**.

## **3.0 USER-PROVIDED INFORMATION**

### **3.1 Title Records**

Sigma reviewed available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls for the subject property parcels. A Declaration of Restrictions, dated April 19, 2006, stated that "one or more petroleum fuel discharges have occurred on this property, and as of May 1997, when soil samples were collected on this property, soil contaminated with gasoline range organics, diesel range organics, benzene, ethylbenzene, toluene, and xylenes remained on this property." Listed restrictions include the maintenance of a cap over the impacted area. Based on the included figure, the use restrictions applied to land south of the subject property and do not apply to the subject property itself. Records indicating that environmental cleanup liens or activity and use limitations are in effect for the subject property were not identified.

### **3.2 Environmental Liens or Activity and Use Limitations**

In accordance with the ASTM standard, Sigma requested information from the City of Madison, via Ms. Brynn Bemis, regarding known environmental liens on the subject property. Ms. Bemis reported that the subject property is subject to environmental cleanup liens.

### **3.3 Specialized Knowledge**

In accordance with the ASTM standard, Sigma requested information from Ms. Bemis regarding information about previous ownership or uses of the property that may be material to identifying recognized environmental conditions.

Ms. Bemis reported that the subject property was historically the site of a meat processing plant operated by Oscar Mayer. The former Burke wastewater treatment plant is located to the northeast of the subject property and the closed Demetral landfill is located to the southeast of the subject property. The City of Madison historically owned the Burke site and presently owns the Demetral site.

Ms. Bemis reported that historical fire insurance maps and aerial photographs show soil staining, aboveground storage tanks (ASTs), and evidence of underground storage tanks (USTs) on the subject property.

Ms. Bemis provided multiple environmental reports prepared for the Oscar Mayer property, which includes the subject property.

Ms. Bemis provided a Phase I ESA completed by Environmental Resources Management, Inc. (ERM) in August 2019 for 910 Mayer LLC. The Phase I ESA covered the entirety of the subject property parcel, including the area to the south of the subject property.

ERM identified the following RECs for the subject property parcel:

- “BRRTS #02-13-580722: As part of a Phase II ESA conducted by ERM on behalf of 910 Mayer LLC, concentrations of volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), and lead detected in soil and/or groundwater above WDNR criteria in soil borings installed in the vicinity of three former filling stations located in the East parking lot. The WDNR was notified of the release on 1 December 2017. A site investigation work plan (SIWP) was submitted to the WDNR in October 2018. The results of investigations completed in 2019 were submitted to the WDNR in a letter dated June 17, 2019.” While not located on the subject property itself, the northernmost filling station was located directly south of the subject property. This site may have impacted the subject property.
- “BRRTS #02-13-580721: As part of a Phase II ESA conducted by ERM on behalf of 910 Mayer LLC, concentrations of chlorinated volatile organic compounds (CVOCs), primarily 1,2-dichloroethane (ethylene dichloride), PAHs, arsenic and lead in soil and/or groundwater were detected above WDNR criteria in the vicinity of the former ethylene dichloride ASTs located in the unpaved grassy area south of Building 59. Concentrations of 1,2-dichloroethane have also been detected in groundwater to the south of the Subject Property at the Demetral Landfill. The WDNR was notified of the release on 1 December 2017. A SIWP was submitted to the WDNR in October 2018. The results of investigations completed in 2019 were submitted to the WDNR in a letter dated June 17, 2019.” This site is not located on or adjacent to the subject property and is not expected to impact the subject property.
- “BRRTS #02-13-580723: As part of a Phase II ESA conducted by ERM on behalf of 910 Mayer LLC, CVOCs were detected in sub-slab soil gas samples collected in and around the former spice room located in Building 43. The WDNR was notified of the release on 1 December 2017. A SIWP was submitted to the WDNR in October 2018. The results of investigations completed in 2019 were submitted to the WDNR in a letter dated June 17, 2019.” This site is located on the subject property and has impacted the subject property.
- “BRRTS #02-13-580328 & #02-13-579045: Two Notifications of hazardous substance discharge were issued by the WDNR in 2017 for the Hartmeyer Property. These are related to diesel fuel releases on the Hartmeyer Estate property. These incidents are listed as open incidents in the WDNR database, but closure documentation has been submitted for the 02-13-580328 incident. This property is across the railroad right of way from the 910 Mayer property, but impacts may extend onto the 910 Mayer property.” This site is not located on or adjacent to the subject property and is not expected to impact the subject property.

ERM also identified the following CRECs:

- “BRRTS #03-13-001744: The WDNR was notified on November 13, 1992 of a petroleum release associated with the removal of an underground storage tank. The BRRTS report states that soil contamination was present. The activity was closed on August 11, 1993. The location of the leaking underground storage tank (LUST) is unknown and no further information is available.” This site is not located on or adjacent to the subject property and is not expected to impact the subject property.

- “BRRTS #02-13-000895: Chlorinated compounds were detected in four on-Site groundwater wells in 1986. In 1994 the WDNR was notified of concentrations above Preventative Action Levels. The WDNR approved final closure of the activity on December 7, 2006. The activity is listed on the GIS registry, showing remaining vinyl chloride impacts above enforcement standards (ESs) in the area beneath and north of the processing plant.” This site is located on the subject property and has impacted the subject property.
- “BRRTS #02-13-221826: The WDNR was notified on March 4, 1999 of a release associated with soil contamination. The location and nature of the contamination is unknown. The activity was closed on May 13, 1999.” This site is not located on or adjacent to the subject property and is not expected to impact the subject property.
- “BRRTS #03-13-114831: A 1997 investigation into potential impacts from three removed USTs led to the discovery of petroleum impacts. Groundwater monitoring activities continued in the area of contamination until 2005. Final closure was granted from the WDNR on 25 May 2006. The activity is listed on the GIS registry to document remaining soil and groundwater impacts. Asphalt barrier maintenance remains a condition of the activity closure.” This site is not located on or adjacent to the subject property and is not expected to impact the subject property.

ERM also identified the following HREC:

- “A 12,000 gallon UST containing diesel fuel was excavated and removed from the Site in 2015. Four soil samples were collected from the sidewalls of the excavation and analyzed for VOCs. All detections were below the Wisconsin Administrative Code Residual Contaminant Levels (RCLs).” This site is not located on or adjacent to the subject property and is not expected to impact the subject property.

Selections from the 2019 ERM Phase I ESA are included as **Appendix B**.

Ms. Bemis also provided a copy of a Phase I ESA prepared by ERM in 2017. The Phase I ESA covered the entirety of the subject property parcel, including the area to the south of the subject property. ERM stated that meat processing operations on the subject property ceased in 2017. ERM also identified the following RECs:

- “Chemical use and storage – solvents, petroleum products, grease tanks, a “tank room”, laundry, fuel oil in above ground storage tanks, a paint shop, wastewater treatment system with associated chemical usage, a garage with gasoline tanks (presumably underground), three former filling (gasoline) stations on the east portion of the Central area, and reported insecticide manufacturing.” While most of the listed chemical uses and storage operations occurred to the south of the subject property, documented impacts from releases of chlorinated solvents have occurred on the subject property.

"Historic Spills – spills of transformer oils containing PCBs, hydraulic oils, antifreeze, petroleum, waste oil, sulfuric acid, sodium hydroxide, bleach (chlorinated water) were reported to the WDNR. Of note, a 14,000 gallon release of fuel oil from an underground pipe serving former fuel oil ASTs situated on a leased parcel west of the facility occurred in 1989. These are listed as closed incidents, some with remaining residual impacts left in place." With the exception of a release of hydraulic oil from an elevator, significant reported spills which would negatively impact the subject property have not been identified.

- "Chlorinated VOCs in Groundwater – the presence of CVOCs in groundwater exceeding state preventive action limits (PALs) was reported to WDNR in 1986. The issue was reportedly closed with WDNR in 2006." Chlorinated VOCs have impacted the subject property groundwater.
- "Chemical and Waste Storage Areas – stained concrete was observed in numerous locations including where chemicals and wastes were stored, and in several areas near floor drains that discharge to the wastewater treatment plant (oil room, former maintenance rooms, spice room, Maintenance Building 20, Powerhouse)." Sigma observed stained concrete throughout the subject property buildings.
- "Historic Fill – Prior to site development, fill was placed on the subject property which included marshy areas. Review of historic information as well as the Ramboll-Environ Phase I ESA indicated a fly ash disposal area was present on the northeast corner of the Central area." Soil borings indicate that fill materials were placed on the subject property. The subject property may have been impacted by the fill materials.

ERM identified the following CRECs:

- "BRRTS #03-13-001744: The WDNR was notified on 13 November 1992 of a petroleum release associated with the removal of an underground storage tank. The BRRTS report states that soil contamination was present. The activity was closed on 11 August 1993. The location of the LUST is unknown and no further information is available." This site is not located on or adjacent to the subject property and is not expected to impact the subject property.
- "BRRTS #02-13-000895: Chlorinated compounds were detected in four on-Site groundwater wells in 1986. In 1994 the WDNR was notified of concentrations above Preventative Action Levels. The WDNR approved final closure of the activity on 7 December 2006. The activity is listed on the GIS registry, showing remaining vinyl chloride impacts above ESs in the area beneath and north of the processing plant." The subject property groundwater has been impacted with chlorinated compounds.
- "BRRTS #02-13-221826: The WDNR was notified on 4 March 1999 of a release associated with soil contamination. The location and nature of the contamination is unknown. The activity was closed on 13 May 1999." This site is not located on or adjacent to the subject property and is not expected to impact the subject property.

- “BRRTS #03-13-114831: A 1997 investigation into potential impacts from three removed USTs led to the discovery of petroleum impacts. Groundwater monitoring activities continued in the area of contamination until 2005. Final closure was granted from the WDNR on 25 May 2006. The activity is listed on the GIS registry to document remaining soil and groundwater impacts. Asphalt barrier maintenance remains a condition of the activity closure.” This site is not located on or adjacent to the subject property and is not expected to impact the subject property.

ERM identified the following HREC:

- “A 12,000 gallon UST containing diesel fuel was excavated and removed from the Site in 2015. Four soil samples were collected from the sidewalls of the excavation and analyzed for VOCs. All detections were below the Wisconsin Administrative Code RCLs.” This site is not located on or adjacent to the subject property and is not expected to impact the subject property.

Selections from the 2017 ERM Phase I ESA report are included as **Appendix C**.

The 2017 Phase I ESA report also references a 2016 Phase I ESA prepared by Ramboll Environ US Corporation (Ramboll Environ), which was completed prior to the end of meat processing activities. The 2016 Phase I ESA covered a roughly 70-acre site which included properties to the east and west of the subject property parcel. Ramboll Environ stated that certain raw materials, including corn syrup, potassium lactate, brine/salt, carbon dioxide, and nitrogen were stored in exterior ASTs to the north of the processing plant. Based on the description provided, these were most likely the ASTs depicted between Building 43 and Building 50 in historical aerial photographs. The report describes several processes which likely occurred in Building 43:

- “Spice Manufacturing – Spices are manufactured on the first floor of the processing plant using a variety of dry spices and wet products (i.e., oils, liquid smokes) that are blended in three mixers. The spices are packaged and used on site or shipped to other Kraft Heinz locations for use.”
- “Extruding – A plastic extrusion line is located on the ground floor of the processing building and uses three types of resin (polyvinyl chloride, vinyl acetate, and a barrier resin) to create a three-layered, food-grade plastic wrap that is used to package hot dogs.”
- “Packaging – Finished meat products are weighed, scanned, sent through a metal detector, labeled, and placed in cardboard boxes for storage or shipping. Warehouse/storage areas located on site house meat products manufactured on site, as well as other Kraft Heinz products that were manufactured off-site (i.e., cream cheese, sauerkraut).”

Facility personnel stated that, while chlorinated solvents were not used at the facility at the time of the report, they “may have been used on site for cleaning after the slaughtering process and during spice extraction activities.” Chlorinated solvents used for spice extraction included trichloroethylene (TCE), 1,1-dichloroethylene, and methylene chloride. PCE was used to clean glue pots.



Ramboll Environ reviewed a previous environmental report, likely the 1994 Phase I ESA completed for the subject property by Conestoga-Rovers & Associates, which stated that a former fly ash disposal area was located in the northeast corner of the subject property. This report was not included in the provided documents.

Ramboll Environ reviewed online documentation available through the USEPA, which indicated that insecticides, including space spray, pyrethrum, and lethane, were manufactured on the Oscar Mayer property in the late 1960s. The Ramboll Environ report did not elaborate on the source of this information. Sigma conducted a search of the USEPA's Pesticide Product Information System (PPIS) and determined that Oscar Mayer & Co., located at 910 Mayer Ave, was a registered (Company Number 8514) manufacturer of three insecticides:

- Space Spray (USDA/EPA Registration Number 8514-2, no stock item number listed), an insecticide which was first registered in 1964 and accepted by the USEPA in 1967. The product label for Space Spray kept by the USEPA is largely illegible. No legible ingredient information was included.
- Pyrethrum Insecticide for Fogging (USDA/EPA Reg. No. 8514-3, Stock Item 91-0034), an insecticide which was first registered in 1964 and accepted by the USEPA in 1967. The product label states that it contained 0.3% pyrethrins, 1% technical piperonyl butoxide, and 98.7 petroleum distillate.
- Lethane Insecticide for Fogging (USDA/EPA Reg. No. 8514-4, Stock Item 91-036), an insecticide which was first registered in 1964 and accepted in 1968. The ingredient section of the product label is largely illegible. A product label for lethane produced by Rohm & Haas indicated that lethane contained 53% beta-butoxy beta-thiocyano diethyl ether and 47% petroleum distillate.

The manufacturing of all three insecticides was considered inactive as of May 1, 1987. Sigma also reviewed an online copy of the *List of Chemical Compounds Authorized for Use Under USDA Meat, Poultry, Rabbit, and Egg Products Inspection Programs*, prepared by the USDA and effective as of July 1, 1975. In addition to Space Spray, lethane and pyrethrum, the insecticide chlordane was authorized for use for Oscar Mayer.

The appendices of the 2016 Phase I ESA report included an undated set of detailed maps for the production facility. Based on the buildings and features depicted, the map was originally prepared sometime in the 1950s or 1960s, then updated through at least 1971. Pertinent information from the site plans includes the following:

- The building located to the west of the subject property across the railroad right-of-way had eight outdoor fuel oil ASTs. Six had capacities of 14,600 gallons, while two had capacities of 20,800 gallons.
- The outdoor storage tanks located to the east of Building 43 in the 1960s were most likely lard storage tanks.
- The northeast section of the second floor of Building 43 was used to manufacture plastics, while the southeast section of both floors of Building 43 were used to manufacture spices.
- The plans included construction years for the two main subject property buildings. According to the plans, Building 50 was constructed in 1963 and Building 43 was constructed in 1971.

- The two large storage tanks on the western side of Building 50 contained powdered saran.
- The section of Building 50 below the former mezzanine was used to manufacture plastic wrapping material.

Ramboll Environ identified the following REC for the Oscar Mayer property:

- “Potential Impacts from the Historical Industrial Operations. The Central Property portion of the site has been operated as a meat processing and packaging facility since at least 1915. Related operations have historically involved (and currently involve) equipment and machinery which required the use of chemicals, including solvents, petroleum products, acids, and maintenance-related products. Soil and groundwater sampling activities were performed on site between 1986 and 2006 in specific portions of the site and were tailored to address releases from tanks or other spills. The site is not currently the subject of regulatory scrutiny related to contamination matters. Specific operations associated with the historical industrial use of the Central Property include: 1) tank rooms of unknown use identified on historical Sanborn maps; 2) gasoline filling and repair stations in the 1950s and 1960s; 3) past manufacturing of insecticides in the late 1960s; 4) reported historical use of chlorinated solvents on portions of the site that were not sampled as part of the CVOC Environmental Repair Program (ERP) closure (discussed further below); 5) below-grade/above-grade features of unknown status, including a zinc chloride tank, five gasoline tanks, and a below-ground automobile lift; and 6) former coal storage areas. In addition, the northern portion of the East Property may have been included within the boundaries of a former north adjacent landfill/wastewater treatment facility; and the West Property was previously used as a former coal and fuel manufacturing facility, and the northeastern portion where the ASTs were previously located was remediated (as discussed below).” Landfilling and the use of chlorinated solvents may have impacted the subject property.

Ramboll Environ identified the following CRECs for the property:

- “Chlorinated VOCs in Groundwater. The Central Property of the site was assigned ERP #02-13-000895 following the discovery of chlorinated compounds in four on-site groundwater wells in 1986. The chlorinated compounds detected in groundwater included TCE; cis-1,2-dichloroethylene; vinyl chloride; xylene; ethyl benzene; toluene; methylene chloride; chlorobenzene; and acetone. In 1994, the Wisconsin Department of Natural Resources (WDNR) was notified that the concentrations of chlorinated compounds in the wells were detected above state PALs. Between July 2001 and April 2005, semi-annual groundwater monitoring was performed at the site. Based on the results of the sampling activities, the WDNR approved final closure of this ERP listing on December 7, 2006, which was listed on their GIS Registry to document residual groundwater impacts on site. A review of the WDNR Geographic Information System (GIS) Registry file for this ERP listing indicates that vinyl chloride impacts above ESs are limited to the area beneath and immediately north of the processing plant. Although residual groundwater contamination may remain, because closure has been granted, Ramboll Environ considers this matter to represent a CREC.” The subject property was impacted by chlorinated compounds in the groundwater.

- “Removed Petroleum Underground Storage Tanks (USTs). Three USTs, a 10,000-gallon gasoline UST (removed 1986), and 9,500-gallon gasoline and 10,000-gallon diesel fuel USTs (removed 1996), were located outside the maintenance shop’s west exterior wall, at the southern portion of the shop. An investigation was conducted to evaluate the extent of potential soil and groundwater impacts associated with releases from the USTs in 1997. As petroleum impacts were discovered, Leaking UST (LUST) #03-13-114831 was assigned to the site. Groundwater monitoring activities continued to be performed in this area until 2005. The WDNR approved final closure on May 25, 2006 and listed this LUST on their GIS Registry to document residual soil and groundwater impacts, including residual soil contamination (gasoline range organics [GROs], diesel range organics [DROs], and benzene, toluene, ethylbenzene, and xylenes [BTEX]) and petroleum-impacted groundwater beneath the maintenance shop and outside the shop, near its west-central portion. The maintenance of an asphalt barrier near the documented residual soil impacts was assigned as part of the LUST closure. Although residual contamination remains on site, because closure has been granted, Ramboll Environ considers this matter to represent a CREC.” This site is not located on or adjacent to the subject property and is not expected to impact the subject property.
- “West Property Aboveground Storage Tanks (ASTs). On March 19, 2004, KL Engineering identified petroleum impacts in soil during parking lot construction activities on the northeast corner of the West Property and reported a release to the WDNR. Subsequently, a Leaking AST (LAST) incident and ERP #02-13-524010 were assigned to the site. The West Property was formerly operated by a coal and fuel facility and contained twelve 10,000-gallon fuel oil ASTs that were removed between 1975 and 1985; the release was identified in the area of these former ASTs. Initial response activities included excavating 489 tons of petroleum-impacted soils and removing approximately 9,000 gallons of petroleum-impacted groundwater from the excavation. Following additional sampling activities, the WDNR approved final closure of the ERP on February 8, 2006 and listed this ERP on their GIS Registry to document residual soil and groundwater impacts. Although residual contamination remains on-site, because closure has been granted, Ramboll Environ considers this matter to represent a CREC.” While the release was not located on the subject property, impacts from this site may extend to the subject property.
- “2014 UST Closure. A 12,000-gallon diesel fuel UST was excavated and removed from an area outside the west wall of the maintenance shop in 2015. Water was observed in the excavation; however, no sheens were visible on the water. A total of four confirmatory soil samples were collected from sidewalls of the excavation and analyzed for petroleum VOCs; soil samples were not collected from the base of the excavation, due to the presence of water, or the east sidewall of the excavation, due to the presence of the maintenance shop’s foundation. VOC concentrations ranged between <0.025 ppm to 0.041 parts per million (ppm), but all detections were below the Wisconsin Administrative Code (WAC) NR 720 RCLs Protective of Groundwater Quality values. As the petroleum VOCs concentrations were below reportable levels, Ramboll Environ considers this matter to represent a CREC.” This site is not located on or adjacent to the subject property and is not expected to impact the subject property.

Ramboll Environ also noted a significant data gap, which prevented a determination of whether the following was a CREC or an HREC:

- “1999 ERP and 1992 LUST Listings. Ramboll Environ has insufficient information regarding two incidents that have been closed by the WDNR: a 1999 ERP and a 1992 LUST report. The site (Oscar Mayer Lift) was enrolled into the ERP on March 4, 1999 (ERP #02-13-221826); an end date of May 13, 1999 was assigned to its closure. A LUST (#03-13-001744) was reported by Oscar Mayer Foods in November 1992 in association with a release of petroleum and was granted closure in August 1993. Although both incidents are listed as closed, facility personnel had no information pertaining to these listings and no documentation was available online. Information was requested from the WDNR; however, a response has not yet been received. This lack of information represents a significant data gap. Absent further information, Ramboll Environ cannot confirm whether these issues would be classified as CRECs or HRECs.” These sites are not located on or adjacent to the subject property and are not expected to impact the subject property.

Ramboll Environ also noted additional findings, which while not considered RECs, were considered contingent risks:

- “West Adjacent Property Fuel Oil Release. In February 1989, Oscar Mayer notified the WDNR of a release of approximately 14,000 gallons of #2 fuel oil from buried underground piping that serviced current (and historical) fuel oil ASTs located on a leased property adjacent to the west of the processing plant. Three monitoring wells were advanced on the site (i.e., Central Property) adjacent to the railroad tracks for the collection of groundwater samples. The results did not identify groundwater contamination in these wells. Although contamination remains on the west adjacent property, closure was granted by the WDNR.” This site is not located on or adjacent to the subject property and is not expected to impact the subject property.
- “Fill Materials. Before site development in the early 1900s, the site and surrounding areas consisted of marshy areas that were subsequently filled during development. Water well logs for the Central Property that date back to the 1930s documented drift, fill, and muck in site soils. Following adjacent roadway construction activities in the 1960s, the entire East Property appeared graded/disturbed. In addition, a former fly ash disposal area was present on the northeast corner of the Central Property, beneath the current parking lot; dates of use of this disposal area were not provided. No further information regarding the source(s) of fill used to grade the site was available.” Soil borings indicate that fill materials were placed on the subject property. The subject property may have been impacted by the fill materials.
- “Potential Migration of Contamination from Off-site Properties. The site is located adjacent to and in the presumed downgradient direction from two off-site properties listed on databases indicative of potential soil or groundwater contamination. The former Burke WWTP and former Truax Landfill located adjacent to the north-northeast of the site are listed with an open ERP listing and as a SHWS and a portion of the landfill/wastewater treatment facility may have extended onto the East Property; a portion of the Burke WWTP / Truax Landfill has been redeveloped as a shopping center. The database stated that the presence of chlorinated solvents on the northeastern portion of the Central Property may have been the result of the

operation of the landfill. Based on the available information, there is no indication as to whether contamination at these adjacent properties represents a significant contamination risk to the site; however, consistent with ASTM requirements, Ramboll Environ has attempted to undertake a further review of the listings through submission of a FOIA request to the WDNR. At the time of this report, Ramboll Environ was still awaiting a reply and this is, therefore, considered a data gap. Also, one property located potentially upgradient of (but not adjacent to) the site is listed on a database indicative of potential soil and groundwater contamination. Specifically, ShopKo Store No. 034 (approximately 0.7 miles northeast of the site) is listed as a Brownfields. If contamination associated with off-site properties is found to have migrated onto the site, it is expected that any remedial activities would be the responsibility of the entity(ies) named in the listing or other designated responsible party and not Kraft Heinz.” Based on the available information, contaminated groundwater from the Burke WWTP site and/or the Truax Landfill may have migrated onto the subject property.

Selections from the 2016 Ramboll Environ Phase I ESA report are included as **Appendix D**.

### **3.4 Valuation Reduction of Environmental Issues**

In accordance with the ASTM standard, Sigma requested information from Ms. Bemis regarding value reduction of the subject property to comparable properties. Ms. Bemis reported that, while the purchase price is presently under negotiation, concerns over environmental conditions will be taken into consideration while determining the purchase price.

### **3.5 Owner, Property Manager, and Occupant Information**

On March 30, 2020, Sigma interviewed Ms. Chelsea Greiwe, Vice President of Real Estate for Rabin, which manages the subject property (the subject property is owned by 910 Mayer LLC, a partnership between Rabin Worldwide and Reich Brothers). Ms. Greiwe provided a copy of the 2019 Phase I ESA, discussed in Section 3.3 of this report, which summarizes Rabin’s knowledge of the historical use of the subject property and potential environmental concerns associated with the property.

Sigma also reviewed a brochure for the Oscar Mayer property, which was prepared by Rabin. The brochure states that Building 43 is a 57,240 square-foot building and Building 50 is a 79,925 square-foot building.

### **3.6 Reasons for Performing Phase I**

The purpose of this report is to qualify for the innocent landowner defense to CERCLA liability and to assist the user in making business decisions in regard to the subject property.

## 4.0 RECORDS REVIEW

### 4.1 Standard Environmental Record Sources

Sigma utilized the services of Environmental Data Resources (EDR) to provide regulatory data, meeting the ASTM Standard E 1527-13, from Federal and State agencies. The federal regulatory data includes the National Priorities List (NPL), the Resource Conservation and Recovery Act (RCRA) notifiers, the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) database, and the Emergency Response Notification System (ERNS) database. The state data includes the Leaking Underground Storage Tanks (LUST) list, the Registered Underground Storage Tank list, and the State Solid Waste Facilities/Landfill Sites list. During review of the data provided by EDR, Sigma focused on sites within a 1.0-mile radius or less of the property. The EDR summary report is included as **Appendix E** of this Phase I Environmental Site Assessment report. The findings of select inventories are discussed below.

#### 4.1.1 National Priority List

The EPA publishes a National Priorities List (NPL) of sites included in the "Superfund" program as authorized by CERCLA and the Superfund Amendments and Reauthorization Act (SARA). EDR did not identify the subject property as a "Proposed" Superfund, Superfund or "Delisted" Superfund site, nor were "Proposed" Superfund, Superfund or "Delisted" Superfund sites identified within a 1.0-mile radius of the subject property.

#### 4.1.2 Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS)

The CERCLIS list is a compilation of known or suspected uncontrolled or abandoned hazardous waste sites that are under investigation or have been investigated by the EPA to determine if the site(s) should be remediated under the Superfund program. EDR did not identify the subject property as a CERCLIS or CERCLIS - No Further Remedial Action Planned (NFRAP) site, nor were CERCLIS or CERCLIS-NFRAP sites identified within a 0.50-mile radius of the subject property.

#### 4.1.3 Resource Conservation and Recovery Act Corrective Action Report (CORRACTS)

The United States EPA maintains the CORRACTS database. The database includes RCRA facilities, which are undergoing corrective action due to a release of hazardous waste or constituents into the environment. EDR did not identify the subject property as a CORRACTS site, nor were CORRACTS sites identified within a 1.0-mile radius of the subject property.

#### 4.1.4 Resource Conservation and Recovery Act (RCRA)

RCRA includes selective information compiled by the EPA on sites which generate, store, transport, treat, and/or dispose of hazardous waste. EDR identified the 910 Oscar Ave parcel, which includes the subject property, in the RCRA database as an active Large Quantity Generator (generates 1,000 kg or more of hazardous waste during a calendar month) of ignitable and corrosive wastes, as well as waste lead, mercury, PCE, TCE, nonhalogenated solvents, and dichloromethane or methylene chloride, and byproduct salts generated in the production of MSMA and cacodylic acid. The facility has received notices of violations, which were subsequently corrected.

Additionally, four RCRA hazardous waste generators were identified within a 0.25-mile radius of the subject property. Chet's Car Care Center, located at 2020 Aberg Ave, directly north of the subject property across Aberg Avenue, is a Very Small Quantity Generator (generates less than 100 kg of hazardous waste during a calendar month) of ignitable wastes and lead. The facility has been in operation since circa 1991. No violations were reported for the site.

Based on the relative distance between the remaining reported sites and the subject property and/or the site status, the RCRA sites are not expected to impact the subject property.

EDR did not identify the subject property as an RCRA-Treatment, storage, or disposal facility (TSDF), nor were RCRA-TSDFs identified within a 0.50-mile radius of the subject property.

#### 4.1.5 Emergency Response Notification System (ERNS)

The ERNS list contains information on reported releases of oil and hazardous substances. EDR identified the 910 Oscar Ave parcel, which includes the subject property, as an ERNS site with 24 reported releases. Various operator errors and equipment failures resulted in 17 reported releases of up to 110 pounds of ammonia between 1993 and 2012. The other seven reported releases were as follows:

- In 1991, a release of ammonia, chlorine, methane arsenic acid, sodium salts and black phosphorus was reported.
- A 1993 equipment failure resulted in a release of 30 gallons of ethylene glycol.
- A 1993 equipment failure resulted in a release of 5 gallons of ethylene glycol.
- A 1993 equipment failure resulted in a release of an unknown amount of ethylene glycol.
- A 1995 break in a hose resulted in a release of 0.5 gallons of diesel fuel.
- A 1995 equipment failure resulted in a release of 15 gallons of hydraulic oil.
- A 2000 sanitary sewer backup resulted in a release of 20 gallons of sewage.

Based on the nature and/or size of releases reported, the listed emergency releases are not expected to significantly impact the subject property.

#### 4.1.6 State Hazardous Waste (SHWS)

The state hazardous waste site record, the Hazard Ranking List, is compiled by the WDNR and is generally the state's equivalent to the CERCLIS list. EDR did not identify the subject property as a state hazardous waste site; however, one SHWS site was identified within a 1.0-mile radius of the subject property:

- The Truax landfill, located on Aberg Avenue, to the northeast of the subject property, was added to the hazard ranking system list in 1994.

Based on impacts identified at the former Burke wastewater treatment plant site, to the east of the subject property, a release from the Truax landfill may have impacted the subject property. See Section 4.2.1 of this report for further details.

#### 4.1.7 State Landfill

The state landfill list, the Registry of Waste Disposal Sites, is compiled by the WDNR and includes an inventory of solid waste disposal facilities or landfills. EDR did not identify the subject property as a state landfill or waste disposal site; however, two state landfill sites and one waste disposal site were identified within a 0.50-mile radius of the subject property. Based on the relative distance between the waste disposal and state landfill sites and the subject property, they are not expected to negatively impact the subject property.

#### 4.1.8 Leaking Underground Storage Tank (LUST)

The LUST list is compiled by the WDNR and contains an inventory of reported LUST incidents. EDR identified several LUST sites on the 910 Mayer Ave parcel; however, based on the available information, the sites are not located on the subject property itself and are not expected to negatively impact the subject property:

- The Oscar Mayer Site #3 (BRRS #03-13-114831) is a closed LUST site with continuing obligations located in the southeast section of the 910 Mayer St parcel, roughly 900 feet to the south of the subject property. The LUST case was opened in 1996 to address impacts from a 10,000-gallon leaded gasoline UST, a 9,500-gallon unleaded gasoline UST, and a 10,000-gallon diesel UST. At the time of site closure in 2006, residual soil and groundwater contamination were present at the site. Impacts from this site are not expected to impact the subject property.
- The Oscar Mayer Foods site (BRRS #03-13-001744) is a closed LUST site located on the southeast side of the main Oscar Mayer building, to the south of the subject property. The LUST case was opened in 1992 to address contamination discovered during the removal of a UST. While the size of the UST was not stated in the site file, the dimensions of the initial excavation indicate that the UST had a capacity of 1,900 gallons or less. While some residual soil contamination was present at the time of closure in 1993, this site is not expected to impact the subject property.
- The Oscar Mayer site (BRRS #03-13-000053) is a closed LUST site located at 2007 Roth Street, southwest of the subject property across the railroad right-of-way. The LUST case was opened in 1989 to address soil and groundwater impacts related to two fuel oil ASTs (likely with capacities of 150,000 and 250,000 gallons) and historical releases along the railroad right-of-way. One AST was removed prior to the site closure, while aerial photographs indicate that the other was present until sometime between 2014 and 2017. Soil and groundwater samples were tested for VOCs and PAHs. The site was closed in 2008 with continuing obligations. Residual soil and groundwater contamination are present, and impacts extend beyond the site. Based on the available information, this site is not expected to negatively impact the subject property.

Additionally, 27 LUST sites were identified within a 0.50-mile radius of the subject property. Based on the relative distance between the reported sites and the subject property and/or the closed status, the LUST sites are not expected to impact the subject property.



#### 4.1.9 Underground Storage Tanks (USTs)

The list of registered USTs is compiled by the State of Wisconsin and contains information on the site name, location, and number of tanks. EDR identified the 910 Mayer St parcel, which includes the subject property, as a registered UST site, with a 250-gallon fuel oil UST, a 9,500-gallon unleaded gasoline UST, a 10,000 gallon leaded gasoline UST, a 10,000-gallon diesel UST, and a 12,000-gallon diesel UST historically located on the parcel. All of the USTs have been removed. Based on available LUST documents and fire department records, none of the USTs were located on the subject property, and they are not expected to impact the subject property.

Additionally, 18 registered UST sites were identified within a 0.25-mile radius of the subject property. Based on the relative distance between the reported sites and the subject property and/or the site status, the UST sites are not expected to impact the subject property.

#### 4.2 Additional Environmental Record Sources

Sigma utilized EDR's services to provide regulatory data, exceeding the ASTM Standard E 1527-13, from Federal and State agencies. During review of the data provided by EDR, Sigma focused on sites within a 1.0-mile radius or less of the property.

##### 4.2.1 Wisconsin Environmental Repair Program (ERP)

The ERP program database is compiled by the WDNR and generally includes non-UST related spills. EDR identified the subject property as an ERP site. Approximate outlines of ERP sites on the subject property are depicted in **Figure 3**.

- The Oscar Mayer Former Spice Room Building 43 site (BRRTS #02-13-580723) is an open ERP site located in the southeast corner of Building 43. The ERP case was opened in 2017 to address CVOCs detected in sub-slab gas samples collected in the vicinity of the former spice room. Concentrations of TCE in sub-slab vapor samples collected below Building 43 ranged from 2.7 to 66,800 ug/m<sup>3</sup>, exceeding WDNR sub-slab vapor criteria. In 2019, two rounds of groundwater samples were collected from wells located directly east, west, and south of the building and tested for VOCs. Results for constituents with one or more exceedances are summarized in the table below:

Constituent (all values in ug/L)	PAL	ES	SR-MW-14 (East of Building 43) 3-18 ft bgs		SR-MW-15 (West of Building 43) 5-20 ft bgs		SR-MW-16A (South of Building 43) 8-18 ft bgs		SR-MW-16B (South of Building 43) 39-49 ft bgs	
			May 2019	Aug. 2019	May 2019	Aug. 2019	May 2019	Aug. 2019	May 2019	Aug. 2019
Benzene	0.5	5	<0.25	<0.99	<0.25	<0.25	<0.25	<0.25	1.3	1.3
Cis-1,2-Dichloroethene	7	70	22.4	281	2.3	0.50	<0.27	0.60	44.7	82.3
1,2-Dichloroethane	0.5	5	<0.28	<1.1	<0.28	<0.28	<0.28	<0.28	21.2	50.6
Tetrachloroethene	0.5	5	<0.33	<1.3	11.5	8.7	<0.33	<0.33	<0.33	<0.33
Trichloroethene	0.5	5	<0.26	<1.0	1.1	0.61	0.95	2.2	0.66	0.70
Vinyl Chloride	0.02	0.2	51.3	68.6	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17

The subject property has been impacted via groundwater and vapor. A copy of the Remediation Technology Screening report, submitted to the WDNR by ERM in December 2019, is included as **Appendix F**.

- The Oscar Mayer Inc. site (BRRS #02-13-000895) is a closed ERP site with continuing obligations, located in the central section of the subject property. According to the BRRS database, the ERP case was opened in 1984; however, no documents from the period between 1984 and 1993 were included in the site file. According to the July 2006 Closure Request submitted to the WDNR by BT<sup>2</sup>, the ERP case was opened to address chlorinated solvent impacts discovered in groundwater from production wells installed in the bedrock on the subject property. The report figures indicate that Production Well #5, located in the northwest corner of the subject property, extended 400 feet below ground surface (bgs), with a well casing extending to a depth of 225 feet bgs. Quarterly groundwater samples from Production Well #5 collected between 1986 and 1993 indicated that TCE levels ranged from 1.37 to 5.64 ppb (ug/L), exceeding the ES of 5 ug/L, and tetrachloroethylene (PCE) levels ranged from below detection level to 37.9 ppb (ug/L), exceeding the ES of 5 ug/L. Production well data from after 1993 was not included in the site file.

In 1994, Conestoga Rovers & Associates (CRA) advanced soil borings and installed monitoring wells to depths of up to 56 feet bgs, which indicated that a plume of chlorinated substances (1,2-dichloroethene and vinyl chloride) was present. Groundwater samples collected by BT<sup>2</sup> between 1994 and 2005 indicated that impacts were generally limited to the central section of the subject property and concentrations generally followed a downward trend throughout the monitoring period. BT<sup>2</sup> concluded that the area of ES exceedance for vinyl chloride extended to between 50 and 60 feet bgs. The site was granted a conditional closure in 2006.

Considering that the modeled extent of ES exceedances for chlorinated compounds in groundwater did not extend below 60 ft bgs in 2005, it is unlikely that this plume was the source of impacts detected in production wells at depths of over 225 bgs in the 1980s.

A 2006 memorandum to the site closure committee stated that in 1986, a spill of chlorinated solvents occurred in a drum storage area, thought to be west of Building 28, southwest of the subject property. In 1987 and 1988, approximately 110 cubic yards of contaminated soil was excavated and treated on site. No data from the remedial action was included in the site file. Sigma reviewed an excavation photo included in the site file. Based on aerial photographs and site maps from the 1980s, the excavation was most likely to the west of Building 43, directly west of the subject property. Considering the general southerly direction of groundwater flow on the subject property and the relative locations of the two identified areas of groundwater impacts, it is unlikely that spill of chlorinated solvents was the source of those impacts.

A review of the site file indicates that at least three sources of chlorinated compounds are likely to have impacted the subject property. Selections from the site file, including production well data and the 2006 memorandum, are included as **Appendix G**.

- The Freight Elevator #43 Hydraulic Oil Release site (no assigned number) was an environmental response site located on the subject property. A Request for No Further Action report prepared by BT<sup>2</sup> was included in the site file for the Oscar Mayer Lift site ERP case (BRRTS #02-13-221826), discussed below. No correspondence from the WDNR concerning the Freight Elevator #43 site was identified, so it is unclear if the WDNR recommended any additional actions. According to the Request for No Further Action, submitted to the WDNR on March 3, 1999, the freight elevator in Building 43 malfunctioned on October 22, 1998, resulting in a release of 140 gallons of hydraulic oil. Approximately 64 gallons of the hydraulic oil was recovered, and the elevator system was replaced. No further remedial actions were discussed. A copy of the Request for No Further Action report is included as **Appendix H**.

The following ERP sites were identified on the 910 Oscar Ave parcel; however, based on the available information, are not located on the subject property itself. These sites may have negatively impacted the subject property:

- The Oscar Mayer Former Filling Station East site (BRRTS #02-13-580722) is an open ERP site located in the east-central section of the 910 Oscar Ave parcel. The ERP case was opened in 2017 to address soil and groundwater contamination discovered in the vicinity of three former filling stations, which were razed around 1968. The northernmost filling station was located directly south of the southeast corner of the subject property. While no records of UST removals were identified, ERM did not find evidence indicating that the USTs were still present. Contaminants of concern include VOCs, PAHs and lead. As of October 2018, when a SIWP was submitted to the WDNR by ERM, the extent of groundwater impacts had not yet been delineated; however, impacts were identified within 50 feet of the subject property. A copy of the SIWP is included as **Appendix I**.

The following ERP sites were identified on the 910 Mayer Ave parcel; however, based on the available information, are not located on the subject property itself and are not expected to negatively impact the subject property:

- The Former 1,2-DCA Tank South site (BRRTS #02-13-580721) is an open ERP site located in the southeast section of the 910 Oscar Ave parcel. The ERP case was opened in 2017 to address soil and groundwater contamination discovered in the vicinity of two former 6,300-gallon ethylene dichloride ASTs. Contaminants of concern include CVOCs, PAHs, arsenic and lead. Based on data in the Remedial Action Options Report submitted to the WDNR by ERM in March 2020, impacts from this site are not expected to impact the subject property.
- The Oscar Mayer Lift site (BRRTS #02-13-221826) is a closed ERP site located on the 910 Oscar Ave parcel. The ERP case was opened in 1999 to address impacts associated with an abandoned 250-gallon UST and closed after two months, with no continuing obligations. The UST was located roughly 500 feet south of the subject property, on the opposite side of the main facility building. According to the tank closure assessment, prepared by Woodward-Clyde Consultants in December 1992, Oscar Mayer representatives knew of "no other tanks, past or present, in the vicinity of the tank" which was removed.

Additionally, 12 ERP sites were identified within a 0.5-mile radius of the subject property. Based on the relative distance between the reported sites and the subject property and/or the closed status, the ERP sites are not expected to impact the subject property, with the exceptions of the following, which are depicted in **Figure 3** and **Figure 4**:

- The Madison Metro North Transfer Point site (BRRTS #02-13-524010) is a closed ERP site with continuing obligations located at 1201 Huxley Street, adjacent to the west of the subject property across the railroad right-of-way. The ERP case was opened in 2004 to address impacts from four 10,000-gallon fuel oil USTs and eight 10,000-gallon fuel oil ASTs. According to the continuing obligations packet, contaminants of concern included benzene, toluene, ethyl benzene and xylenes, as well as select PAHs. Soil and groundwater samples collected in 2004 and 2005 indicated that soil and groundwater extended into the railroad right-of-way. While groundwater samples collected from one monitoring well on the subject property did not contain any exceedances, impacts may extend onto the subject property. The ERP case was closed in 2006, with residual soil and groundwater contamination. A copy of the continuing obligations packet is included as **Appendix J**.
- The Burke Wastewater Treatment Plant site (BRRTS #02-13-315773) is an open ERP site located at 1401 Packers Ave, northeast of the subject property across the intersection of Packers Ave and Aberg Avenue. According to site documents, the Burke Wastewater Treatment Plant operated on this site from 1914 to 1936 and 1942 to 1978. Prior to 1950, the plant was a public utility and received domestic sewage. After 1950, the plant was operated by Oscar Mayer and treated wastewater from the Oscar Mayer plant. Oscar Mayer constructed a series of sludge lagoons in the northeast section of the site and also used the site for landfilling of ash from coal combustion and waste products (hair and toenails) from the meat processing plant. In 1981, the site was sold to Reynolds Transfer and Storage Co. In the 1980s and 1990s, the lagoons were filled in and buried. The site is bordered to the north by the former Truax Field Landfill, which was used by the City of Madison and the U.S. Army from 1942 to 1972.

In March 2002, REA advanced soil borings and installed groundwater monitoring wells on the ERP site. Soil and groundwater samples were collected from the southwest section of the site, near the historical sludge drying beds. Soil samples from the southwest section of the site contained concentrations of arsenic and cadmium which were greater than their respective groundwater pathway RCLs and background threshold values (BTVs). The arsenic concentration was also greater than the direct contact RCL. Chromium and lead were present in groundwater samples collected from the southwest section of the site at concentrations greater than their respective ESs.

In August 2019, soil and groundwater samples from the Burke Wastewater Treatment Plant site were tested for the presence of PFAS. One or more PFAS constituents was detected in each sample. At the time of this report's publication, Wisconsin does not have final groundwater standards for PFAS constituents; however, the groundwater sample collected closest to the subject property (TW-4, located roughly 650 feet east northeast of the subject property) contained a combined concentration of PFOS and PFOA of 23.7 ng/L, which is greater than the proposed groundwater ES of 20 ng/L. The Amended SIWP for the site, submitted to

the WDNR in December 2018 by Seymour Environmental Services Inc., indicates that groundwater flow on the ERP site is to the southwest.

It should be noted that, based on a review of aerial photographs, Burke Wastewater Treatment Plant operations likely extended onto the eastern edge of the subject property until the re-alignment of Packers Avenue in the mid-1960s. A roughly 6,000 square-foot section of the subject property, which was then east of Packers Ave, is depicted as disturbed land in the 1955 aerial photograph. A copy of the SIWP and 2019 groundwater monitoring results are included as **Appendix K**.

#### 4.2.2 Lists of Registered Aboveground Storage Tanks

The list of registered ASTs is compiled by the State of Wisconsin and contains information on the site name, location, and number of tanks. EDR identified the Oscar Mayer property in the AST database with a 550-gallon unleaded gasoline AST, a 2,000-gallon diesel AST, a 500-gallon waste/used oil UST, a 150-000-gallon fuel oil AST, and a 250-000-gallon fuel oil AST. All of the ASTs have been removed. Based on aerial photographs and fire department records discussed in Section 6.2.3 of this report, none of these ASTs were located on the subject property. Based on site files discussed in Section 4.2.1 and/or 4.1.8 of this report, the ASTs are not expected to impact the subject property.

Two 878-gallon waste/used oil ASTs are registered to Chet's Car Care Center, located at 2020 Aberg Ave, directly north of the subject property across Aberg Avenue.

#### 4.2.3 Local Land Records

The Dane County Assessor's office was used to verify current recorded ownership information on the subject property. 910 Mayer LLC, a partnership between Rabin Worldwide and Reich Brothers, owns the subject property.

#### 4.2.4 Emergency Release Reports

The WDNR spills inventory was checked by EDR. EDR identified the 910 Oscar Ave parcel, which includes the subject property, in the Wisconsin Spills database with the following releases:

- BRRTS #04-13-039771: In 1984, a release of 50 gallons of PCB-containing mineral oil occurred during the replacement of a transformer. The release was contained and recovered using absorbent.
- BRRTS #04-13-041208: In 1986, the sewer plugged, resulting in a release of up to 1,000 gallons of wastewater.
- BRRTS #04-13-049014: In 1993, a mechanical failure in Building 23 resulted in a release of 40 gallons of antifreeze. The release was cleaned up using absorbent and a vacuum; however, some of the antifreeze likely entered the storm sewer.
- BRRTS #04-13-048202: In 1993, a break in a pipe under the sidewalk resulted in a release of 30 gallons of antifreeze. The spill was cleaned up using absorbent.
- BRRTS #04-13-528788: In 1993, a fire or explosion on an overheated motor in the engine/compressor room resulted in a release of 20,000 pounds of ammonia.
- BRRTS #04-13-049245: In 1994, a tank froze, resulting in a release of three gallons of hydraulic oil. The oil landed on snow, which was removed. The remaining oil was cleaned up using absorbent.
- BRRTS #04-13-050780: In 1995, a break in a discharge line resulted in a release of an unknown amount of engine waste oil into the storm sewer.

- BRRTS #04-13-051030: In 1995, a break in a hose resulted in a release of one gallon of petroleum. The spill was cleaned up using absorbent, but at least some of it entered the storm sewer.
- BRRTS #04-13-051042: In 1995, a mechanical failure resulted in a release of 30 gallons of antifreeze. The spill was cleaned up using absorbent, but at least some of it entered the sanitary sewer.
- BRRTS #04-13-212337: In 1995, a leaking pipe on the 2<sup>nd</sup> floor of Building 19 resulted in a release of 22 pounds of freon gas. The pipe was subsequently repaired.
- BRRTS #04-13-181521: In 1998, a leak in a pipe resulted in a release of 100 pounds of ammonia.
- BRRTS #04-13-227692: In 1998, a cylinder on an elevator broke, resulting in a release of 75 gallons of hydraulic oil. An environmental contractor was hired.
- BRRTS #04-13-227043: In 1998, a cylinder on an elevator broke, resulting in a release of 75 gallons of hydraulic oil. An environmental contractor was hired.
- BRRTS #04-13-229872: In 1998, a plug in a line resulted in a release of 1,000 gallons of cooling water into the storm sewer.
- BRRTS #04-13-236542: In 1999, a pressure relief valve opened, releasing 440 pounds of ammonia.
- BRRTS #04-13-217917: In 1999, a leaking coil released 20 pounds of ammonia.
- BRRTS #04-13-241160: In 1999, a release of 12 gallons of sulfuric acid occurred.
- BRRTS #04-13-230696: In 1999, a pipeline ruptured, releasing an unknown quantity of ammonia.
- BRRTS #04-13-245306: In 1999, backpressure during the filling of a UST resulted in a release of 12 gallons of petroleum. Sorbent pads were used to clean up the release.
- BRRTS #04-13-248087: In 2000, a cut line resulted in a release of an unknown amount of ammonia.
- BRRTS #04-13-248176: In 2000, an electrical problem resulted in a release of 110 pounds of ammonia.
- BRRTS #04-13-264296: In 2000, a stoppage in the sewer drain resulted in a release of 475 gallons of sewage.
- BRRTS #04-13-271132: In 2000, a faulty component resulted in a release of 100 pounds of ammonia.
- BRRTS #04-13-270923: In 2000, a broken flange resulted in a release of 35 gallons of sodium hydroxide solution.
- BRRTS #04-13-262939: In 2001, a broken line resulted in a release of 100 pounds of ammonia.
- BRRTS #04-13-385350: In 2001, a worker error resulted in a release of an unknown amount of ammonia.
- BRRTS #04-13-391430: In 2002, a pressure gauge failed, resulting in a release of an unknown amount of ammonia.
- BRRTS #04-13-529546: In 2004, a mechanical failure resulted in a release of 190 pounds of ammonia.
- BRRTS #04-13-529401: In 2004, a gasket on a 250,000-gallon reservoir failed, resulting in a release of 8,000 gallons of bleach (chlorinated water).
- BRRTS #04-13-548071: In 2006, a pump failure resulted in a release of 10 gallons of non-hazardous wastewater. The spill was contained and cleaned up.

- BRRTS #04-13-548811: In 2007, planned maintenance revealed a release of 100 pounds of ammonia.
- BRRTS #04-13-551001: In 2008, a sump pump in the wastewater treatment plant failed, resulting in a release of an unknown amount of wastewater.
- BRRTS #04-13-551699: In 2008, a mechanical failure resulted in a release of 68 pounds of ammonia.
- BRRTS #04-13-553120: In 2008, an operator error resulted in a release of 10 pounds of ammonia.
- BRRTS #04-13-555058: In 2010, a release of 1,500 gallons of Quad X 100, a cleaning solution containing 40% sodium hydroxide, occurred during delivery. The wash basin was flushed and an environmental contractor was hired.
- BRRTS #04-13-557915: In 2012, an operator error resulted in a release of 343 pounds of ammonia.
- BRRTS #04-13-558448: In 2012, an unknown quantity of ammonia was released from an over-pressurized refrigeration system.
- BRRTS #04-13-560490: In 2013, a coolant overflow resulted in a release of 3,100 pounds of antifreeze.
- BRRTS #04-13-562776: In 2014, an operator error resulted in a release of 7,000 gallons of a saltwater solution. Some of the release was captured, and some of it entered the storm sewer.

Based on the location and/or nature of each release, the releases are not expected to impact the subject property, with the exception of the 1998 release of 75 gallons of hydraulic oil (BRRTS #04-13-227692/04-13-227043). This spill, discussed in greater detail in Section 4.2.1 of this report, may have impacted the subject property.

#### 4.2.5 RCRA Administration Action Tracking System (RAATS)

RAATS contains records based on the enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. EDR did not identify the subject property in the RAATS database.

#### 4.2.6 Hazardous Materials Incident Report System (HMIRS)

HMIRS contains a log of hazardous material spill incidents, which have been reported to the United States Department of Transportation. EDR identified the subject property in the HMIRS database.

#### 4.2.7 PCB Activity Database (PADS)

PADS identifies generators, transporters, commercial storers and/or brokers, and disposers of polychlorinated biphenyls (PCBs) who are required to notify the EPA of such activities. EDR did not identify the subject property in the PADS database.

#### 4.2.8 Facility Index System (FINDS)

The FINDS list contains facility information related to various environmental registrations and regulatory submissions performed by facilities including obtaining a hazardous waste generator number, annual reporting, etc. The 910 Oscar Ave parcel, which includes the subject property, was identified in the FINDS database as a Large Quantity Generator (generates 1,000 kg or more of hazardous waste in a calendar month) of ignitable and corrosive wastes, lead, mercury, TCE, and spent nonhalogenated solvents. A formal enforcement action was listed for the parcel.

The parcel was also identified as an Occupational Safety and Health Administration (OSHA) establishment, a Toxic Release Inventory (TRI) reporter, and a major source of air pollution.

#### 4.2.9 Toxic Release Inventory System (TRIS)

TRIS identifies facilities, which release toxic chemicals to the air, water, and land in “reportable quantities” under Title III of SARA. The subject property parcel was identified as a TRI reporter, with nitrate compounds, ethylene glycol, nitric acid, ammonia, ammonia nitrite, methanol, chlorine, phosphoric acid, hydrochloric acid, sulfuric acid, butyl benzyl phthalate, sodium hydroxide, and dichloromethane listed as hazardous substances which were historically released. According to the Form R for 1987, hazardous materials were disposed of via an on-site landfill, on-site land treatment, on-site surface impoundment, and on-site underground injection. Additional detail, including the quantity released through these methods, was not included in the form.

#### 4.2.10 Toxic Substance Control Act (TSCA)

TSCA identifies manufacturers or importers of chemical substances included on the TSCA Chemical Substance Inventory list. Reported sites of import may not be the site where the TSCA substance is actually manufactured, stored or processed. The subject property was not identified in the TSCA database.

#### 4.2.11 Historical Auto Stations

The EDR Historical Auto Stations list includes listings of potential gas station/filling station/service station establishments. EDR did not identify the subject property as a historical auto station site; however, three historical auto stations were identified within a 0.125-mile radius of the subject property. Based on the site status and/or location of the gas stations, they are not expected to negatively impact the subject property.

#### 4.2.12 Historical Cleaners

The EDR Historical Cleaners list includes potential dry cleaner sites. EDR did not identify the subject property as a potential dry cleaner site.

#### 4.2.13 National Pollution Discharge Elimination System (NPDES) Permit Listing

The NPDES database contains a listing of industrial facilities that have submitted an industrial storm water permit. The subject property was not identified in the NPDES database.

#### 4.2.14 Tier 2 Facility Listings (Tier 2)

The Tier 2 database includes listings of facilities which store or manufacture hazardous materials that submit an annual chemical inventory report. The 910 Oscar Ave parcel, which includes the subject property, was identified in the Tier 2 database for the on-site storage of ethylene glycol, nitric acid, nitrogen, carbon dioxide, lead acid batteries, sulfuric acid, diesel fuel, ammonia, petroleum hydrocarbons, ethylene vinyl acetate, vinylidene chloride/vinyl chloride copolymer, and sodium hydroxide.

#### 4.2.15 Wisconsin Asbestos (WI Asbestos)

The Wisconsin Asbestos database includes listings of facilities which store or manufacture hazardous materials that submit an annual chemical inventory report. The 910 Oscar Ave parcel, which includes the subject property, was identified in the WI Asbestos database for asbestos abatement projects completed in 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, and 2019.



#### 4.2.16 PFAS Contamination Site Location (PFAS)

The PFAS database includes listings of facilities identified in the Bureau for Remediation and Redevelopment Tracking System (BRRTS) database with PFAS contamination. The subject property was not identified in the PFAS database; however, one PFAS site was identified within a 0.50-mile radius of the subject property. The Reynolds Property is the site of the Burke Wastewater Treatment Plant ERP site (BRRTS #02-13-315773), discussed in Section 4.2.1 of this report and depicted in **Figure 4**.

#### 4.2.17 Solid & Hazardous Waste Information Management System (SHWIMS)

The SHWIMS database includes listings of facilities which generate, transport, store or dispose of solid and hazardous wastes. The 910 Oscar Ave parcel, which includes the subject property, was identified in the SHWIMS database as a solid waste transporter between 1989 and 1999, a solid waste refuse derived fuel storage site handling animal carcasses, garbage, and refuse between 1989 and 1994, an inactive waste registry site, and a proposed landfill.

#### 4.2.18 Orphan Summary

Orphan sites are sites with incomplete addresses that could not be plotted on the EDR Radius Map. EDR reported one orphan site in its Radius Map report. The orphan site had some address information available. Based on a review of available addresses, the site is not located at or adjacent to the subject property and is not expected to impact the subject property.

#### 4.2.19 Tier I Vapor Encroachment Screen

Sigma conducted a Tier I Vapor Encroachment Screen (VES) in general conformance with the *ASTM Standard 2600-10, Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions, dated June 1, 2010*.

The purpose of the Tier I VES is to conduct an initial screening to identify a potential vapor encroachment condition (VEC) in the area of concern (AOC). A VEC is defined as the presence or likely presence of chemical(s) of concern vapors in the subsurface of the subject property, caused by the release of vapors from contaminated soil or groundwater either on or near the subject property.

The Tier I VES is based on a review of regulatory databases, including but not limited to Federal, State, local, and tribal government records, as reported in the regulatory database report and based upon information obtained regarding historic and current use of the property. In addition, geographic location, distance, topography and hydrogeology, groundwater depth and flow information, local geology, and preferential migration pathways are reviewed and evaluated relative to the VES. Additionally, the Tier I VES was completed in general conformance with "Addressing Vapor Intrusion at Remediation & Redevelopment Sites Wisconsin" (RR-800) guidance published by the WDNR.

Potential VECs include confirmed vapor from residual soil contamination identified below Building 43, and potential vapor associated identified soil and groundwater contamination on the subject property. It should be noted that the Tier I Vapor Encroachment Screen is not a formal assessment of indoor air quality and did not include testing or sampling.

### **4.3 Physical Setting Sources**

#### 4.3.1 United States Geologic Survey Topographic Map

A United States Geological Survey (USGS) 7.5 Minute topographic map, designated as the Madison East, Wisconsin Quadrangle, was reviewed as part of this assessment (**Figure 1**). The subject property, which is located at an elevation of approximately 859 feet above mean sea level (MSL), is characterized by a relatively flat, level topography. The topography in the general vicinity of the subject property slopes toward the west southwest.

A review of historical topographic maps indicates that the subject property was an undeveloped wetland through at least 1906. By 1959, the subject property was developed with several rail spurs and buildings associated with the Oscar Mayer plant. The area to the east of the subject property is labeled "Sewage Disposal" in the 1959, 1969, 1974 and 1983 maps.

#### 4.3.2 Regional Geology and Hydrogeology

Sigma reviewed geologic information provided by EDR, which obtained information concerning the geology and hydrogeology beneath the subject property from the United States Department of Agriculture's (USDA) Soil Conservation Service (SCS).

The dominant soil in the area of the subject property is considered to be Virgil silty loam. Virgil silty loams are considered to be deep and moderately deep, somewhat poorly drained soils with moderate infiltration rates. They are not considered hydric.

Groundwater flow at the subject property is believed to be toward the south southwest; however, groundwater flow at a particular site is best determined using site-specific well data. Cultural influences, including high capacity wells, may affect shallow groundwater flow direction.

### **4.4 Historical Use Information on the Subject Property**

#### 4.4.1 Occupancy History

Originally a list of residents, city directories provide the names of residents or businesses and the type of business (if unclear) in a business index, a resident index and a street index. Available city directories, dating from 1960 to 2014, were reviewed in approximately five-year increments by Environmental Data Resources (EDR) for the subject property. The listed occupants of the subject property were the Oscar Mayer Co. and related entities (including the company credit union) in 1960, 1966, 1970, 1975, 1980, 1985, 1989, 1992, and 1995, and Kraft Foods and related entities in 2000, 2005, 2010, and 2014. Based on the history of releases associated with the Oscar Mayer Co. operations, the city directory review indicates that one or more RECs are likely associated with the subject property. A copy of the city directory report is included in **Appendix L**.

#### 4.4.2 Aerial Photographs

Sigma reviewed aerial photographs for the subject property. Available photographs, obtained from EDR, were dated 1937, 1949, 1955, 1962, 1968, 1976, 1980, 1986, 1993, 2000, 2006, 2010, 2013, and 2017. Based on the scale and general nature of the historical photographs, only major development or construction projects could be confirmed.

The 1937 photograph depicts the subject property as an undeveloped field with wooded areas on the north and south ends. A road runs from north to south in the eastern section of the subject property, with fields to the east of the road. A small building with a tall smokestack is depicted in the northeast corner of the subject property.

By the 1949 photograph, the Oscar Mayer plant has expanded onto the subject property. An access road is depicted in the middle of the property, and several railroad spurs are depicted in the north section of the subject property. Additionally, possible mounds are depicted in the northeast and south-central sections of the subject property.

In the 1955 photograph, a building is depicted in the southwest section of the subject property and the southern section of the parking lot is first depicted. A dark patch consistent with a bulk storage pile of coal or a related substance is depicted in the northeast section of the subject property. The building historically present in the northeast corner of the parcel has been razed.

In the 1962 photograph, the possible mound in the south-central section of the subject property has been replaced with a parking lot. The mound in the northeast section of the subject property is depicted as disturbed land with parking.

In the 1968 photograph, the main plant building has undergone a major expansion onto the subject property and parking along the eastern section of the subject property has expanded.

In the 1976 photograph, the subject property is depicted with the present-day plant buildings. A wellhouse is clearly depicted in the northwest corner of the subject property. Railcar storage and a set of four vertical aboveground storage tanks are depicted in the southern section of the subject property, between the two plant buildings. The majority of the area to the north of the buildings is depicted as parking lots and storage areas.

Besides building modifications/additions, significant changes are not depicted in the 1980 photograph. In the 1986 photograph, four additional vertical ASTs are depicted between the two buildings. Besides building modifications/additions, significant changes are not depicted in the 1993 photograph. In the 2000 photograph, the four older ASTs are no longer depicted. In the 2006 photograph, an outbuilding is depicted to the north of the western building. In the 2010 photograph, the four newer ASTs are no longer depicted. Besides building modifications/additions, significant changes are not depicted in the 2013 photograph. In the 2017 photograph, the subject property is depicted without outdoor storage, and the building to the north of the western building is gone.

Potential RECs identified in the aerial photograph review include the following:

- Aerial photographs produced between 1949 and 1968 depict bulk storage piles consistent with the storage of coal or a related substance, as well as disturbed land. Potential releases associated with the outdoor storage of coal and/or the burying of waste materials on the subject property may have impacted the subject property via soil, groundwater, and/or vapor.
- Aerial photographs produced between 1955 and 2017 depicted the subject property with one or more industrial buildings, while photographs produced between 1937 and 1980 depicted the subject property with several rail spurs. Historical releases associated with industrial operations and/or railroad activities may have impacted the subject property via soil, groundwater, or vapor.

Copies of the photographs are included in **Appendix M**.

#### 4.4.3 Certified Fire Insurance Maps

Sigma contacted EDR for available Certified Sanborn Fire Insurance maps depicting the subject property. Developed in the late 1800's, the maps were used until approximately the mid-1900s. EDR reported that Certified Sanborn Map coverage in the area of the subject property was available for 1942, 1950 and 1986.

The 1942 map depicts the subject property as generally vacant land. A road crosses the subject property, and two rail spurs originating to the northwest cross the subject property, with one running east and one running south. The eastern edge of the subject property is marked as part of a government reservation. A roughly 900 square-foot building with a detached chimney is depicted in the northeast corner of the subject property, which is described as being old and vacant.

In the 1950 map, a second southbound rail spur is depicted on the subject property. The building in the northeast corner has been expanded to roughly 2,600 square feet and is described as a concrete block factory. A skating rink is depicted on the eastern edge of the subject property.

In the 1986 map, neither the concrete block factory nor the skating rink is depicted. The northern section and eastern edge of the subject property are both depicted as parking lots. Two additions to the Oscar Mayer factory are depicted in the southern section of the subject property. The western addition is described as being constructed in 1971, while the eastern addition is described as being constructed in 1970.

Potential RECs identified on the subject property in the Sanborn map review include potential impacts associated with the manufacturing of concrete blocks on the subject property and potential impacts associated with the Oscar Mayer factory. A copy of the Certified Sanborn Map report is presented in **Appendix N**.

#### 4.4.4 Wisconsin Historical Society

Sigma reviewed historical photographs of the subject property available through the Wisconsin Historical Society website:

- A 1932 aerial view of the Oscar Mayer plant depicts the subject property as a field with wooded areas on the north and south ends. A small building with a multi-story smokestack is depicted in the northeast corner of the subject property.
- A 1942 aerial view of the Oscar Mayer plant depicts the subject property with a rail spur along the north end, which appears to terminate at the building in the northeast corner. Another rail spur runs south into the Oscar Mayer complex. A road running east-west across the central portion of the subject property is bracketed by earthen mounds on each side. The building with a smokestack is depicted in the northeast corner of the subject property, and a line of railcars is depicted adjacent to it.
- An undated aerial view of the Oscar Mayer plant depicts a 2-3 story building with an arched roof in the approximate location of the present-day Building 43 on the subject property. Based on the location, this photograph most likely depicts the building which immediately predated the present-day building.

### **4.5 Historical Use Information on Adjoining Properties**

#### 4.5.1 Occupancy History

Originally a list of residents, city directories provide the names of residents or businesses and the type of business (if unclear) in a business index, a resident index and a street index. Available city directories, dating from 1960 to 2014, were reviewed in approximately five-year increments by Environmental Data Resources (EDR) for the adjoining properties. Historical occupants on Roth Street, Commercial Ave, Mayer Ave, and Packers Ave in the vicinity of the subject property included residential, commercial, and industrial commercial facilities. Based on the relative distance between the historical occupants and the subject property, the lack of a reported release or closed status of a release, the city directory review did not indicate the presence of RECs on the adjoining properties, with the exception of the 1910 Roth Street property, which is adjacent to the subject property to the west. The 1910 Roth Street property was occupied by C. E. & P.A. Roth Inc., a coal dealer, in 1960, 1966 and 1970. See Section 4.2.1 for further details. A copy of the city directory report is included in **Appendix L**.

#### 4.5.2 Aerial Photographs

Sigma reviewed aerial photographs for the adjoining properties. Available photographs, obtained from EDR, were dated 1937, 1949, 1955, 1962, 1968, 1976, 1980, 1986, 1993, 2000, 2006, 2010, 2013, and 2017. Based on the scale and general nature of the historical photographs, only major development or construction projects could be confirmed.

A review of the photographs indicated that the subject property is located in an area of Madison that was historically comprised of a mix of industrial and agricultural land. The 1937 photograph depicts the subject property adjoined by Aberg Avenue then a farmstead and farm fields to the north, an industrial complex consistent with a wastewater treatment plant, disturbed land, and agricultural fields to the east, the Oscar Mayer complex to the south, and an industrial complex with several ASTs and agricultural fields to the west.

In the 1949 photograph, the fields to the north of the subject property have been converted to residential developments. A building consistent with the skating rink described in the 1950 Sanborn map is depicted to the east of the subject property, south of the treatment plant. The industrial complexes to the south and west of the subject property have expanded. The area to the west of the subject property is depicted as disturbed land.

In the 1955 photograph, the residential development to the southeast of the subject property has expanded to the north. In the 1962 photograph, additional parking lots are depicted to the east and west of the subject property. In the 1968 photograph, Packers Ave has been moved to the east, forming the eastern boundary of the subject property. The disturbed land to the west of the subject property has expanded. In the 1976 photograph, most of the buildings in the industrial complex to the west of the subject property have been removed and replaced with parking. Besides building modifications/additions, significant changes are not depicted on adjoining properties in the 1980 photograph. In the 1986 photograph, a set of warehouses is depicted to the west of the north end of the subject property and the ASTs associated with the complex to the west of the subject property are gone. In the 1993 photograph, a commercial building is depicted to the north of the subject property across Aberg Ave and the wastewater treatment plant to the east of the subject property has been razed. In the 2000 photograph, a set of baseball fields is depicted to the east of the subject property across Packers Ave. Besides building modifications/additions, no significant changes are depicted on adjoining properties in the 2006 photograph. In the 2010 photograph, the former industrial complex to the west of the subject property has been replaced with a field.

With the exception of building additions/modifications, no significant changes are depicted to the adjoining properties in the remaining photographs. Potential RECs identified on adjoining properties during the aerial photograph review include:

- An industrial complex with eight or more vertical ASTs was present to the west of the subject property from sometime before 1937 through sometime between 1980 and 1986. Potential releases associated with the AST system may have impacted the subject property via soil or groundwater.
- A wastewater treatment plant with land disturbance activities was depicted to the northeast of the subject property in the 1937 through 1986 photographs. Potential releases associated with land spreading or landfilling of sludge solids may have impacted the subject property via groundwater.
- The Oscar Mayer complex was depicted to the south of the subject property in each photograph reviewed. Potential releases associated with operations to the south of the subject property may have impacted the subject property.

The potential RECs discussed above are outlined in **Figure 4**. Copies of the photographs are included in **Appendix M**.

#### 4.5.3 Certified Fire Insurance Maps

Sigma contacted EDR for available Certified Sanborn Fire Insurance maps depicting the adjoining properties. Developed in the late 1800's, the maps were used until approximately the mid-1900s. EDR reported that Certified Sanborn Map coverage in the area of the subject property was available for 1942, 1950, and 1986.

The 1942 map depicts the subject property as adjoined to the north by an unmapped area, to the east by a US Government Reservation and residences, to the south by the Oscar Mayer plant, and to the west by a railroad right-of-way then the C.E. & P.A. Roth Coal & Fuel Co. The section of the Oscar Mayer plant closest to the subject property includes cold storage and a smoke house. The C.E. & P.A. Roth Coal & Fuel Co. site includes a roughly 8,000 square-foot coal shed, 11 30-foot-high concrete coal tanks, and six fuel oil tanks with a pumphouse.

In the 1950 map, the Oscar Mayer plant has expanded to the north, with curing coolers and loading docks on the north end. The subject property is adjoined to the north by Aberg Ave then residences.

In the 1986 map, the Oscar Mayer plant has expanded onto the subject property, with several buildings directly south of the subject property. The former C.E. & P.A. Roth Coal & Fuel Co. site has been converted to a concrete mixing facility, with eight fuel oil tanks. A series of warehouses is depicted to the north of the concrete mixing facility.

Potential RECs identified on adjoining properties include:

- The C.E. & P.A. Roth Coal & Fuel Co. was depicted to the west of the subject property in each Sanborn map reviewed, with up to eight fuel oil tanks. Potential releases from the fuel oil system may have impacted the subject property via groundwater.
- In the 1950 and 1986 maps, the southern section of the Oscar Mayer plant extends to the subject property. Historical releases from the Oscar Mayer plant may have impacted the subject property via soil, groundwater, or vapor.

The potential RECs discussed above are outlined in **Figure 4**. A copy of the Certified Sanborn Map report is presented in **Appendix N**.

## **5.0 SITE RECONNAISSANCE**

### **5.1 Methodology and Limiting Conditions**

On March 16, 2020 Sigma conducted a limited inspection of the subject property to examine the site for visual signs of contamination. Observations of the subject property were made of readily accessible and visually apparent areas. Where observations were limited, Sigma renders no opinion as to the presence of hazardous substances, wastes or contamination potential. Conditions at the time of the visit included cloudy skies with temperatures in the 30s (°F). Site information was provided by Mr. Josh Connors, the on-site manager. Mr. Connors was previously an employee of Oscar Mayer and has 25 years of experience with the site.

At the time of this assessment, the subject property was improved with several buildings:

- Building 43 is an approximately 57,240 square-foot warehouse/manufacturing building constructed in 1969-1971. The eastern section of Building 43 has two stories, while the western section is a one-story, high bay warehouse. Mr. Conners stated that Building 43 was utilized for spice mixing, plastic extrusion/forming, and warehousing. Mr. Conners also stated that the building historically included a maintenance shop on the 2<sup>nd</sup> floor.
- Building 50 is an approximately 79,925 square-foot, one-story warehouse/manufacturing building constructed in 1963. Mr. Conners stated that Building 50 was historically utilized for square meat and hotdog processing, plastic wrapping material production, and warehousing. Mr. Conners also stated that the building historically included a maintenance shop.
- The brine building is a roughly 500-square foot building constructed sometime between 1968 and 1976.
- The wellhouse is a roughly 500 square-foot building constructed sometime between 1968 and 1976 (the well was reportedly abandoned in 2004).

At the time of the site visit, all production equipment had been removed from the subject property buildings. Floor and wall penetrations from piping, wiring, and equipment footings were observed throughout the buildings.

Since development, the subject property has been occupied by Oscar Mayer and Kraft Foods, which utilized the subject property for meat processing and distribution. The property has been unoccupied since the meat processing facility closed in 2017. Photographs of the subject property are included in **Appendix O**.

## **5.2 Observations**

5.2.1 Hazardous Substances and Petroleum Products in Connection with Identified Uses  
Not observed.

### 5.2.2 Storage Tanks and Drums

An emergency generator with a 500-gallon diesel belly tank was observed to the east of Building 50. The generator appeared to be in good condition and no staining was observed near the generator.

Two large storage tanks were observed in the brine building. Based on building signage, the tanks were utilized for the bulk receipt and preparation of brine, corn syrup, and potassium lactate.

Mr. Conners indicated the former locations of chloride and demineralizer tanks in Building 50 and liquid flavoring tanks (including propylene glycol and food-grade oils) in Building 43. Significant staining was not observed near the former tank sites.

Sigma observed the former sites of several storage tanks in the outdoor area between Building 43 and Building 50. Significant staining was not observed on the former tank sites.



Sigma observed a former oil room in the section of the Oscar Mayer plant located directly south of the subject property. The floor of the room was heavily stained, including the area around a floor drain.

Evidence of USTs was not observed.

#### 5.2.3 Odors, Pools of Liquids, Stained Soil or Pavement, Stressed Vegetation

A pile of soil and concrete rubble covering a roughly 2,000 square-foot area was observed to the north of Building 43. Mr. Conners stated that the pile was originally used to store material from the demolition of a mezzanine in Building 43, but that others had added to it since then. The southern section of the pile included a black sand.

#### 5.2.4 Hazardous Substances and Petroleum Products Not Necessarily Used in Connection with Identified Uses

A set of around one dozen small containers ranging in size from one to five gallons was observed in the north section of Building 50. Based on the location of the containers, their apparent age, and the variety of sizes, this was likely a staging area for small containers from the decommissioning of the building. The container labels indicated that the chemicals consisted of cleaners, sanitizers, and coatings. One of the containers appeared to be leaking and the concrete around the containers was wet. The containers were not located near floor drains, doors or pervious surfaces and the wet area was limited in extent.

#### 5.2.5 Unidentified Substance Containers

Not observed.

#### 5.2.6 Polychlorinated Biphenyls (PCBs)

Not observed. Multiple transformers, a substation, and a hydraulic elevator were observed on the subject property, but none of these were marked with signage indicating the presence of PCBs.

#### 5.2.7 Wastewater Pits, Ponds or Lagoons

Pits, ponds or lagoons associated with wastewater treatment were not observed.

#### 5.2.8 Wastewater

All sanitary wastewater from the subject property is discharged to the Madison Metropolitan Sewerage District (MMSD). Industrial wastewater is not generated at the property. Historically, process wastewater from the subject property was treated at the Oscar Mayer treatment works, on the south end of the 910 Oscar Ave parcel. Prior to the construction of the treatment works, wastewater was handled at the Burke treatment works, which was historically located to the east of the subject property across Packers Ave.

#### 5.2.9 Solid Waste

With the exception of general refuse and recyclable waste metals, solid waste was not observed.

#### 5.2.10 Heating

The building utilizes natural gas as a heat source.

#### 5.2.11 Emergency Generators

An emergency generator with a 500-gallon diesel belly tank was observed to the east of Building 50. The generator appeared to be in good condition and no staining was observed near the generator.

#### 5.2.12 Interior Stains or Corrosion

The floors of former production areas in Building 43 and Building 50 were stained from use. Recent oil stains with absorbent were observed in the northern section of Building 50. Mr. Connors stated that the staining was from contractors involved in the decommissioning of the production areas. Overall, the staining appeared to be deminimis in nature and extent.

#### 5.2.13 Drains or Sumps

Floor drains were observed throughout Building 43 and Building 50. Sump pumps with pooled water were observed in both buildings. Significant staining was not observed near the drains or sump pumps. It should be noted that the sump pump in Building 43 was located in the same room as the dust collection system associated with the former spice production operation.

Additionally, from within the boundaries of the subject property, Sigma examined the adjoining properties for conditions that might indicate recognizable environmental conditions (RECs). Chet's Car Care, an auto repair shop, was observed to the north of the subject property across Aberg Ave.

## 6.0 INTERVIEWS

### 6.1 Interviews with Site Owners

See Section 3.5 of this report.

### 6.2 Interviews with Local Government Officials

#### 6.2.1 City of Madison Assessor's Office

Representatives from the City of Madison assessor's office with intimate historical knowledge of the subject property were not identified. In lieu of interviews, on March 25, 2020, Sigma reviewed available assessor records for the subject property on the City of Madison website.

Records of environmental significance for the subject property were not identified. Records of historical significance included the acreage of the 910 Oscar Ave parcel and the parcel ownership.

### 6.2.2 City of Madison Building Inspection Department

Representatives from the City of Madison building inspection department with intimate historical knowledge of the subject property were not identified. In lieu of interviews, on March 5, 2020, Sigma reviewed available building inspection permits for the 910 Oscar Ave property which were provided by the City of Madison. On March 16, 2020, Sigma reviewed additional building inspection records at the Madison municipal building. Based on the construction dates and building descriptions, the following records may have applied to the subject property:

- 2/7/1955: Permit for the north parking lot.
- 11/25/1958: Letter from the building inspector stating that the parking lot at approximately 1113 Packers Ave was not properly surfaced.
- 5/29/1963: Application to construct 230 x 281 ft warehouse (Building 50)
- 1/27/1964: Electrical permit application noting that Oscar Mayer Co. was considered the owner of facilities located at the Burke Sewage Plant.
- 11/11/1969: Application to wreck a frame ice building (no street occupancy)
- 11/17/1969: Letter from the state Department of Industry, Labor, and Human Relations granting approval for the construction of a spice and plastics building.
- 12/28/1969: Application to construct a 240 x 140 ft spice and plastics building.
- 12/9/1974: building permit application for a 60 x 40 ft addition to the spice office and laboratory.
- 1/30/1991: Building permit application for an addition to the warehouse/loading dock – a note on the application indicates that the construction was adjacent to a solid waste landfill.

Records of historical significance include the original building permits for Buildings 43 and 50, as well as an application for an addition to Building 43.

Records of environmental significance include a record indicating that the Oscar Mayer Co. owned the Burke treatment works in 1964 and a 1958 permit indicating that the subject property parking lot was not properly surfaced when initially constructed. Additionally, construction records for Building 43 indicated that the building was used for plastics. A 1991 record which may have applied to the subject property indicated that a solid waste landfill may be present on the subject property.

### 6.2.3 Department of Revenue Manufacturing & Utility Bureau

The Department of Revenue Manufacturing & Utility Bureau (DOR) oversees assessments for industrial properties in Wisconsin. Representatives from the DOR with intimate historical knowledge of the subject property were not identified. In lieu of interviews, on March 3, 2020, Sigma requested the manufacturing property record card for the subject property from the DOR. On March 26, 2020, the DOR released the property card.

Listed permits from 2009 through 2019 mainly consisted of roof repairs. The property card stated that both main subject property buildings were primarily used for cold storage, that Building 50 had a footprint of 79,670 square feet and was constructed in 1963, and that Building 43 had a footprint of 57,120 square feet and was constructed in 1969. The smaller buildings present on the subject property were not included in the record.

#### 6.2.4 City of Madison Fire Department

Representatives from the City of Madison Fire Department with intimate historical knowledge of the subject property were not identified. In lieu of interviews, on March 13, 2020, Sigma requested available fire department records for the subject property. On March 19, the fire department provided tank records for the 910 Oscar Ave property, which includes the subject property:

- A December 18, 1986 record indicating that a 10,000-gallon UST had been removed.
- A December 5, 2002 installation application for six 1,500-gallon diesel ASTs for one or more backup generators. A set of conditionally approved plans indicated that the ASTs were planned to be installed roughly 750 feet south of the subject property.
- A July 9, 2004 storage tank registration formally closing a 500-gallon waste oil AST.
- A June 15, 2005 inspection report, with no violations noted, which listed the following tanks on the 910 Mayer Ave property:
  - A 150,000 fuel oil AST
  - A 550-gallon unleaded gasoline AST
  - A 12,000-gallon diesel UST
  - Six 1,500-gallon diesel ASTs, owned by MGE, used for emergencies.
- A November 10, 2014 closure assessment report for a 12,000-gallon diesel UST. The UST and associated piping were removed at the time of closure. The Madison Fire Department inspected the work and General Engineering of Portage, WI, was contracted to assess the excavation for soil contamination. The UST was located roughly 1,000 feet to the south of the subject property,
- A 2014 scope of work for the installation of a 2,000-gallon diesel AST indicated that the proposed 2,000-gallon AST and existing 550-gallon gasoline AST would both be located roughly 1,200 feet south of the subject property.
- A March 24, 2016 inspection of site tanks which found no violations. According to the inspection notes, a 12,000-gallon diesel UST had been removed prior to the inspection and a 550-gallon AST, installed in 1997, was inspected.
- The installation and closure registration for a 150,000-gallon fuel oil AST, installed in 1971 and registered and closed/removed in 2016. A site sketch indicated that the AST was located roughly 1,200 feet southwest of the subject property.
- The closure assessment report for a 550-gallon unleaded gasoline AST and a 2,000-gallon diesel AST, dated September 19, 2017.

On March 24, 2020, the City of Madison Fire Department provided eight incident reports for the 910 Oscar Ave property:

- On March 3, 2007, an electrical fire occurred on the fifth floor of a building. Based on the building height, the fire was not on the subject property.
- On May 27, 2008, an ammonia leak occurred on the eighth floor of a building. Based on the building height, the leak did not occur on the subject property.
- On September 27, 2009, regular maintenance on the Oscar Mayer property led to greater than usual exhaust chimney flaming. Based on the nature of the fire, it did not occur on the subject property.
- On October 18, 2009, a small electrical fire occurred near Elevator Shaft #3.

- On January 27, 2010, a chemical spill occurred at the loading dock “where chemicals are off loaded.” The chemical was identified as Quadexx 100. Based on the date and chemical of concern, this report corresponds to a reported spill discussed in Section 4.2.4 of this report and is not expected to impact the subject property.
- On November 8, 2011, relief valves on the compressor building opened, releasing ammonia. Based on the location, the release did not occur on the subject property.
- On April 21, 2013, a spill of 1,000 gallons of ethylene glycol occurred in the pretreatment facility on the Oscar Mayer factory. Based on the location of the spill, it did not occur on the subject property.
- On August 6, 2014, an Oscar Mayer employee accidentally mixed lactic acid and sodium nitrate in a drum. The drum was moved to a paved outdoor area and soda ash was added. None of the chemicals reached the sewer or permeable surfaces.

Based on the information provided in fire department records and other sections of this report, none of the USTs or ASTs were located on the subject property, and any impacts from the UST or AST systems are not expected to impact the subject property. Additionally, based on the nature and/or location of the fires and chemical spills described above, they are not expected to negatively impact the subject property.

## 7.0 FINDINGS

The subject property consists of a roughly 16.5-acre section of an approximately 49.52-acre parcel (Parcel # 081031301013), located at 910 Oscar Ave in the City of Madison, Dane County, Wisconsin. The subject property has also historically been listed as 910 Mayer Ave. At the time of this assessment, the subject property was improved with several buildings:

- Building 43 is an approximately 57,240 square-foot warehouse/manufacturing building constructed in 1969-1971. The eastern section of Building 43 has two stories, while the western section is a one-story, high bay warehouse. Building 43 was historically utilized for spice mixing, plastic extrusion/forming, and warehousing.
- Building 50 is an approximately 79,925 square-foot, one-story warehouse/manufacturing building constructed in 1963. Building 50 was historically utilized for meat processing, plastic wrapping material production, and warehousing.
- The brine building is a roughly 500-square foot building constructed sometime between 1968 and 1976. The brine building was historically used to prepare brines and other solutions.
- The wellhouse is a roughly 500 square-foot building constructed sometime between 1968 and 1976 (the well was reportedly abandoned in 2004).

Historically, the northeast corner of the subject property was improved with a roughly 900 square-foot concrete brick plant and associated smokestack, constructed sometime prior to 1937, expanded to roughly 2,600 square feet by 1950, and razed sometime between 1950 and 1962. A roughly 4,000 square-foot building (likely a cold storage building) was constructed on the site of Building 43 sometime between 1950 and 1955 and was razed in 1969. Prior to the construction of these buildings, the subject property was unimproved.

Since development, the subject property has been occupied by Oscar Mayer and Kraft Foods, which utilized the subject property for meat processing and distribution. The property has been unoccupied since the meat processing facility closed in 2017.

Fill materials were historically placed on the subject property. Topographic maps produced between 1890 and 1906 depict the subject property as a wetland. A geologic cross-section of the subject property produced by BT<sup>2</sup> in 2006 indicates that a layer of fill material extends to a depth of up to six feet bgs in the central section of the subject property, and peat is present below the fill material in some sections. A 2016 Phase I ESA report repeats a claim from a prior environmental report (likely produced in 1994) that fly ash was buried in the northern section of the subject property. Coal piles and land disturbances were depicted in the northern section of the subject property in aerial photographs produced between 1949 and 1968.

A search of the USEPA's Pesticide Product Information System (PPIS) revealed that Oscar Mayer & Co., located at 910 Mayer Ave, was a registered (Company Number 8514) manufacturer of three insecticides:

- Space Spray (USDA/EPA Registration Number 8514-2, no stock item number listed), an insecticide which was first registered in 1964 and accepted by the USEPA in 1967. The product label for Space Spray kept by the USEPA is largely illegible. No legible ingredient information was included.
- Pyrethrum Insecticide for Fogging (USDA/EPA Reg. No. 8514-3, Stock Item 91-0034), an insecticide which was first registered in 1964 and accepted by the USEPA in 1967. The product label states that it contained 0.3% pyrethrins, 1% technical piperonyl butoxide, and 98.7 petroleum distillate.
- Lethane Insecticide for Fogging (USDA/EPA Reg. No. 8514-4, Stock Item 91-036), an insecticide which was first registered in 1964 and accepted in 1968. The ingredient section of the product label is largely illegible. A product label for lethane produced by Rohm & Haas indicated that lethane contained 53% beta-butoxy beta-thiocyno diethyl ether and 47% petroleum distillate.

The manufacturing of all three insecticides was considered inactive as of May 1, 1987. Sigma also reviewed an online copy of the *List of Chemical Compounds Authorized for Use Under USDA Meat, Poultry, Rabbit, and Egg Products Inspection Programs*, prepared by the USDA and effective as of July 1, 1975. In addition to Space Spray, lethane and pyrethrum, the insecticide chlordane was authorized for use for Oscar Mayer. It is unclear if manufacturing of insecticides occurred on the subject property parcel or if the property address was listed as the company headquarters, with insecticide manufacturing occurring on another site.

A search of available environmental records was conducted by Environmental Data Resources Inc. (EDR). The 910 Oscar Ave parcel, which includes the subject property, was identified in the subject property was identified in the Resource Conservation and Recovery Act (RCRA), Emergency Response Notification System (ERNS), Leaking Underground Storage Tank (LUST), Underground Storage Tank (UST), Environmental Repair Program (ERP), Aboveground Storage Tank (AST), Wisconsin Spills, Facility Index System (FINDS), toxic Release Inventory System (TRIS), Tier 2, Wisconsin Asbestos, and Wisconsin Solid and Hazardous Waste Information System (SHWIMS) databases researched by EDR.

The 910 Oscar Ave parcel, which includes the subject property, was identified in the Tier 2 database for the on-site storage of ethylene glycol, nitric acid, nitrogen, carbon dioxide, lead acid batteries, sulfuric acid, diesel fuel, ammonia, petroleum hydrocarbons, ethylene vinyl acetate, vinylidene chloride/vinyl chloride copolymer, and sodium hydroxide.

EDR identified the 910 Oscar Ave parcel, which includes the subject property, in the RCRA and FINDS databases as an active Large Quantity Generator (generates 1,000 kg or more of hazardous waste during a calendar month) of ignitable and corrosive wastes, as well as waste lead, mercury, PCE, TCE, spent nonhalogenated solvents, and dichloromethane or methylene chloride, and byproduct salts generated in the production of MSMA and cacodylic acid. The facility has received notices of violations, including a formal enforcement action, which were subsequently corrected.

The subject property parcel was identified in the FINDS database as a TRI reporter, with nitrate compounds, ethylene glycol, nitric acid, ammonia, ammonia nitrite, methanol, chlorine, phosphoric acid, hydrochloric acid, sulfuric acid, butyl benzyl phthalate, sodium hydroxide, and dichloromethane listed as hazardous substances which were historically released. According to the Form R for 1987, hazardous materials were disposed of via an on-site landfill, on-site land treatment, on-site surface impoundment, and on-site underground injection. The quantity released through these methods was not included in the form.

The 910 Oscar Ave parcel, which includes the subject property, was identified in the SHWIMS database as a solid waste transporter between 1989 and 1999, a solid waste refuse derived fuel storage site handling animal carcasses, garbage, and refuse between 1989 and 1994, an inactive waste registry site, and a proposed landfill.

EDR identified the 910 Mayer St parcel, which includes the subject property, as a registered UST site, with a 250-gallon fuel oil UST, a 9,500-gallon unleaded gasoline UST, a 10,000 gallon leaded gasoline UST, a 10,000-gallon diesel UST, and a 12,000-gallon diesel UST historically located on the parcel. All of the USTs have been removed. Based on available LUST documents and fire department records, none of the USTs were located on the subject property.

EDR identified the Oscar Mayer property in the AST database with a 550-gallon unleaded gasoline AST, a 2,000-gallon diesel AST, a 500-gallon waste/used oil UST, a 150-000-gallon fuel oil AST, and a 250-000-gallon fuel oil AST. All of the ASTs have been removed. Based on aerial photographs and fire department records, none of these ASTs were located on the subject property.

EDR identified the 910 Oscar Ave parcel, which includes the subject property, as an ERNS site with 24 reported releases. Various operator errors and equipment failures resulted in 17 reported releases of up to 110 pounds of ammonia between 1993 and 2012. The other seven reported releases were as follows:

- In 1991, a release of ammonia, chlorine, methane arsenic acid, sodium salts and black phosphorus was reported.
- A 1993 equipment failure resulted in a release of 30 gallons of ethylene glycol.
- A 1993 equipment failure resulted in a release of 5 gallons of ethylene glycol.
- A 1993 equipment failure resulted in a release of an unknown amount of ethylene glycol.
- A 1995 break in a hose resulted in a release of 0.5 gallons of diesel fuel.
- A 1995 equipment failure resulted in a release of 15 gallons of hydraulic oil.
- A 2000 sanitary sewer backup resulted in a release of 20 gallons of sewage.

EDR identified the 910 Oscar Ave parcel, which includes the subject property, in the Wisconsin Spills database with the following releases:

- BRRTS #04-13-039771: In 1984, a release of 50 gallons of PCB-containing mineral oil occurred during the replacement of a transformer. The release was contained and recovered using absorbent.
- BRRTS #04-13-041208: In 1986, the sewer plugged, resulting in a release of up to 1,000 gallons of wastewater.
- BRRTS #04-13-049014: In 1993, a mechanical failure in Building 23 resulted in a release of 40 gallons of antifreeze. The release was cleaned up using absorbent and a vacuum; however, some of the antifreeze likely entered the storm sewer.
- BRRTS #04-13-048202: In 1993, a break in a pipe under the sidewalk resulted in a release of 30 gallons of antifreeze. The spill was cleaned up using absorbent.
- BRRTS #04-13-528788: In 1993, a fire or explosion on an overheated motor in the engine/compressor room resulted in a release of 20,000 pounds of ammonia.
- BRRTS #04-13-049245: In 1994, a tank froze, resulting in a release of three gallons of hydraulic oil. The oil landed on snow, which was removed. The remaining oil was cleaned up using absorbent.
- BRRTS #04-13-050780: In 1995, a break in a discharge line resulted in a release of an unknown amount of engine waste oil into the storm sewer.
- BRRTS #04-13-051030: In 1995, a break in a hose resulted in a release of one gallon of petroleum. The spill was cleaned up using absorbent, but at least some of it entered the storm sewer.
- BRRTS #04-13-051042: In 1995, a mechanical failure resulted in a release of 30 gallons of antifreeze. The spill was cleaned up using absorbent, but at least some of it entered the sanitary sewer.
- BRRTS #04-13-212337: In 1995, a leaking pipe on the 2<sup>nd</sup> floor of Building 19 resulted in a release of 22 pounds of freon gas. The pipe was subsequently repaired.
- BRRTS #04-13-181521: In 1998, a leak in a pipe resulted in a release of 100 pounds of ammonia.



- BRRTS #04-13-227692/04-13-227043: In 1998, a cylinder on an elevator broke, resulting in a reported release of 75 gallons of hydraulic oil. An environmental contractor was hired. Two identical BRRTS entries with different BRRTS numbers were generated. Based on the date and nature of the release, a Request for No Further Action report prepared by BT<sup>2</sup>, which was included in the site file for an unrelated ERP case, applied to this spill. No correspondence from the WDNR concerning the release was identified, so it is unclear if the WDNR recommended any additional actions. According to the Request for No Further Action, submitted to the WDNR on March 3, 1999, the freight elevator in Building 43 malfunctioned on October 22, 1998, resulting in a release of 140 gallons of hydraulic oil. Approximately 64 gallons of the hydraulic oil was recovered, and the elevator system was replaced. No further remedial actions were discussed. While the BRRTS entry states that the spill was transferred to an ERP case, the new case number (BRRTS #03-13-000053) refers to an unrelated LUST case.
- BRRTS #04-13-229872: In 1998, a plug in a line resulted in a release of 1,000 gallons of cooling water into the storm sewer.
- BRRTS #04-13-236542: In 1999, a pressure relief valve opened, releasing 440 pounds of ammonia.
- BRRTS #04-13-217917: In 1999, a leaking coil released 20 pounds of ammonia.
- BRRTS #04-13-241160: In 1999, a release of 12 gallons of sulfuric acid occurred.
- BRRTS #04-13-230696: In 1999, a pipeline ruptured, releasing an unknown quantity of ammonia.
- BRRTS #04-13-245306: In 1999, backpressure during the filling of a UST resulted in a release of 12 gallons of petroleum. Sorbent pads were used to clean up the release.
- BRRTS #04-13-248087: In 2000, a cut line resulted in a release of an unknown amount of ammonia.
- BRRTS #04-13-248176: In 2000, an electrical problem resulted in a release of 110 pounds of ammonia.
- BRRTS #04-13-264296: In 2000, a stoppage in the sewer drain resulted in a release of 475 gallons of sewage.
- BRRTS #04-13-271132: In 2000, a faulty component resulted in a release of 100 pounds of ammonia.
- BRRTS #04-13-270923: In 2000, a broken flange resulted in a release of 35 gallons of sodium hydroxide solution.
- BRRTS #04-13-262939: In 2001, a broken line resulted in a release of 100 pounds of ammonia.
- BRRTS #04-13-385350: In 2001, a worker error resulted in a release of an unknown amount of ammonia.
- BRRTS #04-13-391430: In 2002, a pressure gauge failed, resulting in a release of an unknown amount of ammonia.
- BRRTS #04-13-529546: In 2004, a mechanical failure resulted in a release of 190 pounds of ammonia.
- BRRTS #04-13-529401: In 2004, a gasket on a 250,000-gallon reservoir failed, resulting in a release of 8,000 gallons of bleach (chlorinated water).
- BRRTS #04-13-548071: In 2006, a pump failure resulted in a release of 10 gallons of non-hazardous wastewater. The spill was contained and cleaned up.
- BRRTS #04-13-548811: In 2007, planned maintenance revealed a release of 100 pounds of ammonia.

- BRRTS #04-13-551001: In 2008, a sump pump in the wastewater treatment plant failed, resulting in a release of an unknown amount of wastewater.
- BRRTS #04-13-551699: In 2008, a mechanical failure resulted in a release of 68 pounds of ammonia.
- BRRTS #04-13-553120: In 2008, an operator error resulted in a release of 10 pounds of ammonia.
- BRRTS #04-13-555058: In 2010, a release of 1,500 gallons of Quad X 100, a cleaning solution containing 40% sodium hydroxide, occurred during delivery. The wash basin was flushed, and an environmental contractor was hired.
- BRRTS #04-13-557915: In 2012, an operator error resulted in a release of 343 pounds of ammonia.
- BRRTS #04-13-558448: In 2012, an unknown quantity of ammonia was released from an over-pressurized refrigeration system.
- BRRTS #04-13-560490: In 2013, a coolant overflow resulted in a release of 3,100 pounds of antifreeze.
- BRRTS #04-13-562776: In 2014, an operator error resulted in a release of 7,000 gallons of a saltwater solution. Some of the release was captured, and some of it entered the storm sewer.

EDR identified the subject property as an ERP site:

- The Oscar Mayer Former Spice Room Building 43 site (BRRTS #02-13-580723) is an open ERP site located in the southeast corner of Building 43. The ERP case was opened in 2017 to address CVOCs detected in sub-slab gas samples collected in the vicinity of the former spice room. Concentrations of TCE in sub-slab vapor samples collected below Building 43 ranged from 2.7 to 66,800 ug/m<sup>3</sup>, exceeding WDNR sub-slab vapor criteria. In 2019, two rounds of groundwater samples were collected from wells located directly east, west, and south of the building and tested for VOCs. Results for constituents with one or more exceedances are summarized in the table below:

Constituent (all values in ug/L)	PAL	ES	SR-MW-14 (East of Building 43) 3-18 ft bgs		SR-MW-15 (West of Building 43) 5-20 ft bgs		SR-MW-16A (South of Building 43) 8-18 ft bgs		SR-MW-16B (South of Building 43) 39-49 ft bgs	
			May 2019	Aug. 2019	May 2019	Aug. 2019	May 2019	Aug. 2019	May 2019	Aug. 2019
Benzene	0.5	5	<0.25	<0.99	<0.25	<0.25	<0.25	<0.25	1.3	1.3
Cis-1,2-Dichloroethene	7	70	22.4	281	2.3	0.50	<0.27	0.60	44.7	82.3
1,2-Dichloroethane	0.5	5	<0.28	<1.1	<0.28	<0.28	<0.28	<0.28	21.2	50.6
Tetrachloroethene	0.5	5	<0.33	<1.3	11.5	8.7	<0.33	<0.33	<0.33	<0.33
Trichloroethene	0.5	5	<0.26	<1.0	1.1	0.61	0.95	2.2	0.66	0.70
Vinyl Chloride	0.02	0.2	51.3	68.6	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17

- The Oscar Mayer Inc. site (BRRS #02-13-000895) is a closed ERP site with continuing obligations, located in the central section of the subject property. According to the BRRS database, the ERP case was opened in 1984; however, no documents from the period between 1984 and 1993 were included in the site file. According to the July 2006 Closure Request submitted to the WDNR by BT<sup>2</sup>, the ERP case was opened to address chlorinated solvent impacts discovered in groundwater from production wells installed in the bedrock on the subject property. The report figures indicate that Production Well #5, located in the northwest corner of the subject property, extended to a depth of 400 feet bgs, with a well casing extending to a depth of 225 feet bgs. Quarterly groundwater samples from Production Well #5 collected between 1986 and 1993 indicated that TCE levels ranged from 1.37 to 5.64 ppb (ug/L), exceeding the ES of 5 ug/L, and PCE levels ranged from below detection level to 37.9 ppb (ug/L), exceeding the ES of 5 ug/L. Production well data from after 1993 was not included in the site file.

In 1994, CRA advanced soil borings and installed monitoring wells to depths of up to 56 feet bgs, which indicated that a plume of chlorinated substances (1,2-dichloroethene and vinyl chloride) was present. Groundwater samples collected by BT<sup>2</sup> between 1994 and 2005 indicated that impacts were generally limited to the central section of the subject property and concentrations generally followed a downward trend throughout the monitoring period. BT<sup>2</sup> concluded that the area of ES exceedance for vinyl chloride extended to between 50 and 60 feet bgs. The site was granted a conditional closure in 2006.

A 2006 memorandum to the site closure committee stated that in 1986, a spill of chlorinated solvents occurred in a drum storage area, thought to be west of Building 28, southwest of the subject property. In 1987 and 1988, approximately 110 cubic yards of contaminated soil was excavated and treated on site. No data from the remedial action was included in the site file. Sigma reviewed an excavation photo included in the site file. Based on aerial photographs and site maps from the 1980s, the excavation was most likely to the west of Building 43, directly west of the subject property.

The following ERP sites were identified on the 910 Mayer Ave parcel; however, based on the available information, are not located on the subject property itself:

- The Oscar Mayer Former Filling Station East site (BRRS #02-13-580722) is an open ERP site located in the east-central section of the 910 Mayer Ave parcel. The ERP case was opened in 2017 to address soil and groundwater contamination discovered in the vicinity of three former filling stations, which were razed around 1968. The northernmost filling station was located directly south of the southeast corner of the subject property. While no records of UST removals were identified, ERM did not find evidence indicating that the USTs were still present. Contaminants of concern include VOCs, PAHs and lead. As of October 2018, when a SIWP was submitted to the WDNR by ERM, the extent of groundwater impacts had not yet been delineated; however, impacts were identified within 50 feet of the subject property.

- The Former 1,2-DCA Tank South site (BRRTS #02-13-580721) is an open ERP site located in the southeast section of the 910 Oscar Ave parcel. The ERP case was opened in 2017 to address soil and groundwater contamination discovered in the vicinity of two former 6,300-gallon ethylene dichloride ASTs. Contaminants of concern include CVOCs, PAHs, arsenic and lead.
- The Oscar Mayer Lift site (BRRTS #02-13-221826) is a closed ERP site located on the 910 Oscar Ave parcel. The ERP case was opened in 1999 to address impacts associated with an abandoned 250-gallon UST and closed after two months, with no continuing obligations. The UST was located roughly 500 feet south of the subject property, on the opposite side of the main facility building. According to the tank closure assessment, prepared by Woodward-Clyde Consultants in December 1992, Oscar Mayer representatives knew of “no other tanks, past or present, in the vicinity of the tank” which was removed.

EDR identified several LUST sites on the 910 Mayer Ave parcel; however, based on the available information, the sites are not located on the subject property itself:

- The Oscar Mayer Site #3 (BRRTS #03-13-114831) is a closed LUST site with continuing obligations located in the southeast section of the 910 Mayer St parcel, roughly 900 feet to the south of the subject property. The LUST case was opened in 1996 to address impacts from a 10,000-gallon leaded gasoline UST, a 9,500-gallon unleaded gasoline UST, and a 10,000-gallon diesel UST. At the time of site closure in 2006, residual soil and groundwater contamination were present at the site.
- The Oscar Mayer Foods site (BRRTS #03-13-001744) is a closed LUST site located on the southeast side of the main Oscar Mayer building, to the south of the subject property. The LUST case was opened in 1992 to address contamination discovered during the removal of a UST. While the size of the UST was not stated in the site file, the dimensions of the initial excavation indicate that the UST had a capacity of 1,900 gallons or less. Some residual soil contamination was present at the time of closure in 1993.
- The Oscar Mayer site (BRRTS #03-13-000053) is a closed LUST site located at 2007 Roth Street, southwest of the subject property across the railroad right-of-way. The LUST case was opened in 1989 to address soil and groundwater impacts related to two fuel oil ASTs (likely with capacities of 150,000 and 250,000 gallons) and historical releases along the railroad right-of-way. One AST was removed prior to the site closure, while aerial photographs indicate that the other was present until sometime between 2014 and 2017. Soil and groundwater samples were tested for VOCs and PAHs. The site was closed in 2008 with continuing obligations. Residual soil and groundwater contamination are present, and impacts extend beyond the site.

The 910 Oscar Ave parcel, which includes the subject property, was identified in the WI Asbestos database for asbestos abatement projects completed in 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, and 2019.

The parcel was also identified in the FINDS database as an Occupational Safety and Health Administration (OSHA) establishment and a major source of air pollution.

In addition to the subject property, EDR identified several properties in the vicinity of the subject property in one or more of the environmental databases researched by EDR:

- Chet's Car Care Center, located at 2020 Aberg Ave, directly north of the subject property across Aberg Avenue, was identified in the RCRA database as a Very Small Quantity Generator (generates less than 100 kg of hazardous waste during a calendar month) of ignitable wastes and lead. Based on RCRA records, the facility has been in operation since circa 1991. The company website indicates that it opened in 1984. No violations were reported for the site. Two 878-gallon waste/used oil ASTs are registered to the site.
- The Madison Metro North Transfer Point site (BRRTS #02-13-524010) is a closed ERP site with continuing obligations located at 1201 Huxley Street, adjacent to the west of the subject property across the railroad right-of-way. The ERP case was opened in 2004 to address impacts from four 10,000-gallon fuel oil USTs and eight 10,000-gallon fuel oil ASTs. According to the continuing obligations packet, contaminants of concern included benzene, toluene, ethyl benzene and xylenes, as well as select PAHs. Soil and groundwater samples collected in 2004 and 2005 indicated that soil and groundwater extended into the railroad right-of-way. The ERP case was closed in 2006, with residual soil and groundwater contamination.
- The Burke Wastewater Treatment Plant site (BRRTS #02-13-315773) was identified in the ERP and PFAS databases as an open ERP site. The site is located at 1401 Packers Ave, northeast of the subject property across the intersection of Packers Ave and Aberg Avenue. According to site documents, the Burke Wastewater Treatment Plant operated on this site from 1914 to 1936 and 1942 to 1978. Prior to 1950, the plant was a public utility and received domestic sewage. After 1950, the plant was operated by Oscar Mayer and treated wastewater from the Oscar Mayer plant. Oscar Mayer constructed a series of sludge lagoons in the northeast section of the site and also used the site for landfilling of ash from coal combustion and waste products (hair and toenails) from the meat processing plant. In 1981, the site was sold to Reynolds Transfer and Storage Co. In the 1980s and 1990s, the lagoons were filled in and buried. The site is bordered to the north by the former Truax Field Landfill, which was used by the City of Madison and the U.S. Army from 1942 to 1972.

In March 2002, REA advanced soil borings and installed groundwater monitoring wells on the ERP site. Soil and groundwater samples were collected from the southwest section of the site, near the historical sludge drying beds. Soil samples from the southwest section of the site contained concentrations of arsenic and cadmium which were greater than their respective groundwater pathway RCLs and BTVs. The arsenic concentration was also greater than the direct contact RCL. Chromium and lead were present in groundwater samples collected from the southwest section of the site at concentrations greater than their respective ESs.

In August 2019, soil and groundwater samples from the Burke Wastewater Treatment Plant site were tested for the presence of PFAS. One or more PFAS constituents was detected in each sample. At the time of this report's publication, Wisconsin does not have final groundwater standards for PFAS constituents; however, the groundwater sample collected closest to the subject property (TW-4, located roughly 650 feet east northeast of the subject property) contained a combined concentration of PFOS and PFOA of 23.7 ng/L, which is greater than the proposed groundwater ES of 20 ng/L. The Amended SIWP for the site, submitted to the WDNR in December 2018 by Seymour Environmental Services Inc., indicates that groundwater flow on the ERP site is to the southwest.

It should be noted that, based on a review of aerial photographs, Burke Wastewater Treatment Plant operations likely extended onto the eastern edge of the subject property until the re-alignment of Packers Avenue in the mid-1960s. A roughly 6,000 square-foot section of the subject property, which was then east of Packers Ave, is depicted as disturbed land in the 1955 aerial photograph.

- EDR identified the Truax Field landfill, located on Aberg Avenue, to the northeast of the subject property, in the State Hazardous Waste Sites (SHWS) database. The landfill was added to the hazard ranking system list in 1994.

## 8.0 OPINIONS

Fill materials were historically placed on the subject property. Topographic maps produced between 1890 and 1906 depict the subject property as a wetland. A geologic cross-section of the subject property produced by BT<sup>2</sup> in 2006 indicates that a layer of fill material extends to a depth of up to six feet bgs in the central section of the subject property, and peat is present below the fill material in some sections. A 2016 Phase I ESA report repeats a claim from a prior environmental report (likely produced in 1994) that fly ash was buried in the northern section of the subject property. Coal piles and land disturbances were depicted in the northern section of the subject property in aerial photographs produced between 1949 and 1968. Considering the confirmed presence of fill material and the reported presence of buried fly ash on the subject property, fill materials may have impacted the subject property via soil, groundwater and/or vapor.

A search of the USEPA's Pesticide Product Information System (PPIS) revealed that Oscar Mayer & Co., located at 910 Mayer Ave, was a registered (Company Number 8514) manufacturer of three insecticides:

- Space Spray (USDA/EPA Registration Number 8514-2, no stock item number listed), an insecticide which was first registered in 1964 and accepted by the USEPA in 1967. The product label for Space Spray kept by the USEPA is largely illegible. No legible ingredient information was included.
- Pyrethrum Insecticide for Fogging (USDA/EPA Reg. No. 8514-3, Stock Item 91-0034), an insecticide which was first registered in 1964 and accepted by the USEPA in 1967. The product label states that it contained 0.3% pyrethrins, 1% technical piperonyl butoxide, and 98.7 petroleum distillate.
- Lethane Insecticide for Fogging (USDA/EPA Reg. No. 8514-4, Stock Item 91-036), an insecticide which was first registered in 1964 and accepted in 1968. The ingredient section of the product label is largely illegible. A product label for lethane produced by Rohm & Haas indicated that lethane contained 53% beta-butoxy beta-thiocyano diethyl ether and 47% petroleum distillate.

The manufacturing of all three insecticides was considered inactive as of May 1, 1987. Sigma also reviewed an online copy of the *List of Chemical Compounds Authorized for Use Under USDA Meat, Poultry, Rabbit, and Egg Products Inspection Programs*, prepared by the USDA and effective as of July 1, 1975. In addition to Space Spray, lethane and pyrethrum, the insecticide chlordane was authorized for use for Oscar Mayer. It should be noted that the Interstate Technology & Regulatory Council (ITRC) has included pesticides in its list of products which can contain PFAS. It is unclear if manufacturing of insecticides occurred on the subject property parcel or if the property address was listed as the company headquarters, with insecticide manufacturing occurring on another site. While it is unclear if insecticides were manufactured on the subject property or on the Oscar Mayer property as a whole; however, given the environmental persistence of chlordane, releases related to the manufacturing and/or usage of insecticides may have impacted the subject property via soil or groundwater.

A search of available environmental records was conducted by Environmental Data Resources Inc. (EDR). The 910 Oscar Ave parcel, which includes the subject property, was identified in the subject property was identified in the Resource Conservation and Recovery Act (RCRA), Emergency Response Notification System (ERNS), Leaking Underground Storage Tank (LUST), Underground Storage Tank (UST), Environmental Repair Program (ERP), Aboveground Storage Tank (AST), Wisconsin Spills, Facility Index System (FINDS), toxic Release Inventory System (TRIS), Tier 2, Wisconsin Asbestos, and Wisconsin Solid and Hazardous Waste Information System (SHWIMS) databases researched by EDR.

The 910 Oscar Ave parcel, which includes the subject property, was identified in the Tier 2 database for the on-site storage of ethylene glycol, nitric acid, nitrogen, carbon dioxide, lead acid batteries, sulfuric acid, diesel fuel, ammonia, petroleum hydrocarbons, ethylene vinyl acetate, vinylidene chloride/vinyl chloride copolymer, and sodium hydroxide.

EDR identified the 910 Oscar Ave parcel, which includes the subject property, in the RCRA and FINDS databases as an active Large Quantity Generator (generates 1,000 kg or more of hazardous waste during a calendar month) of ignitable and corrosive wastes, as well as waste lead, mercury, PCE, TCE, spent nonhalogenated solvents, and dichloromethane or methylene chloride, and byproduct salts generated in the production of MSMA and cacodylic acid. The facility has received notices of violations, including a formal enforcement action, which were subsequently corrected.

EDR identified the 910 Oscar Ave parcel in the FINDS database as a Toxic Release Inventory (TRI) reporter, with nitrate compounds, ethylene glycol, nitric acid, ammonia, ammonia nitrite, methanol, chlorine, phosphoric acid, hydrochloric acid, sulfuric acid, butyl benzyl phthalate, sodium hydroxide, and dichloromethane listed as hazardous substances which were historically released. According to the Form R for 1987, hazardous materials were disposed of via an on-site landfill, on-site land treatment, on-site surface impoundment, and on-site underground injection. Additional detail, including the quantity released through these methods, was not included in the form.

The 910 Oscar Ave parcel, which includes the subject property, was identified in the SHWIMS database as a solid waste transporter between 1989 and 1999, a solid waste refuse derived fuel storage site handling animal carcasses, garbage, and refuse between 1989 and 1994, an inactive waste registry site, and a proposed landfill.

Industrial activities on the 910 Oscar Ave parcel involved the storage of reportable quantities of petroleum products and hazardous materials including chlorinated compounds, and the generation and possible on-site disposal of solid and/or hazardous waste. Releases associated with the storage or disposal of these materials may have impacted the subject property via soil, groundwater, and/or vapor.

EDR identified the 910 Mayer St parcel, which includes the subject property, as a registered UST site, with a 250-gallon fuel oil UST, a 9,500-gallon unleaded gasoline UST, a 10,000 gallon leaded gasoline UST, a 10,000-gallon diesel UST, and a 12,000-gallon diesel UST historically located on the parcel. All of the USTs have been removed. Based on available LUST documents and fire department records, none of the USTs were located on the subject property, and they are not expected to negatively impact the subject property.

EDR identified the Oscar Mayer property in the AST database with a 550-gallon unleaded gasoline AST, a 2,000-gallon diesel AST, a 500-gallon waste/used oil UST, a 150-000-gallon fuel oil AST, and a 250-000-gallon fuel oil AST. All of the ASTs have been removed. Based on aerial photographs and fire department records, none of these ASTs were located on the subject property, and they are not expected to negatively impact the subject property.

EDR identified the 910 Oscar Ave parcel, which includes the subject property, as an ERNS site with 24 reported releases. Various operator errors and equipment failures resulted in 17 reported releases of up to 110 pounds of ammonia between 1993 and 2012. Based on the nature or size of the other seven reported releases, they are not expected to significantly impact the subject property.



EDR identified the 910 Oscar Ave parcel, which includes the subject property, in the Wisconsin Spills database with 38 documented releases. Based on the available information, the releases are either not expected to impact the subject property or would have a de minimis impact, with the exception of the Freight Elevator #43 Hydraulic Oil Release site (BRRTS #04-13-227692/04-13-227043). In 1998, a cylinder on an elevator broke, resulting in a reported release of 75 gallons of hydraulic oil. An environmental contractor was hired. Two identical BRRTS entries with different BRRTS numbers were generated. Based on the date and nature of the release, a Request for No Further Action report prepared by BT<sup>2</sup>, which was included in the site file for an unrelated ERP case, applied to this spill. No correspondence from the WDNR concerning the release was identified, so it is unclear if the WDNR recommended any additional actions. According to the Request for No Further Action, submitted to the WDNR on March 3, 1999, the freight elevator in Building 43 malfunctioned on October 22, 1998, resulting in a release of 140 gallons of hydraulic oil. Approximately 64 gallons of the hydraulic oil was recovered, and the elevator system was replaced. No further remedial actions were discussed. Approximately 75 gallons of hydraulic oil was left in place below Building 43, possibly impacting the subject property via soil or groundwater.

EDR identified the subject property as an ERP site:

- The Oscar Mayer Former Spice Room Building 43 site (BRRTS #02-13-580723) is an open ERP site located in the southeast corner of Building 43. The ERP case was opened in 2017 to address CVOCs detected in sub-slab gas samples collected in the vicinity of the former spice room. Concentrations of TCE in sub-slab vapor samples collected below Building 43 ranged from 2.7 to 66,800 ug/m<sup>3</sup>, exceeding WDNR sub-slab vapor criteria. In 2019, two rounds of groundwater samples were collected from wells located directly east, west, and south of the building and tested for VOCs. Results for constituents with one or more exceedances are summarized in the table below:

Constituent (all values in ug/L)	PAL	ES	SR-MW-14 (East of Building 43) 3-18 ft bgs		SR-MW-15 (West of Building 43) 5-20 ft bgs		SR-MW-16A (South of Building 43) 8-18 ft bgs		SR-MW-16B (South of Building 43) 39-49 ft bgs	
			May 2019	Aug. 2019	May 2019	Aug. 2019	May 2019	Aug. 2019	May 2019	Aug. 2019
			Benzene	0.5	5	<0.25	<0.99	<0.25	<0.25	<0.25
Cis-1,2-Dichloroethene	7	70	22.4	281	2.3	0.50	<0.27	0.60	44.7	82.3
1,2-Dichloroethane	0.5	5	<0.28	<1.1	<0.28	<0.28	<0.28	<0.28	21.2	50.6
Tetrachloroethene	0.5	5	<0.33	<1.3	11.5	8.7	<0.33	<0.33	<0.33	<0.33
Trichloroethene	0.5	5	<0.26	<1.0	1.1	0.61	0.95	2.2	0.66	0.70
Vinyl Chloride	0.02	0.2	51.3	68.6	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17

The subject property has been impacted via groundwater and vapor.

- The Oscar Mayer Inc. site (BRRTS #02-13-000895) is a closed ERP site with continuing obligations, located in the central section of the subject property. According to the BRRTS database, the ERP case was opened in 1984; however, no documents from the period between 1984 and 1993 were included in the site file. According to the July 2006 Closure Request submitted to the WDNR by BT<sup>2</sup>, the ERP case was opened to address chlorinated solvent impacts discovered in groundwater from production wells installed in the bedrock on the subject property. The report figures indicate that Production Well #5, located in the northwest corner of the subject property, extended to a depth of 400 feet bgs, with a well casing extending to a depth of 225 feet bgs. Quarterly groundwater samples from Production Well #5 collected between 1986 and 1993 indicated that TCE levels ranged from 1.37 to 5.64 ppb (ug/L), exceeding the ES of 5 ug/L, and PCE levels ranged from below detection level to 37.9 ppb (ug/L), exceeding the ES of 5 ug/L. Production well data from after 1993 was not included in the site file.

In 1994, CRA advanced soil borings and installed monitoring wells to depths of up to 56 feet bgs, which indicated that a plume of chlorinated substances (1,2-dichloroethene and vinyl chloride) was present. Groundwater samples collected by BT<sup>2</sup> between 1994 and 2005 indicated that impacts were generally limited to the central section of the subject property and concentrations generally followed a downward trend throughout the monitoring period. BT<sup>2</sup> concluded that the area of ES exceedance for vinyl chloride extended to between 50 and 60 feet bgs. The site was granted a conditional closure in 2006.

Considering that the modeled extent of ES exceedances for chlorinated compounds in groundwater did not extend below 60 ft bgs in 2005, it is unlikely that this plume was the source of impacts detected in production wells at depths of over 225 bgs in the 1980s.

A 2006 memorandum to the site closure committee stated that in 1986, a spill of chlorinated solvents occurred in a drum storage area, thought to be west of Building 28, southwest of the subject property. In 1987 and 1988, approximately 110 cubic yards of contaminated soil was excavated and treated on site. No data from the remedial action was included in the site file. Sigma reviewed an excavation photo included in the site file. Based on aerial photographs and site maps from the 1980s, the excavation was most likely to the west of Building 43, directly west of the subject property. Considering the general southerly direction of groundwater flow on the subject property and the relative locations of the two identified areas of groundwater impacts, it is unlikely that spill of chlorinated solvents was the source of those impacts.

A review of the site file indicates that at least three sources of chlorinated compounds are likely to have impacted the subject property via soil and/or groundwater.

The following ERP sites were identified on the 910 Mayer Ave parcel; however, based on the available information, are not located on the subject property itself. These sites may have negatively impacted the subject property:

- The Oscar Mayer Former Filling Station East site (BRRTS #02-13-580722) is an open ERP site located in the east-central section of the 910 Mayer Ave parcel. The ERP case was opened in 2017 to address soil and groundwater contamination discovered in the vicinity of three former filling stations, which were razed around 1968. The northernmost filling station was located directly south of the southeast corner of the subject property. While no records of UST removals were identified, ERM did not find evidence indicating that the USTs were still present. Contaminants of concern include VOCs, PAHs and lead. As of October 2018, when a SIWP was submitted to the WDNR by ERM, the extent of groundwater impacts had not yet been delineated; however, impacts were identified within 50 feet of the subject property. Impacts from this site may have impacted the subject property via soil, groundwater, and/or vapor.

The following ERP sites were identified on the 910 Mayer Ave parcel; however, based on the available information, are not located on the subject property itself and are not expected to negatively impact the subject property:

- The Former 1,2-DCA Tank South site (BRRTS #02-13-580721) is an open ERP site located in the southeast section of the 910 Oscar Ave parcel. The ERP case was opened in 2017 to address soil and groundwater contamination discovered in the vicinity of two former 6,300-gallon ethylene dichloride ASTs. Contaminants of concern include CVOCs, PAHs, arsenic and lead. Based on data in the Remedial Action Options Report submitted to the WDNR by ERM in March 2020, impacts from this site are not expected to impact the subject property.
- The Oscar Mayer Lift site (BRRTS #02-13-221826) is a closed ERP site located on the 910 Oscar Ave parcel. The ERP case was opened in 1999 to address impacts associated with an abandoned 250-gallon UST and closed after two months, with no continuing obligations. The UST was located roughly 500 feet south of the subject property, on the opposite side of the main facility building. According to the tank closure assessment, prepared by Woodward-Clyde Consultants in December 1992, Oscar Mayer representatives knew of “no other tanks, past or present, in the vicinity of the tank” which was removed.

EDR identified several LUST sites on the 910 Mayer Ave parcel; however, based on the available information, the sites are not located on the subject property itself:

- The Oscar Mayer Site #3 (BRRTS #03-13-114831) is a closed LUST site with continuing obligations located in the southeast section of the 910 Mayer St parcel, roughly 900 feet to the south of the subject property. The LUST case was opened in 1996 to address impacts from a 10,000-gallon leaded gasoline UST, a 9,500-gallon unleaded gasoline UST, and a 10,000-gallon diesel UST. At the time of site closure in 2006, residual soil and groundwater contamination were present at the site. Impacts from this site are not expected to impact the subject property.

- The Oscar Mayer Foods site (BRRTS #03-13-001744) is a closed LUST site located on the southeast side of the main Oscar Mayer building, to the south of the subject property. The LUST case was opened in 1992 to address contamination discovered during the removal of a UST. While the size of the UST was not stated in the site file, the dimensions of the initial excavation indicate that the UST had a capacity of 1,900 gallons or less. While some residual soil contamination was present at the time of closure in 1993, this site is not expected to impact the subject property.
- The Oscar Mayer site (BRRTS #03-13-000053) is a closed LUST site located at 2007 Roth Street, southwest of the subject property across the railroad right-of-way. The LUST case was opened in 1989 to address soil and groundwater impacts related to two fuel oil ASTs (likely with capacities of 150,000 and 250,000 gallons) and historical releases along the railroad right-of-way. One AST was removed prior to the site closure, while aerial photographs indicate that the other was present until sometime between 2014 and 2017. Soil and groundwater samples were tested for VOCs and PAHs. The site was closed in 2008 with continuing obligations. Residual soil and groundwater contamination are present, and impacts extend beyond the site. Based on the available information, this site is not expected to negatively impact the subject property.

The 910 Oscar Ave parcel, which includes the subject property, was identified in the WI Asbestos database for asbestos abatement projects completed in 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, and 2019. Asbestos abatement information is considered a non-scope item for this report.

The parcel was also identified in the FINDS database as an Occupational Safety and Health Administration (OSHA) establishment and as a major source of air pollution. This is not expected to significantly impact the subject property.

EDR identified several properties in the vicinity of the subject property on one or more of the environmental databases. Based on the relative distance between the reported sites and the subject property and/or the reported site status, the identified sites are not expected to impact the subject property, with the exceptions of the following sites:

- Chet's Car Care Center, located at 2020 Aberg Ave, directly north of the subject property across Aberg Avenue, was identified in the RCRA database as a Very Small Quantity Generator (generates less than 100 kg of hazardous waste during a calendar month) of ignitable wastes and lead. Based on RCRA records, the facility has been in operation since circa 1991. The company website indicates that it opened in 1984. No violations were reported for the site. Two 878-gallon waste/used oil ASTs are registered to the site. While no violations have been identified, Chet's Car Care Center is located upgradient from the subject property and has been in operation for around 30 years. Potential releases associated with automotive repair activities may have impacted the subject property via groundwater.

- The Madison Metro North Transfer Point site (BRRTS #02-13-524010) was identified in the ERP database as a closed ERP site with continuing obligations. The site is located at 1201 Huxley Street, adjacent to the west of the subject property across the railroad right-of-way. The ERP case was opened in 2004 to address impacts from four 10,000-gallon fuel oil USTs and eight 10,000-gallon fuel oil ASTs. According to the continuing obligations packet, contaminants of concern included benzene, toluene, ethyl benzene and xylenes, as well as select PAHs. Soil and groundwater samples collected in 2004 and 2005 indicated that soil and groundwater extended into the railroad right-of-way. The ERP case was closed in 2006, with residual soil and groundwater contamination. While groundwater samples collected from one monitoring well on the subject property did not contain any exceedances, impacts may extend onto the subject property.
- The Burke Wastewater Treatment Plant site (BRRTS #02-13-315773) was identified in the ERP and PFAS databases as an open ERP site. The site is located at 1401 Packers Ave, northeast of the subject property across the intersection of Packers Ave and Aberg Avenue. According to site documents, the Burke Wastewater Treatment Plant operated on this site from 1914 to 1936 and 1942 to 1978. Prior to 1950, the plant was a public utility and received domestic sewage. After 1950, the plant was operated by Oscar Mayer and treated wastewater from the Oscar Mayer plant. Oscar Mayer constructed a series of sludge lagoons in the northeast section of the site and also used the site for landfilling of ash from coal combustion and waste products (hair and toenails) from the meat processing plant. In 1981, the site was sold to Reynolds Transfer and Storage Co. In the 1980s and 1990s, the lagoons were filled in and buried.

In March 2002, REA advanced soil borings and installed groundwater monitoring wells on the ERP site. Soil and groundwater samples were collected from the southwest section of the site, near the historical sludge drying beds. Soil samples from the southwest section of the site contained concentrations of arsenic and cadmium which were greater than their respective groundwater pathway RCLs and BTVs. The arsenic concentration was also greater than the direct contact RCL. Chromium and lead were present in groundwater samples collected from the southwest section of the site at concentrations greater than their respective ESs.

In August 2019, soil and groundwater samples from the Burke Wastewater Treatment Plant site were tested for the presence of PFAS. One or more PFAS constituents was detected in each sample. At the time of this report's publication, Wisconsin does not have final groundwater standards for PFAS constituents; however, the groundwater sample collected closest to the subject property (TW-4, located roughly 650 feet east northeast of the subject property) contained a combined concentration of PFOS and PFOA of 23.7 ng/L, which is greater than the proposed groundwater ES of 20 ng/L. The Amended SIWP for the site, submitted to the WDNR in December 2018 by Seymour Environmental Services Inc., indicates that groundwater flow on the ERP site is to the southwest. The site is bordered to the north by the former Truax Field Landfill, which was used by the City of Madison and the U.S. Army from 1942 to 1972. The Truax Field Landfill was identified in the State Hazardous Waste Sites (SHWS) database. The landfill was added to the hazard ranking system list in 1994. Considering that the landfill was used by a nearby airfield, the PFAS contamination may have originated at the landfill.

It should be noted that, based on a review of aerial photographs, Burke Wastewater Treatment Plant operations likely extended onto the eastern edge of the subject property until the re-alignment of Packers Avenue in the mid-1960s. A roughly 6,000 square-foot section of the subject property, which was then east of Packers Ave, is depicted as disturbed land in the 1955 aerial photograph. Groundwater contamination from the Burke Wastewater Treatment Plant site and/or Truax Field Landfill may have impacted the subject property. Additionally, waste materials associated with the Burke Wastewater Treatment Plant may be buried on the subject property.

## 9.0 CONCLUSIONS

Sigma has performed an environmental site assessment, in conformance with the scope and limitations of ASTM Practice E 1527-13. Any exceptions to, or deletions from, this practice are described in Section 10 of this report. This assessment has revealed evidence of the following recognized environmental conditions at the subject property:

- Fill materials were historically placed on the subject property. Topographic maps produced between 1890 and 1906 depict the subject property as a wetland. A geologic cross-section of the subject property produced by BT<sup>2</sup> in 2006 indicates that a layer of fill material extends to a depth of up to six feet bgs in the central section of the subject property, and peat is present below the fill material in some sections. A 2016 Phase I ESA report repeats a claim from a prior environmental report (likely produced in 1994) that fly ash was buried in the northern section of the subject property. Coal piles and land disturbances were depicted in the northern section of the subject property in aerial photographs produced between 1949 and 1968. Considering the confirmed presence of fill material and the reported presence of buried fly ash on the subject property, fill materials may have impacted the subject property via soil, groundwater and/or vapor.
- Industrial activities on the 910 Oscar Ave parcel, which includes the subject property, involved the storage of reportable quantities of petroleum products and hazardous materials including chlorinated compounds, and the generation and possible on-site disposal of solid and/or hazardous waste. Additionally, the 910 Oscar Ave parcel may have been used for the manufacturing of insecticides in the 1960s and 1970s. It should be noted that the Interstate Technology & Regulatory Council (ITRC) has included pesticides in its list of products which can contain PFAS. Releases associated with the manufacturing, storage and/or disposal of petroleum products and hazardous materials may have impacted the subject property via soil, groundwater, and/or vapor.

- The Oscar Mayer Former Spice Room Building 43 site (BRRTS #02-13-580723) is an open ERP site located in the southeast corner of Building 43. The ERP case was opened in 2017 to address CVOCs detected in sub-slab gas samples collected in the vicinity of the former spice room. Concentrations of TCE in sub-slab vapor samples collected below Building 43 ranged from 2.7 to 66,800 ug/m<sup>3</sup>, exceeding WDNR sub-slab vapor criteria. In 2019, two rounds of groundwater samples were collected from wells located directly east, west, and south of the building and tested for VOCs. One or more chlorinated compound was detected at a concentration greater than the PAL and/or ES in each groundwater sample tested. The subject property has been impacted via groundwater and vapor.

This assessment has revealed evidence of the following controlled recognized environmental conditions (CRECs) at the subject property:

- In 1998, a cylinder on an elevator broke, resulting in a reported release of 75 gallons of hydraulic oil (BRRTS #04-13-227692/04-13-227043). Based on the date and nature of the release, a Request for No Further Action report prepared by BT<sup>2</sup>, which was included in the site file for an unrelated ERP case, applied to this spill. No correspondence from the WDNR concerning the release was identified, so it is unclear if the WDNR recommended any additional actions. According to the Request for No Further Action, submitted to the WDNR on March 3, 1999, the freight elevator in Building 43 malfunctioned on October 22, 1998, resulting in a release of 140 gallons of hydraulic oil. Approximately 64 gallons of the hydraulic oil was recovered, and the elevator system was replaced. No further remedial actions were discussed. Approximately 75 gallons of hydraulic oil was left in place below Building 43, possibly impacting the subject property via soil or groundwater.
- The Oscar Mayer Inc. site (BRRTS #02-13-000895) is a closed ERP site with continuing obligations, located in the central section of the subject property. According to the BRRTS database, the ERP case was opened in 1984; however, no documents from the period between 1984 and 1993 were included in the site file. According to the July 2006 Closure Request submitted to the WDNR by BT<sup>2</sup>, the ERP case was opened to address chlorinated solvent impacts discovered in groundwater from production wells installed in the bedrock on the subject property. The report figures indicate that Production Well #5, located in the northwest corner of the subject property, extended to a depth of 400 feet bgs, with a well casing extending to a depth of 225 feet bgs. Quarterly groundwater samples from Production Well #5 collected between 1986 and 1993 indicated that TCE levels ranged from 1.37 to 5.64 ppb (ug/L), exceeding the ES of 5 ug/L, and PCE levels ranged from below detection level to 37.9 ppb (ug/L), exceeding the ES of 5 ug/L. Production well data from after 1993 was not included in the site file.

In 1994, CRA advanced soil borings and installed monitoring wells to depths of up to 56 feet bgs, which indicated that a plume of chlorinated substances (1,2-dichloroethene and vinyl chloride) was present. Groundwater samples collected by BT<sup>2</sup> between 1994 and 2005 indicated that impacts were generally limited to the central section of the subject property and concentrations generally followed a downward trend throughout the monitoring period. BT<sup>2</sup> concluded that the area of ES exceedance for vinyl chloride extended to between 50 and 60 feet bgs. The site was granted a conditional closure in 2006.

Considering that the modeled extent of ES exceedances for chlorinated compounds in groundwater did not extend below 60 ft bgs in 2005, it is unlikely that this plume was the source of impacts detected in production wells at depths of over 225 bgs in the 1980s.

A 2006 memorandum to the site closure committee stated that in 1986, a spill of chlorinated solvents occurred in a drum storage area, thought to be west of Building 28, southwest of the subject property. In 1987 and 1988, approximately 110 cubic yards of contaminated soil was excavated and treated on site. No data from the remedial action was included in the site file. Sigma reviewed an excavation photo included in the site file. Based on aerial photographs and site maps from the 1980s, the excavation was most likely to the west of Building 43, directly west of the subject property. Considering the general southerly direction of groundwater flow on the subject property and the relative locations of the two identified areas of groundwater impacts, it is unlikely that spill of chlorinated solvents was the source of those impacts.

A review of the site file indicates that at least three sources of chlorinated compounds are likely to have impacted the subject property via soil and/or groundwater.

This assessment has revealed evidence of the following off-site RECs at the subject property:

- The Oscar Mayer Former Filling Station East site (BRRTS #02-13-580722) is an open ERP site located in the east-central section of the 910 Mayer Ave parcel. The ERP case was opened in 2017 to address soil and groundwater contamination discovered in the vicinity of three former filling stations, which were razed around 1968. The northernmost filling station was located directly south of the southeast corner of the subject property. While no records of UST removals were identified, ERM did not find evidence indicating that the USTs were still present. Contaminants of concern include VOCs, PAHs and lead. As of October 2018, when a SIWP was submitted to the WDNR by ERM, the extent of groundwater impacts had not yet been delineated; however, impacts were identified within 50 feet of the subject property. Impacts from this site may have impacted the subject property via soil, groundwater, and/or vapor.
- Chet's Car Care Center, located at 2020 Aberg Ave, directly north of the subject property across Aberg Avenue, was identified in the RCRA database as a Very Small Quantity Generator (generates less than 100 kg of hazardous waste during a calendar month) of ignitable wastes and lead. Based on RCRA records, the facility has been in operation since circa 1991. The company website indicates that it opened in 1984. No violations were reported for the site. Two 878-gallon waste/used oil ASTs are registered to the site. While no violations have been identified, Chet's Car Care Center is located upgradient from the subject property and has been in operation for around 30 years. Potential releases associated with automotive repair activities may have impacted the subject property via groundwater.



The Burke Wastewater Treatment Plant site (BRRTS #02-13-315773) was identified in the ERP and PFAS databases as an open ERP site. The site is located at 1401 Packers Ave, northeast of the subject property across the intersection of Packers Ave and Aberg Avenue. According to site documents, the Burke Wastewater Treatment Plant operated on this site from 1914 to 1936 and 1942 to 1978. Prior to 1950, the plant was a public utility and received domestic sewage. After 1950, the plant was operated by Oscar Mayer and treated wastewater from the Oscar Mayer plant. Oscar Mayer constructed a series of sludge lagoons in the northeast section of the site and also used the site for landfilling of ash from coal combustion and waste products (hair and toenails) from the meat processing plant. In 1981, the site was sold to Reynolds Transfer and Storage Co. In the 1980s and 1990s, the lagoons were filled in and buried.

In March 2002, REA advanced soil borings and installed groundwater monitoring wells on the ERP site. Soil and groundwater samples were collected from the southwest section of the site, near the historical sludge drying beds. Soil samples from the southwest section of the site contained concentrations of arsenic and cadmium which were greater than their respective groundwater pathway RCLs and BTVs. The arsenic concentration was also greater than the direct contact RCL. Chromium and lead were present in groundwater samples collected from the southwest section of the site at concentrations greater than their respective ESs.

In August 2019, soil and groundwater samples from the Burke Wastewater Treatment Plant site were tested for the presence of PFAS. One or more PFAS constituents was detected in each sample. At the time of this report's publication, Wisconsin does not have final groundwater standards for PFAS constituents; however, the groundwater sample collected closest to the subject property (TW-4, located roughly 650 feet east northeast of the subject property) contained a combined concentration of PFOS and PFOA of 23.7 ng/L, which is greater than the proposed groundwater ES of 20 ng/L. The Amended SIWP for the site, submitted to the WDNR in December 2018 by Seymour Environmental Services Inc., indicates that groundwater flow on the ERP site is to the southwest. The site is bordered to the north by the former Truax Field Landfill, which was used by the City of Madison and the U.S. Army from 1942 to 1972. The Truax Field Landfill was identified in the State Hazardous Waste Sites (SHWS) database. The landfill was added to the hazard ranking system list in 1994. Considering that the landfill was used by a nearby airfield, the PFAS contamination may have originated at the landfill.

It should be noted that, based on a review of aerial photographs, Burke Wastewater Treatment Plant operations likely extended onto the eastern edge of the subject property until the re-alignment of Packers Avenue in the mid-1960s. A roughly 6,000 square-foot section of the subject property, which was then east of Packers Ave, is depicted as disturbed land in the 1955 aerial photograph. Groundwater contamination from the Burke Wastewater Treatment Plant site and/or Truax Field Landfill may have impacted the subject property. Additionally, waste materials associated with the Burke Wastewater Treatment Plant may be buried on the subject property.

This assessment has revealed evidence of the following off-site CRECs at the subject property:

- The Madison Metro North Transfer Point site (BRRTS #02-13-524010) was identified in the ERP database as a closed ERP site with continuing obligations. The site is located at 1201 Huxley Street, adjacent to the west of the subject property across the railroad right-of-way. The ERP case was opened in 2004 to address impacts from four 10,000-gallon fuel oil USTs and eight 10,000-gallon fuel oil ASTs. According to the continuing obligations packet, contaminants of concern included benzene, toluene, ethyl benzene and xylenes, as well as select PAHs. Soil and groundwater samples collected in 2004 and 2005 indicated that soil and groundwater extended into the railroad right-of-way. The ERP case was closed in 2006, with residual soil and groundwater contamination. While groundwater samples collected from one monitoring well on the subject property did not contain any exceedances, impacts may extend onto the subject property.

The conclusions included in this assessment report should not be construed as legal advice. This practice is intended to reflect a commercially prudent and reasonable inquiry. No environmental site assessment can wholly eliminate uncertainty regarding the potential for recognized environmental conditions in connection with the subject property. Performance of the ASTM E 1527-13 practice is intended to reduce, but not eliminate that uncertainty. Finally, even a finding of no recognized environmental conditions is not a warranty or guarantee that the property is free from contamination.

## **10.0 DEVIATIONS**

There were no intentional deviations from or additions to standard practices identified in the ASTM standard for Phase 1 ESAs ASTM-1527-13 except as noted within this report.

## **11.0 REFERENCES**

Published referenced sources relied upon in preparing this Phase I Environmental Site Assessment are as noted in the body of the report.

## 12.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS


We declare that, to the best of our professional knowledge and belief, we meet the definition of environmental professional as defined in section 312.10 of 40 CFR 312 and we have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all appropriate inquires in general conformance with the standards and practices set forth in 40 CFR Part 312.



Mairead S. Rauch, E.I.T.  
Staff Engineer



Adam J. Roder, P.E., P.G.  
Senior Engineer



Randy E. Boness, P.G.  
Manager, Geosciences Group

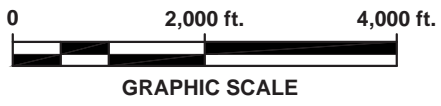
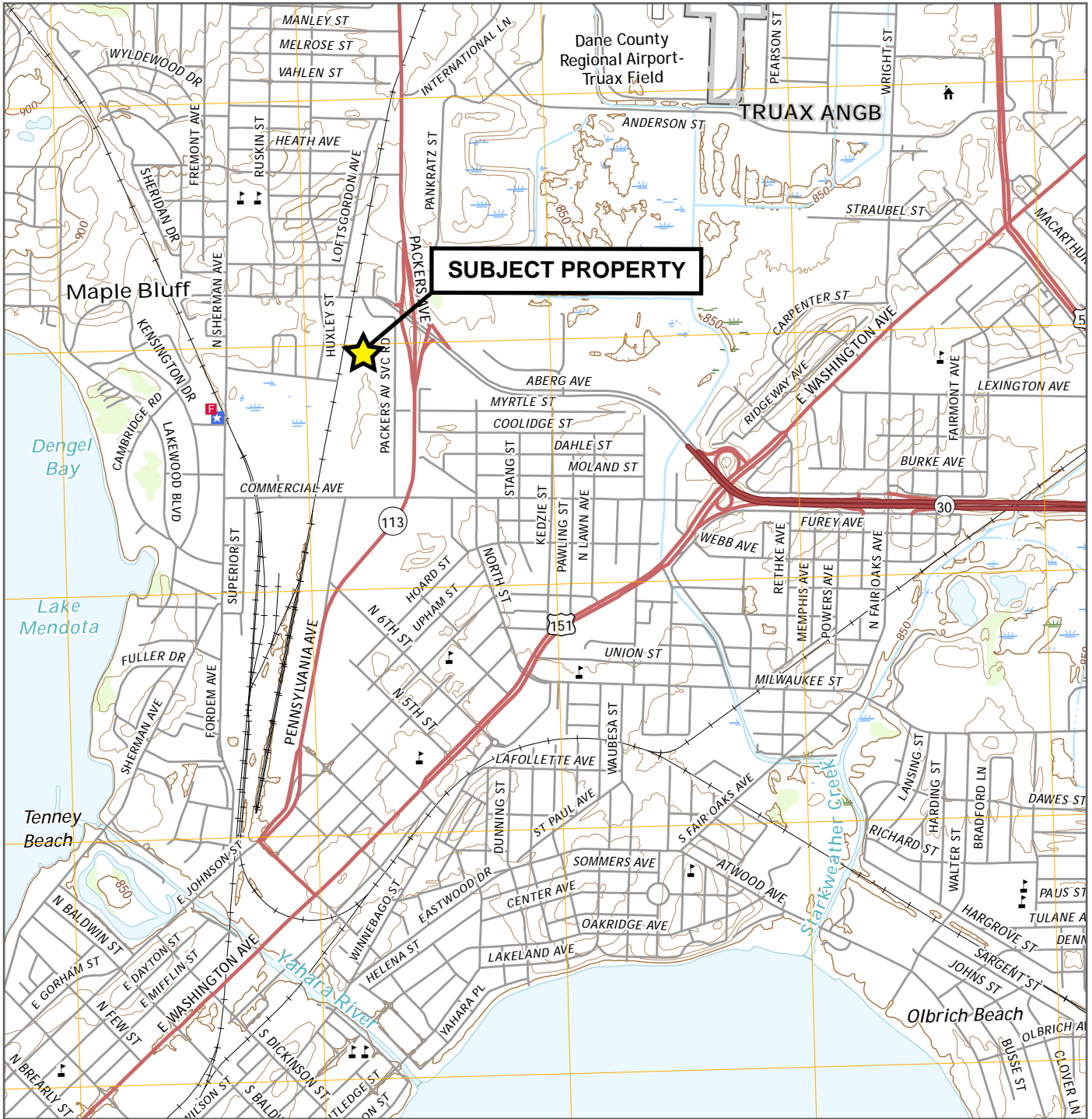
## 13.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

The Sigma Group, Inc. is a full-service environmental consulting and engineering firm located in Milwaukee, Wisconsin. Project team resumes are included in **Appendix P**.

## **FIGURES**

- 1 Site Location Map
- 2 Site Plan Map
- 3 Detailed Site Map
- 4 Surrounding Area Map

Project: 19174 | Directory: CAD | Filename: 19174\_Fig 1\_SLM.pdf | Created By: MSR | Date: 03/03/2020



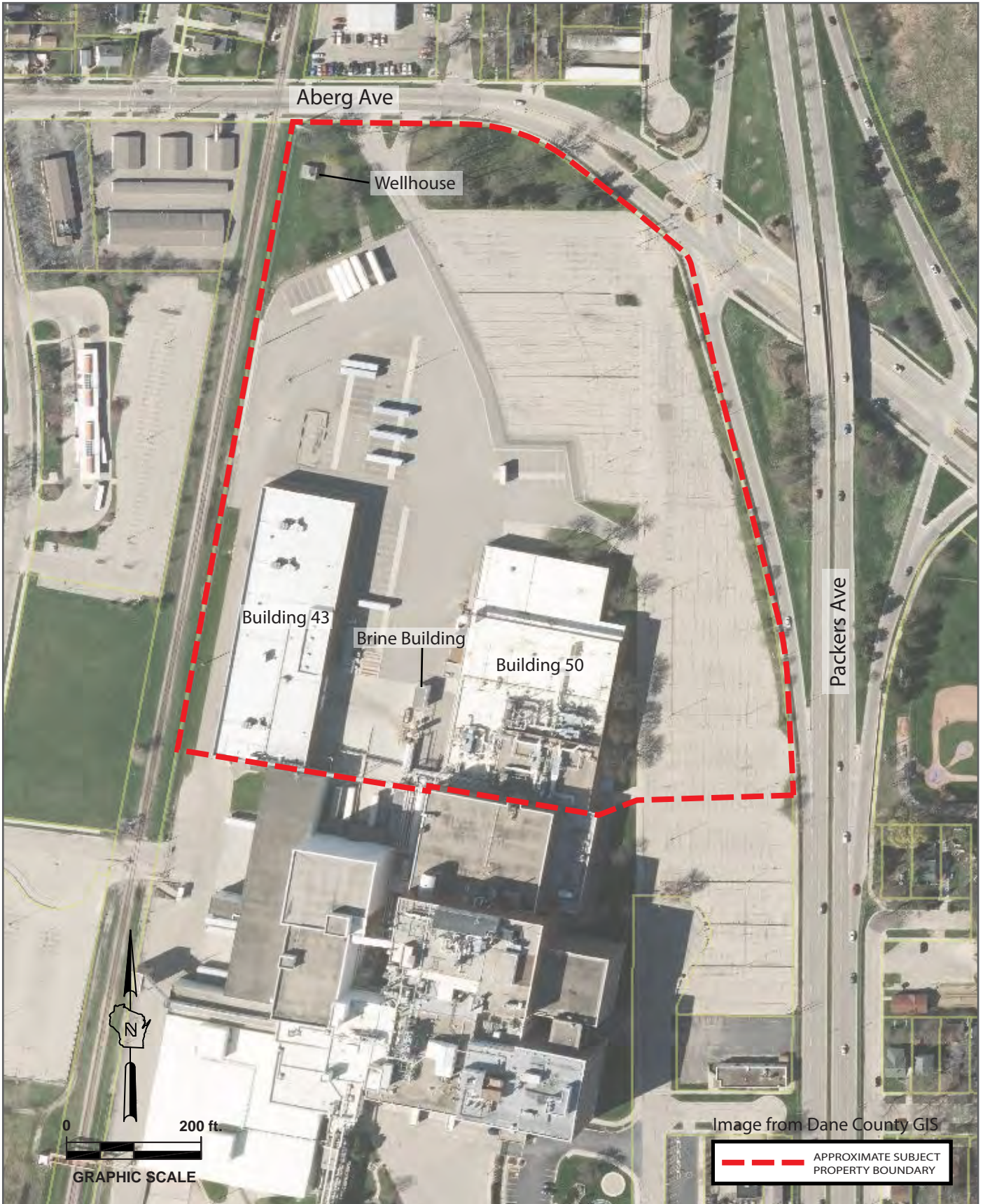
Located in the S 1/2 of Section 31, T08N, R10E  
 Madison East, WI Quadrangle (2018)  
 7.5 minute, 1 : 24,000 Topographic Map Collection



**SITE LOCATION MAP**  
 910 MAYER AVE  
 MADISON, WI

**FIGURE**  
**1**





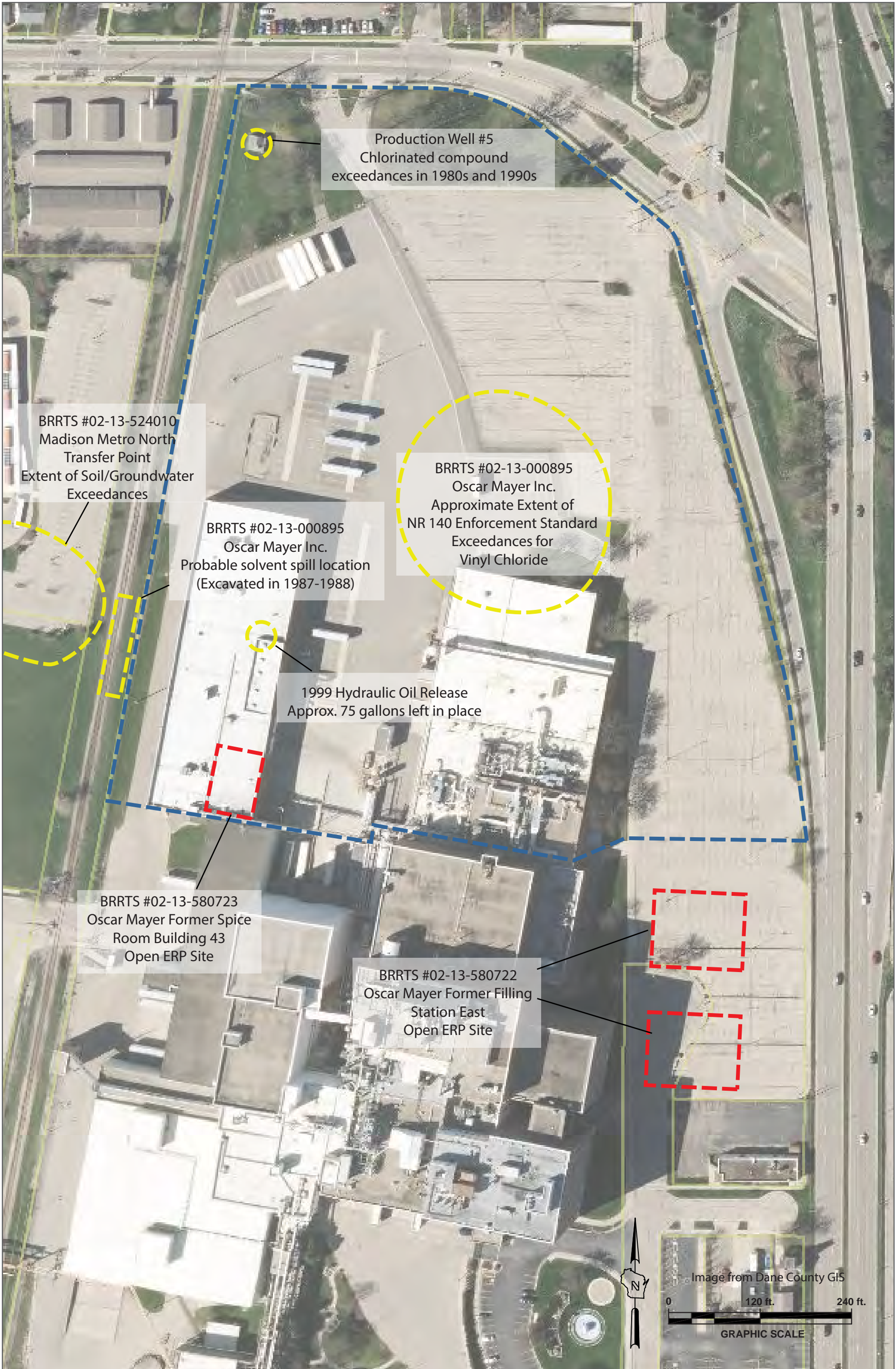
## SITE PLAN MAP

910 OSCAR AVE  
MADISON, WI

FIGURE

**2**





Production Well #5  
Chlorinated compound  
exceedances in 1980s and 1990s

BRRTS #02-13-524010  
Madison Metro North  
Transfer Point  
Extent of Soil/Groundwater  
Exceedances

BRRTS #02-13-000895  
Oscar Mayer Inc.  
Approximate Extent of  
NR 140 Enforcement Standard  
Exceedances for  
Vinyl Chloride

BRRTS #02-13-000895  
Oscar Mayer Inc.  
Probable solvent spill location  
(Excavated in 1987-1988)

1999 Hydraulic Oil Release  
Approx. 75 gallons left in place

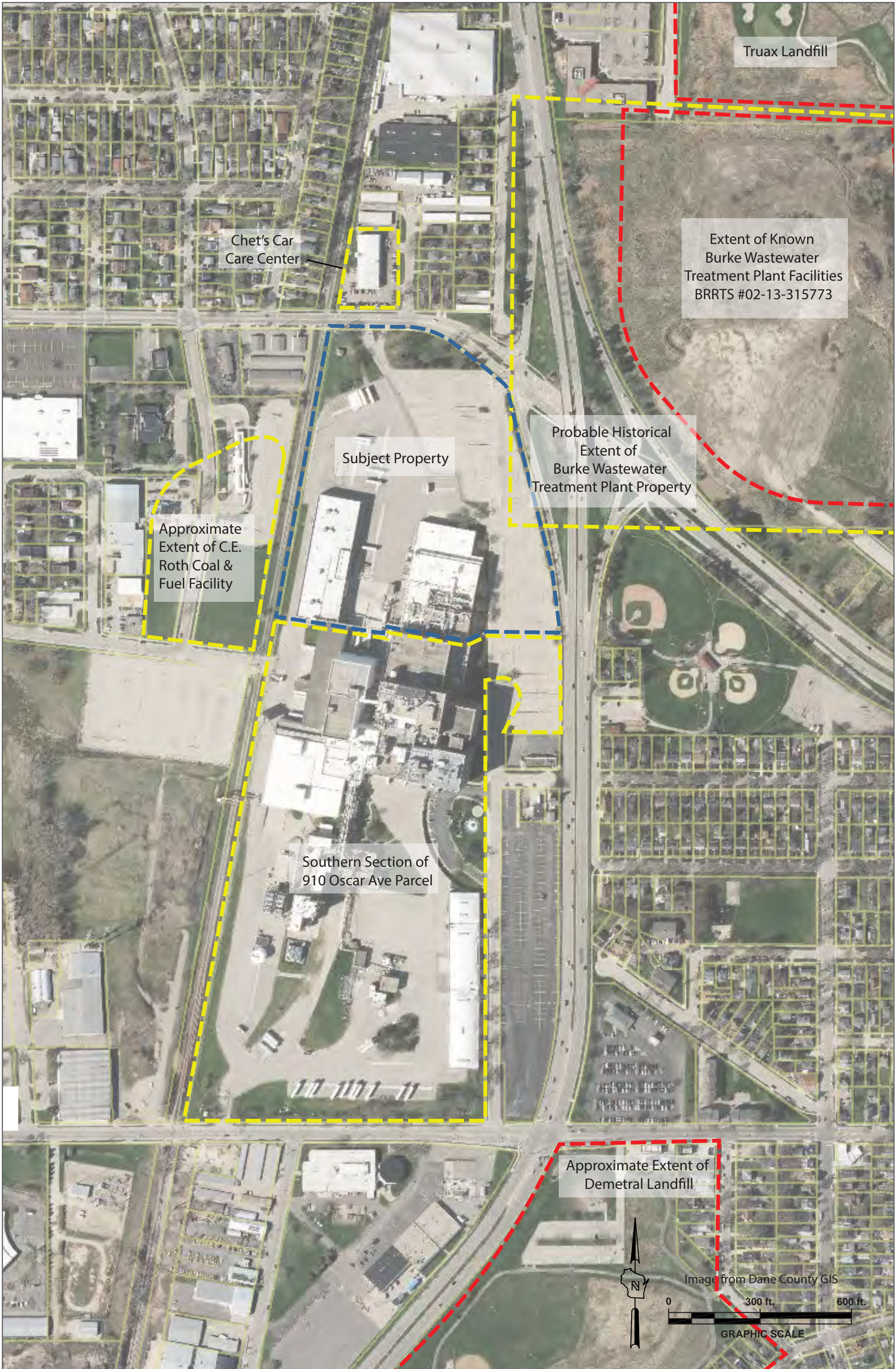
BRRTS #02-13-580723  
Oscar Mayer Former Spice  
Room Building 43  
Open ERP Site

BRRTS #02-13-580722  
Oscar Mayer Former Filling  
Station East  
Open ERP Site

Image from Dane County GIS  
0 120 ft. 240 ft.  
GRAPHIC SCALE

Project: 19174 | Directory: CAD | Created By: MSR | Date: 03/23/2020 | Filename: 19174\_Fig 3\_DSPM.pdf





Project: 19174 | Directory: CAD | Filename: 19174\_Fig 4\_SAPM.pdf | Created By: MSR | Date: 4/2/2020

Image Source:



**SURROUNDING AREA MAP**

910 OSCAR AVE  
MADISON, WI

FIGURE

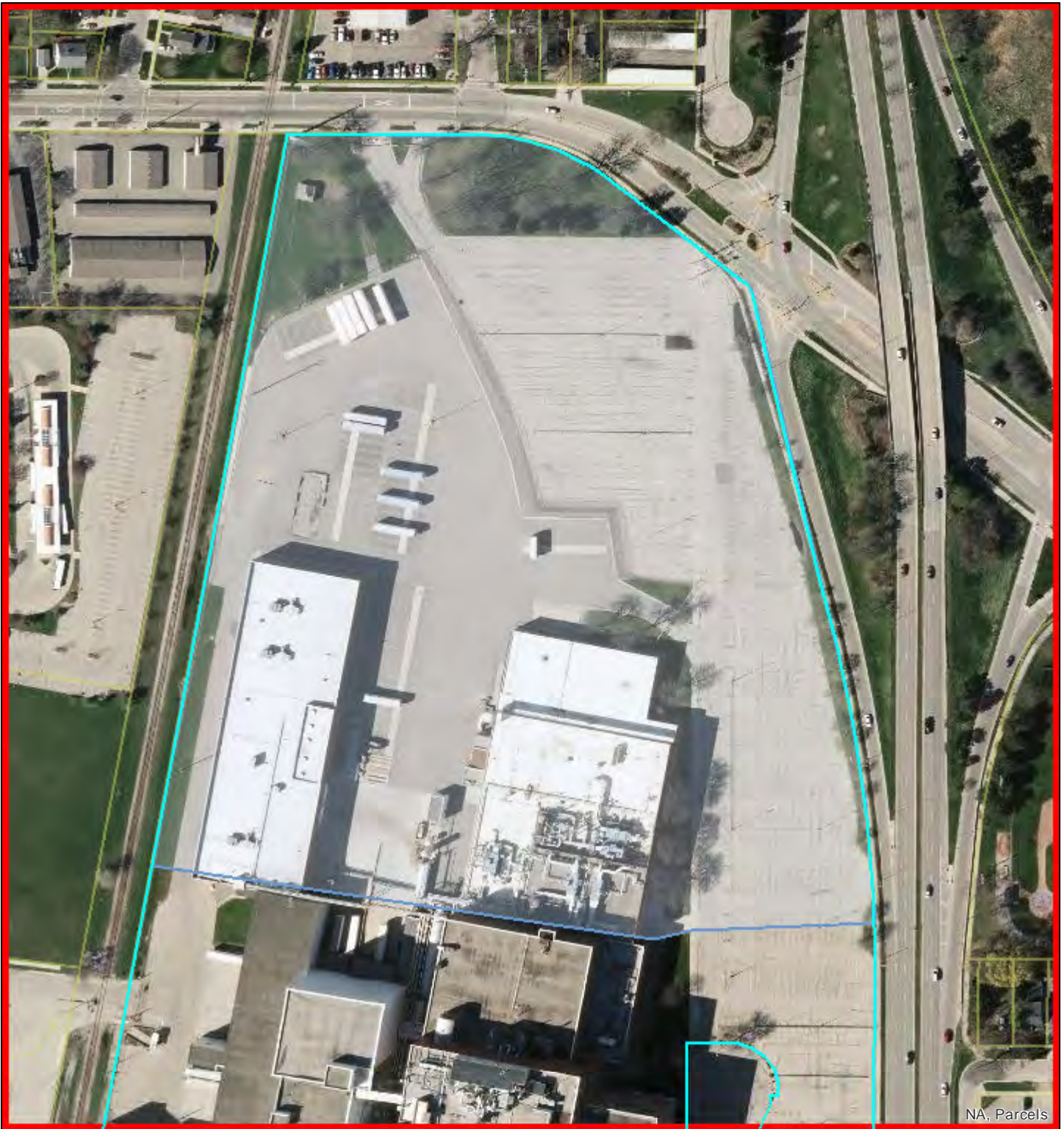
**4**




**APPENDIX A**

**Subject Property Description**


# 910 Mayer St, Madison, WI



March 3, 2020

 Parcels

0 115 230 460 Feet



# Parcel Number - 251/0810-313-0101-3

Current

## Parcel Summary

Municipality Name	CITY OF MADISON
Parcel Description	T8N R10E, SEC 31, PART E 1/2 SW 1/4 & PA...
Owner Name	910 MAYER LLC
Primary Address	910 OSCAR AVE
Billing Address	21 LOCUST AVE STE 1 MILL VALLEY CA 94941

## Current Year Assessment

Assessment Year	2019
Valuation Classification	G3
Assessment Acres	0.000
Land Value	\$1,034,000.00
Improved Value	\$1,090,000.00
Total Value	\$2,124,000.00

## Assessment Contacts

<b>Assessment Contact Information</b> For questions or to schedule an appointment contact:	
<b>Assessor</b>	MICHELLE DREA
<b>Phone</b>	608-266-4531
<b>Email</b>	ASSESSOR@CITYOFMADISON.COM
<b>Clerk</b>	MARIBETH WITZEL-BEHL
<b>Phone</b>	608-266-4601
<b>Email</b>	CLERK@CITYOFMADISON.COM

## Open Book/Board Of Review Dates

### Zoning Information

Contact your local city, village or town office for municipal zoning information.

## Parcel Map



## Current Year Taxes (2019)

Assessed Land Value	Assessed Improvement Value	Total Assessed Value
\$1,034,000.00	\$1,090,000.00	\$2,124,000.00
<b>Taxes:</b>		\$47,909.29
<b>Lottery Credit(-):</b>		\$0.00
<b>First Dollar Credit(-):</b>		\$78.80
<b>Specials(+):</b>		\$0.00
<b>Amount:</b>		\$47,830.49

## Districts

Type	State Code	Description
REGULAR SCHOOL	3269	MADISON METRO SCHOOL DIST
TECHNICAL COLLEGE	0400	MADISON TECH COLLEGE

## Recorded Documents

No recorded documents found.

**APPENDIX B**

**2019 Phase I Environmental Site Assessment  
Prepared by  
Environmental Resources Management, Inc.**





910 Mayer LLC, Central Property

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910 Mayer LLC, Central Property

August 2019

Project No.: 0519959

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Document title	Phase I Environmental Site Assessment
Document subtitle	910 Mayer LLC, Central Property
Project No.	0519959
Date	August 2019
Version	1.0
Author	Philip Kistler, Duncan Favill, David de Courcy Bower
Client Name	910 Mayer LLC

**Document history**

Version	Revision	Author	Reviewed by	ERM approval to issue		Comments
				Name	Date	
FINAL	00	Philip Kistler, Duncan Favill	David de Courcy Bower	Thomas O'Connell	08.29.2019	



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29 August, 2019

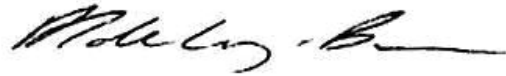
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910 Mayer LLC, Central Property'



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Thomas O'Connell  
Senior Partner



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David de Courcy Bower  
Project Manager



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Philip Kistler  
Project Engineer

9bj Jfcba YbHJ'FYgci fWg'A UbUj Ya Ybh-bW'

700 W Virginia Street, Suite 601

Milwaukee, WI 53204

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Figure 1	Site Location Map
Figure 2	Site Layout Map
Figure 3	Recognized Environmental Conditions
Figure 4	Previous Environmental Conditions (2017 Phase I)

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<b>5 DD9 B8`4`8</b>	<b>CH&lt;9F`D9FH&lt;B9BH`8 C7I A9BHG</b>
<b>5 DD9 B8`4`9</b>	<b>9BJ`FCBA9BH5 @F9; I @`HCFM85 H565 G9`F9DCFH`fF58&lt; G`A5D` CB@ML</b>
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Environmental Resources Management (“ERM”) conducted a Phase I Environmental Site Assessment (“ESA”) of the 910 Mayer LLC Site located at 910 Mayer Avenue, Madison, Wisconsin (the “Site”, “Subject Property”, or “Facility”). The Phase I ESA was conducted in accordance with the scope and limitations of ASTM International Standard E-1527-13 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (“E-1527-13”). Exceptions to, or deletions from, E1527-13 are described in Section 1.3.4 of this report.

A Site visit was conducted on 13 August 2019 by David de Courcy-Bower of ERM. The greater Subject Property is comprised of three main parcels hereby referred to as the “Central Property”, “East Property”, and “West Property.” The contents of this report are dedicated to the conditions, observations and investigations of the Central Property. The approximately 54-acre parcel is developed with approximately 567,000 total square feet of structures including an office building, commercial building, vacant buildings (former power plant, former processing plant, former cooling building), warehouses, former wastewater treatment building (WWTP) and ancillary structures. The Site buildings are secured and located within a fenced area. Outside of the fence line exists concrete and asphalt paved parking areas to the east, and limited grass landscaping to the west.

The Facility began operation as a meat packing facility in 1916 before Oscar Mayer purchased the operating company in 1918. In 1981, Oscar Mayer was purchased by General Foods, which was subsequently acquired by Philip Morris in 1985. Under Philip Morris’ ownership, the Facility operated under the names Kraft General Foods, Inc., Kraft Foods, Inc., and finally Kraft Foods Group. H.J. Heinz Co. purchased Kraft Foods Group in 2015, and operated as a meat processing and packaging plant under the Kraft Heinz name until closure in 2017. 910 Mayer, LLC purchased the property from Kraft Heinz in 2017 and has since cleared the majority of processing equipment and began renovating select portions of the Site for new uses.

The Subject Property has undergone significant subsurface investigation and remediation work from 1994 through the present. Activities included multiple remediation actions through the Wisconsin Department of Natural Resources (WDNR) to address historic releases and subsequent contamination of groundwater and soil, and associated investigation and reporting including Phase I and Phase II site investigations. Releases are primarily associated with above ground storage tanks (ASTs) and underground storage tanks (USTs) previously located at the Site.

Food processing operations at the Subject Property ceased in July of 2017. At the time of the Site visit, the majority of the facility buildings were vacant. A significant amount of equipment has been removed since the time operations ceased at the Site and interior demolition has occurred in some buildings. Portions of the main office building have been leased and are occupied, and several buildings are in varying states of being remodeled for new uses including commercial space (a maker’s space). Essentially all former processing equipment has been removed from all areas of the Site. The unused spaces have been boarded off from spaces undergoing renovation to limit access.

Phase I and Phase II environmental site assessments (ESAs) were completed in the summer and fall of 2017 to evaluate environmental conditions at the property and to support the redevelopment process. The Phase II ESA consisted of 69 soil borings/temporary well locations, and 16 sub-slab vapor sampling locations. As a result of these investigations most of the recognized environmental conditions (RECs) identified in the 2017 Phase I ESA were determined not to have resulted in impacts to the environment.

Based on the results of the Phase II ESA, three environmental release incidents were reported to the WDNR by the former owner (Kraft-Heinz). The first of three notifications of release reported to the WDNR related to three former filling stations located in the East parking lot (activity number 02-13-580722). The second notification of release related to the former ethylene dichloride above ground storage tanks (ASTs) located in the unpaved grassy area south of Building 59 (activity number 02-13-580721). The third notification of release related to the former spice room located in Building 43 (activity number 02-13-580723). Investigation and/or remediation of these incidents is ongoing and they are considered RECs for the Subject Property.

ERM has identified the following conclusions associated with the Site:

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<i>BRRTS #02-13-580722:</i> As part of a Phase II ESA conducted by ERM on behalf of 910 Mayer LLC, concentrations of volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), and lead detected in soil and/or groundwater above WDNR criteria in soil borings installed in the vicinity of three former filling stations located in the East parking lot. The WDNR was notified of the release on 1 December 2017. A site investigation work plan was submitted to the WDNR in October 2018. The results of investigations completed in 2019 were submitted to the WDNR in a letter dated June 17,2019.
<i>BRRTS #02-13-580721:</i> As part of a Phase II ESA conducted by ERM on behalf of 910 Mayer LLC, concentrations of chlorinated volatile organic compounds (CVOCs), primarily 1,2-dichloroethane (ethylene dichloride), PAHs, arsenic and lead in soil and/or groundwater were detected above WDNR criteria in the vicinity of the former ethylene dichloride ASTs located in the unpaved grassy area south of Building 59. Concentrations of 1,2-dichloroethane have also been detected in groundwater to the south of the Subject Property at the Demetral Landfill. The WDNR was notified of the release on 1 December 2017. A site investigation work plan was submitted to the WDNR in October 2018. The results of investigations completed in 2019 were submitted to the WDNR in a letter dated June 17,2019.
<i>BRRTS #02-13-580723:</i> As part of a Phase II ESA conducted by ERM on behalf of 910 Mayer LLC, CVOCs were detected in sub-slab soil gas samples collected in and around the former spice room located in Building 43. The WDNR was notified of the release on 1 December 2017. A site investigation work plan was submitted to the WDNR in October 2018. The results of investigations completed in 2019 were submitted to the WDNR in a letter dated June 17,2019.
<i>BRRTS #02-13-580328 &amp; #02-13-579045:</i> Two Notifications of hazardous substance discharge were issued by the WDNR in 2017 for the Hartmeyer Property. These are related to diesel fuel releases on the Hartmeyer Estate property. These incidents are listed as open incidents in the WDNR database, but closure documentation has been submitted for the 02-13-580328 incident. This property is across the railroad right of way from the 910 Mayer property, but impacts may extend onto the 910 Mayer property.

<sup>1</sup> Key ASTM definitions, including REC, CREC, HREC and de-minimis condition, are provided in Section 8.

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*BRRTS #03-13-001744:* The WDNR was notified on November 13, 1992 of a petroleum release associated with the removal of an underground storage tank. The BRRTS report states that soil contamination was present. The activity was closed on August 11 1993. The location of the LUST is unknown and no further information is available.

*BRRTS #02-13-000895:* Chlorinated compounds were detected in four on-Site groundwater wells in 1986. In 1994 the WDNR was notified of concentrations above Preventative Action Levels. The WDNR approved final closure of the activity on December 7, 2006. The activity is listed on the GIS registry, showing remaining vinyl chloride impacts above enforcement standards in the area beneath and north of the processing plant.

*BRRTS #02-13-221826:* The WDNR was notified on March 4, 1999 of a release associated with soil contamination. The location and nature of the contamination is unknown. The activity was closed on May 13 1999.

*BRRTS #03-13-114831:* An 1997 investigation into potential impacts from three removed USTs lead to the discovery of petroleum impacts. Groundwater monitoring activities continued in the area of contamination until 2005. Final closure was granted from the WDNR on 25 May 2006. The activity is listed on the GIS registry to document remaining soil and groundwater impacts. Asphalt barrier maintenance remains a condition of the activity closure.

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A 12,000 gallon UST containing diesel fuel was excavated and removed from the Site in 2015. Four soil samples were collected from the sidewalls of the excavation and analyzed for VOCs. All detections were below the Wisconsin Administrative Code Residual Contaminant Levels.

## 1.1 Introduction

### 1.1.1 Background

Environmental Resources Management, Inc. ("ERM") was retained by 910 Mayer LLC (the "Client") to complete a Phase I Environmental Site Assessment ("ESA") of the Central Property portion of the 910 Mayer Site, with its primary address located at 910 Mayer Avenue, Madison Wisconsin. The Central Property is the subject of this report (the "Subject Property", the "Site", or the "Facility").

The Site visit was performed on 16 August 2019 by ERM assessor, Mr. David de Courcy-Bower. ERM met with Mr. Lucas Thur of 910 Mayer LLC during the Site Visit.

The "User" of this Phase I ESA report, as prescribed under ASTM International (ASTM) Standard E 1527-13; *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* ("E1527-13") is defined as 910 Mayer LLC.

### 1.1.2 Scope

This environmental assessment was conducted in conformance with ERM's proposal dated 15 July 2019 and with the requirements of ASTM E 1527-13. Exceptions to, or deletions from, E1527-13 are described in Section 1.3.4 of this report.

ERM's Phase I ESA sought to gather information regarding: (1) current and past property uses and occupancies; (2) current and past use of hazardous substances and petroleum products; (3) waste management and disposal activities that could have caused a release or threatened release of hazardous substances; (4) current and past corrective actions and response activities to address past and on-going releases of hazardous substances at the Subject Property; and (5) properties adjoining or located near the Subject Property that have environmental conditions that could have resulted in conditions indicative of releases or threatened releases of hazardous substances to the Subject Property.

The scope of this Phase I ESA included:

- An onsite inspection to evaluate current conditions and identify areas of potential concern;
- A review of the history of the Subject Property and its vicinity through interviews and a review of various historical sources;
- Observation of adjoining properties and properties in the local area to evaluate the potential for adverse environmental impact to the Subject Property;
- Interviews/research of local city/county, tribal, state, and federal records, including contracting of Environmental Data Resources, Inc. (EDR) to identify regulatory listings for the Site and regulatory-listed facilities in the vicinity of the Site, as required in the regulatory records review section of the ASTM E1527-13; and
- Interviews and/or requests for information from the User and Subject Property owner, as deemed appropriate by the Environmental Professional.

There were no "non-scope considerations" in ASTM Standard E 1527-13, included in the scope of ERM's Assessment.

## 1.2 Methodology

### 1.3.1 Limiting Conditions during the Site Visit

The Site tour covered representative floors in all buildings focusing on former manufacturing areas, former maintenance shops, former areas of chemical storage, and areas of concern identified in former

Phase I ESAs. However, ERM was not able to view every individual room within the Facility at the time of the Site visit.

### **1.3.2 Data Gaps**

There were no data gaps identified during the Site assessment.

### **1.3.3 Significant Assumptions**

No significant assumptions have been made.

### **1.3.4 Exceptions to and Deletions from the ASTM E1527-13 Standard**

ERM has not identified exceptions to, or deletions from the ASTM E1527-13 standard.

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The Subject Property is situated on a generally rectangular parcel of land in Madison, Wisconsin. The Site is bounded by Aberg Avenue to the north, Packers Avenue to the east, Commercial Avenue to the south, and a rail corridor to the west. The general location of the Subject Property and the physiographic features of the surrounding area are shown on Figure 1.

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The Site is located at an elevation of approximately 855 feet above mean sea level, is generally flat, and slopes slightly to the south. Surface water at the Site also drains to the east via overland flow to storm drains that discharge into either Lake Mendota or Lake Monona. The overall topographic trend of the surrounding area also slopes to the south. The nearest surface water body is Lake Mendota.

According to flood zone and National Wetland Inventory (NWI) data collected, the Site is not located within wetland delineated areas or the 100 or 500-year flood plains. Flood zone and NWI data was obtained by EDR from the Federal Emergency Management Agency (FEMA) and U.S. Fish and Wildlife Services, respectively. The mean elevation of Lake Mendota is 847 feet and the mean elevation of Lake Monona is 844 feet, both lakes being several feet lower than the Site elevation and not likely to flood as a result of high water levels.

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According to the United States Department of Agriculture Natural Resources Conservation Service web soil survey data for Dane County, the surface soils in the vicinity of the Site are a combination of Virgil Silt Loam and Colwood Silt Loam and re-worked fill material consisting of sandy loam. The Virgil Silt Loam is described as a Class B soil with moderate infiltration rates, moderately well and well-drained soils with moderately coarse textures. The Colwood Silt Loam is described as a Class B/D soil with a drained/undrained hydrology class of soils that can be drained and are classified as poorly drained. Previous investigations at the Site encountered fill material overlying wetland-type deposits including muck, decayed organic material and organic clay soils in the southern portion of the Site and reworked fill overlying a lower asphalt surface on the east of the Site.

Groundwater was encountered at depths ranging between 1 and 10 feet below land surface. ERM's review of historic environmental investigations on the property and on adjacent properties indicates that the groundwater flow is inconsistent and varies depending upon geologic intervals, time of year, and amount of precipitation. Additionally, because of the shallow nature of the water table, direction of flow can be influenced by buried utility corridors, including the infiltration and exfiltration of sewers. The regional direction of groundwater flow is from east to west or southwest toward Lakes Mendota and Monona.

According to well driller's records in the area, the shallow subsurface is comprised of sand and clay deposits overlying sandstone bedrock which is encountered at least 200 feet below land surface.



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### 3.1.1 Real Estate Ownership Information

According to the City of Madison Assessor's Office web-based database, the Subject Property at 910 Mayer Avenue is identified by parcel number 081031301013, and is owned by 910 Mayer LLC. The parking area to the east is officially identified as parcel number 081031301089, also owned by 910 Mayer LLC. The majority of the Site was originally acquired for development in 1918 with additional properties on the eastern side of the Site added in the 1950s-60s. The parcel is zoned as Industrial-General District.

### 3.1.2 Subject Property Layout

The Subject Property is located on approximately 54 acres of land situated on a generally rectangular parcel, approximately 4 miles north-northwest of downtown Madison, WI. The Subject Property is developed with the following 5 primary structures:

- Office Building: The eight-story main office building currently has tenants on the 2<sup>nd</sup> and 7<sup>th</sup> floors and is undergoing extensive renovations.
- Commercial Building: The one-story, approximately 60,000 square foot structure, located southeast of the former processing plant. The building included storage space and a portion is leased by the Bodgery, a maker space.
- Vacant Buildings (Former Processing Plant): The former processing plant buildings are currently vacant. The buildings formerly housed production, storage, and office operations. The former processing plant is comprised of approximately 17 buildings that have been combined as the Site was renovated and modified over the course of its history.
- Vacant Building (Former Power Plant): The three-story, approximately 30,000 square foot structure, located southwest of the processing plant, formerly housed power production, storage, and repair operations
- Vacant Building (Former Cooling Building): The one-story, approximately 13,000 square foot structure, located south of the processing plant, formerly housed ammonia tanks and relay supply equipment. The building is currently vacant and the ammonia system has been decommissioned.
- Vacant Building (Former Wastewater Treatment Building/Sludge Dewatering): These structures, located on the south-central portion of the Subject Property are each one story, and 7,000 and 2,200 square feet respectively. They formerly housed wastewater processing and dewatering operations.

ERM noted that each of the above structures is comprised of multiple buildings that have been constructed and connected through the Site's history.

A Site Layout Map is provided as Figure 2. Photographs of the Site are included as Appendix A. Historic aerial photographs are included in Appendix B.



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Currently, the majority of the Site sits vacant, boarded off to limit access while select portions of the Site are undergoing renovation activities for new uses. Floors 2 and 7 of the main office building (Building 27), have been leased for administrative and office use purposes. The commercial building (Building 20) has been partially leased and is undergoing renovation activities for use as commercial space. Building 43, 50, and 72 have been largely stripped to prepare for further renovation activities. Remaining buildings are generally unused, and sit as they did at the time of decommissioning, with all processing equipment removed. ERM observed the powerhouse (Building 12) generally unaltered from the time of decommissioning, and former equipment still remains on Site in this building.

According to Site representatives, there are currently three full-time employees and numerous contract workers. They are tasked with maintaining the Subject Property while contract workers are involved in maintenance and renovation of the Subject Property. Upgrades to the electricity, water, and sanitary services have been made in order to provide separate services to different buildings. Water utility is disconnected or remains shut-off throughout the vacant buildings at the Facility. According to Site representatives, Safety Kleen previously removed all hazardous materials from the Site and emptied all storage tanks, and the ammonia cooling system.

The wastewater treatment plant on Site has been shut down, along with the powerhouse.

ERM observed construction activities in the lobby of the main office building.

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### 3.3.1 *Historical Summary*

As early as 1892, the Site was undeveloped and contained marshy areas. By 1915, the Subject Property was developed with a meat packing company that was purchased by Oscar Mayer in 1919. The processing facility was continually expanded and upgraded through the 2010s. The facility was operated by Oscar Mayer until 1981, at which time Oscar Mayer was purchased by General Foods, which was later acquired by Philip Morris in 1985. In 1989, Phillip Morris merged General Foods with the newly acquired Kraft Foods, Inc. resulting in the company being renamed Kraft General Foods, Inc. In 1995, the company was renamed Kraft Foods, Inc. (later Kraft Foods Group). In 2015, H.J. Heinz Co. purchased Kraft Foods Group and began operations as Kraft Heinz. The facility ceased operations by August 2017. 910 Mayer, LLC purchased the property from Kraft Heinz in 2017 and has since cleared the majority of processing equipment and began renovating select portions of the Site for new uses.

Features not associated with the processing facility located on the Central Property by the 1930s included dwellings (north-northeast), undeveloped and agricultural land (east-center; identified as a US Government Reservation), and potential coal storage areas (southern portion). By the late 1940s, the northern dwellings were razed and a coal mound was present in this area, as well as a concrete block facility; part of an ice skating rink was present on the northeast corner and a gasoline station was present on the east-central portion. According to city directories, facility maps and aerial photographs, it appears that three gasoline filling/service stations were located on the eastern portion of the Central Property between 1958 and 1967. By 1968, the east adjacent Packers Avenue was expanded and reconfigured and several structures formerly located on the Central Property (including the gasoline station(s) and skating rink) were razed; these areas were paved and used for parking purposes.

While operating, the Facility received meats in raw form, additives including flavorings, spices and colorings, and condiments that were stored in refrigerators, freezers, non-climate controlled warehouses. Other food raw materials including corn syrup, salt, potassium lactate and sodium lactate were stored in ASTs located north of the processing plant. The raw meats and additives were processed and packaged into meat products including hotdogs, sausages, salami and bologna. The Site also functioned as a distribution center for condiments.

Former operations at the facility included the use of various chemicals, including solvents, petroleum products, acids and maintenance-related products to support food/meat preparation and packaging processes. Stock pens were previously present on the western portion of the Site to house hogs and cattle, which were slaughtered on site until the early 1980s.

A detailed map showing building identification numbers and dates of construction is attached in Appendix D.

### 3.3.2 Evaluation of Historical Information Sources

To determine past uses of the Subject Property and surrounding properties, ERM reviewed historical sources of information as outlined in the References section of this report (Section 7). Copies of pertinent historical sources are also appended.

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% %`	According to site representatives the Subject Property was first developed in 1916. Prior to 1916 the Site is believed to have been an undeveloped marshy area. According to Site representatives, Kraft Heinz, under a different name at the time, purchased and began operating the facility in 1918.
% ' +!%) )`	The earliest document available to ERM is an aerial photograph from 1937. This photo shows development on the southern portion of the site. The north portion of the Site, roughly half of the current Subject Property, and surrounding areas appear to be generally undeveloped. Notable surrounding development includes a wastewater treatment plant to the northeast and residential development to the southeast and southwest. In both a 1949 and 1955 photograph, expansion is evident at the site to both the north and south. By 1955, almost all of current Subject Property shows development with the exception of the northernmost portion of the Site. During this time significant expansion of residential areas is evident in the areas surrounding the Site
% * , !% +*`	The Site appears generally the same until a 1968 aerial showing the relocation of Packers Avenue and Aberg Avenue defining the current property boundary. Packers Avenue having moved eastward, parking lots are evident along the east side of the property in 1968. In 1976, significant changes to the northwest part of the Facility are evident.
% +* !&\$%\$`	The Site appears generally the same from the 1976 aerial through the 2010 aerial. On-Site building changes and surrounding development are evident over this span, however all major site features are evident in 1976 and no major expansion occurs thereafter. The Site and surrounding area appears in 2010 generally as it did at the time of the Site visit.
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### 3.3.3 Discussion of Historical Environmental Issues/ Assessments/ Investigations

ERM reviewed two previous Phase I ESAs prepared for the Site, as referenced in Section 6. The following noteworthy items were identified through a review of the previous reports and additional historical sources:

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ERM reviewed the 2016 Phase I Environmental Site Assessment (Phase I) conducted by Ramboll-Environ that provides a description of historical activities at the Site. In addition, ERM reviewed historical site plans and maps provided by facility representatives and publicly available information on the WDNR website.

Observations made by Ramboll-Environ were made prior to the facility shut-down and are somewhat consistent with ERM's 2017 Phase I investigation. However, ERM identified several additional RECs based on review of historical facility maps, not previously reviewed by Ramboll-Environ, discussed below.

The Ramboll-Environ Phase I ESA identified the following RECs:

1. Tank rooms of unknown use identified on historical Sanborn maps;
2. Gasoline filling and repair stations in the 1950s and 1960s;
3. Past manufacturing of insecticides in the late 1960s;
4. Reported historical use of chlorinated solvents in the vicinity of the spice room and other portions of the Site that were not sampled as part of the chlorinated volatile organic compound (VOC) Environmental Repair Program (ERP) closure;
5. Below-grade/above-grade features of unknown status, including a zinc chloride tank, five gasoline tanks, and a below-ground automobile lift; and
6. Former coal storage areas. In addition, the West Property was previously used as a former coal and fuel manufacturing facility, and the northeastern portion where the ASTs were previously located was remediated.

The Ramboll-Environ Phase I ESA identified the following CRECs:

The CRECs were identified as being associated with regulatory closure and were determined by Ramboll Environ not to represent a current environmental concern, assuming the buildings, structures and other institutional controls or engineered barriers remained in place.

1. A 12,000-gallon diesel fuel UST was excavated and removed from an area outside the west wall of the maintenance shop (Building 20) in 2015. Water was observed in the excavation; however, no sheens were visible on the water. A total of four confirmatory soil samples were collected from sidewalls of the excavation and analyzed for petroleum VOCs; soil samples were not collected from the base of the excavation, due to the presence of water, or the east sidewall of the excavation, due to the presence of the maintenance shop's foundation. VOC concentrations ranged between <0.025 ppm to 0.041 parts per million (ppm), but all detections were below the Wisconsin Administrative Code (WAC) NR 720 Residual Contaminant Levels (RCLs) Protective of Groundwater Quality values. As the petroleum VOCs concentrations were below reportable levels, Ramboll-Environ considered this matter to represent a CREC.

2. Previously investigation environmental release incidents that received WDNR closure. ERM also reviewed WDNR closure documentation associated with these CRECs and a discussion is provided below.

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ERM conducted a Phase I Environmental Site Assessment of the Site for 910 Mayer in October 2017. The Phase 1 was completed after shut down of operations during the decommissioning process, but prior to acquisition by 910 Mayer LLC. The report details the Site history, including historical Site development, operations and subsurface investigation and remediation work prior to 2017. Previous activity included remediation conducted through the WDNR to address historic releases and subsequent contamination of groundwater and soil, and associated investigation and reporting including Phase I and Phase II site investigations. Releases are primarily associated with above ground storage tanks (ASTs) and underground storage tanks (USTs) previously located at the Site.

The findings of the ERM report confirmed the RECs identified by Ramboll, and identified the following additional RECs:

1. A former area of unidentified drum storage located to the west of current Building 71.
2. A former area of apparent wastewater discharge located to the south of Building 12.
3. Two 6,300 gallon Isopropanol tanks and two 6,300 gallon ethylene dichloride tanks associated with an incinerator shown on the southern portion of the Central Area on the 1950 Sanborn maps in the Phase I.
4. Two 10,000 gallon and one 9,000 gallon grease storage tanks/units formerly located under the southern portion of Building 72.
5. A former 10,000 gallon road oil AST located to the south of Building 12.
6. Confirmed locations of three former filling stations located in the East parking lots of the Central Area and to the east of Packers Avenue Service Road (location of Packers Avenue prior to relocation).
7. Former laundry area located in the northern portion of Building 12.

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ERM performed a Phase II ESA on behalf of 910 Mayer LLC in connection with diligence activities related to a potential acquisition of the property. The Phase II ESA was designed to investigate RECs identified in ERM's October 2017 Phase I ESA. It included 69 soil borings, numerous soil and groundwater samples, and 16 sub-slab vapor samples. ERM disclosed the results of the Phase II investigation to 910 Mayer LLC, who forwarded them to Kraft Heinz Food Company ("Kraft Heinz") the property owner at the time. Kraft Heinz shared the results with Ramboll-Environ, who, on behalf of Kraft Heinz, reported three notifications of release to the WDNR on October 19, 2017. As a result of these investigations most of the recognized environmental conditions (RECs) identified in the 2017 Phase I ESA were determined not to have resulted in impacts to the environment.

The first of three notifications of release reported to the WDNR related to concentrations of VOCs, PAHs, and lead detected in soil and/or groundwater above WDNR criteria in soil borings installed in the vicinity of three former filling stations located in the East parking lot (activity number 02-13-580722). The second notification of release related to concentrations of CVOCs, primarily 1,2-dichloroethane (ethylene dichloride), PAHs, arsenic and lead in soil and/or groundwater above WDNR criteria in the vicinity of the former ethylene dichloride ASTs located in the unpaved grassy area south of Building 59 (activity number 02-13-580721). The third notification of release related to concentrations of CVOCs detected in sub-slab





of potential soil and groundwater impacts associated with releases from the USTs in 1997. As petroleum impacts were discovered, Leaking UST (LUST) #03-13-114831 was assigned to the site. Groundwater monitoring activities continued to be performed in this area until 2005. The WDNR approved final closure on May 25, 2006 and listed this LUST on their GIS Registry to document residual soil and groundwater impacts, including residual soil contamination (gasoline range organics [GROs], diesel range organics [DROs], and benzene, toluene, ethylbenzene, and xylenes [BTEX]) and petroleum-impacted groundwater beneath the maintenance shop and outside the shop, near its west-central portion. The maintenance of an asphalt barrier near the documented residual soil impacts was assigned as part of the LUST closure. Although residual contamination remains on site, because closure has been granted, this is considered a CREC.

*BRRTS #02-13-580721 (Former DCE Tank)*

As identified in ERM's 2017 Phase 1, two former 6,300-gallon ethylene dichloride (DCE) ASTs were located on the southern portion of the Central Property Site. During the ERM Phase II investigation, concentrations of PAHs and CVOCs - primarily ethylene dichloride - were detected in soil and/or groundwater above WDNR criteria in the vicinity of the former ethylene dichloride storage tanks. A release from the former DCE storage tanks had not previously been identified, so the release was reported to the WDNR on November 29, 2017. On March 30, 2018, the WDNR emailed data from select monitoring wells associated with the City of Madison Demetral landfill. Groundwater monitoring results indicated the presence of ethylene dichloride in multiple groundwater monitoring wells screened to depths of up to 244 feet. Based on this information and a subsequent meeting with the WDNR, the proposed Site Investigation Work Plan was modified. A site investigation work plan was submitted to the WDNR in October 2018. The results of investigations completed in 2019 were submitted to the WDNR in a letter dated June 17, 2019.

*BRRTS #02-13-580722 (Former Filling Station)*

As identified in ERM's 2017 Phase 1, three former filling stations were located on the eastern portion of the Central Property Site between 1958 and 1967. By 1968, the east adjacent Packers Avenue was expanded and reconfigured and several structures formerly located on the Central Property (including the gasoline stations) were razed; these areas were paved and used for parking purposes. Records regarding the number of USTs and their contents is not available. Although no documentation of removal of the USTs is available for the former filling station properties, a geophysical survey performed as part of the Phase II conducted by ERM did not indicate the presence of USTs at the former filling station properties. No indications of light non aqueous phase liquids (LNAPL) were made during the Phase II, however subsurface investigation revealed concentrations of petroleum-related VOCs, PAHs, and lead in soil and/or groundwater above WDNR criteria in the vicinity of the three former filling stations. The release was reported to the WDNR on November 29, 2017. A site investigation work plan was submitted to the WDNR in October 2018. The results of investigations completed in 2019 were submitted to the WDNR in a letter dated June 17, 2019.

*BRRTS #02-13-580723 (Former Spice Room)*

As identified in ERM's 2017 Phase 1, a Former Spice Room on the north-western portion of the Central Property Site was used as an area to prepare, mix and store spices used within the facility for food production. The building is currently unoccupied and operations have been discontinued. The Ramboll-Environ Phase I ESA indicated that chlorinated solvents may have historically been used in the vicinity of the spice room as part of an extraction process. Additionally, it was noted that there was corroded concrete flooring in the former spice room. The ERM Phase II investigation identified CVOCs in soil gas samples taken in the vicinity of the building. Trichloroethylene (TCE) was detected at concentrations that exceeded the Wisconsin sub-slab vapor risk screening level (VRSL) for industrial properties, and contamination was determined to be associated with operations in the Former Spice Room. Sampling of

groundwater for CVOCs detected only vinyl chloride that is most likely from the closed remedial action associated with a chlorinated solvent release to the north of the former spice room (BRRTS# 02-13-000895). The TCE release was reported to the WDNR on November 29, 2017. A site investigation work plan was submitted to the WDNR in October 2018. The results of investigations completed in 2019 were submitted to the WDNR in a letter dated June 17, 2019.

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#### 4.1.1 *Underground Storage Tanks (USTs)*

According to Site representatives, no USTs are currently located on the Subject Property, and no visual indication of the potential presence of USTs was noted by ERM during the Site visit.

According to interviews with former Site representatives, all previously used USTs were removed from the Subject Property, the latest about five years ago. Former Site representatives interviewed in 2017 also noted the presence of former gas filling stations along the east side of the property that may have utilized USTs but were unsure of specifics regarding possible tanks at the former filling stations.

#### 4.1.2 *Aboveground Storage Tanks (ASTs)*

According to Site representatives, no active ASTs are present on the Site. The only AST that could be considered still in use is part of the fire suppression system.

During previous operations prior to 2017, approximately 30 former ASTs contained various materials and chemicals including ammonia, potassium-lactate, sodium-lactate, sulfuric acid, and fuel oil.

Historically, a number of ASTs with unknown contents existed at the Site.

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#### 4.2.1 *Hazardous Waste*

No evidence of hazardous waste was noted during the Site visit. During the recent Site visit, numerous small areas of staining were observed in the Facility, however, the following areas of significant staining were observed:

- Corroded concrete flooring in the former spice-room (Building 43).
- Staining in the powerhouse near former and current boilers.

The above areas were identified in ERM's 2017 Phase I, and investigated as part of ERM's Phase II. Based on the notifications submitted to the WDNR and associated work plans, the former spice-room was confirmed as a REC following subsurface investigations.

#### 4.2.2 *Non-Hazardous Waste*

According to Site representatives, the only routine waste currently generated on site is general trash and recycling. Waste is collected by the City of Madison. Royal dumpster containers were observed on-Site and are associated with demolition and renovation of the main office building.

According to Site representatives, contractors on Site are responsible for their own waste collection and disposal. Areas of contractor operation appeared to be generally well kept and waste appeared to be handled properly at the time of the Site visit.



### 4.2.3 Other Regulated Waste

ERM did not observe the storage or disposal of other regulated waste on the Site at the time of the Site visit. According to Site representatives, during decommissioning activities universal waste was collected in dedicated containers and shipped for proper disposal. Site representatives were unsure of the company contracted for universal waste disposal.

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### 4.3.1 Water Supply

The Site is currently supplied water from the City of Madison for sanitary purposes and human use. Historically, the Site received water from three on-Site wells. According to former Site representatives the wells have not been used in over 10 years and were properly abandoned.

### 4.3.2 Wastewater

Current operations at the Site do not generate any process wastewater. Historically, process wastewater was directed through a floor drain system to 7 sumps located throughout the manufacturing building. The contents from the sumps were treated at the onsite wastewater treatment plant. According to Site representatives the onsite wastewater treatment facility has been bypassed as part of decommissioning activities since 2017.

Sanitary water is currently, and has historically been, discharged to City of Madison public treatment works.

### 4.3.3 Storm Water

Currently storm water drains via sheet/overland flow to storm drains and roof drains located around the Subject Property. The storm water is currently directed to city of Madison storm sewers.

According to former Site representatives when operations were in progress at the site, storm drains and roof drains with the potential to be impacted by industrial processes were directed to the wastewater sumps and subsequently treated at the onsite wastewater treatment plant. This constituted approximately 20% of total storm water volume. Currently, storm water is still collected and handled by wastewater sumps; however, the wastewater treatment plant has been bypassed since 2017.

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ERM completed a Hazardous Building Materials Inventory, including investigations for PCBs in 2017. The investigation took place from 21 August 2017 through 5 September 2017 in specific structures on Site in preparation for demolition. The material inventory included laboratory testing of paint chip and caulk samples collected from the Subject Property.

In addition to sampling activities, ERM observed PCB containing light ballasts throughout the facility. ERM notes the materials found are typical of buildings of this age and require the common action of removal prior to demolition.

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LBP was banned by the United States government for use in residences and other buildings where the public could be exposed in 1978; industrial use of LBP was phased out during the same period.

ERM completed a Hazardous Building Materials Inventory, including investigations for LBP in 2017. The investigation took place from August 21 2017 through September 5 2017 in specific structures on Site in preparation for demolition. The material inventory included laboratory testing of paint chip and caulk samples collected from the Subject Property. ERM notes the materials found are typical of buildings of this age and require the common action of removal prior to demolition.

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The Site is located in an area that is currently characterized by light industrial, commercial and residential use. The Site is located northeast of Downtown Madison, Wisconsin. The Subject Property sits between two lakes, Lake Mendota approximately one quarter mile to the west, and Lake Monona approximately one half mile to the southeast. The surrounding area has been associated with commercial and industrial activity since the 1930's. As such, historical surrounding property use represents a general impact concern to the Subject Property.

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Land use in the area of the Subject Property includes light industrial, commercial and residential land. The adjoining properties and nearby land use, as observed by ERM at the time of the Site inspection, is as follows:

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8 jfYV]cb'	8 jgW gg]cb'
BcfH'	The Subject Property is bounded to the North by Aberg Avenue. Across Aberg Avenue is an auto shop, a small property of storage units, and residences.
9Ugh	The Subject Property is bordered to the east by Packers Avenue. On the east side of Packers Avenue are residences and the East Property also owned by 910 Mayer, currently developed into baseball fields and leased to the City of Madison as a city park.
Gci H'	The Site is bordered to the south by Commercial Avenue. Across Commercial Avenue is a storage facility, Madison Area Technical College, and the Demetral Landfill.
K Ygh	A railroad corridor bounds the Subject Property to the West. Across the railway is the West Property also owned by 910 Mayer, and an area commonly referred to as the Hartmeyer Estate. The West Property is currently comprised of undeveloped grass cover, a gravel storage yard rented by Decker Supply Co, and the Madison Metro Bus North Transfer Point. The Bus station includes an open-air covered bus shelter, and a commuter parking lot. The Hartmeyer estate is undeveloped, grass and brush covered land

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The following other listed surrounding facilities are worthy of note and further discussion:

■ BRRTS Database

*BRRTS #03-13-000053*

Notification was made to the WDNR on February 17, 1989 of a petroleum release due to a ruptured pipeline on the adjacent leased property known as the Hartmeyer Estate property. The pipeline connected a 250,000 gallon petroleum fuel oil AST to the facility. The ruptured pipeline resulted in a 14,000 gallon release, which is reported as a REC in this document. Product removal was conducted from the nearby monitoring well MW-5 and approximately 136 liters of fuel oil were recovered from this well between 1999 and 2006. On January 23, 2008, the WDNR closed the activity with a continuing obligation for residual soil and groundwater contamination and the activity was placed on the BRRTS database for closed sites with soil and groundwater use restrictions in the vicinity of the petroleum release.

*BRRTS #02-13-580328 & #02-13-579045*

Two Notifications of hazardous substance discharge were issued by the WDNR in 2017 for the Hartmeyer Property. These are related to diesel fuel releases on the Hartmeyer Estate property. These incidents are listed as open incidents in the WDNR database, but closure documentation has been submitted for the 02-13-580328 incident. This property is across the railroad right of way from the 910 Mayer property, but impacts may extend onto the 910 Mayer property. As such this is considered a REC.

*BRRTS #02-13-315773*

On June 11, 2002 notification was made to the WDNR of contamination at the Burke Wastewater Treatment Plant site at 1401 Packers Ave. This property is approximately one quarter mile northeast of the Subject Property. The WDNR classifies the contamination as a high-risk Environmental Repair. The activity is currently open. According to the Ramboll-Environ Phase I report, chlorinated solvents may have migrated to the northeastern portion of the Subject Property. In addition, documents made available on the BRRTS database since the 2017 Phase I ESA indicate very low level PFAS groundwater contamination, specifically PFOA and PFOS. Therefore, there may be a potential source of PFAS in vicinity of the site. It is expected that liability and remediation activities resultant of contamination from off-site properties is the responsibility of the listed responsible party.

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Based upon the EDR Environmental Database Report obtained by ERM (see Appendix E), a local agency file review for adjoining properties was not warranted. The following historical adjoining properties are listed on the EDR regulatory database report:

On 9 January 2001 the WDNR was notified of soil contamination of arsenic and VOCs at what is described as the Millivander Property to the south of the Site. The activity was closed with no further action required on 23 January 2011. Contamination from this event is unlikely to affect the Subject Property.

The 910 Mayer West Property, located to the west of the Site, has a history of contamination, investigation and remediation activities. Events associated with this property are detailed in ERM's Phase I ESA report dedicated to this portion of the 910 Mayer Property.

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ERM has performed a *Phase I Environmental Site Assessment* in conformance with the scope and limitations of ASTM Practice E1527 of the Site (as defined in Section 1 of this report). Exceptions to, or deletions from, this practice are described in Section 1.3.4 of this report.

ERM has identified the following conclusions associated with the Site:

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<i>BRRTS #02-13-580722:</i> As part of a Phase II ESA conducted by ERM on behalf of 910 Mayer LLC, concentrations of volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), and lead detected in soil and/or groundwater above WDNR criteria in soil borings installed in the vicinity of three former filling stations located in the East parking lot. The WDNR was notified of the release on 1 December 2017. A site investigation work plan was submitted to the WDNR in October 2018. The results of investigations completed in 2019 were submitted to the WDNR in a letter dated June 17,2019.
<i>BRRTS #02-13-580721:</i> As part of a Phase II ESA conducted by ERM on behalf of 910 Mayer LLC, concentrations of chlorinated volatile organic compounds (CVOCs), primarily 1,2-dichloroethane (ethylene dichloride), PAHs, arsenic and lead in soil and/or groundwater were detected above WDNR criteria in the vicinity of the former ethylene dichloride ASTs located in the unpaved grassy area south of Building 59. Concentrations of 1,2-dichloroethane have also been detected in groundwater to the south of the Subject Property at the Demetral Landfill. The WDNR was notified of the release on 1 December 2017. A site investigation work plan was submitted to the WDNR in October 2018. The results of investigations completed in 2019 were submitted to the WDNR in a letter dated June 17,2019.
<i>BRRTS #02-13-580723:</i> As part of a Phase II ESA conducted by ERM on behalf of 910 Mayer LLC, CVOCs were detected in sub-slab soil gas samples collected in and around the former spice room located in Building 43. The WDNR was notified of the release on 1 December 2017. A site investigation work plan was submitted to the WDNR in October 2018. The results of investigations completed in 2019 were submitted to the WDNR in a letter dated June 17,2019.
<i>BRRTS #02-13-580328 &amp; #02-13-579045:</i> Two Notifications of hazardous substance discharge were issued by the WDNR in 2017 for the Hartmeyer Property. These are related to diesel fuel releases on the Hartmeyer Estate property. These incidents are listed as open incidents in the WDNR database, but closure documentation has been submitted for the 02-13-580328 incident. This property is across the railroad right of way from the 910 Mayer property, but impacts may extend onto the 910 Mayer property.

<sup>2</sup> Key ASTM definitions, including REC, CREC, HREC and de-minimis condition, are provided in Section 8.

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<p><i>BRRTS #03-13-001744:</i> The WDNR was notified on November 13, 1992 of a petroleum release associated with the removal of an underground storage tank. The BRRTS report states that soil contamination was present. The activity was closed on August 11 1993. The location of the LUST is unknown and no further information is available.</p>
<p><i>BRRTS #02-13-000895:</i> Chlorinated compounds were detected in four on-Site groundwater wells in 1986. In 1994 the WDNR was notified of concentrations above Preventative Action Levels. The WDNR approved final closure of the activity on December 7, 2006. The activity is listed on the GIS registry, showing remaining vinyl chloride impacts above enforcement standards in the area beneath and north of the processing plant.</p>
<p><i>BRRTS #02-13-221826:</i> The WDNR was notified on March 4, 1999 of a release associated with soil contamination. The location and nature of the contamination is unknown. The activity was closed on May 13 1999.</p>
<p><i>BRRTS #03-13-114831:</i> An 1997 investigation into potential impacts from three removed USTs lead to the discovery of petroleum impacts. Groundwater monitoring activities continued in the area of contamination until 2005. Final closure was granted from the WDNR on 25 May 2006. The activity is listed on the GIS registry to document remaining soil and groundwater impacts. Asphalt barrier maintenance remains a condition of the activity closure.</p>
<b>&lt;]gfcf]WU`FYW±[ b]nYX'9bj ]fcba YbHJ`7 cbX]h]cbg`fk F97 gL±</b>
<p>A 12,000 gallon UST containing diesel fuel was excavated and removed from the Site in 2015. Four soil samples were collected from the sidewalls of the excavation and analyzed for VOCs. All detections were below the Wisconsin Administrative Code Residual Contaminant Levels.</p>

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The following sources were used in conducting the Phase I ESA detailed in this report. Where information obtained from these sources was determined to be useful by the Environmental Professional, it is summarized in the body of this report. Copies of prior environmental reports and other pertinent documents are appended.

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Kraft Heinz (Former Site owner)	Mr. Oscar Garcia Mr. Josh Connors	708-655-5269	Interview for 2017 Phase I ESA.
City of Madison City Assessor's Office online database	NA	608-266-4257	Property ID's and zoning information
Environmental Data Resources, Inc. 6 Armstrong Road, 4th Floor Shelton, CT 06484	NA	800-241-6476	Environmental Database Search Report, topographic maps, aerial photographs, city directories, fire insurance maps.
Other Internet resources	NA (BRRTS database, and SHWIMS database)	N/A	Aerial photographs (Google Earth); Site database searches ( <a href="http://www.epa.gov/echo/">http://www.epa.gov/echo/</a> , BRRTS database, and SHWIMS database)

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		Gi V'YWiDfcdYflm	Gi ffc] bX]b[ 'DfcdYfl]Yg
Mr. Oscar Garcia Mr. Josh Connors	General Information General Information	2014 to 2017 1995 to present	NA NA
EDR	Sanborn Fire Insurance Maps	1942, 1950, 1986	1942, 1950, 1986
EDR	Historical Topographic Maps	1890, 1892, 1904, 1906, 1959, 1969, 1974, 1983, 2013	1890, 1892, 1904, 1906, 1959, 1969, 1974, 1983, 2013
EDR	City Directories	1958, 1963, 1968, 1973, 1978, 1983, 1988, 1992, 1995, 1999, 2003, 2008, 2013	1958, 1963, 1968, 1973, 1978, 1983, 1988, 1992, 1995, 1999, 2003, 2008, 2013
EDR	Aerial Photographs	1937, 1949, 1955, 1962, 1968, 1976, 1980, 1986, 1993, 2000, 2005, 2006, 2008, 2010, 2017	1937, 1949, 1955, 1962, 1968, 1976, 1980, 1986, 1993, 2000, 2005, 2006, 2008, 2010, 2017
EDR	Environmental Database Report	Discussed in Section 3.3.3	Discussed in section 5.3-5.4

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June 2016	Ramboll Environ Phase I Environmental Site Assessment Report
October 2017	Environmental Resources Management Phase I Environmental Site Assessment
October 2018	Environmental Resources Management Site Investigation Work Plan - Former Filling Stations
October 2018	Environmental Resources Management Site Investigation Work Plan - Former Ethylene Dichloride Tank
October 2018	Environmental Resources Management Site Investigation Work Plan – Former Spice Room
July 2019	Environmental Resources Management 910 Mayer LLC, Madison, Wisconsin - Site Investigation Data
N/A	Kraft Heinz compiled a dataroom with documentation related to BRRTS events, tank closures, well, abandonments, waste and material inventories and reporting, and other information with potential environmental consequence.



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There are a number of exclusions and limitations associated with this assessment. These are briefly outlined below:

- This report has been prepared by ERM exclusively for Client and may not be relied upon by any other recipient, person or entity (together, henceforth, "Other Recipient") without ERM's express, written permission. ERM makes no warranties or representations to any Other Recipient and has no obligation to advise any Other Recipient regarding changes to this report or changes in applicable laws and regulations subsequent to the date of this report. In receiving this report, any Other Recipient agrees that (a) it will make no claim against ERM that relates in any way to this report, or the Other Recipient's access to this report, and (b) to the fullest extent permitted by applicable law, Other Recipient hereby releases ERM from, and will defend and hold harmless ERM from and against, any claim, action, suit, damage, loss, award, liability, expense, cost, or fees including attorneys' fees arising from or relating to any use or disclosure of the report or any portion thereof by Other Recipient or any third party to whom Other Recipient discloses the Report. Notwithstanding the foregoing, if requested, ERM will issue reliance letters allowing lenders or other interested parties to rely on the contents of this report, in accordance with ERM's terms and conditions, for financing or other purposes.
- ERM is an environmental consulting firm, and as such we make no representations regarding questions of legal or accounting interpretation. Consultation with an attorney and/or certified accountant should be made with respect to any legal or accounting matters, or items that require such interpretation, under any law, regulation or contract.
- ERM did not independently verify information on publicly available databases. Therefore our findings are accurate and complete only to the extent that information provided to ERM was itself accurate and complete.
- The conclusions presented in this report represent ERM's professional judgment based on the information made available to us during the course of this assessment and are true and correct to the best of ERM's knowledge as of the date of this report.
- No sampling or testing of soils, waters or other materials was included as part of this assessment. However, reference may have been made to previous testing and sampling, as appropriate.
- Unless otherwise stated within this report, ERM has assumed that the Site will continue to be used for current purposes. ERM's assessment does not include provision for Site closure or change in land use, unless expressly stated above.
- State-specific regulations related to property transfer (or ownership changes) may apply to the proposed transaction. Costs related to compliance with these State requirements were not included in ERM's Assessment.
- Unless otherwise stated, ERM assumes the User (as defined in E1527-13 – see Section 8.4) is the Client.

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The innocent landowner, contiguous owner, and prospective purchaser defenses to liability under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) require that a person acquiring property conduct an all appropriate inquiry with respect to the Site. ERM has conducted this environmental assessment in accordance with the standards for conducting an all appropriate inquiry

set forth at 40 CFR. 312. Those standards require the application of scientific principles and professional judgment to certain facts with resultant subjective interpretations and exercise of discretion. Professional judgments expressed herein are based on the facts currently available within the limits of the existing data, and data gaps identified herein, scope of work, budget, and schedule. Those standards also require that the User undertake certain additional inquiries. In addition, the liability defenses under CERCLA require, among several other things, that the User after the acquisition stop any continuing releases, prevent any future threatened releases and prevent or limit human, environmental or natural resource exposure to any hazardous substance released at the Site. Therefore, ERM makes no warranties, expressed or implied, including, without limitation, warranties as to merchantability or fitness for a particular purpose, including any warranty that this Phase I assessment will in fact qualify User for the innocent landowner, contiguous property owner or prospective purchaser defense to liability under CERCLA. ERM's assessment is limited strictly to identifying recognized environmental conditions associated with the Site. Results of this assessment are based upon the visual Site inspection of readily accessible areas of the Site conducted by ERM personnel, information from interviews with knowledgeable persons regarding the Site, information reviewed regarding historical uses, information provided by contacted regulatory agencies, and review of publicly available and practically reviewable information identifying current and historical uses of the property and surrounding properties. All conclusions and recommendations regarding the Site represent the professional opinions of the ERM personnel involved with the project, and the results of this report should not be considered a legal interpretation of existing environmental regulations. ERM assumes no responsibility or liability for errors in the public data utilized, statements from sources outside of ERM, or developments resulting from situations outside the scope of this project. We make no warranties, expressed or implied, including, without limitation, warranties as to merchantability or fitness for a particular purpose.

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### 8.3.1 Environmental Database Search

ERM contracted EDR to conduct a database search for agency records. The appended database report defines and summarizes the ASTM databases reviewed in the EDR report and notes if any listed facilities (including the Subject Property) were identified in the specified radius. The locations of the listed facilities identified in the EDR report were evaluated to determine which listed facilities were located within the ASTM specified search distance from the Subject Property boundary. Only those listed facilities worthy of further discussion are discussed within the applicable sections of this report and data on additional listed facilities is included in the appended EDR database report.

It should be noted that the computerized geocoding technology used in the database search is based on available census data and is only accurate to  $\pm 300$  feet. The EDR report provides a list of unmapped facilities for which inadequate location information was provided. ERM has reviewed the list of "unmapped" listed facilities to determine if these listed facilities are within the study radius. If the "unmapped" listed facilities appeared likely to be within the search radius for a specific database, they are discussed in the applicable sections of this report.

Listed facilities identified within the study radii were evaluated to determine if they are likely to have adversely impacted the Subject Property. The criteria used to evaluate the potential for adverse impact to the Subject Property include:

- Distance from the Subject Property;
- Expected depth and direction of groundwater and surface water flow;
- Geology and physical ground conditions;
- Expected storm water flow direction;
- The presence/absence of documented contaminant releases at the identified sites that have not been remedied to the satisfaction of regulators; and
- The current regulatory status of the listing.

The identification of a listed facility as potentially upgradient or downgradient is based on the expected direction of groundwater flow referenced in Section 2.3.

### 8.3.2 User Provided Information

ERM contacted the User with respect to the following information:

- An evaluation of the presence of Environmental Cleanup Liens for the Subject Property;
- Activity and Use Limitations such as engineering controls (e.g., slurry walls, caps) and land use restrictions or institutional controls (e.g., deed restrictions, covenants) that may be in place for the Subject Property;
- Specialized Knowledge that includes personal knowledge or experience related to the Subject Property or nearby properties based on professional experience or knowledge of the Subject Property;
- Fair Market Value to evaluate whether a purchase price is significantly below Fair Market Value;
- Obvious Indicators that involve past or present spills, stains, releases, cleanups on or near the Subject Property; and
- Common Knowledge about specific chemicals, possible contamination, or past use of the Subject Property and surrounding area.

Relevant information provided by the User is summarized under the appropriate headings of this report, and in the following table:

#### Summary of User Provided Information

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Environmental cleanup liens	The User is not aware of environmental liens currently recorded against the Site. User did not request that ERM perform an independent evaluation of environmental liens for the Site. No title documents were received.
Activity and Use Limitations (AULs) and land use restrictions or institutional controls	The User is not aware of AULs and/or land use restrictions currently recorded against the Site.
Specialized knowledge	User has no specialized knowledge of the Site other than what was provided to ERM as discussed under the relevant sections in this document. User provided ERM access and information obtained from the data room is summarized throughout this report. ERM is not aware of additional specialized knowledge for the Site.
Fair market value	User is not aware of a devaluation of the purchase price or fair market value of the Site in association with environmental conditions at, on or under the Site.
Obvious indicators that involve past or present spills, stains releases or cleanups	User was not aware of any obvious indicators which involve past or present spills, stains releases or cleanups other than what was provided to ERM as discussed under the relevant sections in this document.
Common knowledge about specific chemicals, possible contamination, or past use	Information and documentation, including previous environmental investigations was provided to ERM and is presented throughout this report in the relevant report sections and appendices.

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ASTM E1527-13 prescribes the following definitions:

**Recognized Environmental Condition (REC):** “the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment...”

**Controlled REC (CREC):** “...a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls)...”

**Historical REC:** “...a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). Before calling the past release a historical recognized environmental condition, the environmental professional must determine whether the past release is a recognized environmental condition at the time the Phase I Environmental Site Assessment is conducted (for example, if there has been a change in the regulatory criteria)...”

**De minimis condition:** “...a condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies...”

**Data gap:** “...a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information. Data gaps may result from incompleteness in any of the activities required by this practice, including, but not limited to Site reconnaissance (for example, an inability to conduct the Site visit), and interviews (for example, an inability to interview the key Site manager, regulatory officials, etc.)...”

**Data failure:** “...a failure to achieve the historical research objectives...even after reviewing the standard historical sources ... that are reasonably ascertainable and likely to be useful...”

**User:** “...the party seeking to use Practice E1527 to complete an Environmental Site Assessment of the property. A user may include, without limitation, a potential purchaser of property, a potential tenant of property, an owner of property, a lender, or a property manager. The user has specific obligations for completing a successful application of this practice...”

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This Phase I Environmental Site Assessment was conducted by Mr. Philip Kistler and Mr. David de Courcy Bower of ERM. Mr. de Courcy Bower reviewed the contents of this report. The professional qualifications for Mr. Kistler and Mr. de Courcy Bower are appended to this report (see appendix F). Mr. Kistler, and Mr. de Courcy Bower meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312 and have prepared the following declaration and signed in accordance below.

- I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312.
- I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Subject Property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.



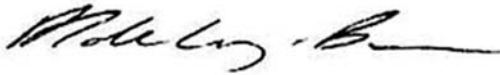
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Thomas O'Connell  
*Partner-in-Charge*



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Philip Kistler  
*Site Assessor*



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David de Courcy Bower  
*Site Assessor; Project Manager*

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**9FA`**  
700 W Virginia Street, Suite 601  
Milwaukee, WI, 53204

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Lake Mendota

Lake Monona

Google

Source: Google Maps: Satellite Image.



Approximate Property Boundary



Downtown Madison, Wisconsin

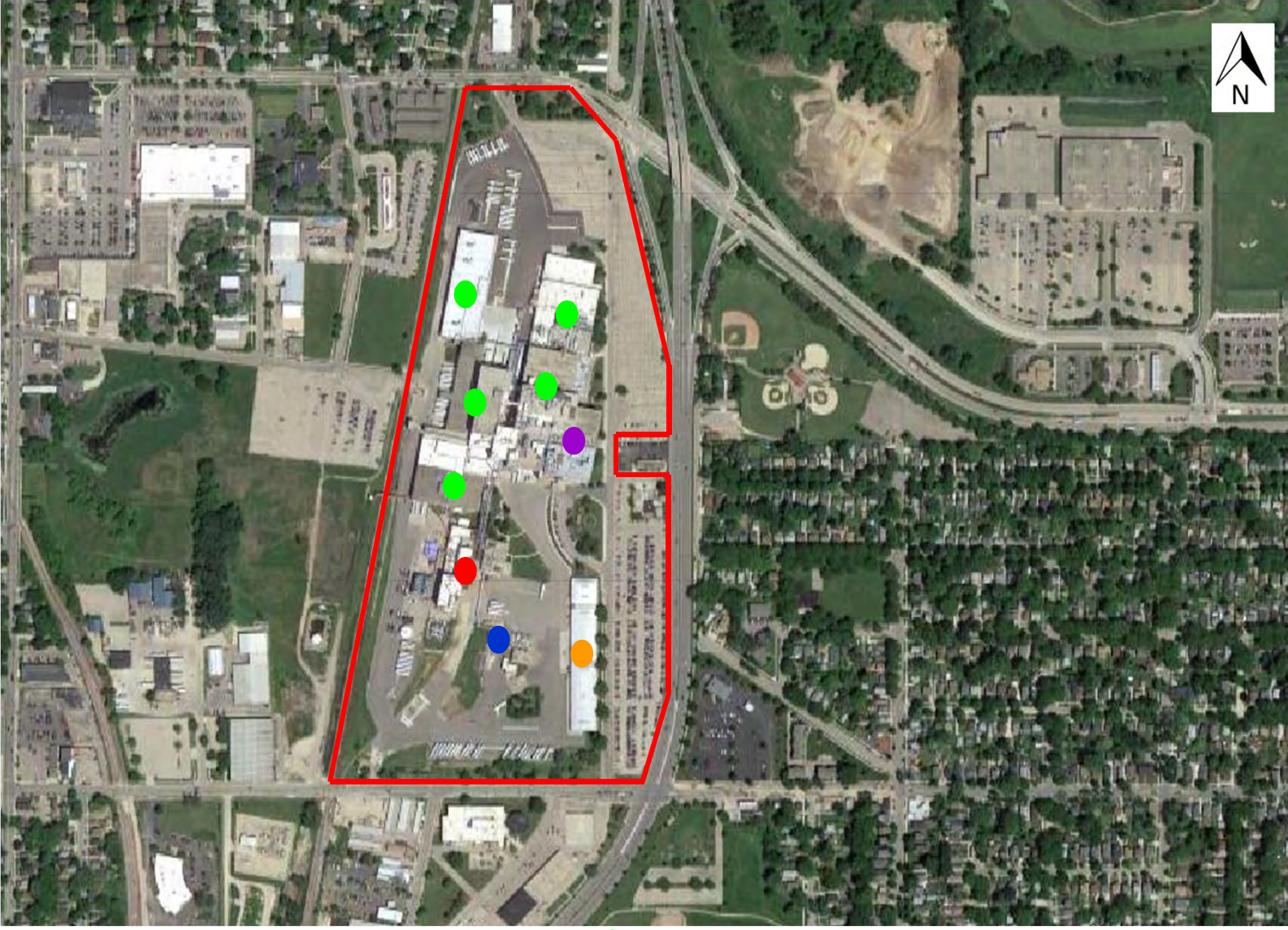


G49 @C75 HCB A5D  
910 Mayer LLC 7 YbfU DfcdYfm  
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Figure

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Source: Google Maps: Satellite Image.

— Approximate Property Boundary

● Vacant Building

● Former Power-House

● Office Building

● Former Water Treatment

● Commercial and Storage



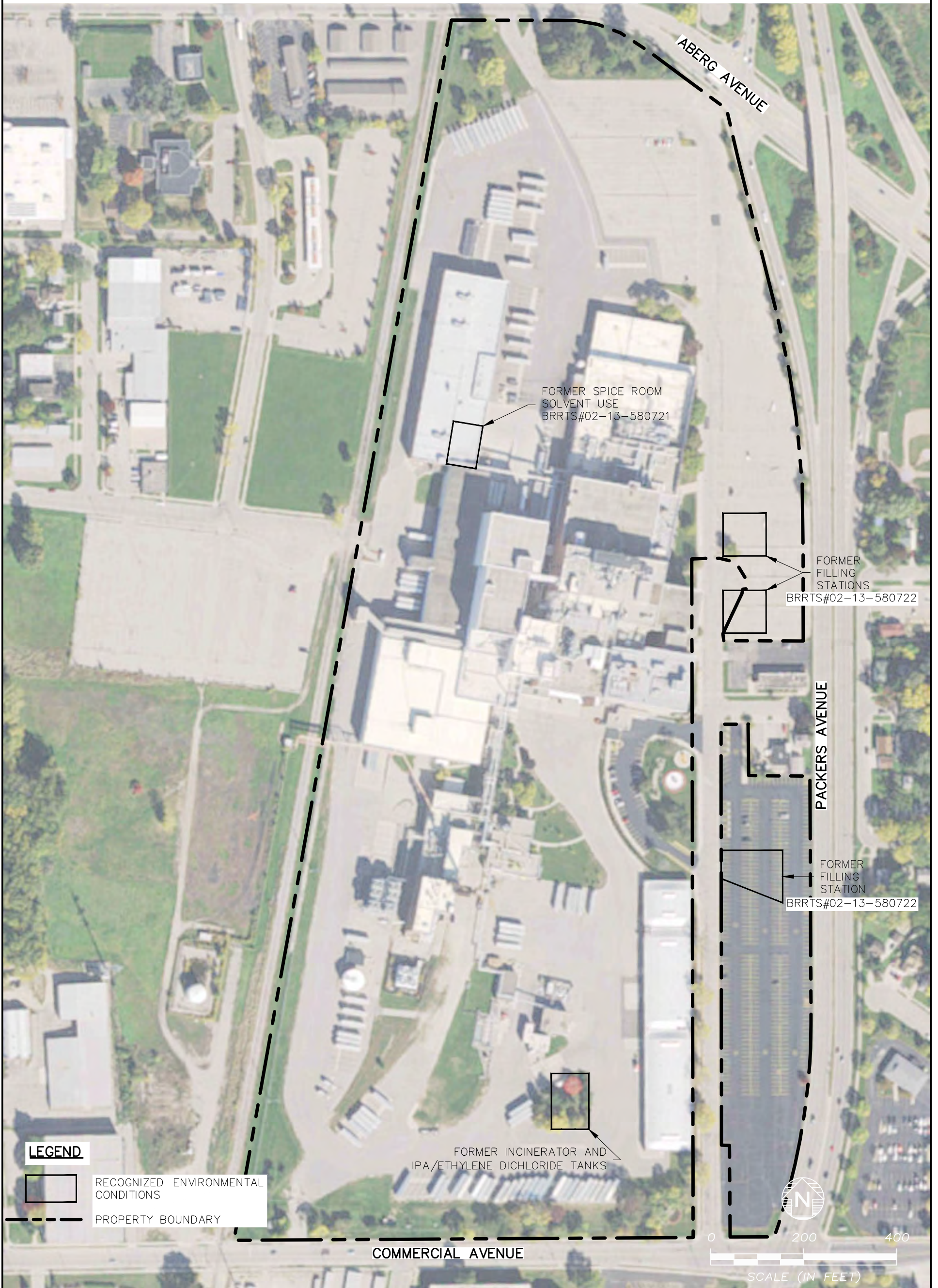
**SITE LAYOUT MAP**  
910 Mayer LLC Property  
910 Mayer Avenue  
Madison, WI

Figure

**2**



# RECOGNIZED ENVIRONMENTAL CONDITIONS



**LEGEND**

-  RECOGNIZED ENVIRONMENTAL CONDITIONS
-  PROPERTY BOUNDARY

FORMER INCINERATOR AND  
IPA/ETHYLENE DICHLORIDE TANKS

FORMER SPICE ROOM  
SOLVENT USE  
BRRTS#02-13-580721

FORMER  
FILLING  
STATIONS  
BRRTS#02-13-580722

FORMER  
FILLING  
STATION  
BRRTS#02-13-580722

CADD Review  
FGB  
DRAWN BY:  
GML  
Date Drawn/Rev'd  
8/3/17-8/21/19



## 910 MAYER LLC

910 MAYER AVENUE  
MADISON, WISCONSIN

Environmental Resources Management

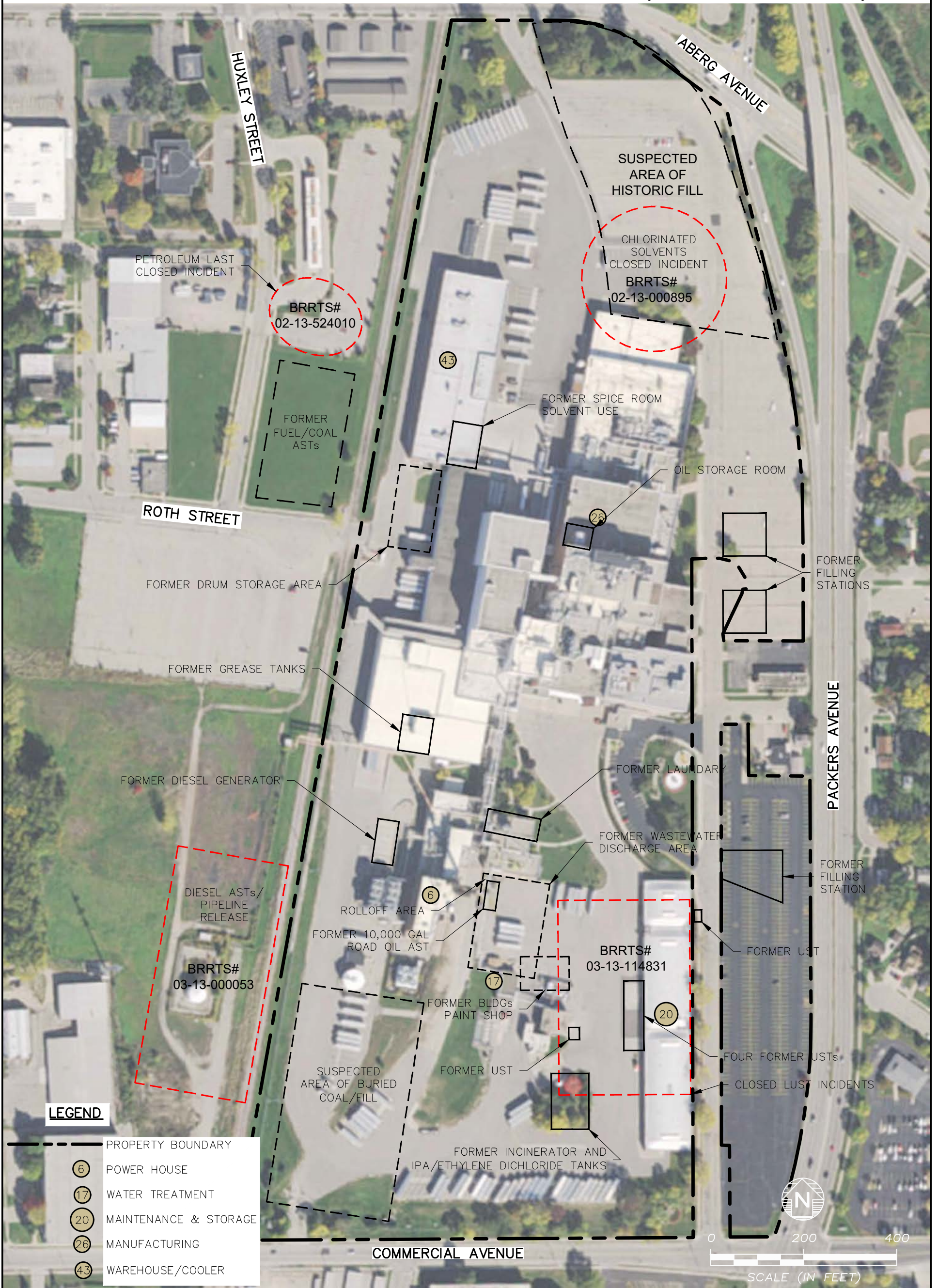
CHK'D BY:  
AD/CS

0519959

FIGURE 3



# PREVIOUS ENVIRONMENTAL CONDITIONS (2017 PHASE 1)



**LEGEND**

- PROPERTY BOUNDARY
- POWER HOUSE
- WATER TREATMENT
- MAINTENANCE & STORAGE
- MANUFACTURING
- WAREHOUSE/COOLER

Q:\Team\IDMM\ClintQ-T\Reich Brothers\0519959\0519959-F4.dwg, PREVIOUS ENVIRO CONDITIONS, 8/21/2019 7:50:13 AM, GML Holland, MI

CADD Review FGB
DRAWN BY: GML
Date Drawn/Rev'd 8/3/17-8/21/19



## 910 MAYER LLC

910 MAYER AVENUE  
MADISON, WISCONSIN

Environmental Resources Management

CHK'D BY: PK
0519959
FIGURE 4



## APPENDIX A      SITE PHOTOGRAPHS



**Photograph: 1** | View of the main entry into the 910 Mayer property and office building



**Photograph: 2** | View to the south of the 910 Mayer property (Madison Area Technical College)



**910 Mayer Property**  
**910 Mayer Avenue, Madison, WI**  
ERM Project Number 0519959

Site Visit: 13 August 2019



**Photograph: 3** | View to southwest of 910 Mayer property (Hartmeyer Ice Arena)



**Photograph: 4** | View to west of 910 Mayer property (Bus Transit)



**910 Mayer Property**  
**910 Mayer Avenue, Madison, WI**  
ERM Project Number 0519959

Site Visit: 13 August 2019





**Photograph: 5** | View to north of 910 Mayer property (Chet's Car Care Center)



**Photograph: 6** | View to east of 910 Mayer property (Packers Ave then Residential)



**910 Mayer Property**  
**910 Mayer Avenue, Madison, WI**  
ERM Project Number 0519959

Site Visit: 13 August 2019





**Photograph: 7** | Monitoring wells installed in vicinity of former Ethylene Dichloride ASTs



**Photograph: 8** | View to east towards former Ethylene Dichloride ASTs



**910 Mayer Property**  
**910 Mayer Avenue, Madison, WI**  
ERM Project Number 0519959

Site Visit: 13 August 2019





**Photograph: 9** | Sub-slab vapor pin location in vicinity of former Spice Room



**Photograph: 10** | Inside of former Spice Room (currently vacant)



**910 Mayer Property**  
**910 Mayer Avenue, Madison, WI**  
ERM Project Number 0519959

Site Visit: 13 August 2019





**Photograph: 11** | Groundwater monitoring well in vicinity of former Filling Stations



**Photograph: 12** | View of former power house (currently vacant)



**Photograph: 13** Interior of currently vacant building



**Photograph: 14** Interior of currently vacant building



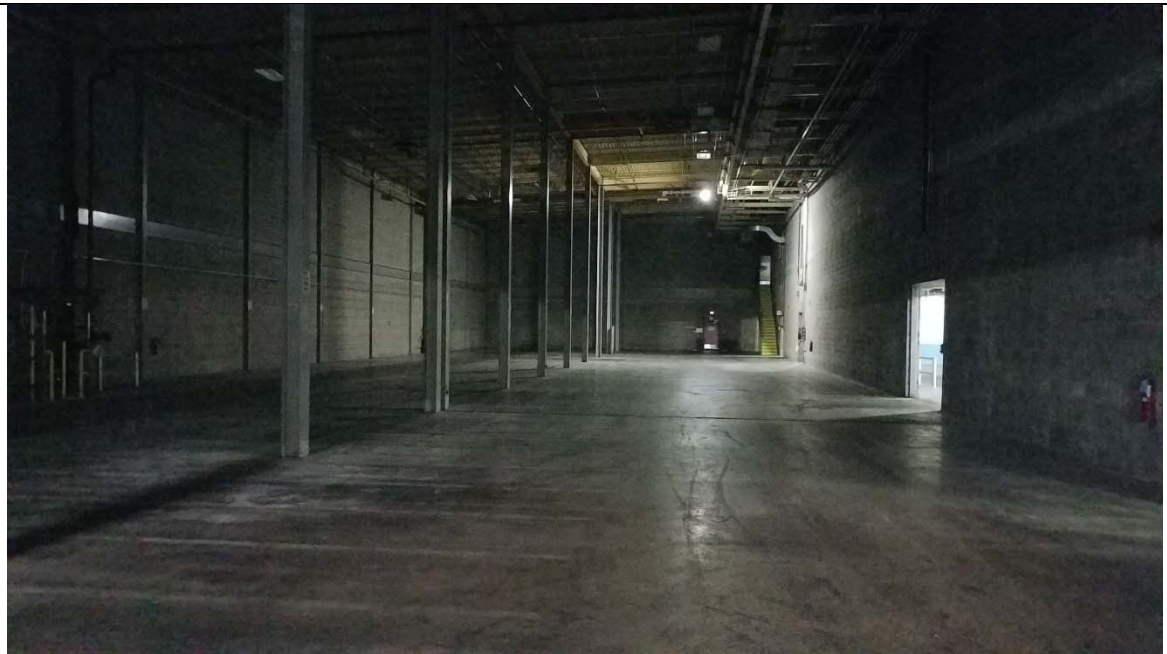
**910 Mayer Property**  
**910 Mayer Avenue, Madison, WI**  
ERM Project Number 0519959

Site Visit: 13 August 2019





**Photograph: 15** Interior of Building 43 (currently vacant)

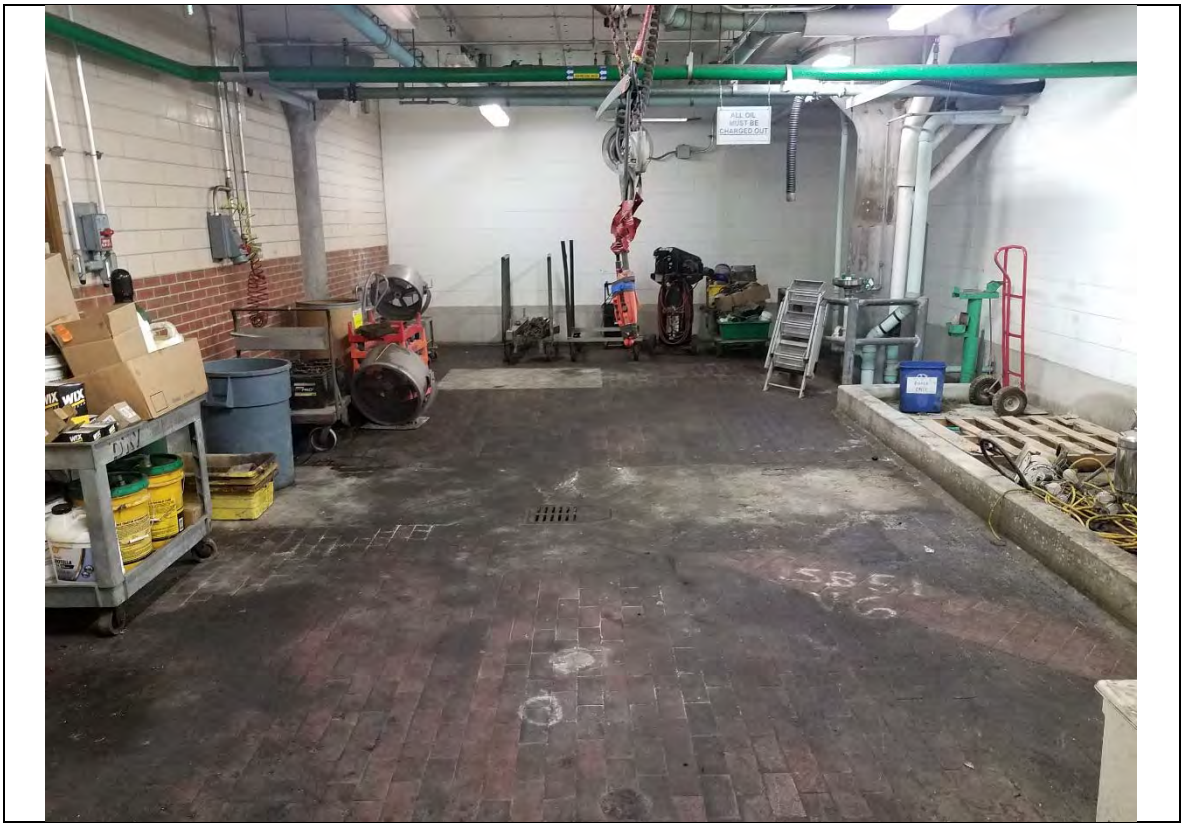


**Photograph: 16** Interior of Building 43 (currently vacant)

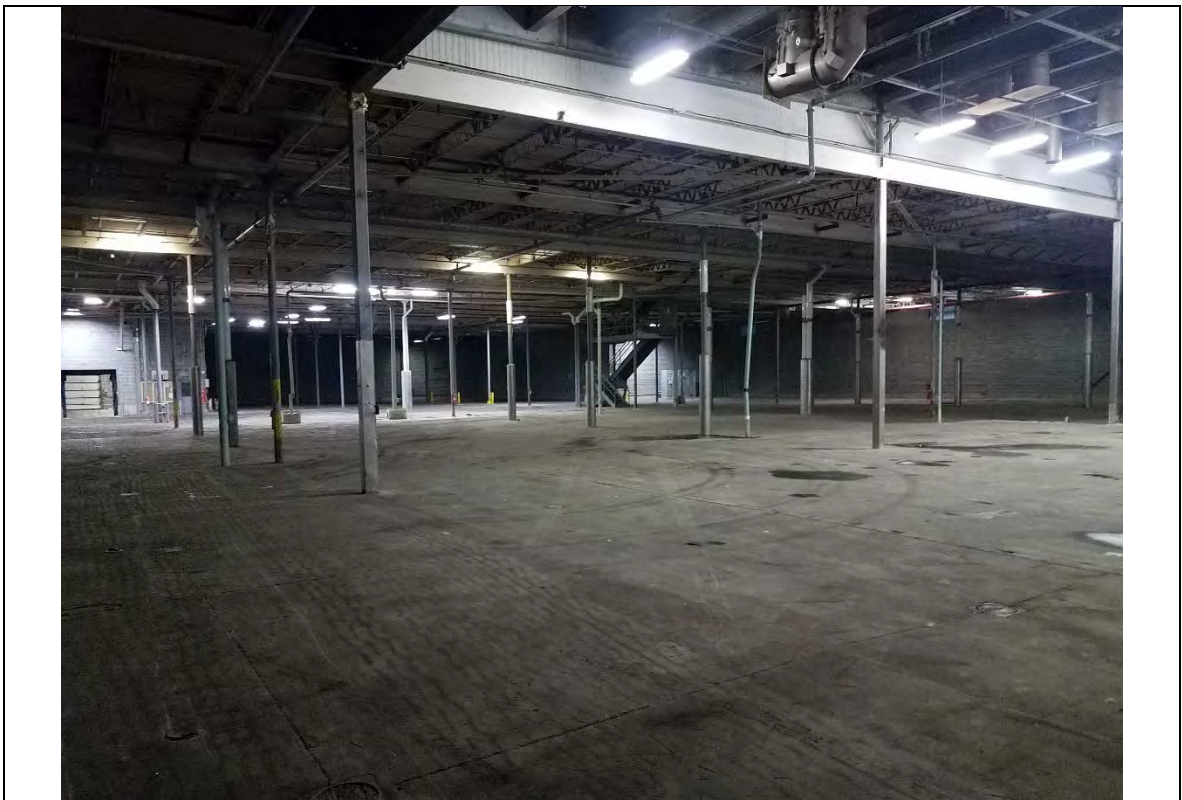


**910 Mayer Property**  
**910 Mayer Avenue, Madison, WI**  
ERM Project Number 0519959

Site Visit: 13 August 2019



**Photograph: 17** Former oil room in Building 26 (currently used for storage)



**Photograph: 18** Interior of currently vacant building



**910 Mayer Property**  
**910 Mayer Avenue, Madison, WI**  
ERM Project Number 0519959

Site Visit: 13 August 2019





**Photograph: 19** Interior of currently vacant building



**Photograph: 20** Interior of portion of Building 20 used for storage



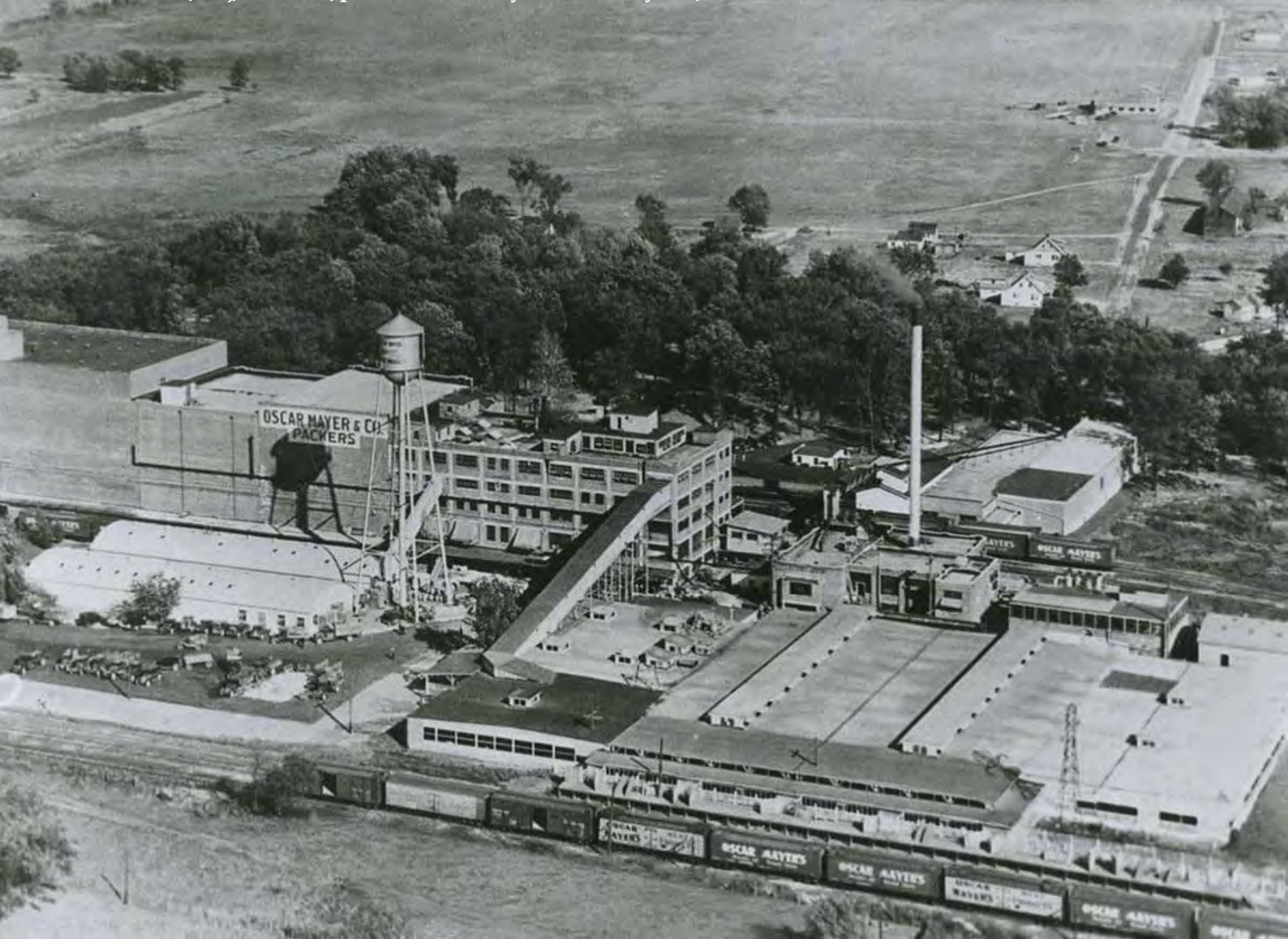
**910 Mayer Property**  
**910 Mayer Avenue, Madison, WI**  
ERM Project Number 0519959

Site Visit: 13 August 2019

## **APPENDIX B      HISTORICAL SOURCES**



Site photo, 1931. Source: 2015. Wisconsin State Journal. Photos: Oscar Mayer over the years. November 4, 2015, [https://host.madison.com/wsj/business/photos-oscar-mayer-over-the-years/collection\\_4e2cc763-f4f7-55bc-93d8-9480fc967c6e.html](https://host.madison.com/wsj/business/photos-oscar-mayer-over-the-years/collection_4e2cc763-f4f7-55bc-93d8-9480fc967c6e.html)





Site photo, 1947. Source: 2015. Wisconsin State Journal. Photos: Oscar Mayer over the years. November 4, 2015, [https://host.madison.com/wsj/business/photos-oscar-mayer-over-the-years/collection\\_4e2cc763-f4f7-55bc-93d8-9480fc967c6e.html](https://host.madison.com/wsj/business/photos-oscar-mayer-over-the-years/collection_4e2cc763-f4f7-55bc-93d8-9480fc967c6e.html)





Site photo, 1954. Source: 2015. Wisconsin State Journal. Photos: Oscar Mayer over the years. November 4, 2015, [https://host.madison.com/wsj/business/photos-oscar-mayer-over-the-years/collection\\_4e2cc763-f4f7-55bc-93d8-9480fc967c6e.html](https://host.madison.com/wsj/business/photos-oscar-mayer-over-the-years/collection_4e2cc763-f4f7-55bc-93d8-9480fc967c6e.html)



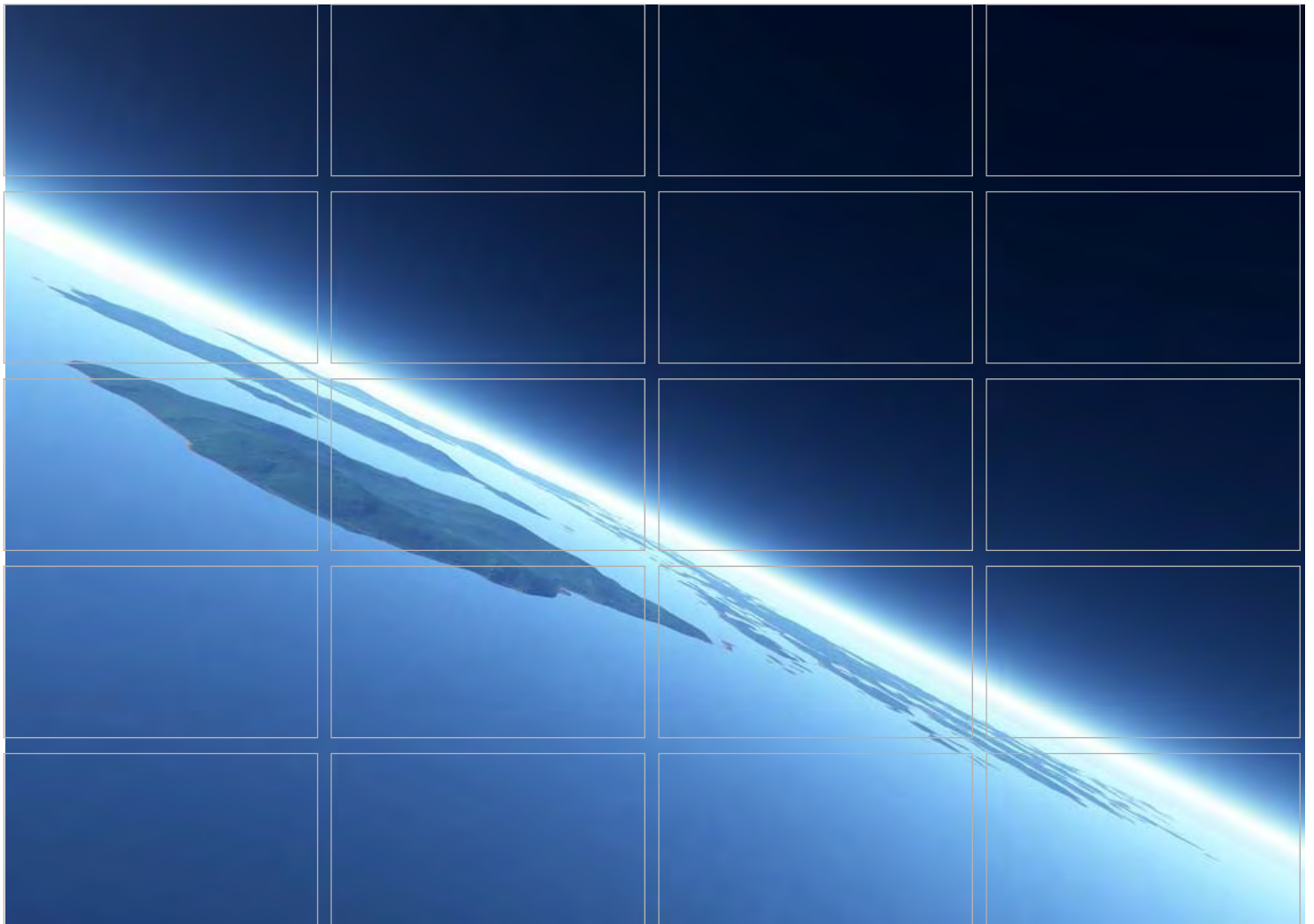




Site photo, 1974. Source: 2015. Wisconsin State Journal. Photos: Oscar Mayer over the years. November 4, 2015, [https://host.madison.com/wsj/business/photos-oscar-mayer-over-the-years/collection\\_4e2cc763-f4f7-55bc-93d8-9480fc967c6e.html](https://host.madison.com/wsj/business/photos-oscar-mayer-over-the-years/collection_4e2cc763-f4f7-55bc-93d8-9480fc967c6e.html)

**APPENDIX C**

**2017 Phase I Environmental Site Assessment  
Prepared by  
Environmental Resources Management, Inc.**



910 Mayer LLC

Project 0403363

## **Phase I Environmental Site Assessment**

### **Central Property**

**Kraft Heinz Foods Company  
910 Mayer Ave  
Madison, Wisconsin 53704**

October 2017

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# Executive Summary



Environmental Resources Management, Inc. (“ERM”) conducted a Phase I Environmental Site Assessment (“ESA”) of the Central Property of the Kraft Heinz Site located at 910 Mayer Avenue, Madison, Wisconsin (the “Site”, “Subject Property”, or “Facility”). The Phase I ESA was conducted in accordance with the scope and limitations of ASTM International Standard E 1527-13 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (“E1527-13”). Exceptions to, or deletions from, E1527-13 are described in Section 1.3.4 of this report.

A Site visit was conducted on 5 October 2017 by Philip Kistler of ERM. The Subject Property is comprised of three main parcels hereby referred to as the “Central Property”, “East Property”, and “West Property.” The contents of this report are dedicated to the conditions, observations and investigations of the Central Property. The approximately 54-acre parcel is developed with approximately 567,000 total square feet of structures including a processing plant, power plant, maintenance shop, cooling building, warehouses, offices, a wastewater treatment building (WWTP) and ancillary structures. The Site buildings are secured and located within a fenced area. Outside of the fence line exists concrete and asphalt paved parking areas to the east, and limited grass landscaping to the west.

Operations at the Subject Property ceased in July of 2017. At the time of the Site visit, all equipment and operations were shut down with the exception of minor maintenance and administrative activities, and contract work including equipment removal and underground pipe testing.

The Facility began operation as a meat packing facility in 1916 before Oscar Mayer purchased the operating company in 1918. In 1981, Oscar Mayer was purchased by General Foods, which was subsequently acquired by Philip Morris in 1985. Under Philip Morris’ ownership, the Facility operated under the names Kraft General Foods, Inc., Kraft Foods, Inc., and finally Kraft Foods Group. H.J. Heinz Co. purchased Kraft Foods Group in 2015, and operated as a meat processing and packaging plant under the Kraft Heinz name until closure in 2017.

Three service stations operated by others existed on the east side of the Site between 1958 and 1967. By 1968 Packers Avenue was rerouted and expanded and subsequently the service stations were removed and the area was developed into employee parking areas for Oscar Meyer. In addition to the service stations, the Site historically contained undeveloped and agricultural land (identified as a U.S Government Reservation), residential dwellings, and an ice skating rink.

Since construction of the original facility, the Subject Property has undergone significant construction, demolition, and renovation activities. Site representatives noted the most recent activities were construction of warehouse and cooler space in the 1990s and the most recent major demolition occurred about ten years ago.

The Subject Property has undergone significant subsurface investigation and remediation work from 1994 through the present. Activities included multiple remediation actions through the Wisconsin Department of Natural Resources (WDNR) to address historic releases and subsequent contamination of groundwater and soil, and associated investigation and reporting including Phase I and Phase II site investigations. Releases are primarily associated with above ground storage tanks (ASTs) and underground storage tanks (USTs) previously located at the Site.

ERM has identified the following conclusions associated with the Site (full details are provided in various sections of this report):

<b>Summary of Identified Issues</b>
<b>ASTM E1527-13 Findings</b>
<b>Recognized Environmental Conditions (RECs)<sup>1</sup></b>
<ul style="list-style-type: none"> <li>• Chemical use and storage – solvents, petroleum products, grease tanks, a “tank room”, laundry, fuel oil in above ground storage tanks, a paint shop, wastewater treatment system with associated chemical usage, a garage with gasoline tanks (presumably underground), three former filling (gasoline) stations on the east portion of the Central area, and reported insecticide manufacturing.</li> <li>• Historic Spills – spills of transformer oils containing PCBs, hydraulic oils, antifreeze, petroleum, waste oil, sulfuric acid, sodium hydroxide, bleach (chlorinated water) were reported to the WDNR. Of note, a 14,000 gallon release of fuel oil from an underground pipe serving former fuel oil ASTs situated on a leased parcel west of the facility occurred in 1989. These are listed as closed incidents, some with remaining residual impacts left in place.</li> <li>• Chlorinated VOCs in Groundwater – the presence of chlorinated volatile organic compounds (VOCs) in groundwater exceeding State Preventive Action Limits (PALs) was reported to WDNR in 1986. The issue was reportedly closed with WDNR in 2006.</li> <li>• Chemical and Waste Storage Areas – stained concrete was observed in numerous locations including where chemicals and wastes were stored, and in several areas near floor drains that discharge to the wastewater treatment plant (oil room, former maintenance rooms, spice room, Maintenance Building 20, Powerhouse).</li> <li>• Historic Fill – Prior to site development, fill was placed on the subject property which included marshy areas. Review of historic information as well as the Ramboll-Environ Phase I ESA indicated a fly ash disposal area was present on the northeast corner of the Central area.</li> </ul>
<b>Controlled Recognized Environmental Conditions (CRECs)<sup>1</sup></b>
<ul style="list-style-type: none"> <li>• <u>BRRTS #03-13-001744</u>: The WDNR was notified on 13 November 1992 of a petroleum release associated with the removal of an underground storage tank. The BRRTS report states that soil contamination was present. The activity was closed on 11 August 1993. The location of the LUST is unknown and no further information is available.</li> <li>• <u>BRRTS #02-13-000895</u>: Chlorinated compounds were detected in four on-Site groundwater wells in 1986. In 1994 the WDNR was notified of concentrations above Preventative Action Levels. The WDNR approved final closure of the activity on 7 December 2006. The activity is listed on the GIS registry, showing remaining vinyl chloride impacts above enforcement standards in the area beneath and north of the processing plant.</li> <li>• <u>BRRTS #02-13-221826</u>: The WDNR was notified on 4 March 1999 of a release associated with soil contamination. The location and nature of the contamination is unknown. The activity was closed on 13 May 1999.</li> <li>• <u>BRRTS #03-13-114831</u>: A 1997 investigation into potential impacts from three removed USTs led to the discovery of petroleum impacts. Groundwater monitoring activities continued in the area of contamination until 2005. Final closure was granted from the WDNR on 25 May 2006. The activity is listed on the GIS registry to document remaining soil and groundwater impacts. Asphalt barrier maintenance remains a condition of the activity closure.</li> </ul>
<b>Historical Recognized Environmental Conditions (HRECs)<sup>1</sup></b>
<ul style="list-style-type: none"> <li>• A 12,000 gallon UST containing diesel fuel was excavated and removed from the Site in 2015. Four soil samples were collected from the sidewalls of the excavation and analyzed for VOCs. All detections were below the Wisconsin Administrative Code Residual Contaminant Levels.</li> </ul>

<sup>1</sup> Key ASTM definitions, including REC, CREC and HREC, are provided in Section 8

# 1. Introduction and Background



## 1.1 Purpose and Auditors

Environmental Resources Management, Inc. (“ERM”) was retained by Thompson Hine LLP on behalf of its client 910 Mayer LLC (the “Client”) to complete a Phase I Environmental Site Assessment (“ESA”) of the Central, East, and West Properties making up the Kraft Heinz Site, with its primary address (Central Property) located at 910 Mayer Avenue, Madison Wisconsin. The Central Property is the subject of this report (the “Subject Property”, the “Site”, or the “Facility”).

The Site visit was performed on 5 October 2017 by ERM assessor, Mr. Philip Kistler. ERM was accompanied by Mr. Oscar Garcia, and Mr. Josh Connors of Kraft Heinz during the Site Visit.

The “User” of this Phase I ESA report, as prescribed under ASTM International (ASTM) Standard E 1527-13; *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (“E1527-13”) is defined as 910 Mayer LLC.

## 1.2 Scope of Work

This environmental assessment was conducted in conformance with ERM’s proposal dated 19 July 2017 and with the requirements of ASTM E 1527-13. Exceptions to, or deletions from, E1527-13 are described in Section 1.3.4 of this report.

ERM’s Phase I ESA sought to gather information regarding: (1) current and past property uses and occupancies; (2) current and past use of hazardous substances and petroleum products; (3) waste management and disposal activities that could have caused a release or threatened release of hazardous substances; (4) current and past corrective actions and response activities to address past and on-going releases of hazardous substances at the Subject Property; and (5) properties adjoining or located near the Subject Property that have environmental conditions that could have resulted in conditions indicative of releases or threatened releases of hazardous substances to the Subject Property.

The scope of this Phase I ESA included:

- An onsite inspection to evaluate current conditions and identify areas of potential concern;
- A review of the history of the Subject Property and its vicinity through interviews and a review of various historical sources;
- Observation of adjoining properties and properties in the local area to evaluate the potential for adverse environmental impact to the Subject Property;
- Interviews/research of local city/county, tribal, state, and federal records, including contracting of Environmental Data Resources, Inc. (EDR) to identify regulatory listings for the Site and regulatory-listed facilities in the vicinity of the Site, as required in the regulatory records review section of the ASTM E1527-13; and
- Interviews and/or requests for information from the User and Subject Property owner, as deemed appropriate by the Environmental Professional.

There were no “non-scope considerations” in ASTM Standard E 1527-13, included in the scope of ERM’s Assessment.

### **1.3 Limiting and Special Conditions**

#### *1.3.1 Limiting Conditions during the Site Visit*

The Site tour covered all floors in all buildings focusing on former manufacturing areas, maintenance shops, and areas of chemical storage. However, ERM was not able to view every individual room within the Facility at the time of the Site visit.

#### *1.3.2 Data Gaps*

There were no data gaps identified during the Site assessment.

#### *1.3.3 Significant Assumptions*

No significant assumptions have been made.

#### *1.3.4 Exceptions to and Deletions from the ASTM E1527-13 Standard*

ERM has not identified exceptions to, or deletions from the ASTM E1527-13 standard.



## 2. Physical Site Setting



### 2.1 Location

The Subject Property is situated on a generally rectangular parcel of land in Madison, Wisconsin. The Site is bounded by Aberg Avenue to the north, Packers Avenue to the east, Commercial Avenue to the south, and a rail corridor to the west. The general location of the Subject Property and the physiographic features of the surrounding area are shown on Figure 1.

### 2.2 Topography and Hydrology

The Site is located at an elevation of approximately 855 feet above mean sea level, is generally flat, and slopes slightly to the south. Surface water at the Site also drains to the east via overland flow to storm drains that discharge into either Lake Mendota or Lake Monona. The overall topographic trend of the surrounding area also slopes to the south. The nearest surface water body is Lake Mendota.

According to flood zone and National Wetland Inventory (NWI) data collected, the Site is not located within wetland delineated areas or the 100 or 500-year flood plains. Flood zone and NWI data was obtained by EDR from the Federal Emergency Management Agency (FEMA) and U.S. Fish and Wildlife Services, respectively. The mean elevation of Lake Mendota is 847 feet and the mean elevation of Lake Monona is 844 feet, both lakes being several feet lower than the Site elevation and not likely to flood as a result of high water levels.

### 2.3 Geology and Hydrogeology

According to the United States Department of Agriculture Natural Resources Conservation Service web soil survey data for Dane County, the surface soils in the vicinity of the Site are a combination of Virgil Silt Loam and Colwood Silt Loam and re-worked fill material consisting of sandy loam. The Virgil Silt Loam is described as a Class B soil with moderate infiltration rates, moderately well and well-drained soils with moderately coarse textures. The Colwood Silt Loam is described as a Class B/D soil with a drained/undrained hydrology class of soils that can be drained and are classified as poorly drained. Previous investigations at the Site encountered fill material overlying wetland-type deposits including muck, decayed organic material and organic clay soils in the southern portion of the Site and reworked fill overlying a lower asphalt surface on the east of the Site.

Groundwater was encountered at depths ranging between 1 and 10 feet below land surface. ERM's review of historic environmental investigations on the property and on adjacent properties indicates that the groundwater flow is inconsistent and varies depending upon geologic intervals, time of year, and amount of precipitation. Additionally, because of the shallow nature of the water table, direction of flow can be influenced by buried utility corridors, including the infiltration and exfiltration of sewers. The regional direction of groundwater flow is from east to west or southwest toward Lakes Mendota and Monona.

According to well driller's records in the area, the shallow subsurface is comprised of sand and clay deposits overlying sandstone bedrock which is encountered at least 200 feet below land surface.

## 3. Site Description, Operations, and History



### 3.1 General Site Description

#### 3.1.1 Real Estate Ownership Information

According to the City of Madison Assessor's Office web-based database, the Subject Property at 910 Mayer Avenue is identified by parcel number 081031301013, and is owned by Kraft Heinz Foods. The parking area to the east is officially identified as parcel number 081031301089, also owned by Kraft Heinz Foods. According to Site representatives, the majority of the Site was acquired in 1918 with additional properties on the eastern side of the Site added in the 1950s-60s. The parcel is zoned as Industrial-General District.

#### 3.1.2 Subject Property Layout

The Subject Property is located on approximately 54 acres of land situated on a generally rectangular parcel, approximately 4 miles north-northwest of downtown Madison, WI. The Subject Property is developed with the following 5 primary structures:

- **Processing Plant:** The eight-story, approximately 455,000 square foot building housed production, storage, and office operations. The processing plant is comprised of approximately 18 buildings that have been combined as the Site was renovated and modified over the course of its history.
- **Maintenance Shop:** The one-story, approximately 60,000 square foot structure, located southeast of the processing plant, housed storage and repair operations.
- **Power Plant:** The three-story, approximately 30,000 square foot structure, located southwest of the processing plant, housed power production, storage, and repair operations.
- **Cooling Building:** The one-story, approximately 13,000 square foot structure, located south of the processing plant, houses ammonia tanks and relay supply equipment. The building supported large climate controlled storage areas.
- **Wastewater Treatment Building/Sludge Dewatering:** These structures, located on the south-central portion of the Subject Property are each one story, and 7,000 and 2,200 square feet respectively. They housed wastewater processing and dewatering operations.

ERM noted that each of the above structures is comprised of multiple buildings that have been constructed and connected through the Site's history.

A Site Layout Map is provided as Figure 2 and a Surrounding Area Map is provided as Figure 3. Photographs of the Site are included as Appendix A. Historic aerial photographs are included in Appendix B.

### 3.2 Current Site Conditions

Currently, process operations are entirely shut down at the Site. All former manufacturing, maintenance, and other daily operations have ceased. According to Site representatives, there are currently three employees and approximately ten contract workers. They are tasked with maintaining the Subject Property while contract workers remove final pieces of

equipment from the Facility. Electricity and water services necessary for a small office space function and sanitary uses are still connected. Other utilities are disconnected or remain shut-off throughout the Facility. Manufacturing equipment, tools, and other machines remain on Site while process materials including raw and finished meat product, additives and ingredients, and operating supplies such as oils, cleaners, and soaps have generally been removed from the Site. Throughout the facility remains general refuse from decommissioning operations such as cardboard, wood pallets, plastics, and miscellaneous hand tools. According to Site representatives, Safety Kleen has removed all hazardous materials from the Site and emptied all storage tanks, and the ammonia cooling system.

The wastewater treatment plant on Site has been shut down, along with the powerhouse, and all but one HVAC unit. Minor shipping and receiving is handled by security guards at the guard station.

ERM observed minor subsurface construction activities along the Subject Property west boundary. According to Site representatives American Transmission Co. is testing several underground pipes, and these activities pose no environmental concerns.

### **3.3 Historical Site Operations**

#### *3.3.1 Historical Summary*

As early as 1892, the Site was undeveloped and contained marshy areas. By 1915, the Subject Property was developed with a meat packing company that was purchased by Oscar Mayer in 1919. The processing facility was continually expanded and upgraded through the 2010s. The facility was operated by Oscar Mayer until 1981, at which time Oscar Mayer was purchased by General Foods, which was later acquired by Philip Morris in 1985. In 1989, Phillip Morris merged General Foods with the newly acquired Kraft Foods, Inc. resulting in the company being renamed Kraft General Foods, Inc. In 1995, the company was renamed Kraft Foods, Inc. (later Kraft Foods Group). In 2015, H.J. Heinz Co. purchased Kraft Foods Group and began operations as Kraft Heinz. The facility ceased operations by August 2017.

Features not associated with the processing facility located on the Central Property by the 1930s included dwellings (north-northeast), undeveloped and agricultural land (east-center; identified as a US Government Reservation), and potential coal storage areas (southern portion). By the late 1940s, the northern dwellings were razed and a coal mound was present in this area, as well as a concrete block facility; part of an ice skating rink was present on the northeast corner and a gasoline station was present on the east-central portion. According to city directories, facility maps and aerial photographs, it appears that three gasoline filling/service stations were located on the eastern portion of the Central Property between 1958 and 1967. By 1968, the east adjacent Packers Avenue was expanded and reconfigured and several structures formerly located on the Central Property (including the gasoline station(s) and skating rink) were razed; these areas were paved and used for parking purposes.

While operating, the Facility received meats in raw form, additives including flavorings, spices and colorings, and condiments that were stored in refrigerators, freezers, non-climate controlled warehouses. Other food raw materials including corn syrup, salt, potassium lactate and sodium lactate were stored in ASTs located north of the processing plant. The raw meats and additives were processed and packaged into meat products including hotdogs, sausages, salami and bologna. The Site also functioned as a distribution center for condiments.

Former operations at the facility included the use of various chemicals, including solvents, petroleum products, acids and maintenance-related products to support food/meat preparation and packaging processes. Stock pens were previously present on the western portion of the Site to house hogs and cattle, which were slaughtered on site until the early 1980s.

A detailed map showing building identification numbers and dates of construction is attached in Appendix D.

### 3.3.2 Evaluation of Historical Information Sources

To determine past uses of the Subject Property and surrounding properties, ERM reviewed historical sources of information as outlined in the References section of this report (Section 7). Copies of pertinent historical sources are also appended.

**Table 3-1 Historical Timeline**

Timeframe	Discussion
1916	According to site representatives the Subject Property was first developed in 1916. Prior to 1916 the Site is believed to have been an undeveloped marshy area. According to Site representatives, Kraft Heinz, under a different name at the time, purchased and began operating the facility in 1918.
1937-1955	The earliest document available to ERM is an aerial photograph from 1937. This photo shows development on the southern portion of the site. The north portion of the Site, roughly half of the current Subject Property, and surrounding areas appear to be generally undeveloped. Notable surrounding development includes a wastewater treatment plant to the northeast and residential development to the southeast and southwest. In both a 1949 and 1955 photograph, expansion is evident at the site to both the north and south. By 1955, almost all of current Subject Property shows development with the exception of the northernmost portion of the Site. During this time significant expansion of residential areas is evident in the areas surrounding the Site
1968-1976	The Site appears generally the same until a 1968 aerial showing the relocation of Packers Avenue and Aberg Avenue defining the current property boundary. Packers Avenue having moved eastward, parking lots are evident along the east side of the property in 1968. In 1976, significant changes to the northwest part of the Facility are evident.
1976-2010	The Site appears generally the same from the 1976 aerial through the 2010 aerial. On-Site building changes and surrounding development are evident over this span, however all major site features are evident in 1976 and no major expansion occurs thereafter. The Site and surrounding area appears in 2010 generally as it did at the time of the Site visit.
Present	Observations made at the time of ERM's Site inspection are discussed throughout this report.

### 3.3.3 Discussion of Historical Environmental Issues/ Assessments/ Investigations

ERM reviewed a number of previous environmental reports prepared for the Site, as referenced in Section 6. The following noteworthy items were identified through a review of the previous reports and additional historical sources:

#### Ramboll-Environ Phase I ESA

ERM reviewed the 2016 Phase I Environmental Site Assessment (Phase I) conducted by Ramboll-Environ that provides a description of historical activities at the Site. In addition, ERM reviewed historical site plans and maps provided by facility representatives and publicly available information on the Wisconsin Department of Natural Resources (WDNR) website.

Observations made by Ramboll-Environ were made prior to the facility shut-down and is somewhat consistent with ERM's investigation. However, ERM identified several additional RECs based on review of historical facility maps, not previously reviewed by Ramboll-Environ. The Ramboll-Environ Phase I report is attached in Appendix C.

The report identified the following RECs:

- 1) Tank rooms of unknown use identified on historical Sanborn maps;
- 2) Gasoline filling and repair stations in the 1950s and 1960s;

- 3) Past manufacturing of insecticides in the late 1960s;
- 4) Reported historical use of chlorinated solvents in the vicinity of the spice room and other portions of the Site that were not sampled as part of the chlorinated volatile organic compound (VOC) Environmental Repair Program (ERP) closure;
- 5) Below-grade/above-grade features of unknown status, including a zinc chloride tank, five gasoline tanks, and a below-ground automobile lift; and
- 6) Former coal storage areas. In addition, the West Property was previously used as a former coal and fuel manufacturing facility, and the northeastern portion where the ASTs were previously located was remediated.

The report identified the following CRECs:

The CRECs were identified as being associated with regulatory closure and were determined by Ramboll Environ not to represent a current environmental concern, assuming the buildings, structures and other institutional controls or engineered barriers remained in place.

- 1) A 12,000-gallon diesel fuel UST was excavated and removed from an area outside the west wall of the maintenance shop (Building 20) in 2015. Water was observed in the excavation; however, no sheens were visible on the water. A total of four confirmatory soil samples were collected from sidewalls of the excavation and analyzed for petroleum VOCs; soil samples were not collected from the base of the excavation, due to the presence of water, or the east sidewall of the excavation, due to the presence of the maintenance shop's foundation. VOC concentrations ranged between <0.025 ppm to 0.041 parts per million (ppm), but all detections were below the Wisconsin Administrative Code (WAC) NR 720 Residual Contaminant Levels (RCLs) Protective of Groundwater Quality values. As the petroleum VOCs concentrations were below reportable levels, Ramboll-Environ considered this matter to represent a CREC.
- 2) Previously investigation environmental release incidents that received WDNR closure. ERM also reviewed WDNR closure documentation associated with these CRECs and a discussion is provided below.

#### **Wisconsin Department of Natural Resources BRRTS Database**

##### *BRRTS #03-13-001744*

Notification was made to the WDNR on November 13, 1992 of a petroleum release associated with the removal of an underground storage tank. The WI BRRTS report states that soil contamination was present. This activity was closed on August 11, 1993. No further information in relation to this leaking underground storage tank (LUST) was available. The location of this LUST on the Site is unknown.

##### *BRRTS #02-13-000895*

The Central Property of the site was assigned a Wisconsin Bureau of Response, Remediation and Tracking System (BRRTS) number #02-13-000895 following the discovery of chlorinated compounds in four on-site groundwater wells in 1986. The chlorinated compounds detected in groundwater included trichloroethylene (TCE); cis-1,2-dichloroethylene; vinyl chloride; xylene; ethyl benzene; toluene; methylene chloride; chlorobenzene; and acetone. In 1994, the Wisconsin Department of Natural Resources (WDNR) was notified that the concentrations of chlorinated compounds in the wells were detected above state Preventative Action Levels (PALs). Between July 2001 and April 2005, semi-annual groundwater monitoring was performed at the site. Based on the results of the sampling activities, the WDNR approved final closure of this BRRTS listing on December 7, 2006, which was listed on their GIS Registry to document residual groundwater impacts on site. A review of the WDNR Geographic Information System (GIS) Registry file for this BRRTS listing indicates that vinyl chloride impacts above enforcement standards are limited to the area beneath and immediately north of the processing plant. Although residual groundwater contamination may remain, because closure has been granted, Ramboll Environ considered this matter to represent a CREC.



*BRRTS #02-13-221826*

Notification was made to the WDNR of a release on March 4, 1999. The BRRTS database indicates the activity was associated with soil contamination but does not specify any other details. The location of this soil contamination is unknown. The activity was closed on May 13, 1999.

*BRRTS #03-13-114831*

Three USTs, a 10,000-gallon gasoline UST (removed 1986), and 9,500-gallon gasoline and 10,000-gallon diesel fuel USTs (removed 1996), were located outside the maintenance shop's west exterior wall (Building 20), at the southern portion of the shop. An investigation was conducted to evaluate the extent of potential soil and groundwater impacts associated with releases from the USTs in 1997. As petroleum impacts were discovered, Leaking UST (LUST) #03-13-114831 was assigned to the site. Groundwater monitoring activities continued to be performed in this area until 2005. The WDNR approved final closure on May 25, 2006 and listed this LUST on their GIS Registry to document residual soil and groundwater impacts, including residual soil contamination (gasoline range organics [GROs], diesel range organics [DROs], and benzene, toluene, ethylbenzene, and xylenes [BTEX]) and petroleum-impacted groundwater beneath the maintenance shop and outside the shop, near its west-central portion. The maintenance of an asphalt barrier near the documented residual soil impacts was assigned as part of the LUST closure. Although residual contamination remains on site, because closure has been granted, this is considered a CREC.

**Bird's Eye Aerial Photography (1947)**

ERM reviewed historical aerial photographs provided by facility representatives during the Site walk in July 2017. Based on the review, ERM identified two additional RECs not included in the Ramboll-Environ Phase I:

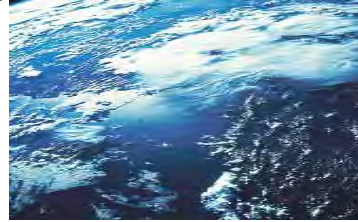
- 1) A former area of unidentified drum storage located to the west of current Building 71.
- 2) A former area of apparent wastewater discharge located to the south of Building 12.

**Factory Mutual Engineering Association map dated 1959 and amended in 1976**

ERM reviewed historical insurance maps provided by facility representatives during the Site walk in July 2017. Based on the review, ERM identified five additional RECs not included in the Ramboll-Environ Phase I:

- 1) Two 6,300 gallon Isopropanol tanks and two 6,300 gallon ethylene dichloride tanks associated with an incinerator shown on the southern portion of the Central Area on the 1950 Sanborn maps in the Phase I.
- 2) Two 10,000 gallon and one 9,000 gallon grease storage tanks/units formerly located under the southern portion of Building 72.
- 3) A former 10,000 gallon road oil AST located to the south of Building 12.
- 4) Confirmed locations of three former filling stations located in the East parking lots of the Central Area and to the east of Packers Avenue Service Road (location of Packers Avenue prior to relocation).
- 5) Former laundry area located in the northern portion of Building 12.

## 4. Site Environmental Operations and Regulatory Review



### 4.1 Hazardous Material Use and Storage

#### 4.1.1 *Underground Storage Tanks (USTs)*

According to Site representatives, no USTs are currently located on the Subject Property, and no visual indication of the potential presence of USTs was noted by ERM during the Site visit.

According to Site representatives, all previously used USTs were removed from the Subject Property, the latest about three and a half years ago. Site representatives also noted the presence of former gas filling stations along the east side of the property that may have utilized USTs but were unsure of specifics regarding possible tanks at the former filling stations.

#### 4.1.2 *Aboveground Storage Tanks (ASTs)*

According to Site representatives, approximately 20 ASTs still remain on site. Site representatives noted they are all currently empty. Site representatives noted approximately 10 ASTs were removed during decommissioning activities. The only AST that could be considered still in use is part of the fire suppression system.

When in operation, the ASTs contained various materials and chemicals including ammonia, potassium-lactate, sodium-lactate, sulfuric acid, and fuel oil.

Historically, a number of ASTs with unknown contents existed at the Site.

### 4.2 Waste Management

#### 4.2.1 *Hazardous Waste*

No evidence of hazardous waste was noted during the Site visit. All hazardous waste was collected as part of decommissioning operations, primarily in a storage room located in Building 20. According to Site Representatives, Safety-Kleen, Inc. (Safety-Kleen) removed all hazardous materials from the Site including the Building 20 location, the entire ammonia refrigeration system, and all storage tanks.

According to Site Representatives flammable chemicals and materials were stored in dedicated cabinets throughout the facility, and all cabinets had been emptied during decommissioning operations. All flammable material cabinets observed by ERM were empty. Numerous small areas of staining were observed in the Facility, however, the following areas of significant staining were observed during the Site visit:

- Oil staining in the former oil-room (Building 26);
- Corroded concrete flooring in the former spice-room (Building 43);
- Staining in former maintenance rooms, and around non-food related equipment
- Staining in the northernmost (maintenance equipment) and southern (chemical, waste, and vehicle storage) sections of maintenance building (Building 20);
- Staining in Powerhouse near former and current boilers.

#### 4.2.2 *Non-Hazardous Waste*

According to Site representatives, the only waste currently generated on site is general trash and recycling. Waste is collected by the City of Madison.

According to Site representatives, contractors on Site are responsible for their own waste collection and disposal. Areas of contractor operation appeared to be generally well kept and waste appeared to be handled properly at the time of the Site visit.

#### 4.2.3 *Other Regulated Waste*

ERM did not observe the storage or disposal of other regulated waste on the Site at the time of the Site visit. According to Site representatives, during decommissioning activities universal waste was collected in dedicated containers and shipped for proper disposal. Site representatives were unsure of the company contracted for universal waste disposal.

### **4.3 Water Supply, Wastewater and Storm Water**

#### 4.3.1 *Water Supply*

The Site is currently supplied water from the City of Madison for sanitary purposes and human use. Historically, the Site received water from three on-Site wells. According to Site representatives the wells have not been used in over 10 years and were properly abandoned.

#### 4.3.2 *Wastewater*

Current operations at the Site do not generate any process wastewater. Historically, process wastewater was directed through a floor drain system to 7 sumps located throughout the manufacturing building. The contents from the sumps were treated at the onsite wastewater treatment plant. According to Site Representatives all 7 sumps on the site remain powered on; however, only 4 have been observed collecting water. According to Site representatives this is storm water, historically directed to the wastewater treatment plant for redundancy. The onsite wastewater treatment facility has been bypassed as part of decommissioning activities.

Sanitary water is currently, and has historically been, discharged to City of Madison public treatment works.

#### 4.3.3 *Storm Water*

Currently storm water drains via sheet/overland flow to storm drains and roof drains located around the Subject Property. The storm water is currently directed to city of Madison storm sewers.

According to Site representatives when operations were in progress at the site, storm drains and roof drains with the potential to be impacted by industrial processes were directed to the wastewater sumps and subsequently treated at the onsite wastewater treatment plant. This constituted approximately 20% of total storm water volume. Currently, storm water is still collected and handled by wastewater sumps; however, the wastewater treatment plant has been bypassed as part of decommissioning activities.

### **4.4 Polychlorinated Biphenyls (PCBs)**

ERM completed a Hazardous Building Materials Inventory, including investigations for PCBs. The investigation took place from 21 August 2017 through 5 September 2017 in specific structures on Site in preparation for demolition. The material inventory included laboratory testing of paint chip and caulk samples collected from the Subject Property.

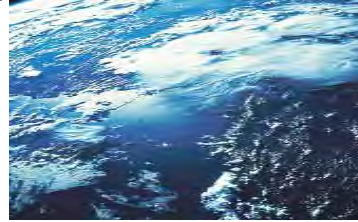
In addition to sampling activities, ERM observed PCB containing light ballasts throughout the facility. ERM notes the materials found are typical of buildings of this age and require the common action of removal prior to demolition.

#### **4.5 Lead-Based Paint (LBP)**

LBP was banned by the United States government for use in residences and other buildings where the public could be exposed in 1978; industrial use of LBP was phased out during the same period.

ERM completed a Hazardous Building Materials Inventory, including investigations for LBP. The investigation took place from August 21 2017 through September 5 2017 in specific structures on Site in preparation for demolition. The material inventory included laboratory testing of paint chip and caulk samples collected from the Subject Property. ERM notes the materials found are typical of buildings of this age and require the common action of removal prior to demolition.

## 5. Surrounding Properties



### 5.1 Summary

The Site is located in an area that is currently characterized by light industrial, commercial and residential use. The Site is located northeast of Downtown Madison, Wisconsin. The Subject Property sits between two lakes, Lake Mendota approximately one quarter mile to the west, and Lake Monona approximately one half mile to the southeast. The surrounding area has been associated with commercial and industrial activity since the 1930's. As such, historical surrounding property use represents a general impact concern to the Subject Property.

### 5.2 Current Surrounding Properties

Land use in the area of the Subject Property includes light industrial, commercial and residential land. The adjoining properties and nearby land use, as observed by ERM at the time of the Site inspection, is as follows:

**Table 5-1 Current Surrounding Properties**

Direction	Discussion
North	The Subject Property is bounded to the North by Aberg Avenue. Across Aberg Avenue is an auto shop, a small property of storage units, and residences.
East	The Subject Property is bordered to the east by Packers Avenue. On the east side of Packers Avenue are residences and the East Property also owned by Kraft Heinz, currently developed into baseball fields and leased to the City of Madison as a city park.
South	The Site is bordered to the south by Commercial Avenue. Across Commercial Avenue is a storage facility and Madison Area Technical College.
West	A railroad corridor bounds the Subject Property to the West. Across the railway is the West Property also owned by Kraft Heinz, and an area commonly referred to as the Hartmeyer Estate. The West Property is currently comprised of undeveloped grass cover, a gravel storage yard rented by Decker Supply Co, and the Madison Metro Bus North Transfer Point. The Bus station includes an open-air covered bus shelter, and a commuter parking lot. The Hartmeyer estate is undeveloped, grass and brush covered land, leased by Kraft Heinz.

### 5.3 Surrounding Properties Historical Summary

#### BRRTS Database

*BRRTS #03-13-000053*

Notification was made to the WDNR on February 17, 1989 of a petroleum release due to a ruptured pipeline on the adjacent leased property known as the Hartmeyer Estate property. The pipeline connected a 250,000 gallon petroleum fuel oil AST to the facility. The ruptured pipeline resulted in a 14,000 gallon release, which is reported as a REC in this document. Product removal was conducted from the nearby monitoring well MW-5 and approximately 136 liters of fuel



oil were recovered from this well between 1999 and 2006. On January 23, 2008, the WDNR closed the activity with a continuing obligation for residual soil and groundwater contamination and the activity was placed on the BRRTS database for closed sites with soil and groundwater use restrictions in the vicinity of the petroleum release.

*BRRTS #02-13-315773*

On June 11, 2002 notification was made to the WDNR of contamination at the Burke Wastewater Treatment Plant site at 1401 Packers Ave. This property is approximately one quarter mile northeast of the Subject Property. The WDNR classifies the contamination as a high-risk Environmental Repair. The activity is currently open. According to the Ramboll-Environ Phase I report, chlorinated solvents may have migrated to the northeastern portion of the Subject Property. There is no indication if contamination from this property is a risk to the subject property. It is expected that liability and remediation activities resultant of contamination from off-site properties is the responsibility of the listed responsible party, Reyco Madison Inc., and not Kraft Heinz.

### **Kraft Heinz West Property**

The Kraft Heinz West Property located to the west, has a history of contamination, investigation and remediation activities. Events associated with this property are detailed in ERM's Phase I ESA report dedicated to this portion of the Kraft Heinz Property.

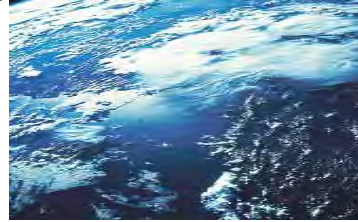
## **5.4 Adjoining Property Agency Review**

Based upon the EDR Environmental Database Report obtained by ERM (see Appendix E), a local agency file review for adjoining properties was not warranted. The following historical adjoining properties are listed on the EDR regulatory database report:

On 9 January 2001 the WDNR was notified of soil contamination of arsenic and VOCs at what is described as the Millivander Property to the south of the Site. The activity was closed with no further action required on 23 January 2011. Contamination from this event is unlikely to affect the Subject Property.

The Kraft Heinz West Property, located to the west of the Site, has a history of contamination, investigation and remediation activities. Events associated with this property are detailed in ERM's Phase I ESA report dedicated to this portion of the Kraft Heinz Property.

## 6. Conclusions

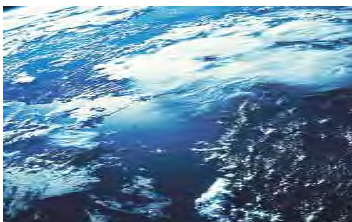


ERM has performed a *Phase I Environmental Site Assessment* in conformance with the scope and limitations of ASTM Practice E1527 of the Site (as defined in Section 1 of this report). Exceptions to, or deletions from, this practice are described in Section 1.3.4 of this report. This Phase I Environmental Site Assessment has revealed no evidence of recognized environmental conditions in connection with the property except for the following:

Summary of Identified Issues
<b>ASTM E1527-13 Findings</b>
<b>Recognized Environmental Conditions (RECs)<sup>2</sup></b>
<ul style="list-style-type: none"> <li>• Chemical use and storage – solvents, petroleum products, grease tanks, a “tank room”, laundry, fuel oil in above ground storage tanks, a paint shop, wastewater treatment system with associated chemical usage, a garage with gasoline tanks (presumably underground), three former filling (gasoline) stations on the east portion of the Central area, and reported insecticide manufacturing.</li> <li>• Historic Spills – spills of transformer oils containing PCBs, hydraulic oils, antifreeze, petroleum, waste oil, sulfuric acid, sodium hydroxide, bleach (chlorinated water) were reported to the WDNR. Of note, a 14,000 gallon release of fuel oil from an underground pipe serving former fuel oil ASTs situated on a leased parcel west of the facility occurred in 1989. These are listed as closed incidents, some with remaining residual impacts left in place.</li> <li>• Chlorinated VOCs in Groundwater – the presence of chlorinated volatile organic compounds (VOCs) in groundwater exceeding State Preventive Action Limits (PALs) was reported to WDNR in 1986. The issue was reportedly closed with WDNR in 2006.</li> <li>• Chemical and Waste Storage Areas – stained concrete was observed in numerous locations where chemicals and wastes were stored, and in several areas near floor drains that discharge to the wastewater treatment plant.</li> <li>• Historic Fill – Prior to site development, fill was placed on the subject property which included marshy areas. A fly ash disposal area was reportedly present on the northeast corner of the Central area.</li> </ul>
<b>Controlled Recognized Environmental Conditions (CRECs)<sup>1</sup></b>
<ul style="list-style-type: none"> <li>• <u>BRRTS #03-13-001744</u>: The WDNR was notified on November 13 1992 of a petroleum release associated with the removal of an underground storage tank. The BRRTS report states that soil contamination was present. The activity was closed on August 11 1993. The location of the LUST is unknown and no further information is available.</li> <li>• <u>BRRTS #02-13-000895</u>: Chlorinated compounds were detected in four on-Site groundwater wells in 1986. In 1994 the WDNR was notified of concentrations above Preventative Action Levels. The WDNR approved final closure of the activity on December 7 2006. The activity is listed on the GIS registry, showing remaining vinyl chloride impacts above enforcement standards in the area beneath and north of the processing plant.</li> <li>• <u>BRRTS #02-13-221826</u>: The WDNR was notified on March 4, 1999 of a release associated with soil contamination. The location and nature of the contamination is unknown. The activity was closed on May 13 1999.</li> <li>• <u>BRRTS #03-13-114831</u>: An 1997 investigation into potential impacts from three removed USTs lead to the discovery of petroleum impacts. Groundwater monitoring activities continued in the area of contamination until 2005. Final closure was granted from the WDNR on 25 May 2006. The activity is listed on the GIS registry to document remaining soil and groundwater impacts. Asphalt barrier maintenance remains a condition of the activity closure.</li> </ul>
<b>Historical Recognized Environmental Conditions (HRECs)<sup>1</sup></b>
<ul style="list-style-type: none"> <li>• A 12,000 gallon UST containing diesel fuel was excavated and removed from the Site in 2015. Four soil samples were collected from the sidewalls of the excavation and analyzed for VOCs. All detections were below the Wisconsin Administrative Code Residual Contaminant Levels.</li> </ul>

<sup>2</sup> Key ASTM definitions, including REC, CREC and HREC, are provided in Section 8

## 7. References



The following sources were used in conducting the Phase I ESA detailed in this report. Where information obtained from these sources was determined to be useful by the Environmental Professional, it is summarized in the body of this report. Copies of prior environmental reports and other pertinent documents are appended.

**Table 7-1 Regulatory Agency Review**

Agency/Company	Person Contacted	Telephone	Regarding
Kraft Heinz	Mr. Oscar Garcia Mr. Josh Connors	(708) 655-5269	User Questionnaire for Phase I ESA.
City of Madison City Assessor's Office online database	NA	(608) 266-4257	Property ID's and zoning information
Environmental Data Resources, Inc. 6 Armstrong Road, 4 <sup>th</sup> Floor Shelton, CT 06484	NA	(800) 241-6476	Environmental Database Search Report, topographic maps, aerial photographs, city directories, fire insurance maps.
Other Internet resources	NA_BRRTS database, and SHWIMS database	NA	Aerial photographs (Google Earth); Site database searches ( <a href="http://www.epa.gov/echo/">http://www.epa.gov/echo/</a> , BRRTS database, and SHWIMS database)

**Table 7-2 Summary of Historical Sources Reviewed**

Agency/Source of Information	Data Provided	Years Reviewed (if applicable)	
		Subject Property	Surrounding Properties
Mr. Oscar Garcia Mr. Josh Connors	General Information General Information	2014 to present 1995 to present	NA NA
EDR	Sanborn Fire Insurance Maps	1942, 1950, 1986	1942, 1950, 1986
EDR	Historical Topographic Maps	1890, 1892, 1904, 1906, 1959, 1969, 1974, 1983, 2013	1890, 1892, 1904, 1906, 1959, 1969, 1974, 1983, 2013
EDR	City Directories	1958, 1963, 1968, 1973, 1978, 1983, 1988, 1992, 1995, 1999, 2003, 2008, 2013	1958, 1963, 1968, 1973, 1978, 1983, 1988, 1992, 1995, 1999, 2003, 2008, 2013
EDR	Aerial Photographs	1937, 1949, 1955, 1962, 1968, 1976, 1980, 1986, 1993, 2000, 2005, 2006, 2008, 2010	1937, 1949, 1955, 1962, 1968, 1976, 1980, 1986, 1993, 2000, 2005, 2006, 2008, 2010
EDR	Environmental Database Report	Discussed in Section 3.3.3	Discussed in section 5.3-5.4

**Table 7-3 Other Documentation Reviewed**

Date	Source
June 2016	Ramboll Environ Phase I Environmental Site Assessment Report
N/A	Kraft Heinz compiled a dataroom with documentation related to BRRTS events, tank closures, well, abandonments, waste and material inventories and reporting, and other information with potential environmental consequence.

## 8. Limitations and Other Considerations



### 8.1 General Limitations

There are a number of exclusions and limitations associated with this assessment. These are briefly outlined below:

- This report has been prepared by ERM exclusively for Client and may not be relied upon by any other recipient, person or entity (together, henceforth, “Other Recipient”) without ERM’s express, written permission. ERM makes no warranties or representations to any Other Recipient and has no obligation to advise any Other Recipient regarding changes to this report or changes in applicable laws and regulations subsequent to the date of this report. In receiving this report, any Other Recipient agrees that (a) it will make no claim against ERM that relates in any way to this report, or the Other Recipient’s access to this report, and (b) to the fullest extent permitted by applicable law, Other Recipient hereby releases ERM from, and will defend and hold harmless ERM from and against, any claim, action, suit, damage, loss, award, liability, expense, cost, or fees including attorneys’ fees arising from or relating to any use or disclosure of the report or any portion thereof by Other Recipient or any third party to whom Other Recipient discloses the Report. Notwithstanding the foregoing, if requested, ERM will issue reliance letters allowing lenders or other interested parties to rely on the contents of this report, in accordance with ERM’s terms and conditions, for financing or other purposes.
- ERM is an environmental consulting firm, and as such we make no representations regarding questions of legal or accounting interpretation. Consultation with an attorney and/or certified accountant should be made with respect to any legal or accounting matters, or items that require such interpretation, under any law, regulation or contract.
- ERM did not independently verify information on publicly available databases. Therefore our findings are accurate and complete only to the extent that information provided to ERM was itself accurate and complete.
- The conclusions presented in this report represent ERM’s professional judgment based on the information made available to us during the course of this assessment and are true and correct to the best of ERM’s knowledge as of the date of this report.
- No sampling or testing of soils, waters or other materials was included as part of this assessment. However, reference may have been made to previous testing and sampling, as appropriate.
- Unless otherwise stated within this report, ERM has assumed that the Site will continue to be used for current purposes. ERM’s assessment does not include provision for Site closure or change in land use, unless expressly stated above.
- State-specific regulations related to property transfer (or ownership changes) may apply to the proposed transaction. Costs related to compliance with these State requirements were not included in ERM’s Assessment.
- Unless otherwise stated, ERM assumes the User (as defined in E1527-13 – see Section 8.4) is the Client.

## 8.2 ASTM Limitations

The innocent landowner, contiguous owner, and prospective purchaser defenses to liability under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) require that a person acquiring property conduct an all appropriate inquiry with respect to the Site. ERM has conducted this environmental assessment in accordance with the standards for conducting an all appropriate inquiry set forth at 40 CFR. 312. Those standards require the application of scientific principles and professional judgment to certain facts with resultant subjective interpretations and exercise of discretion. Professional judgments expressed herein are based on the facts currently available within the limits of the existing data, and data gaps identified herein, scope of work, budget, and schedule. Those standards also require that the User undertake certain additional inquiries. In addition, the liability defenses under CERCLA require, among several other things, that the User after the acquisition stop any continuing releases, prevent any future threatened releases and prevent or limit human, environmental or natural resource exposure to any hazardous substance released at the Site. Therefore, ERM makes no warranties, expressed or implied, including, without limitation, warranties as to merchantability or fitness for a particular purpose, including any warranty that this Phase I assessment will in fact qualify User for the innocent landowner, contiguous property owner or prospective purchaser defense to liability under CERCLA. ERM's assessment is limited strictly to identifying recognized environmental conditions associated with the Site. Results of this assessment are based upon the visual Site inspection of readily accessible areas of the Site conducted by ERM personnel, information from interviews with knowledgeable persons regarding the Site, information reviewed regarding historical uses, information provided by contacted regulatory agencies, and review of publicly available and practically reviewable information identifying current and historical uses of the property and surrounding properties. All conclusions and recommendations regarding the Site represent the professional opinions of the ERM personnel involved with the project, and the results of this report should not be considered a legal interpretation of existing environmental regulations. ERM assumes no responsibility or liability for errors in the public data utilized, statements from sources outside of ERM, or developments resulting from situations outside the scope of this project. We make no warranties, expressed or implied, including, without limitation, warranties as to merchantability or fitness for a particular purpose.

## 8.3 Other Considerations

### 8.3.1 Environmental Database Search

ERM contracted EDR to conduct a database search for agency records. The appended database report defines and summarizes the ASTM databases reviewed in the EDR report and notes if any listed facilities (including the Subject Property) were identified in the specified radius. The locations of the listed facilities identified in the EDR report were evaluated to determine which listed facilities were located within the ASTM specified search distance from the Subject Property boundary. Only those listed facilities worthy of further discussion are discussed within the applicable sections of this report and data on additional listed facilities is included in the appended EDR database report.

It should be noted that the computerized geocoding technology used in the database search is based on available census data and is only accurate to  $\pm 300$  feet. The EDR report provides a list of unmapped facilities for which inadequate location information was provided. ERM has reviewed the list of "unmapped" listed facilities to determine if these listed facilities are within the study radius. If the "unmapped" listed facilities appeared likely to be within the search radius for a specific database, they are discussed in the applicable sections of this report.

Listed facilities identified within the study radii were evaluated to determine if they are likely to have adversely impacted the Subject Property. The criteria used to evaluate the potential for adverse impact to the Subject Property include:

- Distance from the Subject Property;
- Expected depth and direction of groundwater and surface water flow;
- Geology and physical ground conditions;
- Expected storm water flow direction;
- The presence/absence of documented contaminant releases at the identified sites that have not been remedied to the satisfaction of regulators; and



- The current regulatory status of the listing.

The identification of a listed facility as potentially upgradient or downgradient is based on the expected direction of groundwater flow referenced in Section 2.3.

### 8.3.2 User Provided Information

ERM contacted the User with respect to the following information:

- An evaluation of the presence of Environmental Cleanup Liens for the Subject Property;
- Activity and Use Limitations such as engineering controls (e.g., slurry walls, caps) and land use restrictions or institutional controls (e.g., deed restrictions, covenants) that may be in place for the Subject Property;
- Specialized Knowledge that includes personal knowledge or experience related to the Subject Property or nearby properties based on professional experience or knowledge of the Subject Property;
- Fair Market Value to evaluate whether a purchase price is significantly below Fair Market Value;
- Obvious Indicators that involve past or present spills, stains, releases, cleanups on or near the Subject Property; and
- Common Knowledge about specific chemicals, possible contamination, or past use of the Subject Property and surrounding area.

Relevant information provided by the User is summarized under the appropriate headings of this report, and in the following table:

**Table 8-1 User-Provided Information**

User Request	Response
Environmental cleanup liens	The User is not aware of environmental liens currently recorded against the Site. User did not request that ERM perform an independent evaluation of environmental liens for the Site. No title documents were received.
Activity and Use Limitations (AULs) and land use restrictions or institutional controls	The User is not aware of AULs and/or land use restrictions currently recorded against the Site.
Specialized knowledge	User has no specialized knowledge of the Site other than what was provided to ERM as discussed under the relevant sections in this document. User provided ERM access and information obtained from the data room is summarized throughout this report. ERM is not aware of additional specialized knowledge for the Site.
Fair market value	User is not aware of a devaluation of the purchase price or fair market value of the Site in association with environmental conditions at, on or under the Site.
Obvious indicators that involve past or present spills, stains releases or cleanups	User was not aware of any obvious indicators which involve past or present spills, stains releases or cleanups.
Common knowledge about specific chemicals, possible contamination, or past use	Information and documentation, including previous environmental investigations was provided to ERM in the form of access to an electronic data room and is presented throughout this report in the relevant report sections and appendices.

## 8.4 Key ASTM Definitions

ASTM E1527-13 prescribes the following definitions:

**Recognized Environmental Condition (REC):** “the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment...”

**Controlled REC (CREC):** “...a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls)...”

**Historical REC:** “...a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). Before calling the past release a historical recognized environmental condition, the environmental professional must determine whether the past release is a recognized environmental condition at the time the Phase I Environmental Site Assessment is conducted (for example, if there has been a change in the regulatory criteria)...”

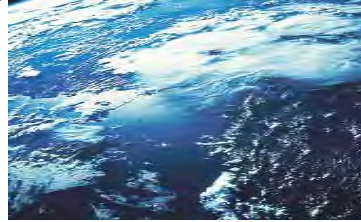
**De minimis condition:** “...a condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies...”

**Data gap:** “...a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information. Data gaps may result from incompleteness in any of the activities required by this practice, including, but not limited to Site reconnaissance (for example, an inability to conduct the Site visit), and interviews (for example, an inability to interview the key Site manager, regulatory officials, etc.)...”

**Data failure:** “...a failure to achieve the historical research objectives...even after reviewing the standard historical sources ... that are reasonably ascertainable and likely to be useful...”

**User:** “...the party seeking to use Practice E1527 to complete an Environmental Site Assessment of the property. A user may include, without limitation, a potential purchaser of property, a potential tenant of property, an owner of property, a lender, or a property manager. The user has specific obligations for completing a successful application of this practice...”

## 9. Environmental Professional Certification



This Phase I Environmental Site Assessment was conducted by Mr. Philip Kistler and Mr. David de Courcy Bower of ERM. Mr. de Courcy Bower reviewed the contents of this report. The professional qualifications for Mr. Kistler and Mr. de Courcy Bower are appended to this report (see Appendix F). Mr. Kistler, and Mr. de Courcy Bower meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312 and have prepared the following declaration and signed in accordance below.

- I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312.
- I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Subject Property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

A handwritten signature in blue ink, appearing to read "Thomas P. O'Connell".

---

*Thomas O'Connell*  
Partner-in-Charge

A handwritten signature in black ink, appearing to read "Philip Kistler".

---

*Philip Kistler*  
Site Assessor

A handwritten signature in black ink, appearing to read "David de Courcy Bower".

---

*David de Courcy Bower*  
Site Assessor; Project Manager

**ERM**

700 W. Virginia St. Suite 601  
Milwaukee, WI 53204

# Figures





Source: Google Maps: Satellite Image.

 Approximate Property Boundary



Downtown Madison, Wisconsin




**SITE LOCATION MAP**  
Kraft Heinz Central Property  
910 Mayer Avenue  
Madison, WI


Figure **1**







Source: Google Maps: Satellite Image.


 Approximate Property Boundary

 Warehouse/Cooler

 Power-House

 Manufacturing

 Water Treatment

 Maintenance and Storage



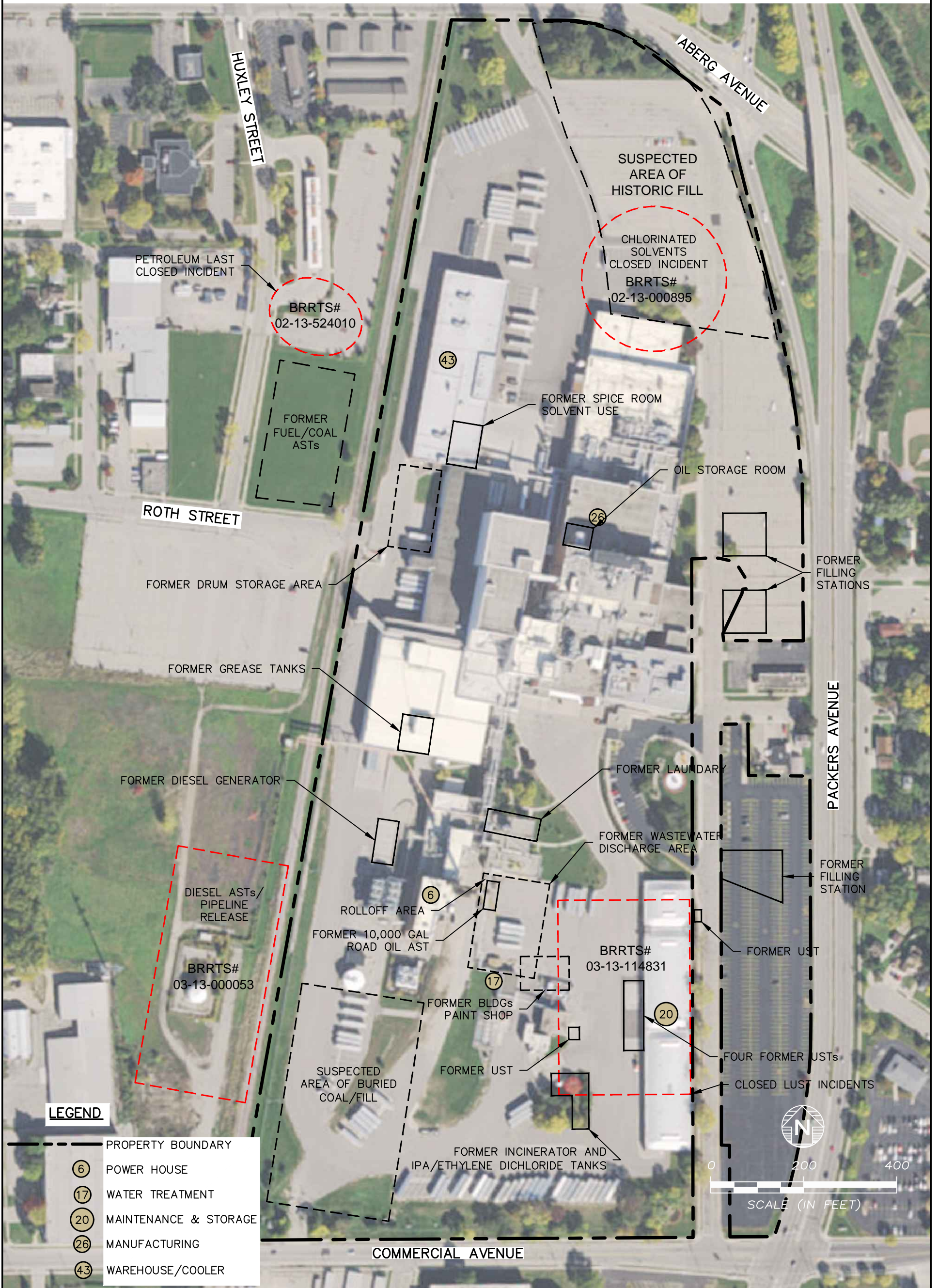
**SITE LAYOUT MAP**  
Kraft Heinz Central Property  
910 Mayer Avenue  
Madison, WI

Figure

**2**



# Historical Environmental Conditions



## LEGEND

- PROPERTY BOUNDARY
- ⑥ POWER HOUSE
- ⑰ WATER TREATMENT
- ⑳ MAINTENANCE & STORAGE
- ㉔ MANUFACTURING
- ④③ WAREHOUSE/COOLER

CADD Review  
FGB

DRAWN BY:  
GML

Date Drawn/Rev'd  
8/3/17-10/18/17



## KRAFT HEINZ CENTRAL PROPERTY

910 MAYER AVENUE  
MADISON, WISCONSIN

Environmental Resources Management

CHK'D BY:  
PK

0403363

FIGURE 3



**Appendix A**  
**Site Photographs**





**Photograph: 1** Main entrance to Kraft Heinz Facility. (Source: Google Maps Street View)



**Photograph: 2** South side of the Kraft Heinz facility. Photograph taken facing north.



**Kraft Heinz (Central Property)**  
**910 Mayer Ave.**  
**Madison, WI**  
Site Visit Date: 5 Oct. 2017



**Photograph: 3**

West side of Kraft Heinz facility. Photograph taken facing south. The piping in the photograph is related to the pipe testing being completed by ATC at the time of the Site visit.



**Photograph: 4**

North side of Kraft Heinz facility. Photograph taken facing southeast.



**Kraft Heinz (Central Property)**  
**910 Mayer Ave.**  
**Madison, WI**  
Site Visit Date: 5 Oct. 2017





**Photograph: 5** Barrels located outside Building 20. ERM believes these to be decontamination water from subsurface site investigation activities.



**Photograph: 6** Skimming pond of the non-operating on-Site water treatment plant.



**Kraft Heinz (Central Property)**  
**910 Mayer Ave.**  
**Madison, WI**  
Site Visit Date: 5 Oct. 2017



**Photograph: 7**

Photograph outside of water treatment equipment building. This area was formerly used as a collection area for 55-gallon drums of various chemicals during decommissioning activities.



**Photograph: 8**

Current condition of loading dock leading to cooler space on the west side of the Site.



**Kraft Heinz (Central Property)**  
**910 Mayer Ave.**  
**Madison, WI**  
Site Visit Date: 5 Oct. 2017





**Photograph: 9**

Former maintenance area on the ground floor of the manufacturing facility. This representative of maintenance areas observed throughout the facility by ERM.



**Photograph: 10**

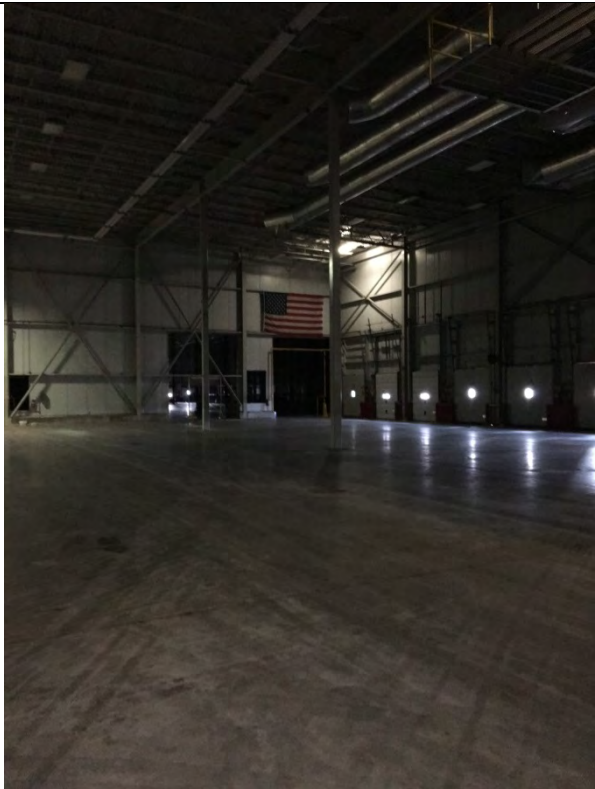
Empty flammable material cabinet in former maintenance area. This is representative of flammable material cabinets observed throughout the facility by ERM



**Kraft Heinz (Central Property)**  
**910 Mayer Ave.**  
**Madison, WI**  
Site Visit Date: 5 Oct. 2017



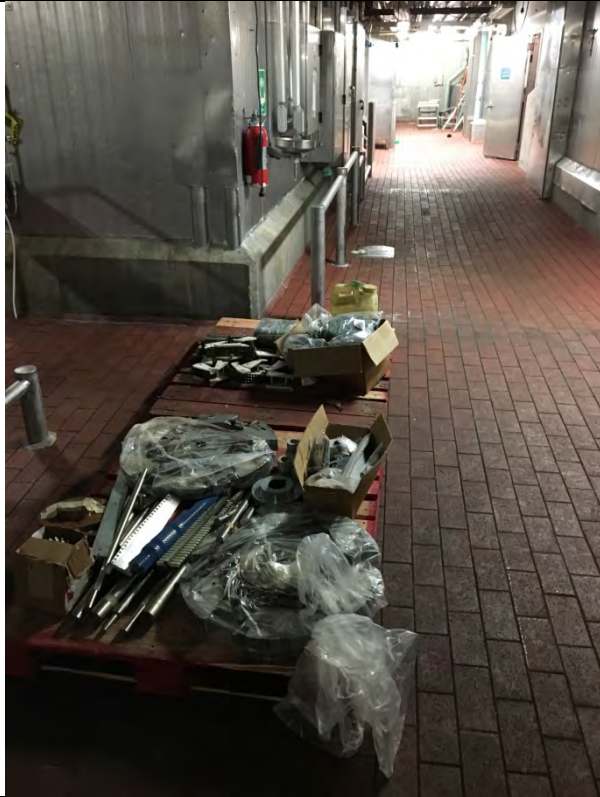
**Photograph: 11** Former oil storage area in the basement of the facility. A rack of oil containers remained in place, but all level indicators appeared to be empty.



**Photograph: 12** Former cold storage warehouse.



**Kraft Heinz (Central Property)**  
**910 Mayer Ave.**  
**Madison, WI**  
Site Visit Date: 5 Oct. 2017



**Photograph: 13** Wood pallet of miscellaneous materials in former manufacturing area. ERM observed several of these pallets throughout the facility.



**Photograph: 14** Manufacturing area. Representative of manufacturing areas observed by ERM throughout the facility, the area was generally cleared out with equipment remaining.

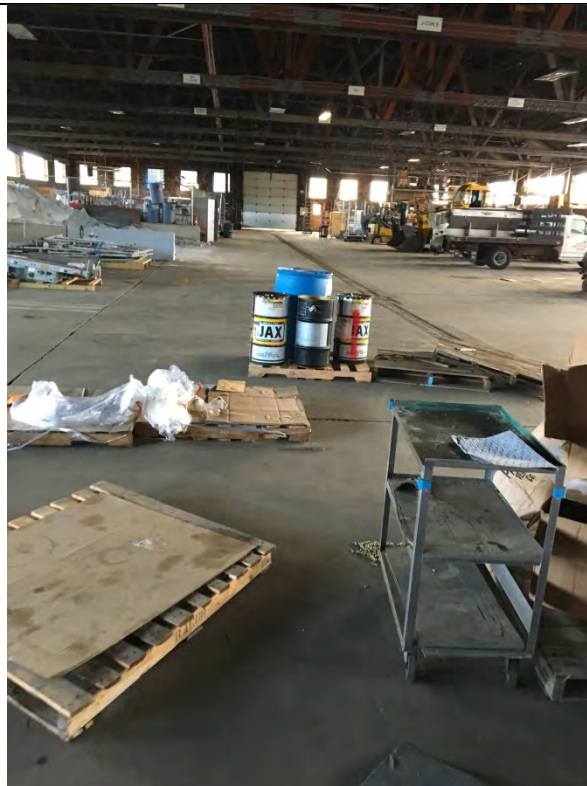


**Kraft Heinz (Central Property)**  
**910 Mayer Ave.**  
**Madison, WI**  
Site Visit Date: 5 Oct. 2017





**Photograph: 15** Sump room on ground floor historically tied into the on-Site water treatment plant. This particular sump was not currently collecting water, though the pump remained powered on.



**Photograph: 16** Inside of Building 20 area used during decommissioning activities to collect chemicals and hazardous materials. Several, empty containers and wood pallets remain.



**Kraft Heinz (Central Property)**  
**910 Mayer Ave.**  
**Madison, WI**  
Site Visit Date: 5 Oct. 2017

**Appendix D**  
**Other Pertinent Documents**







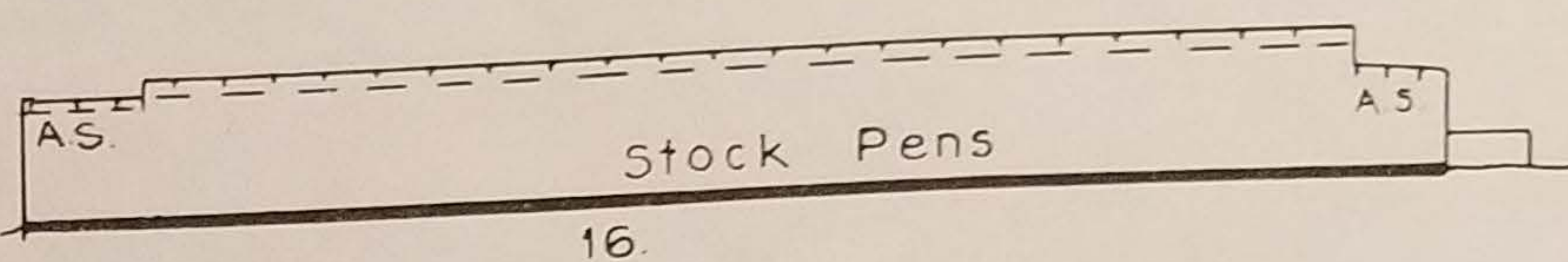
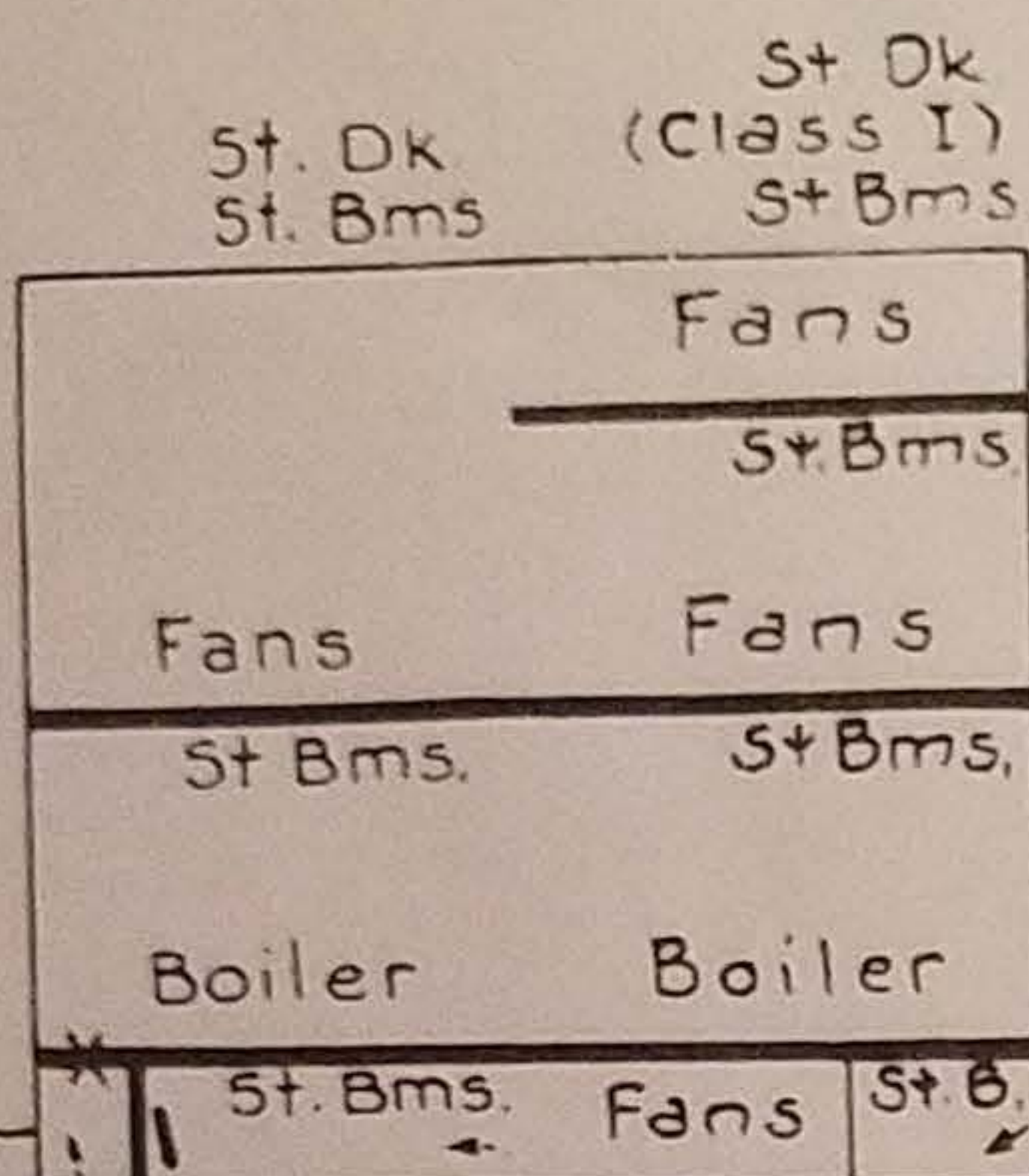






Stge Tile, Wire Fence,  
Clay Pipe, Machine Parts,  
Metal Window Frames,  
Doors & wood Boxes

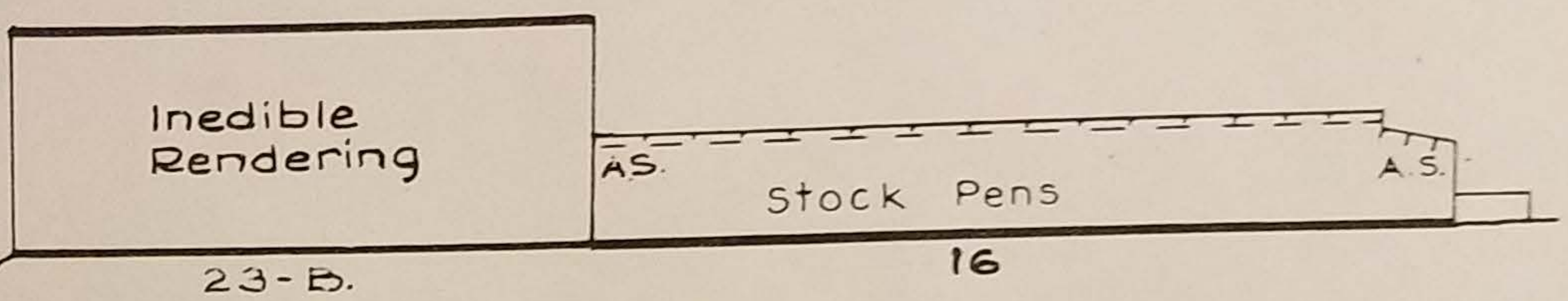
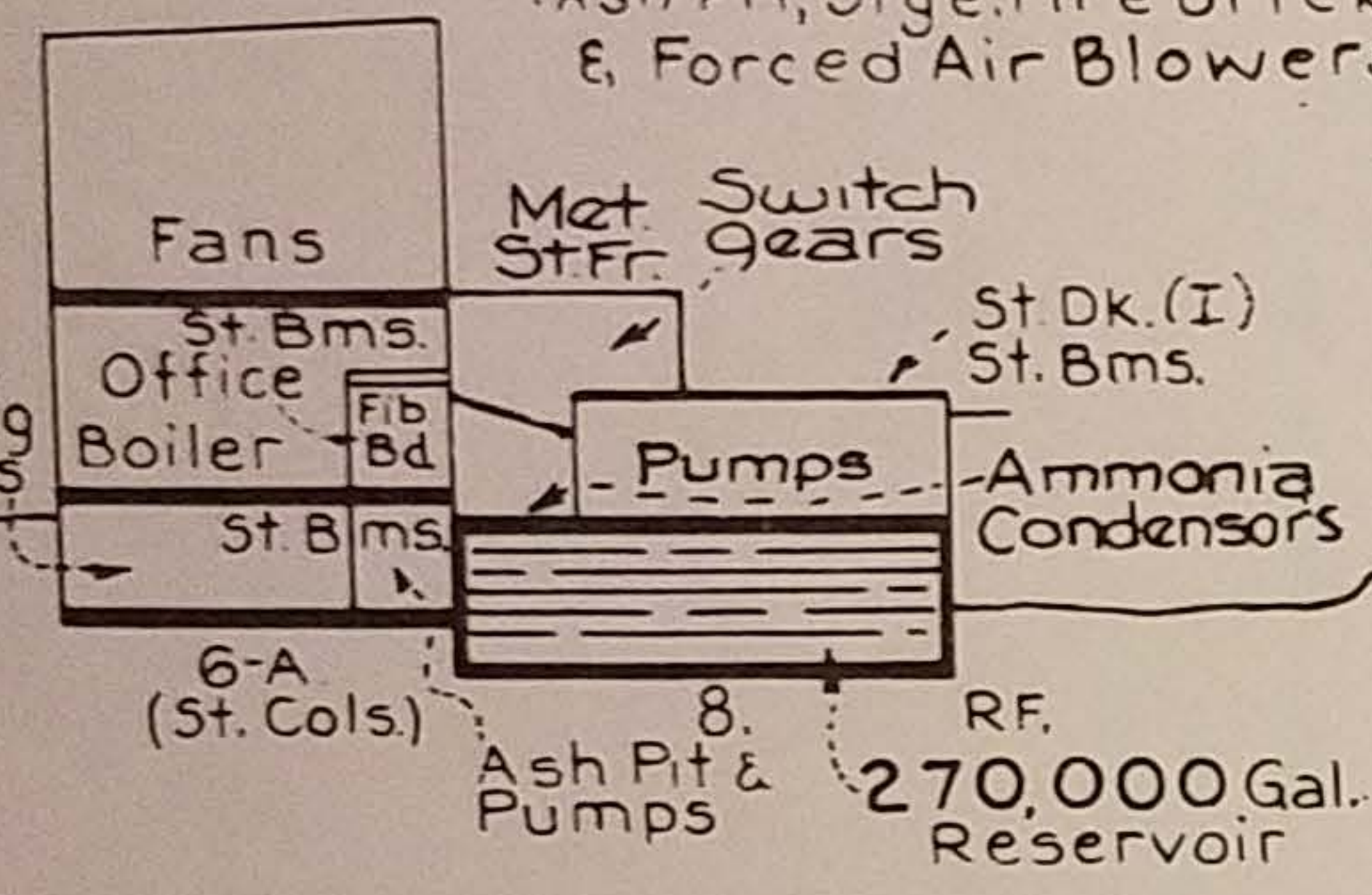
C.I. St Bms. C.I. St Bms. Stge Plumbing Equipment  
RF Ea RF Ea SHED  
Stge Steel



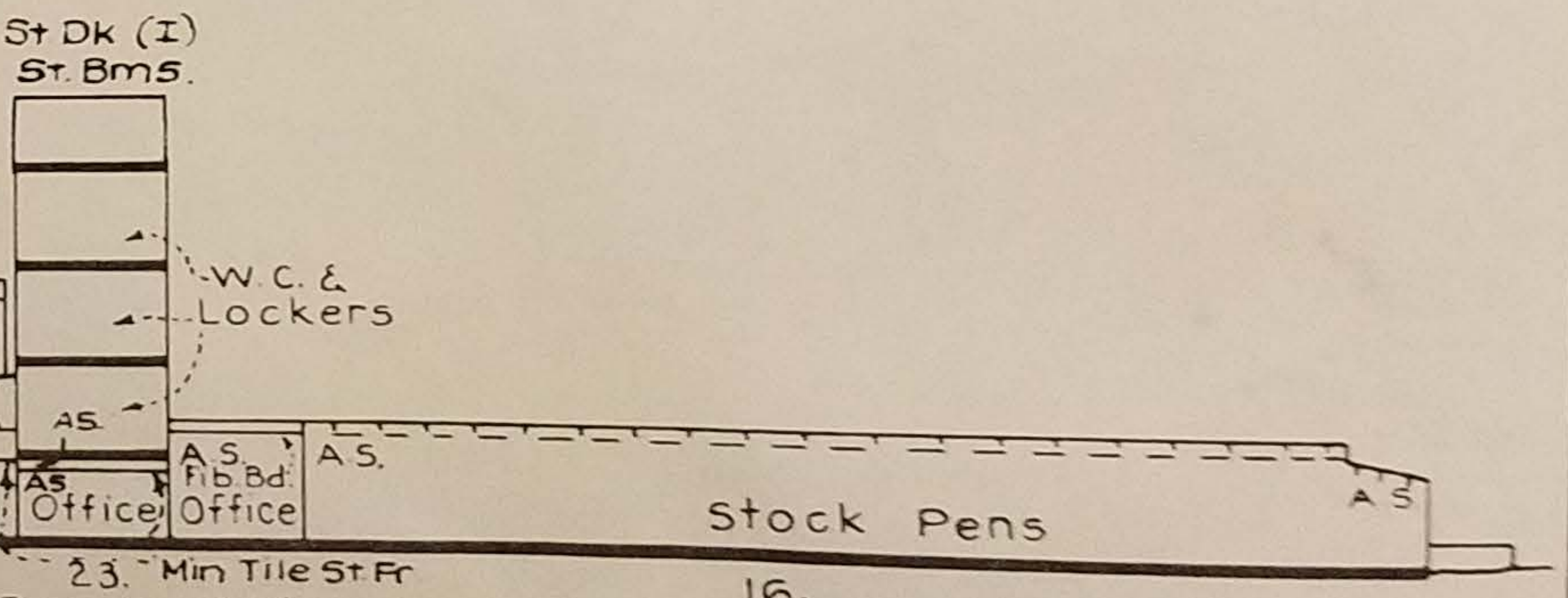
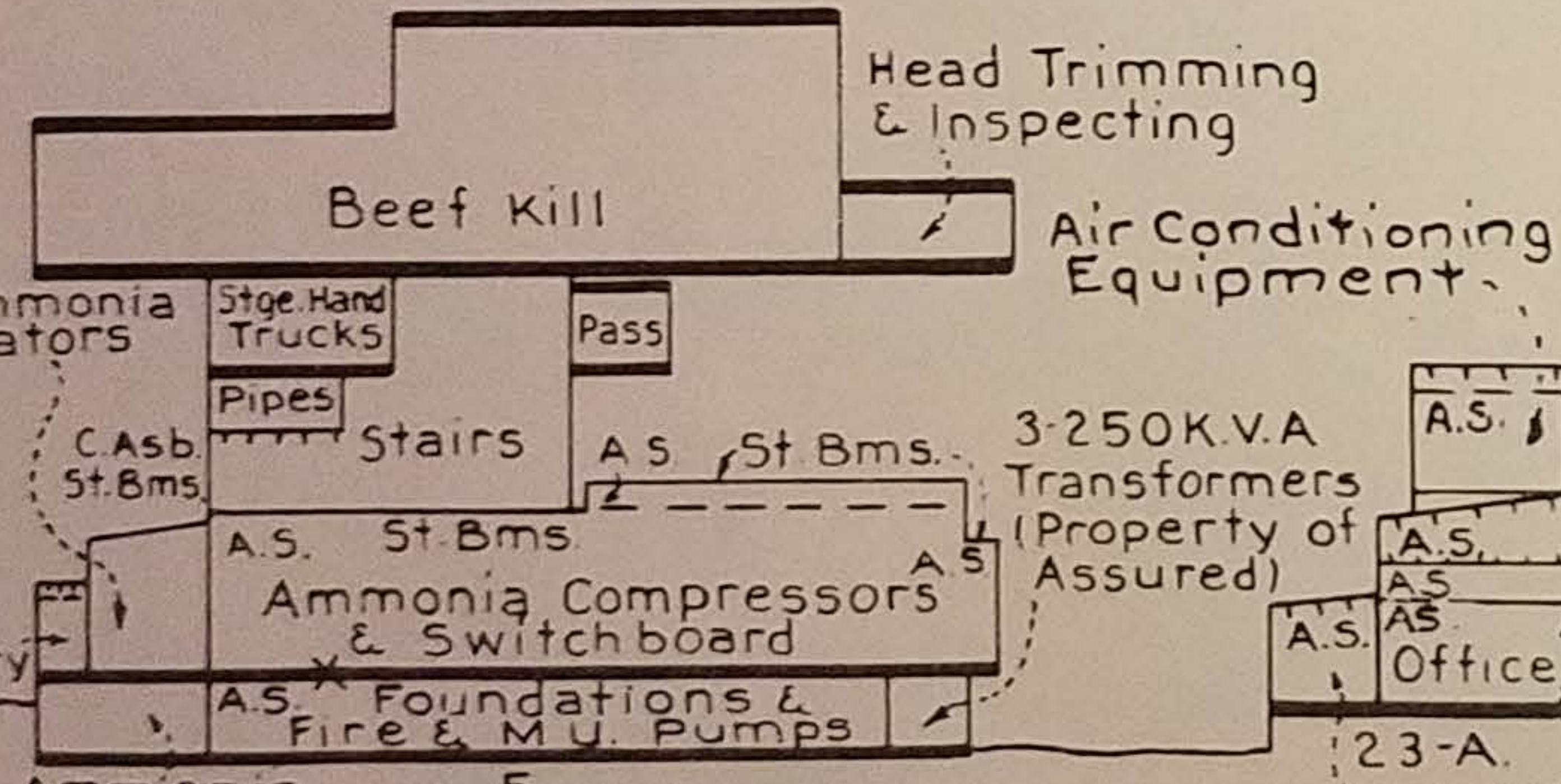
3-100K.V.A. Transformers (Property of Assured)

6-C (St. Cols.) ADD. (St Cols) (In Const)  
St. Dk. St Bms. Ash Pit, Stge. Fire Brick & Forced Air Blowers

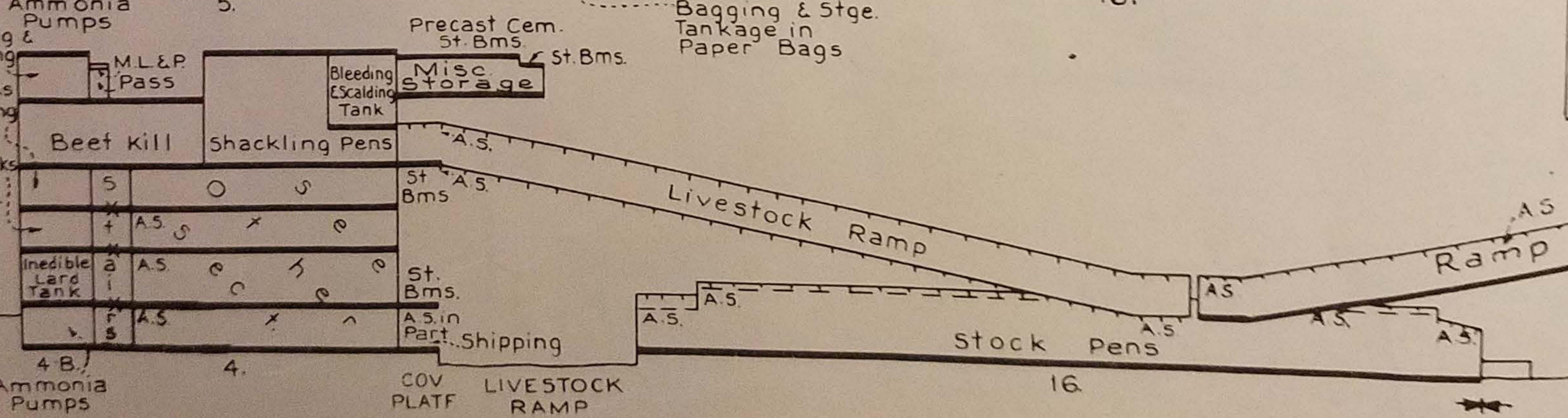
Loading C.I. Stge. Plumbing Supplies  
COV. PLATF.



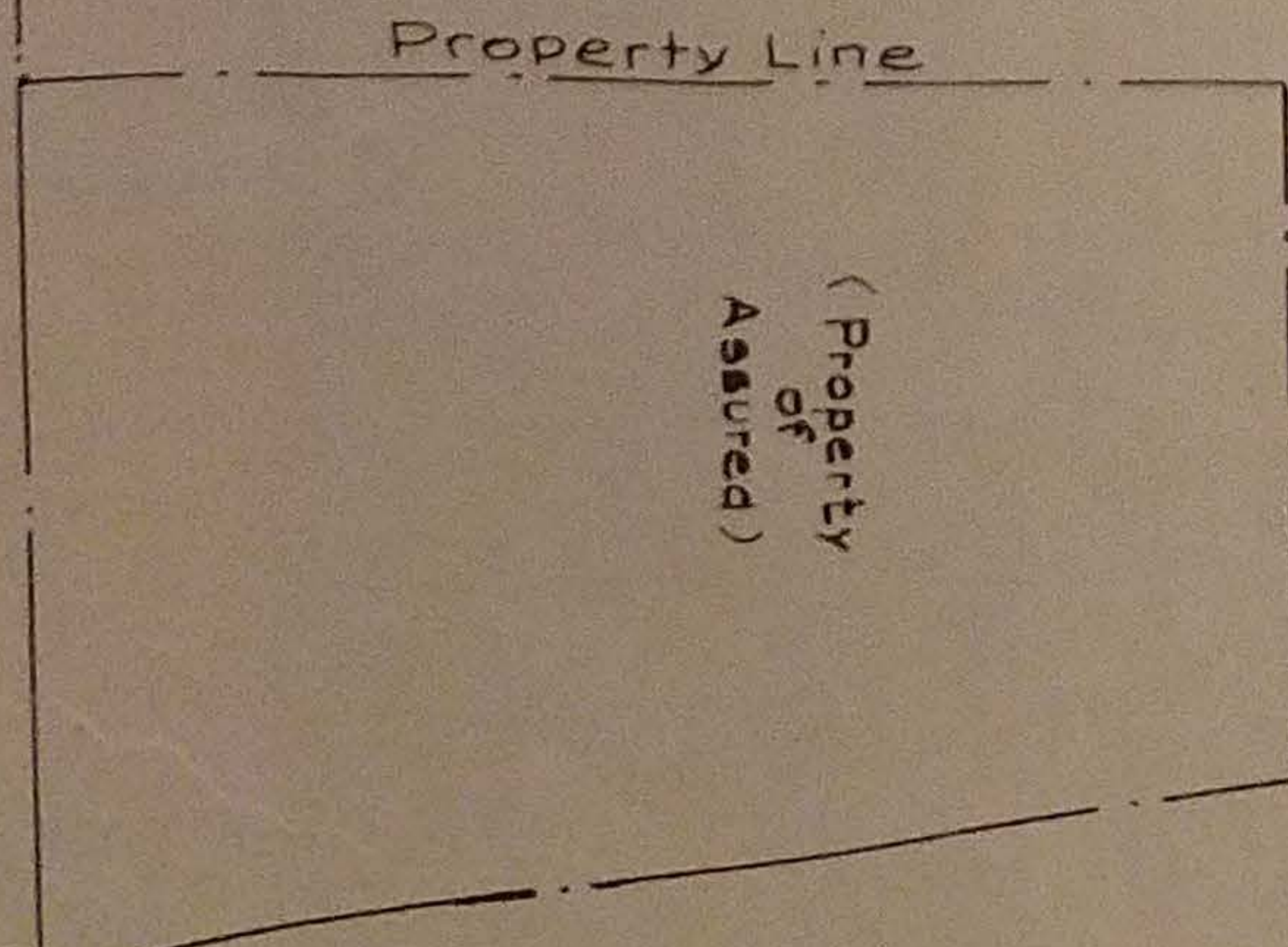
SKETCH "E"  
(Scale: 1/4" = 100ft.)



This Line Coincides with Similar Line on Serial NO. 101n

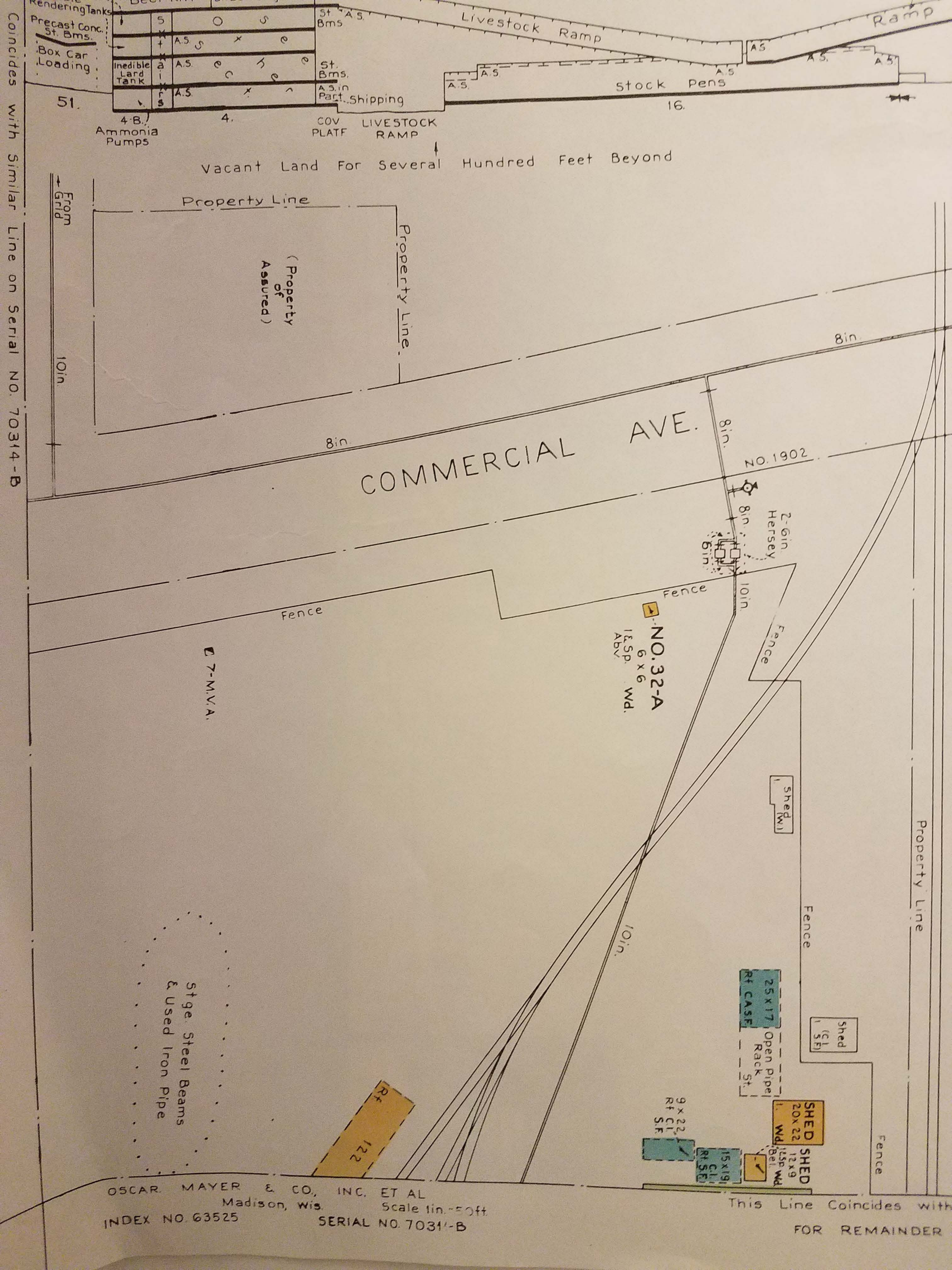


Vacant Land For Several Hundred Feet Beyond



1200 ft of 8 to 10in. 4 in Grid to P



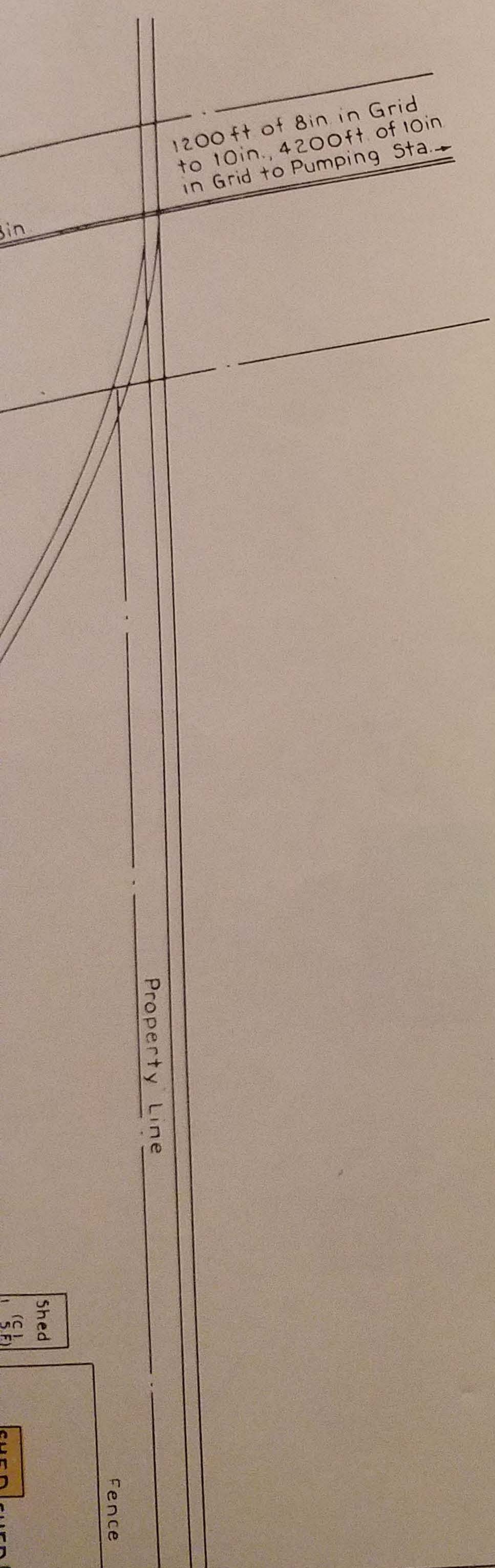
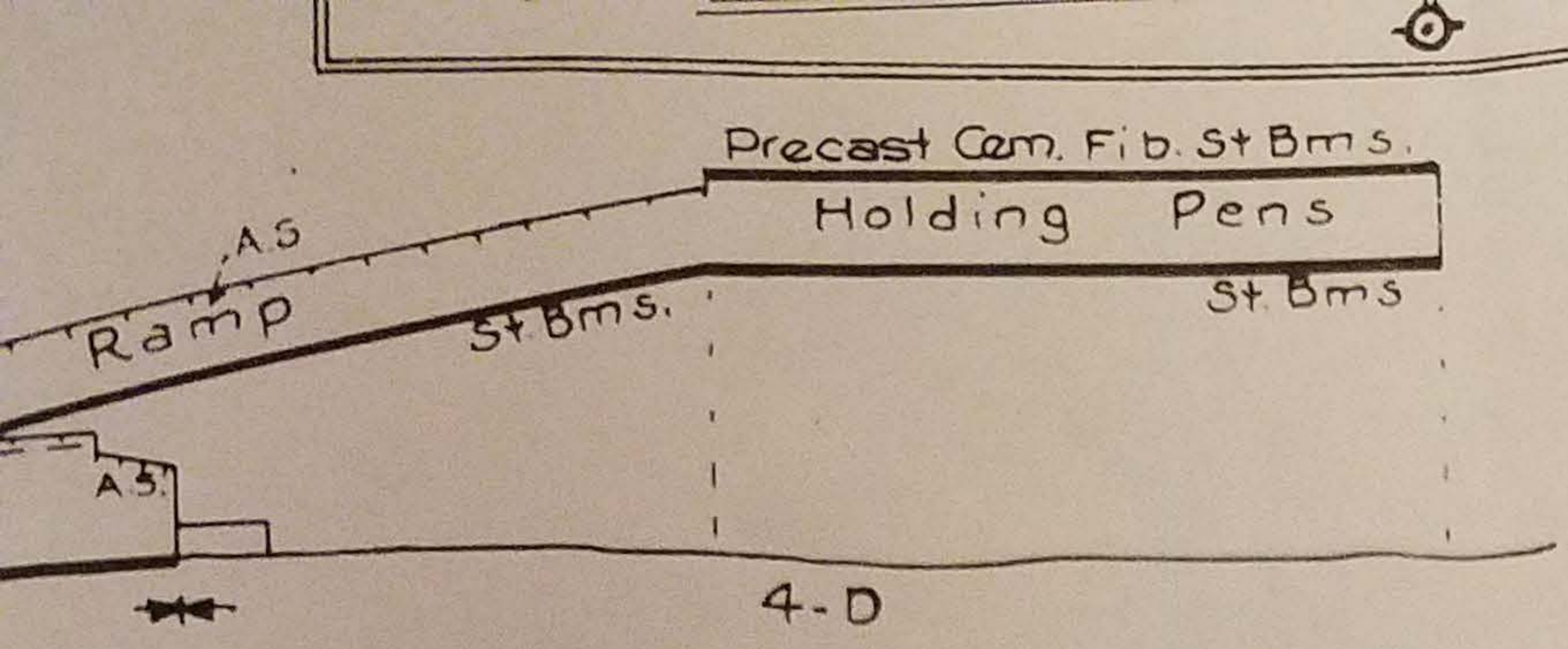


Coincides with Similar Line on Serial NO. 70314-B

OSCAR. MAYER & CO., INC. ET AL  
 Madison, Wis.  
 INDEX NO. 63525  
 Scale 1in. = 50ft.  
 SERIAL NO. 7031'-B

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 FOR REMAINDER





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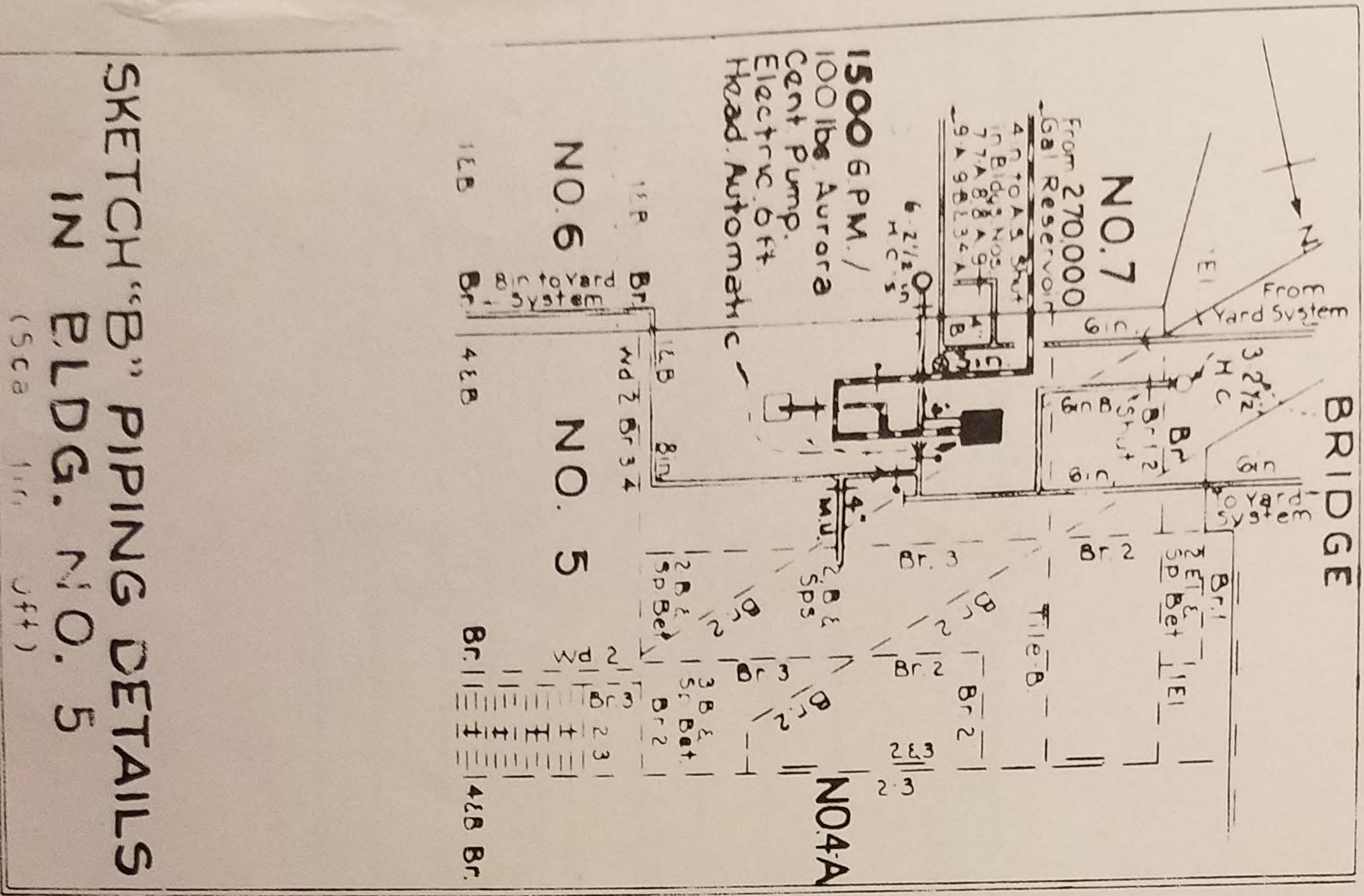
SERIAL NO. 70311-B

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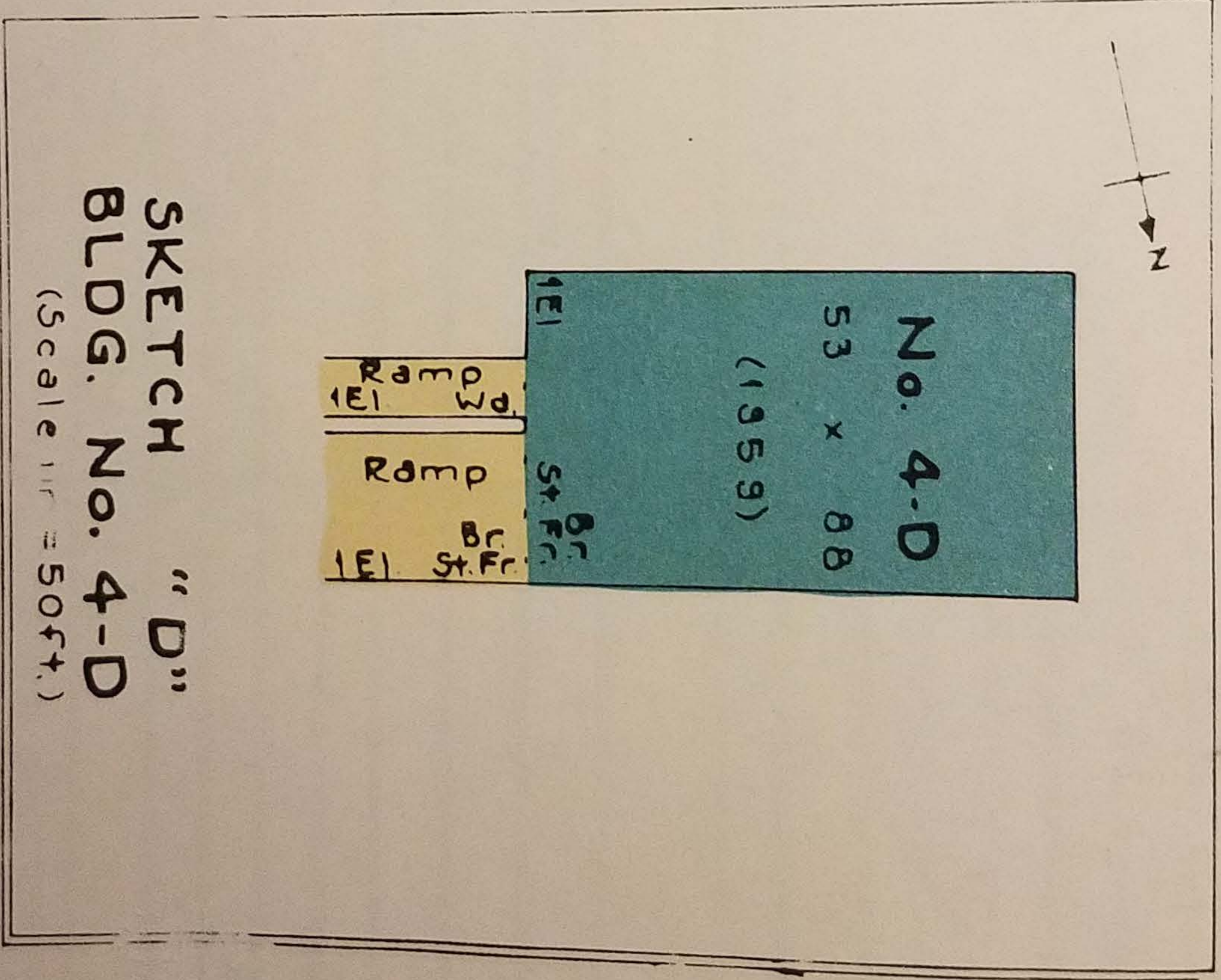
... Coincides with Similar Line on Serial NO. 70312-B  
 ... REMAINDER OF PLAN SEE SERIAL NOS. 70312A Thru 70316-B

32A.  
 R.F. Ea  
 Ea SHED SHED

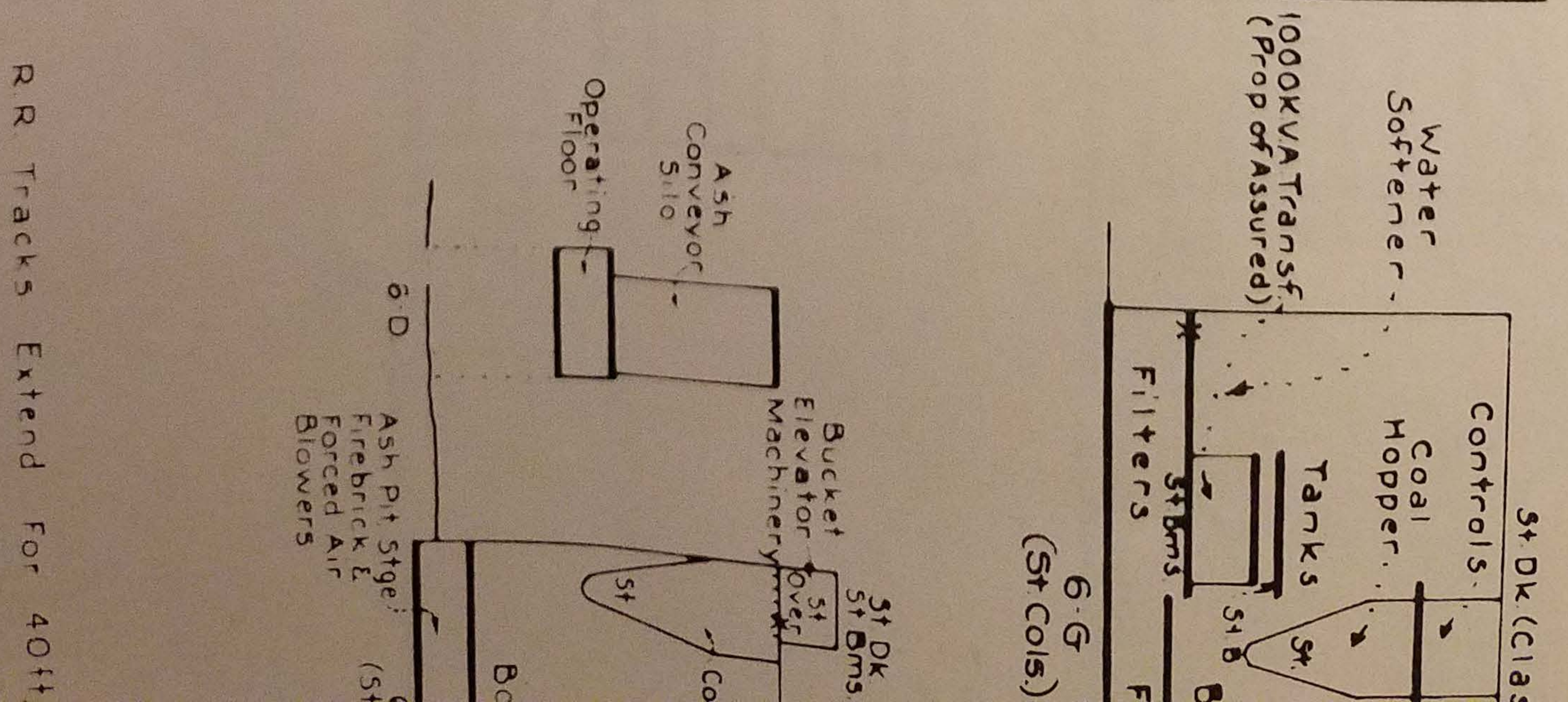




SKETCH "B" PIPING DETAILS  
IN BLDG. NO. 5  
(Scale 1/4\"/>



SKETCH "D"  
BLDG. NO. 4-D  
(Scale 1/4\"/>



RR Tracks Extend For 40ft

CHICAGO, MILWAUKEE, ST



R.R. Tracks Extend for 40ft. then Scattered 1st to CB & WD Bldgs Beyond

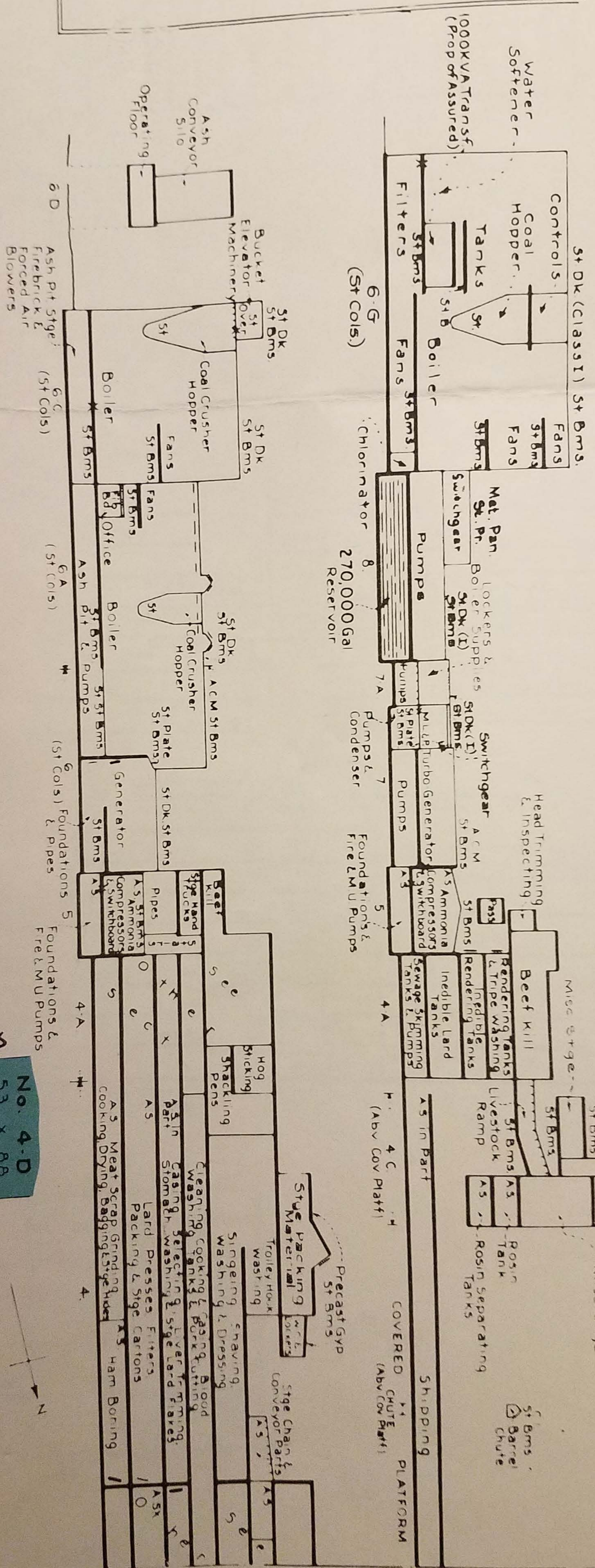
CHICAGO, MILWAUKEE, ST PAUL & PACIFIC R.R. (Portage Branch)

Open Platf  
WD

Open Platf

22x12

Area



See Sketch  
No. 4-D

No. 4-D  
53 x 88  
(1959)  
Br St Fr

SERIAL NO 7032 B

1	2	3
4	5	6



Fence & Property Line

29 x 68



This Line Coincides with Similar

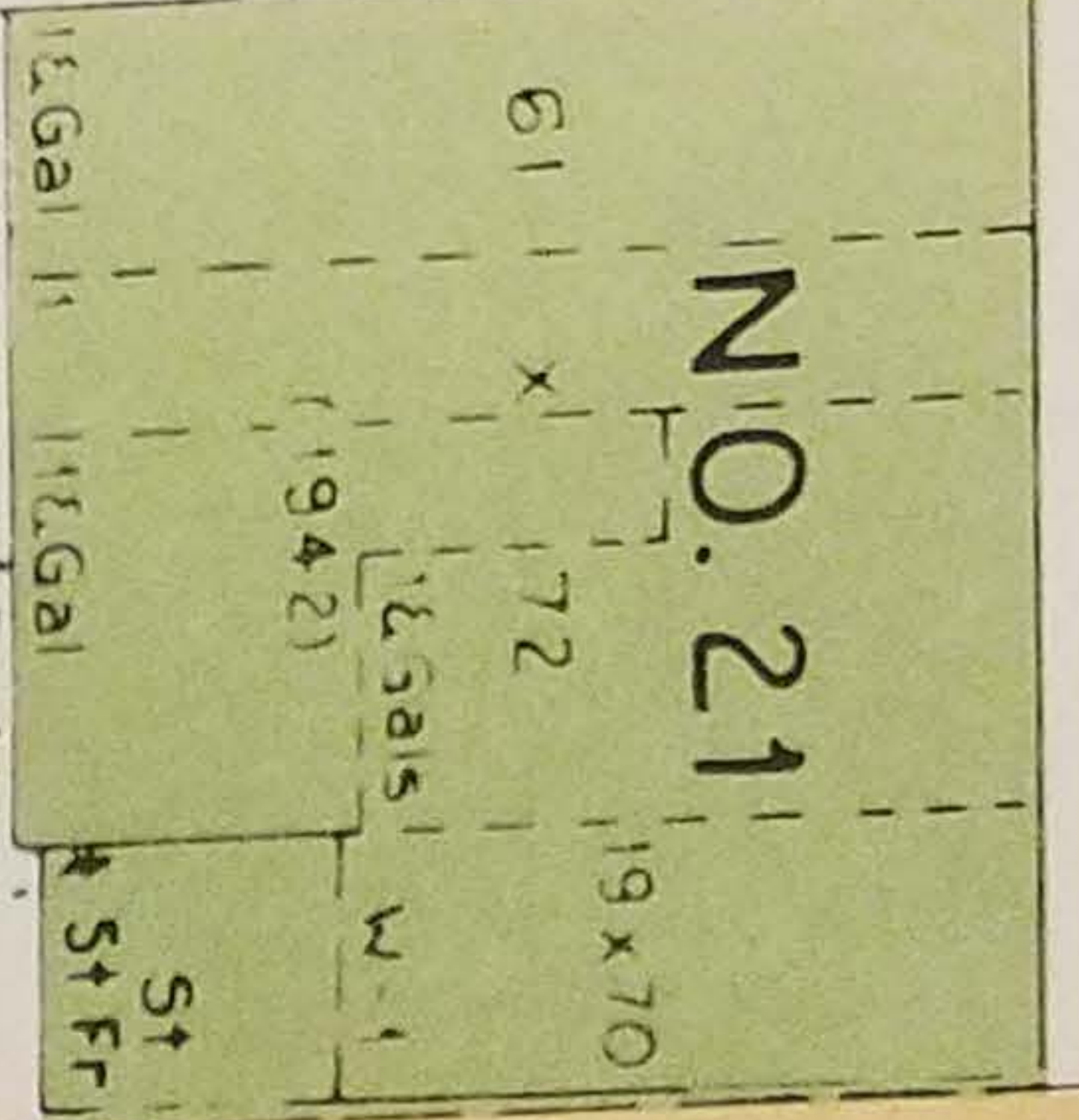
CHICAGO MILWAUKEE, ST PAUL & PACI

Fence

Property Line

Open Platf

WD



NO. 21

No. 16-B

NO. 16-B

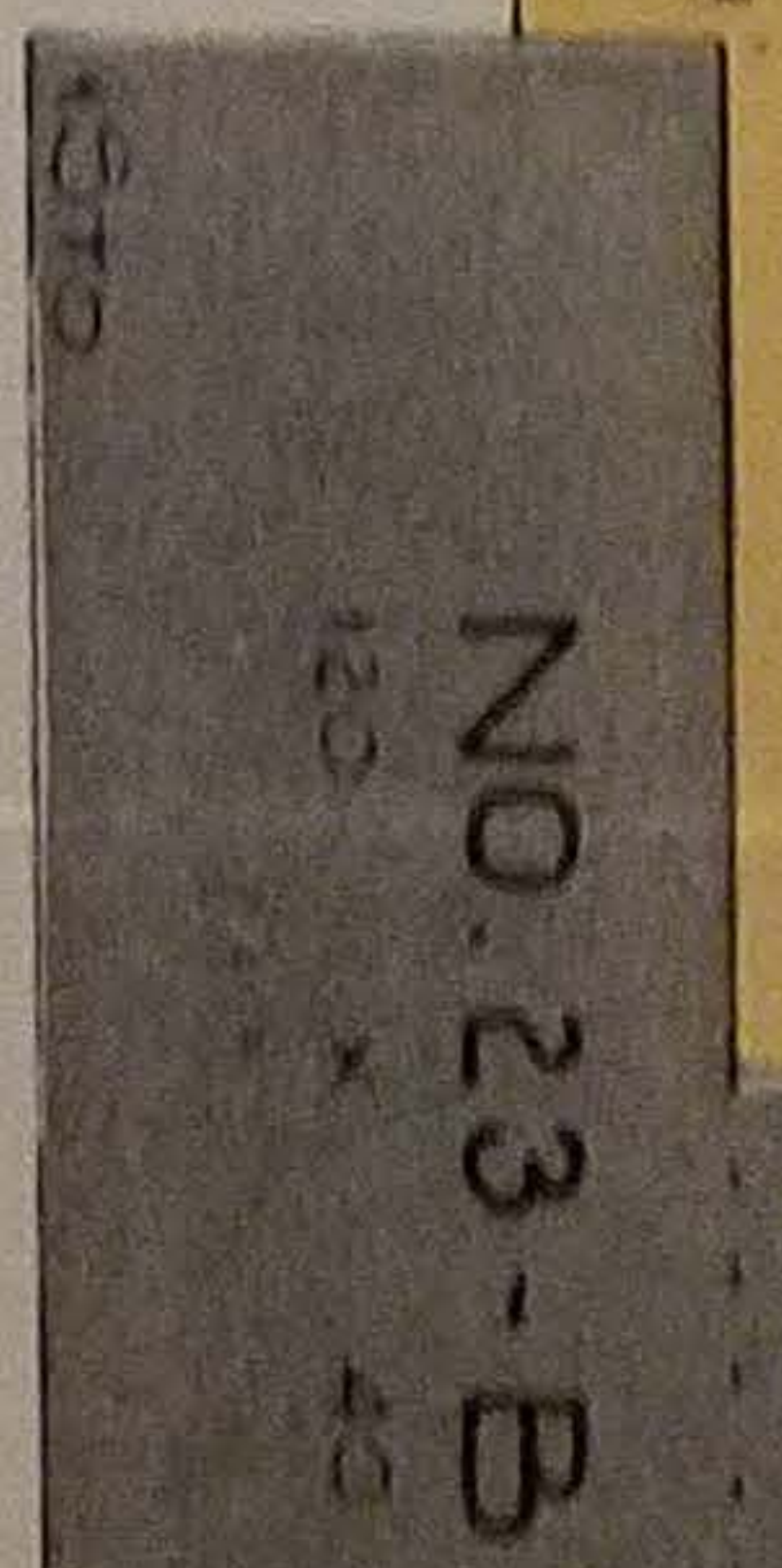
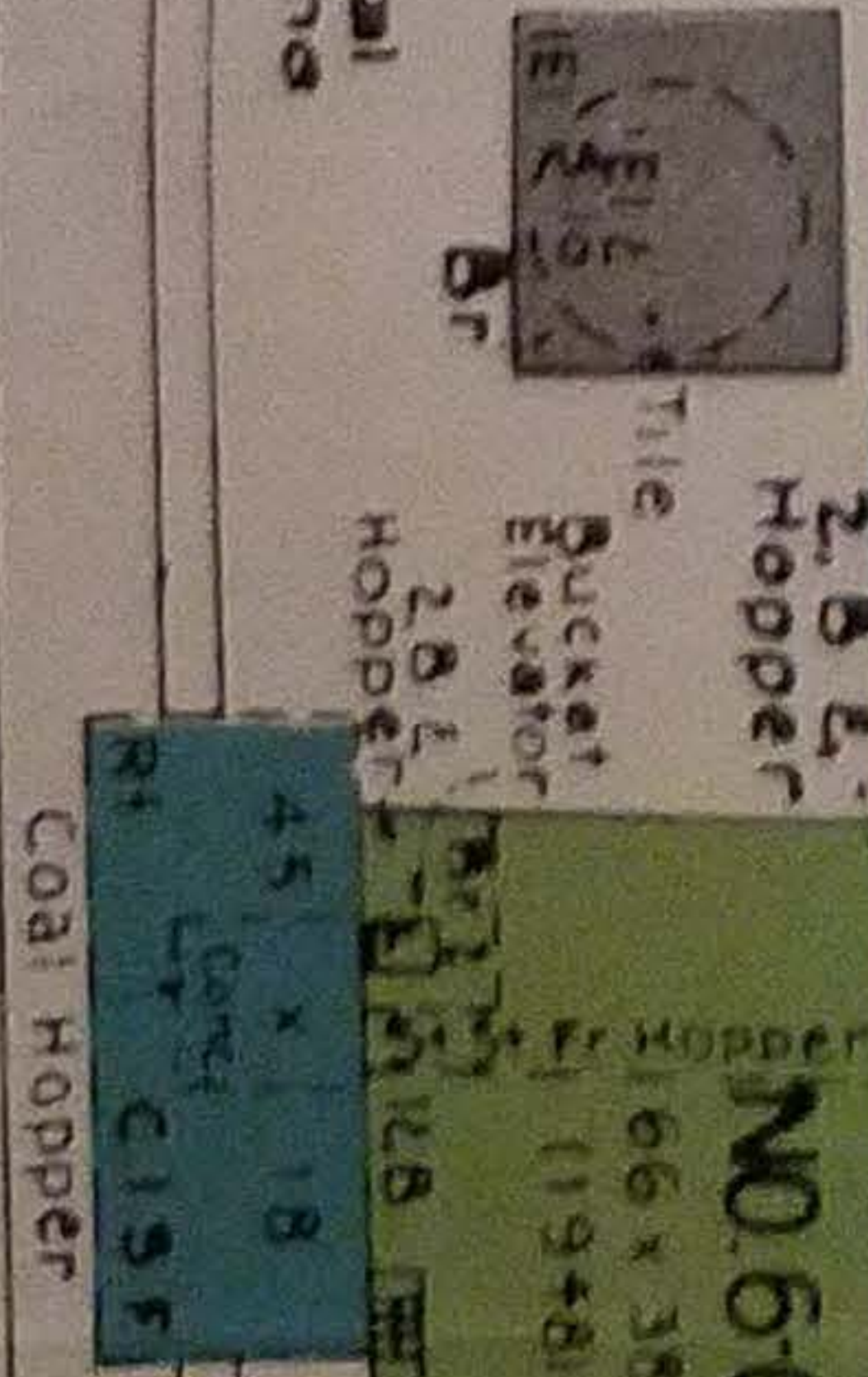
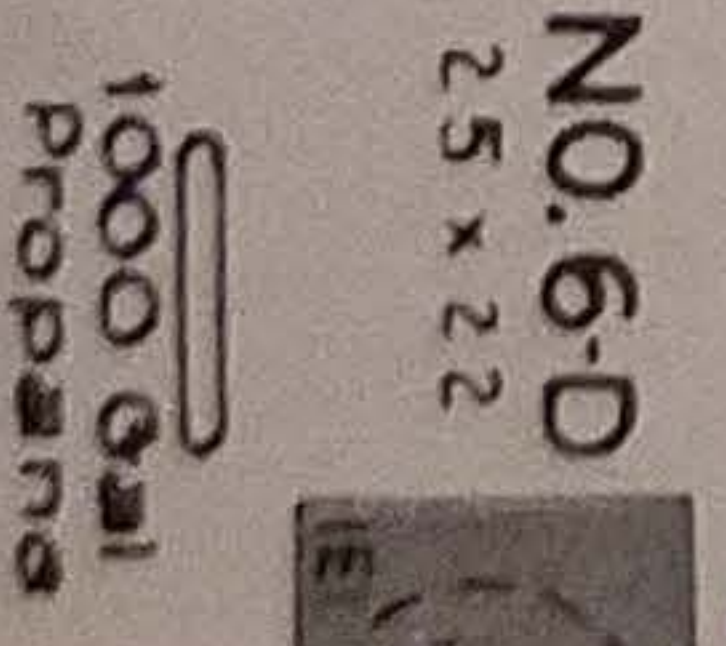
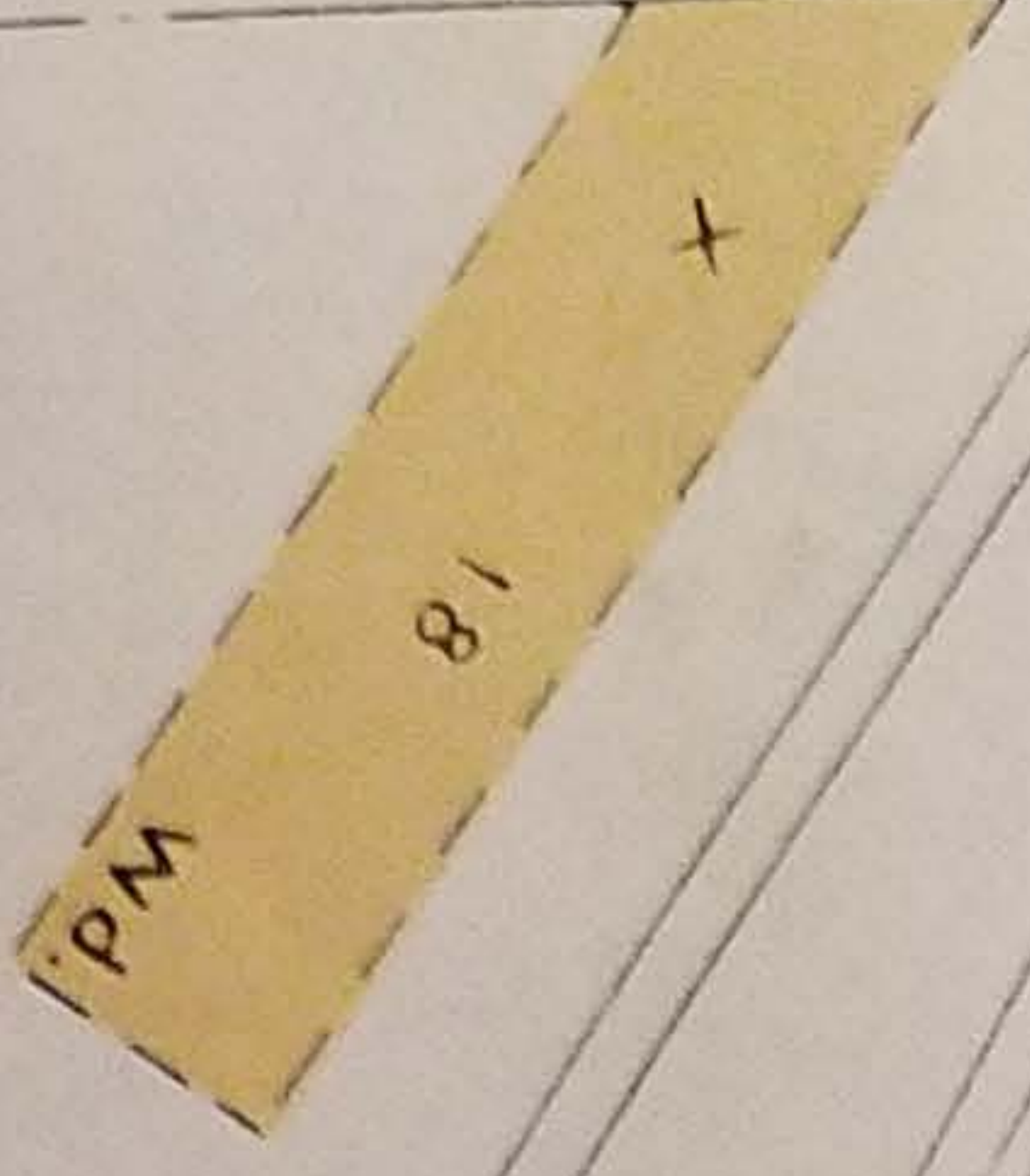
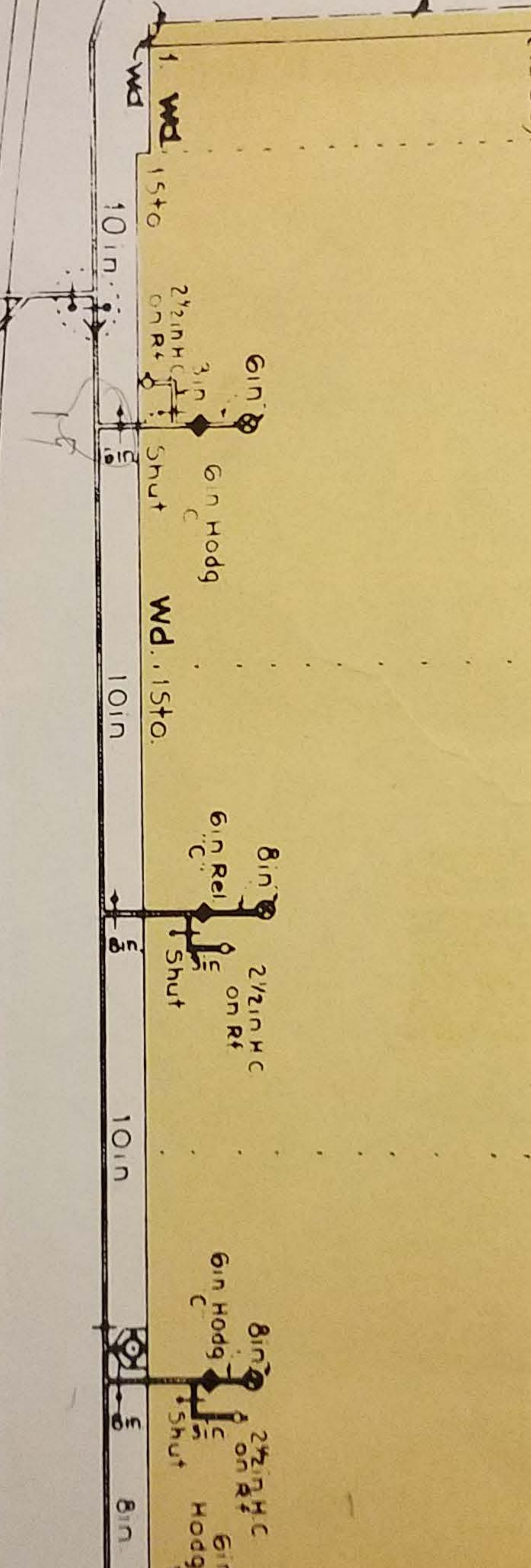
NO. 16-A

99 X 173

96 X 173

96 X 183

94 X 115



This Line Coincides with Similar Line



22x12

60x50

NO. 23-B

270,000 Gal Reserve Oil

NO. 6-C

NO. 6-D

2500 Gal Sulphuric Acid

Cooling Tower

Cooling Tower

NO. 37



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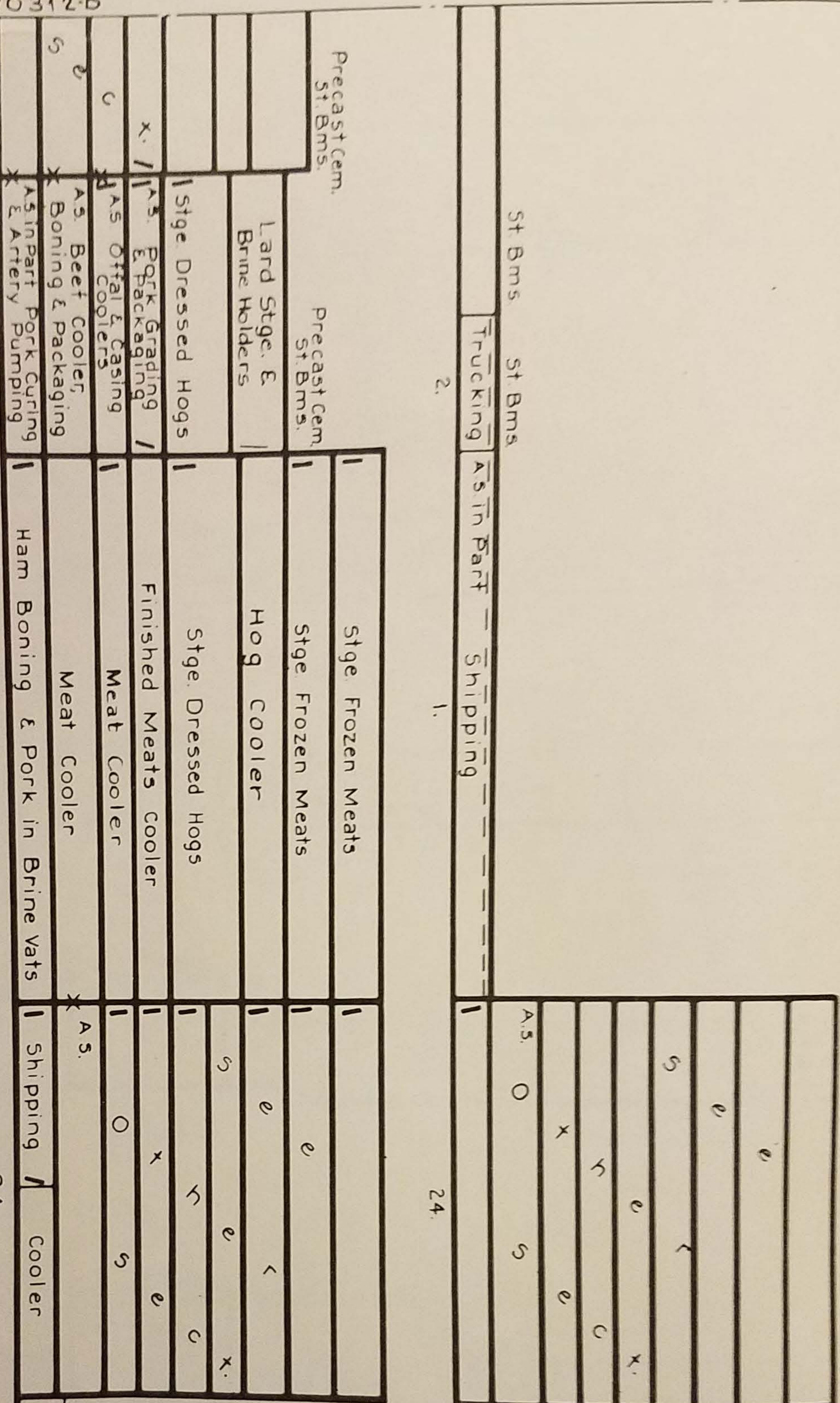
(St. Coils) Repairing

Stge. Spices, Sugar & Cartons

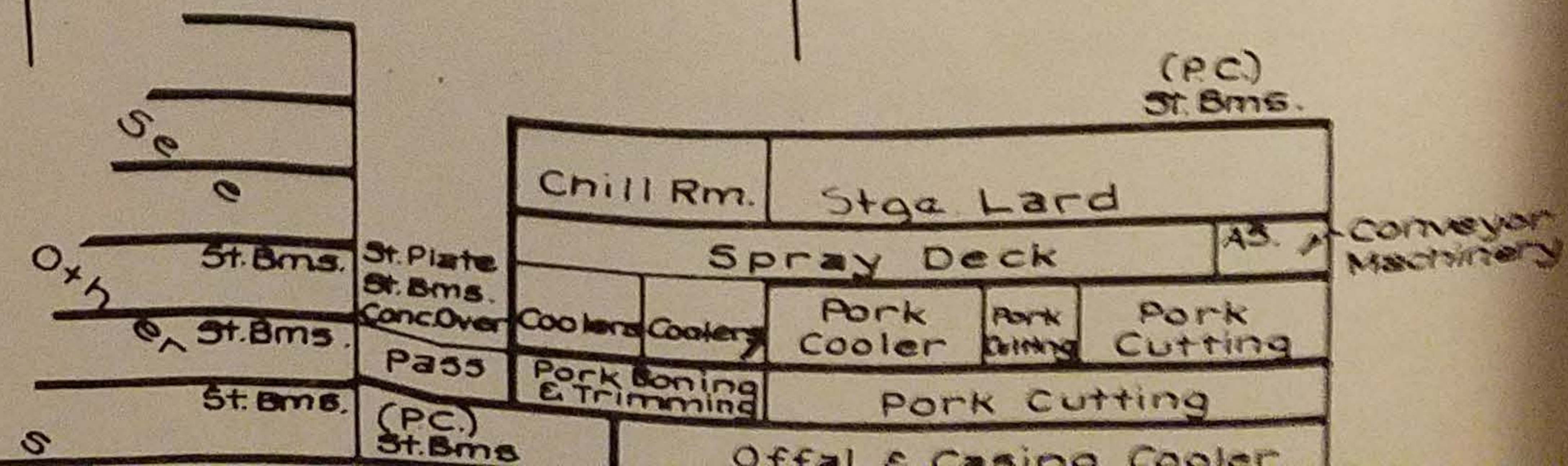
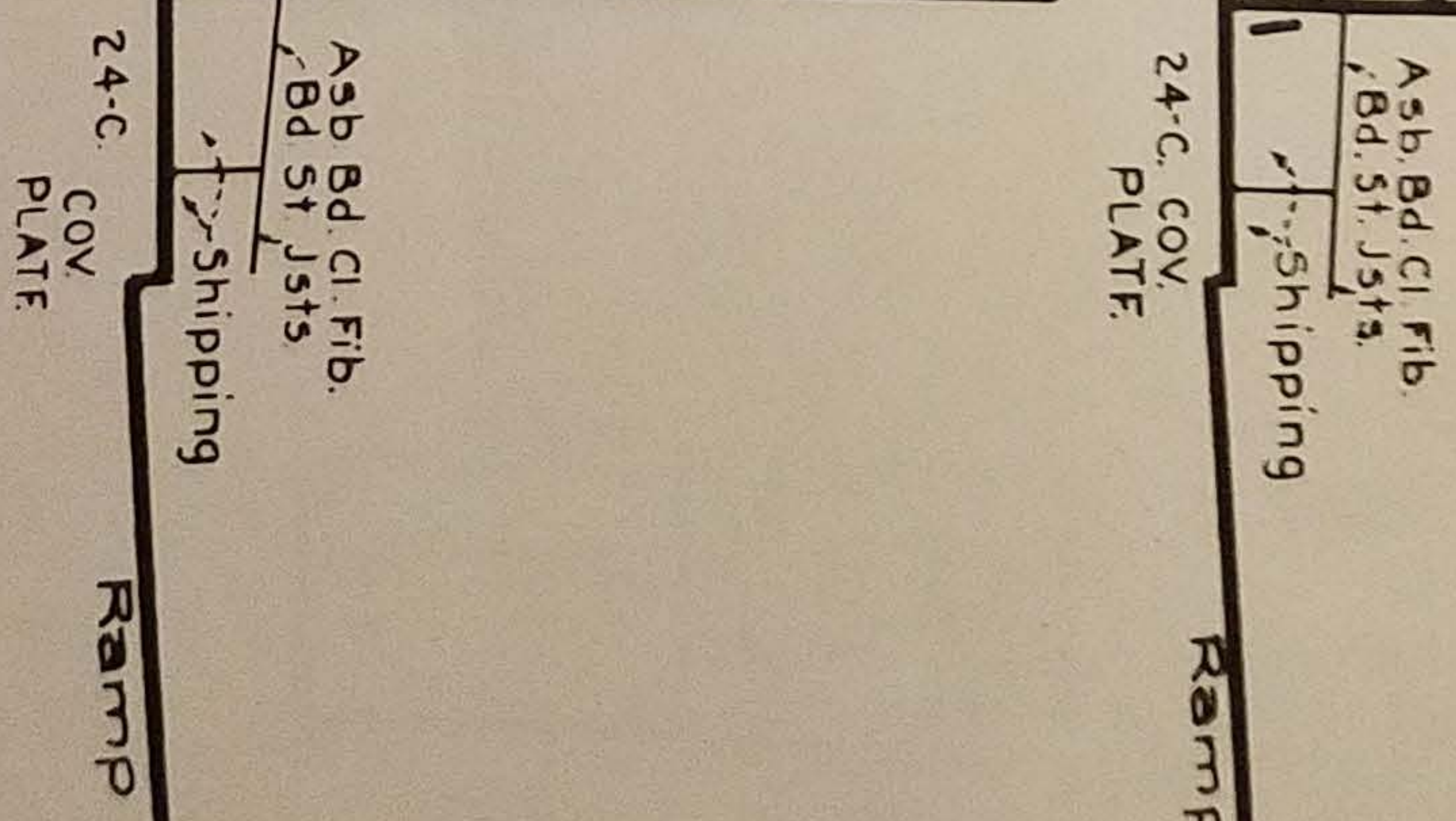
(St. Coils)

Fig. Bd. 5x Ft.

43.



R.R. Tracks Extend For 40ft, then Scattered 15to C.B. & Wd Bldgs. & Fuel Oil Tanks & Coal Silo Beyond



SERIAL No 70313-B

1	2	3
4	5	6

Fence & Property Line

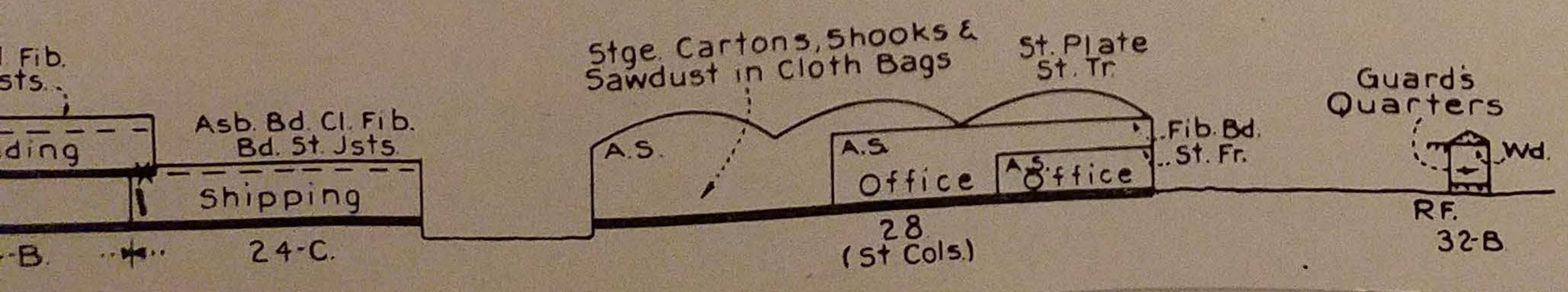
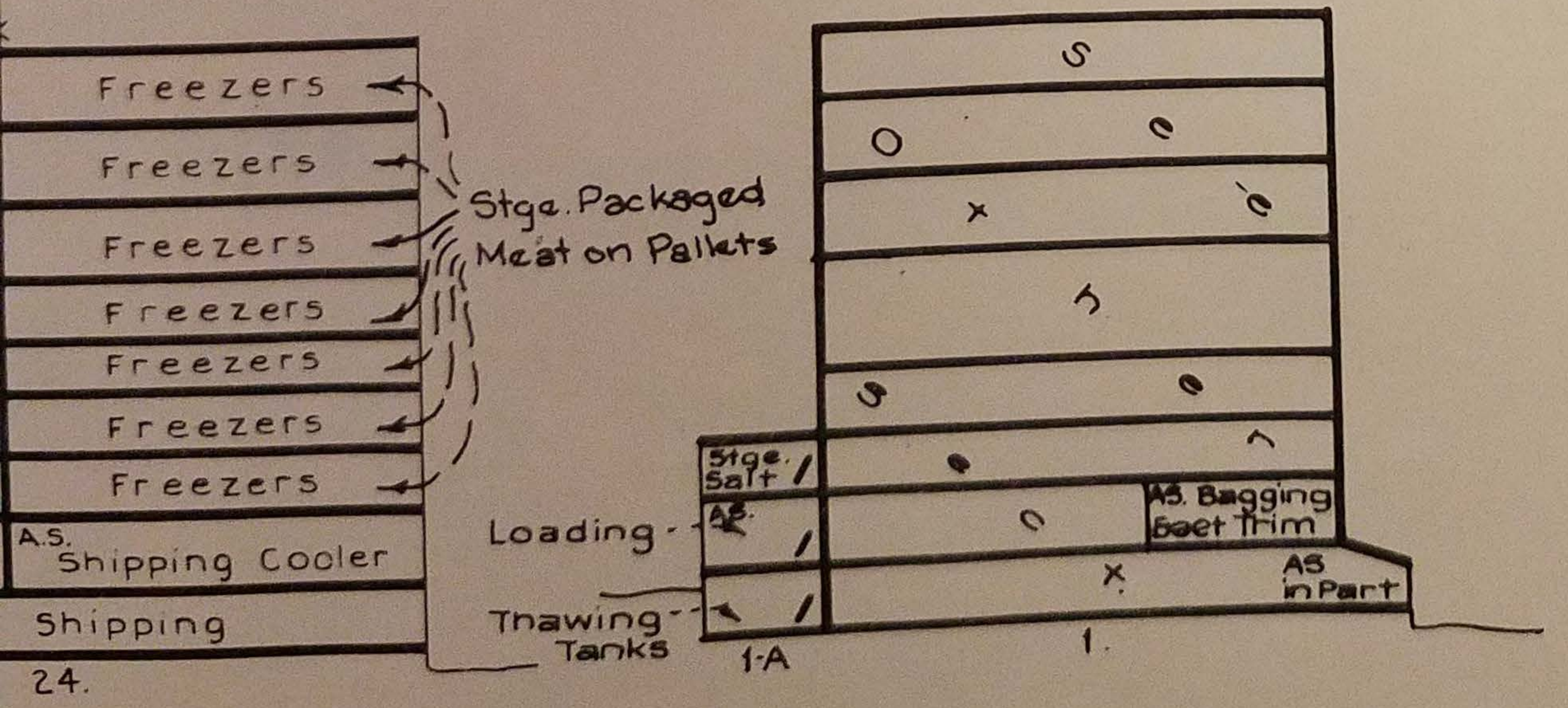
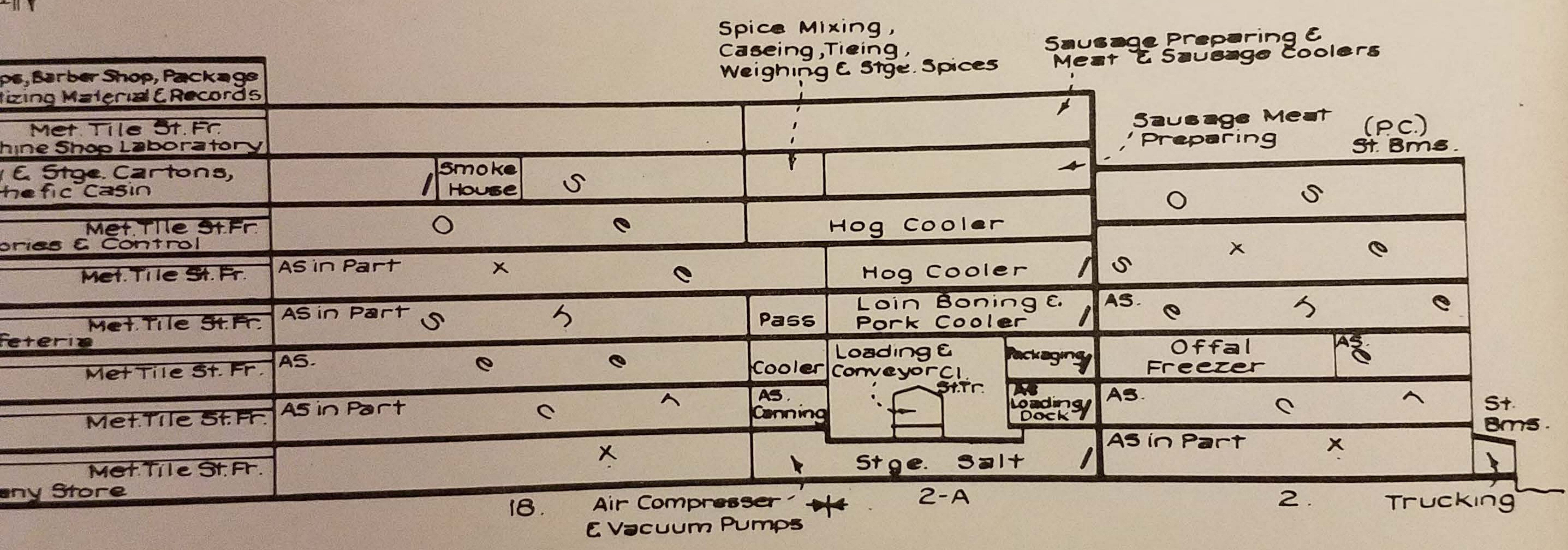
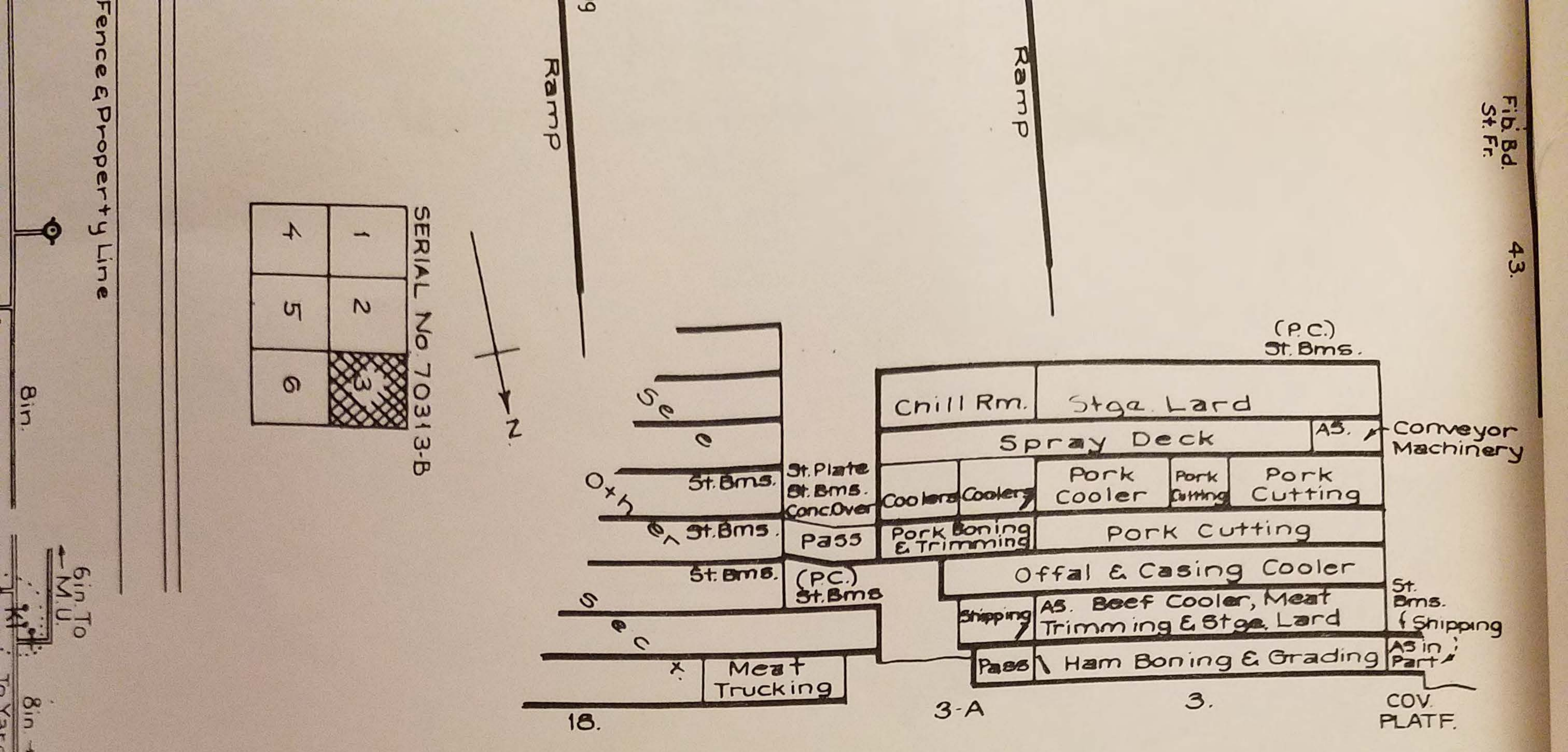
Fence & Property Line

Bin

Bin

Bin







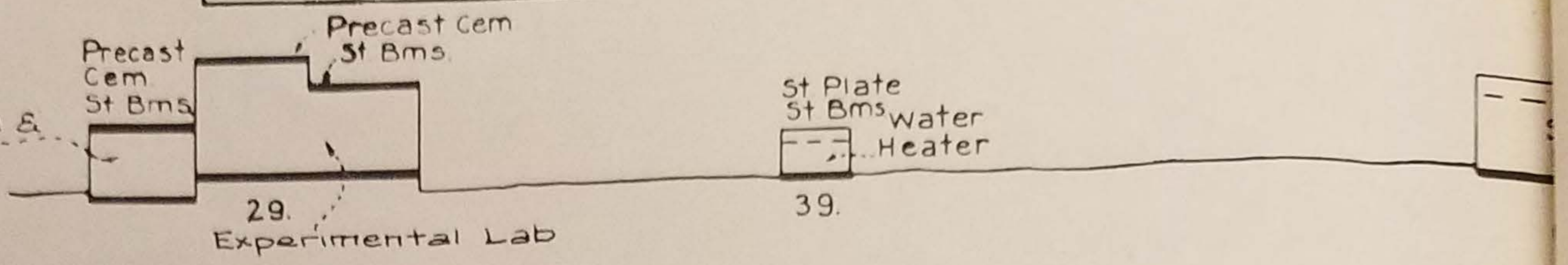








Distillation of Alcohol & Ethylene Dichloride



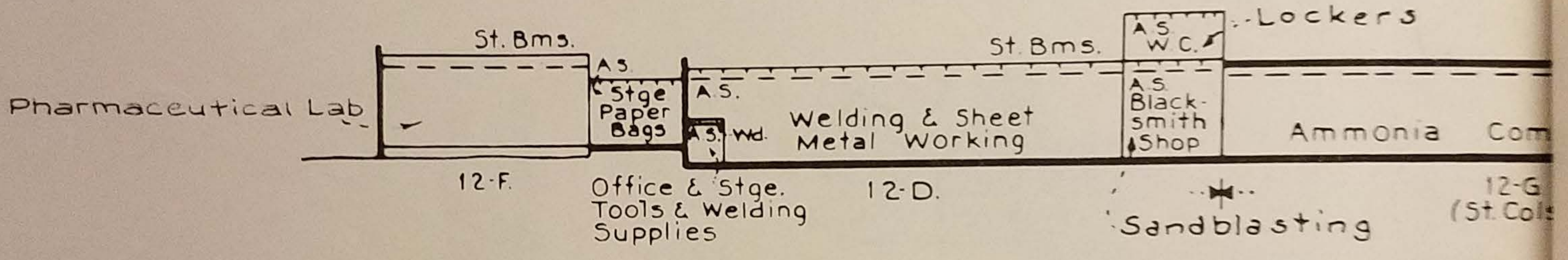
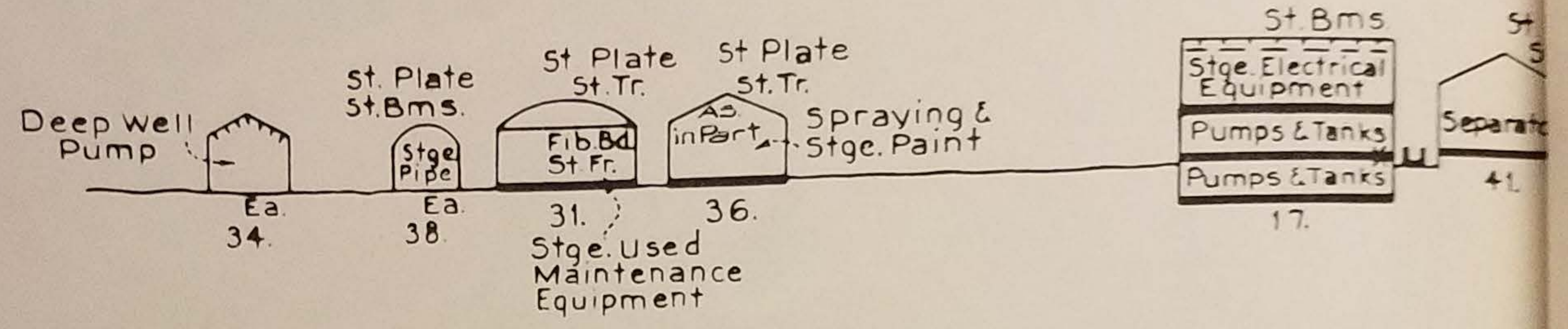
Cem Tile St. Bms.

acking, hing

e

Shipping

Doors, Wire lows



Cl. St. Bms

Marrel Chute

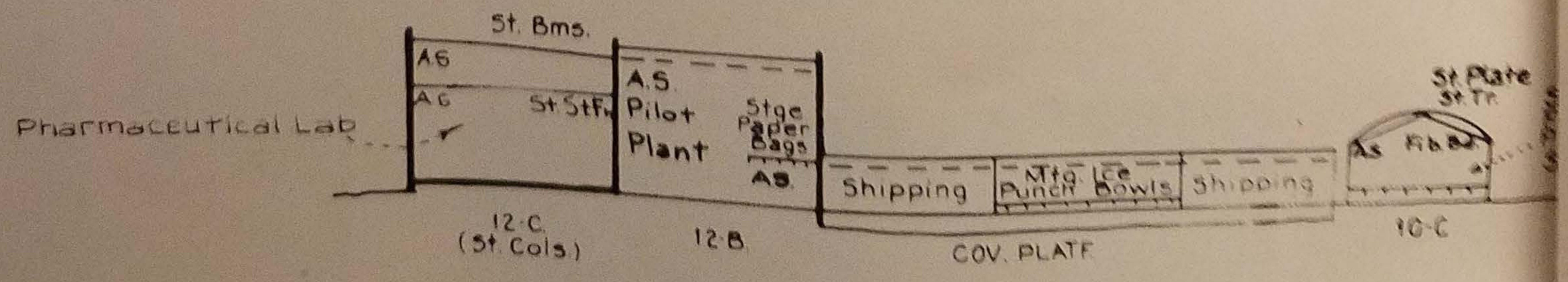
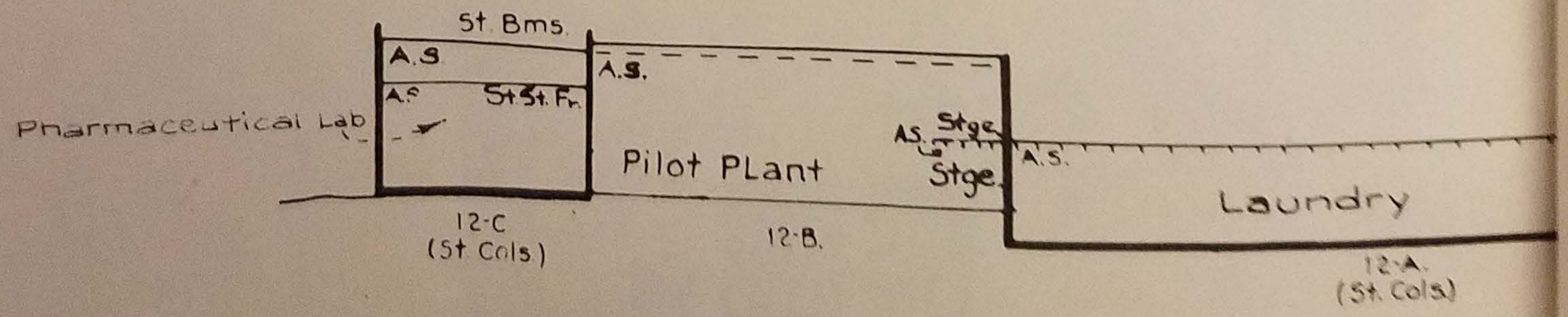
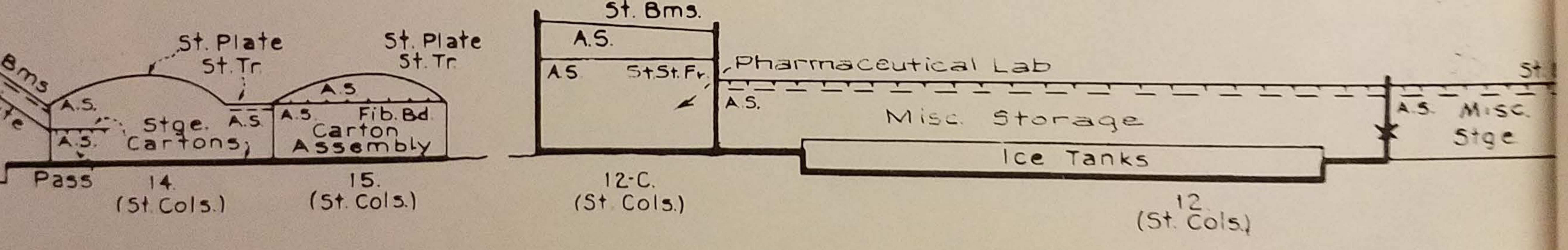
St. Bms.

A.S. in part

CHUTE

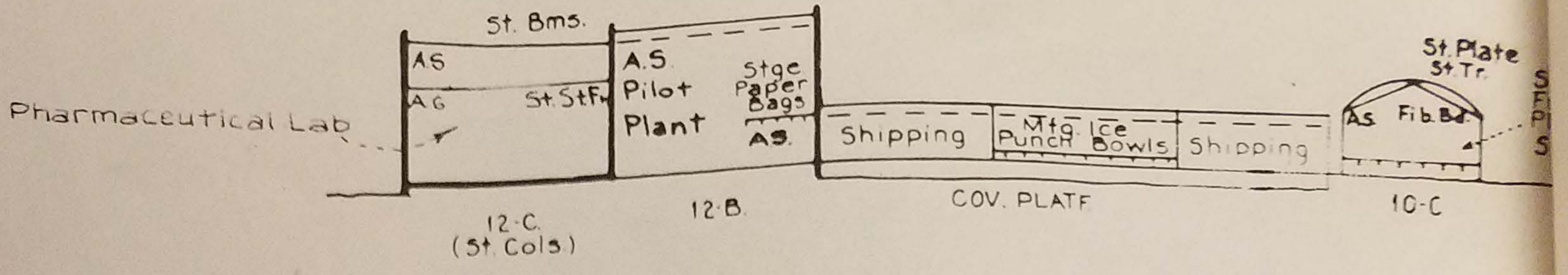
OV

LATE



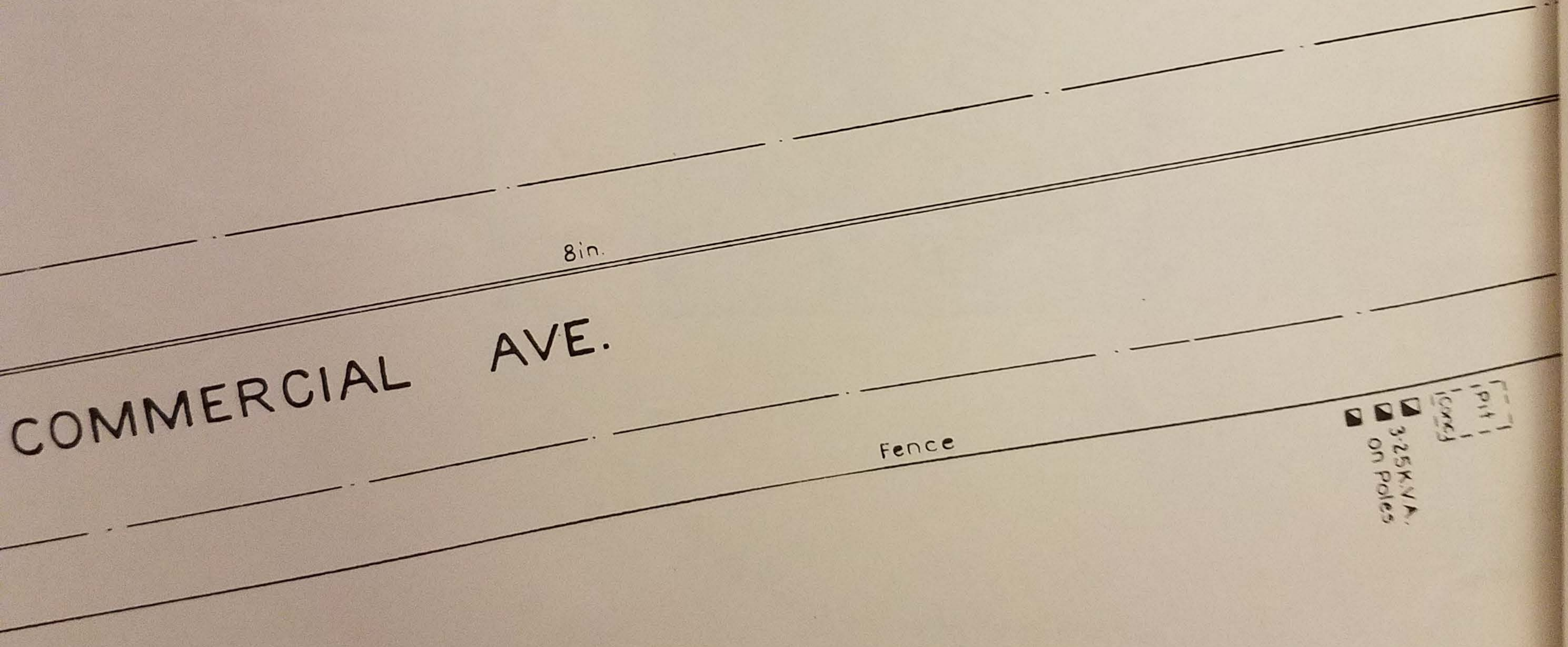
Mount Land for several hundred feet beyond  
See sketch "A"





↑  
 vacant Land For Several Hundred Feet Beyond  
 See Sketch "A"

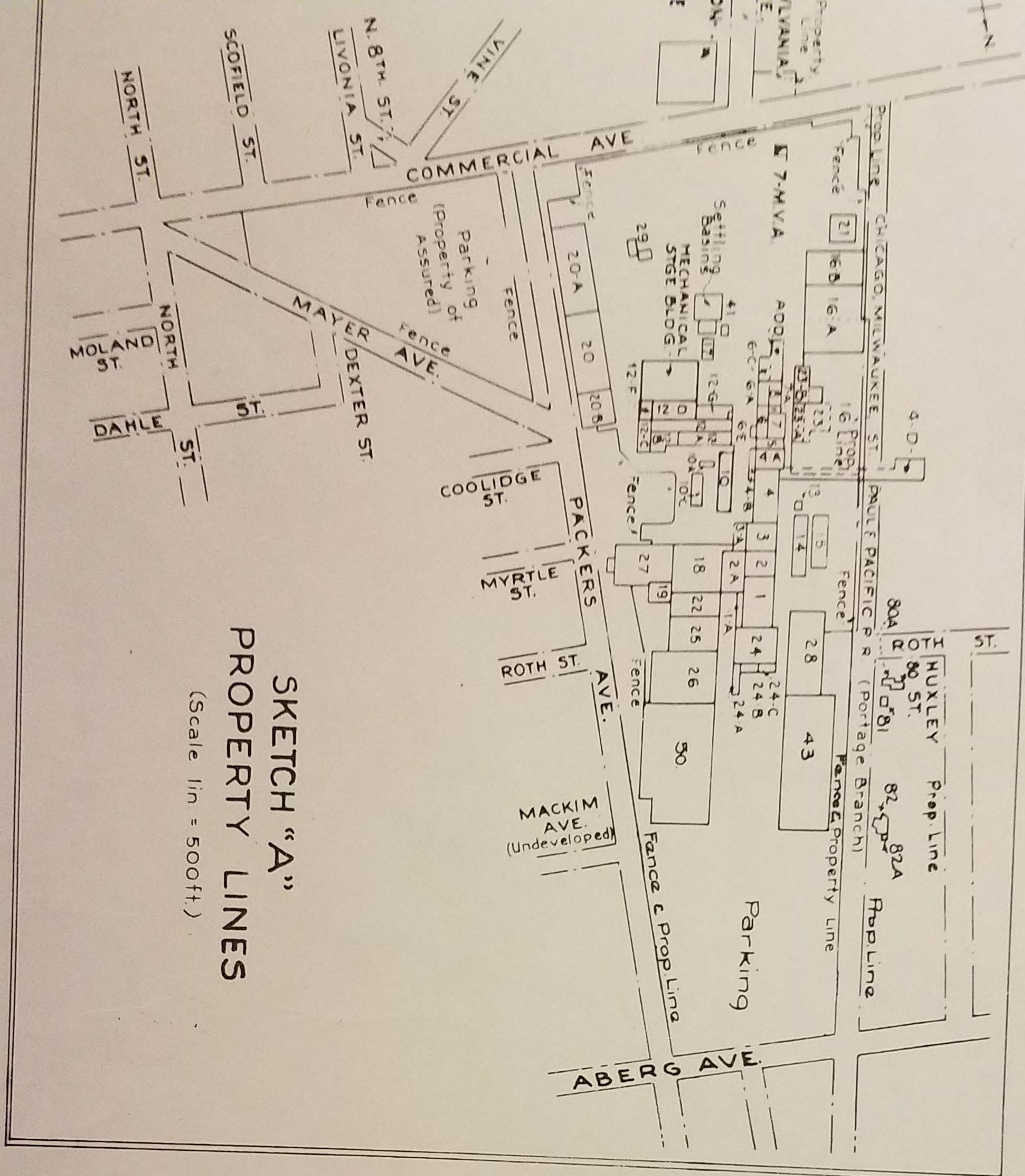
MADISON  
 TECH.  
 COLLEGE



PUMP HO.  
 1 BR.  
 R.F. RC.

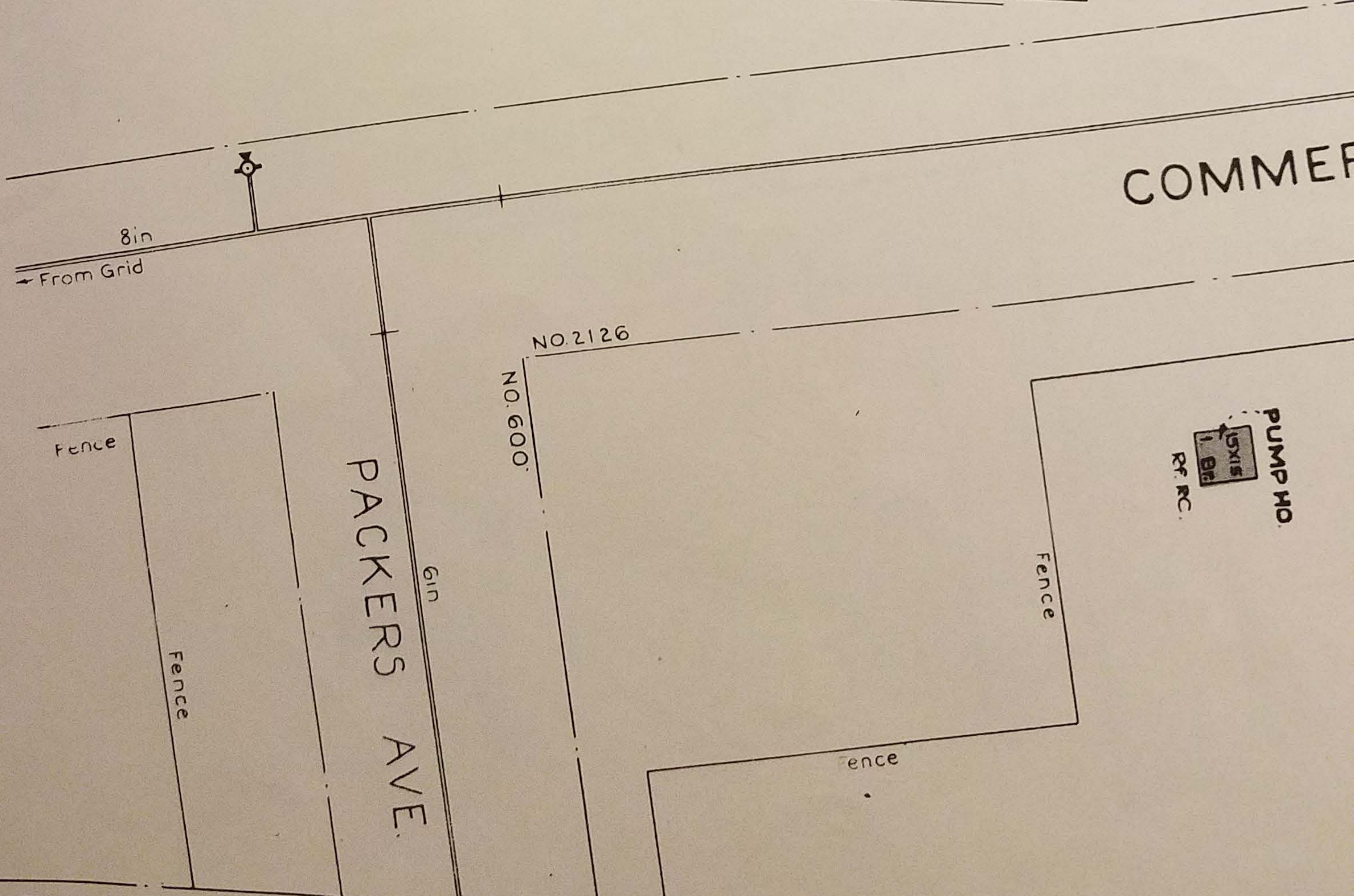
3-25 K.N.A.  
 ON POLES





**SKETCH "A"**  
**PROPERTY LINES**

(Scale 1in = 500ft.)



SERIAL NO. 70314-B

1	2	3
4	5	6

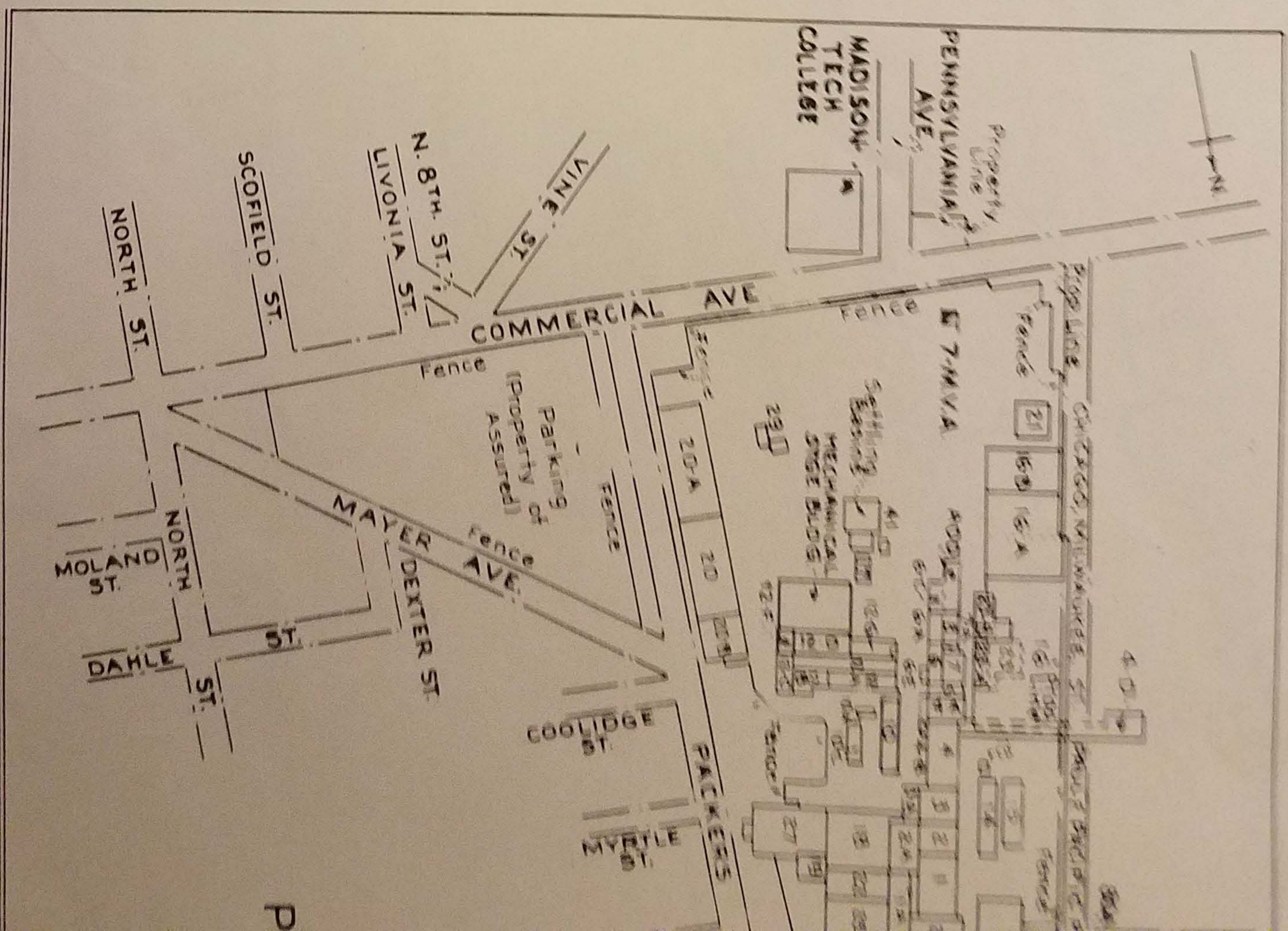
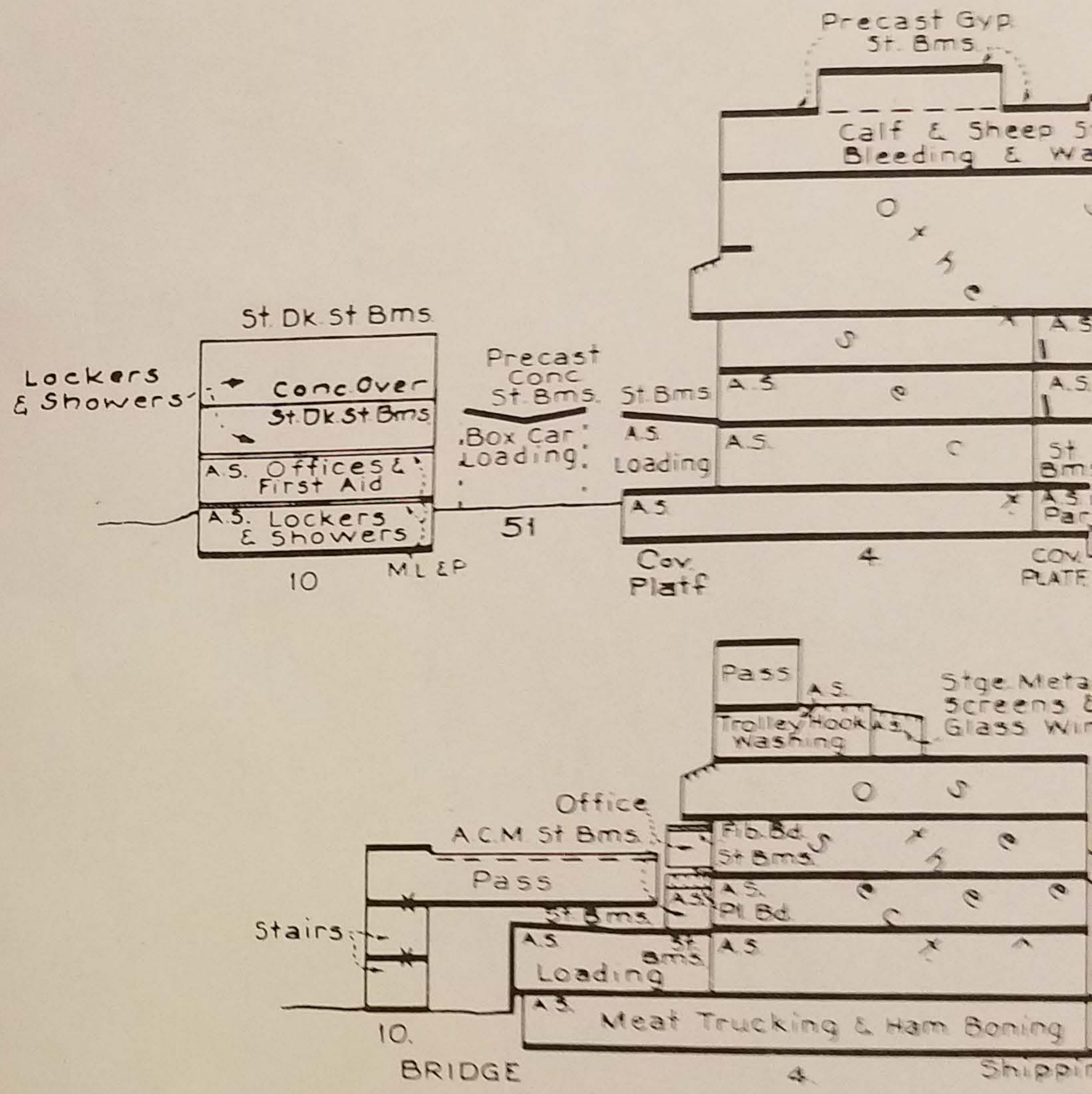


OSCAR MAYER & CO, INC ET AL  
Madison, Wis.  
INDEX NO. 63525  
Scale 1in = 50ft.  
SERIAL NO. 70314-B

This Line Coincides with Similar L  
FOR REMAINDER OF PLAN SEE SERIAL



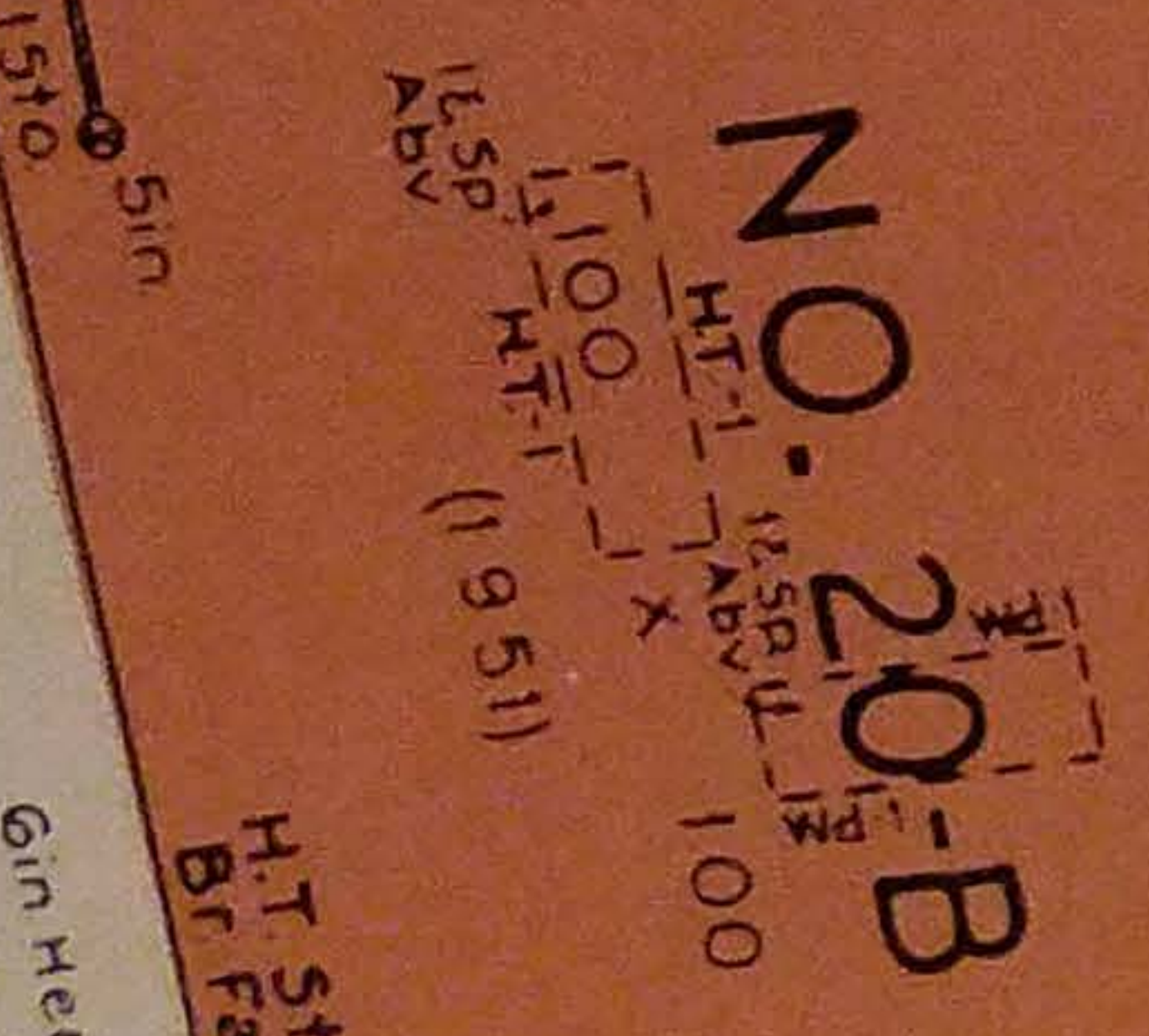
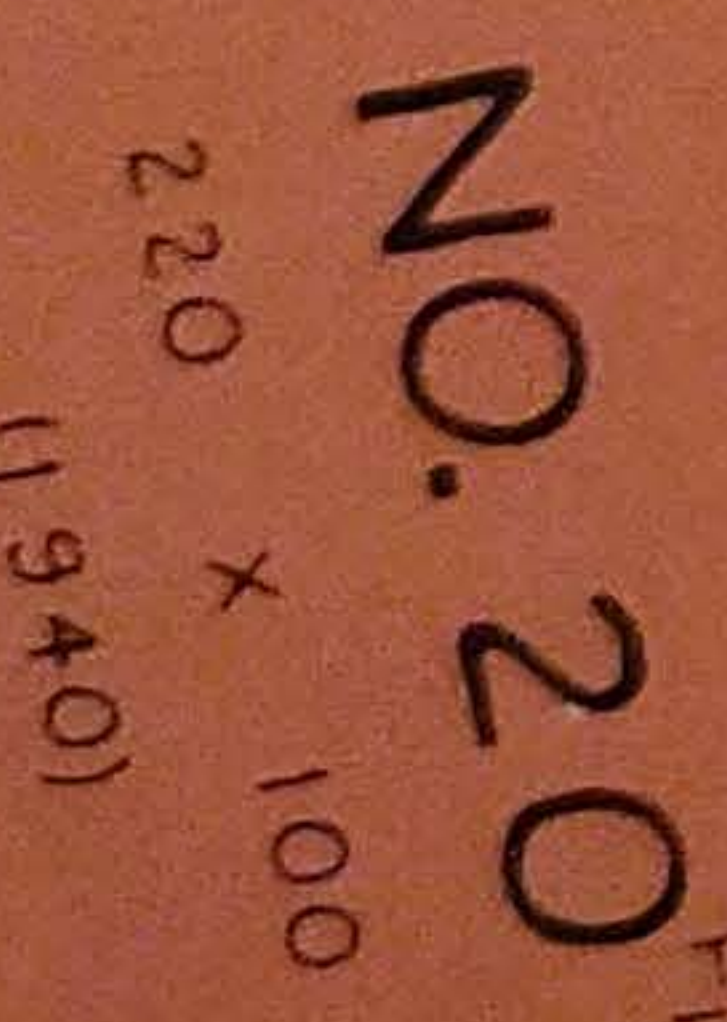
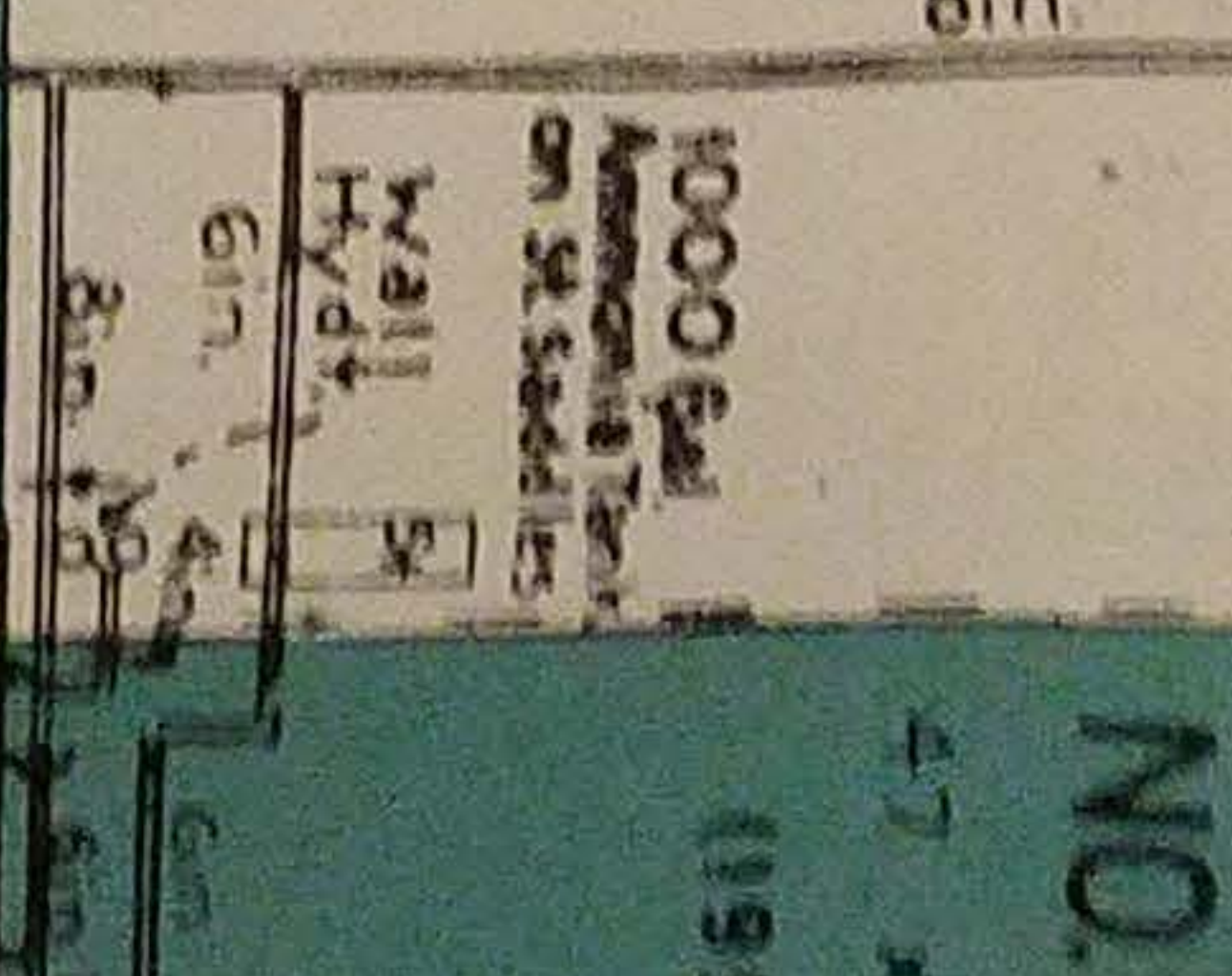
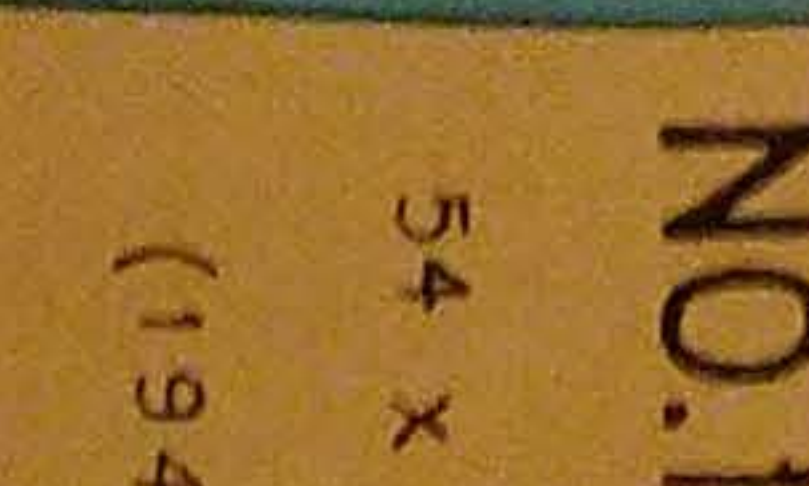
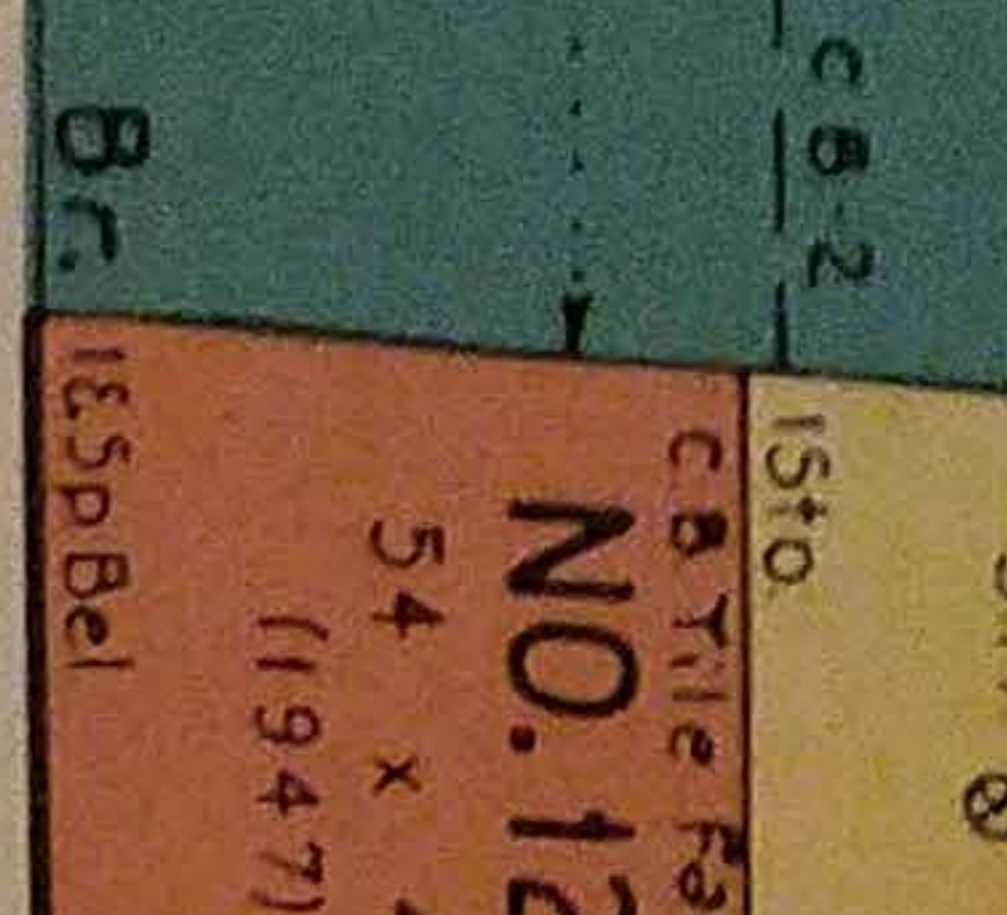
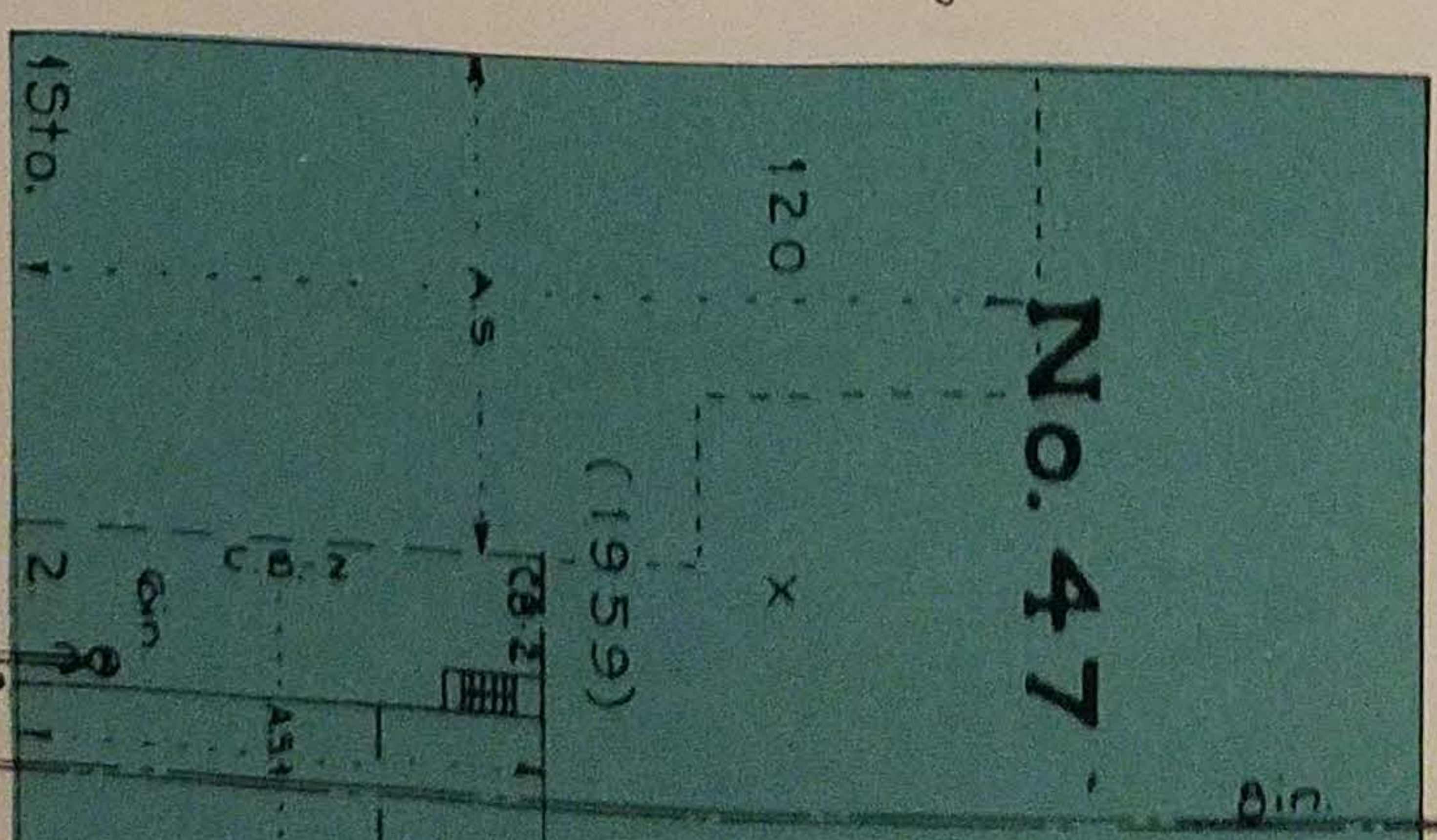
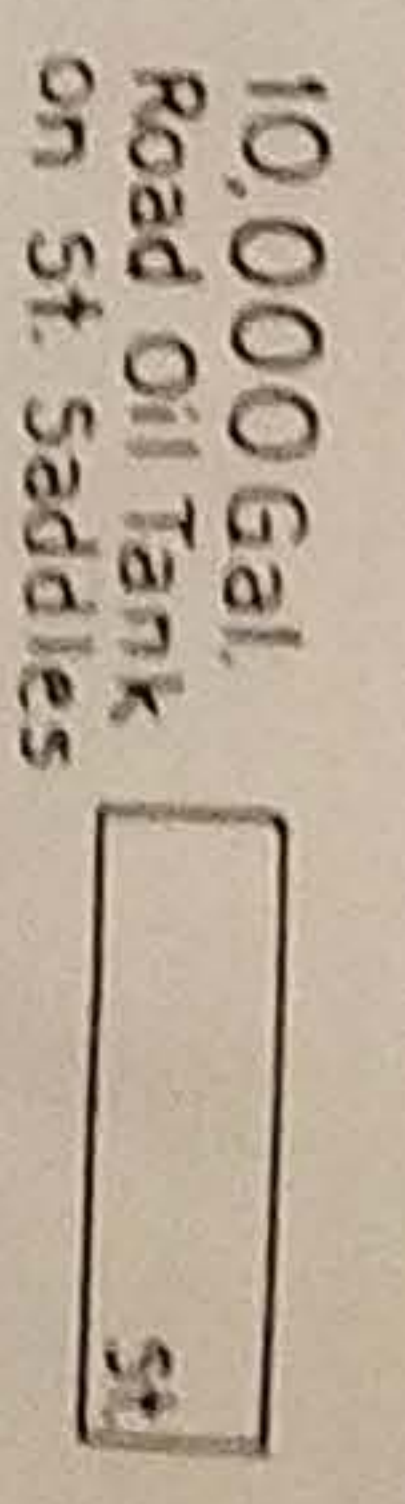
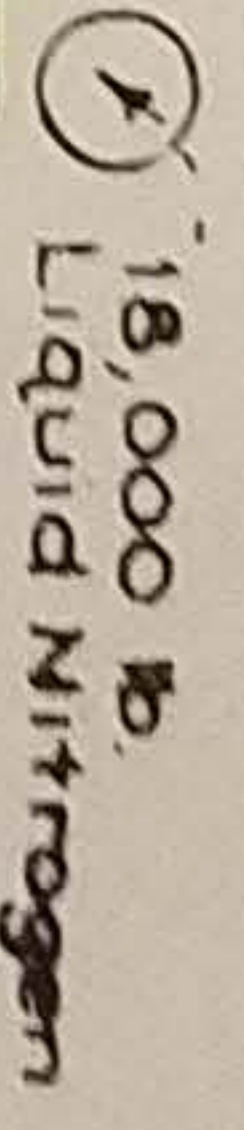
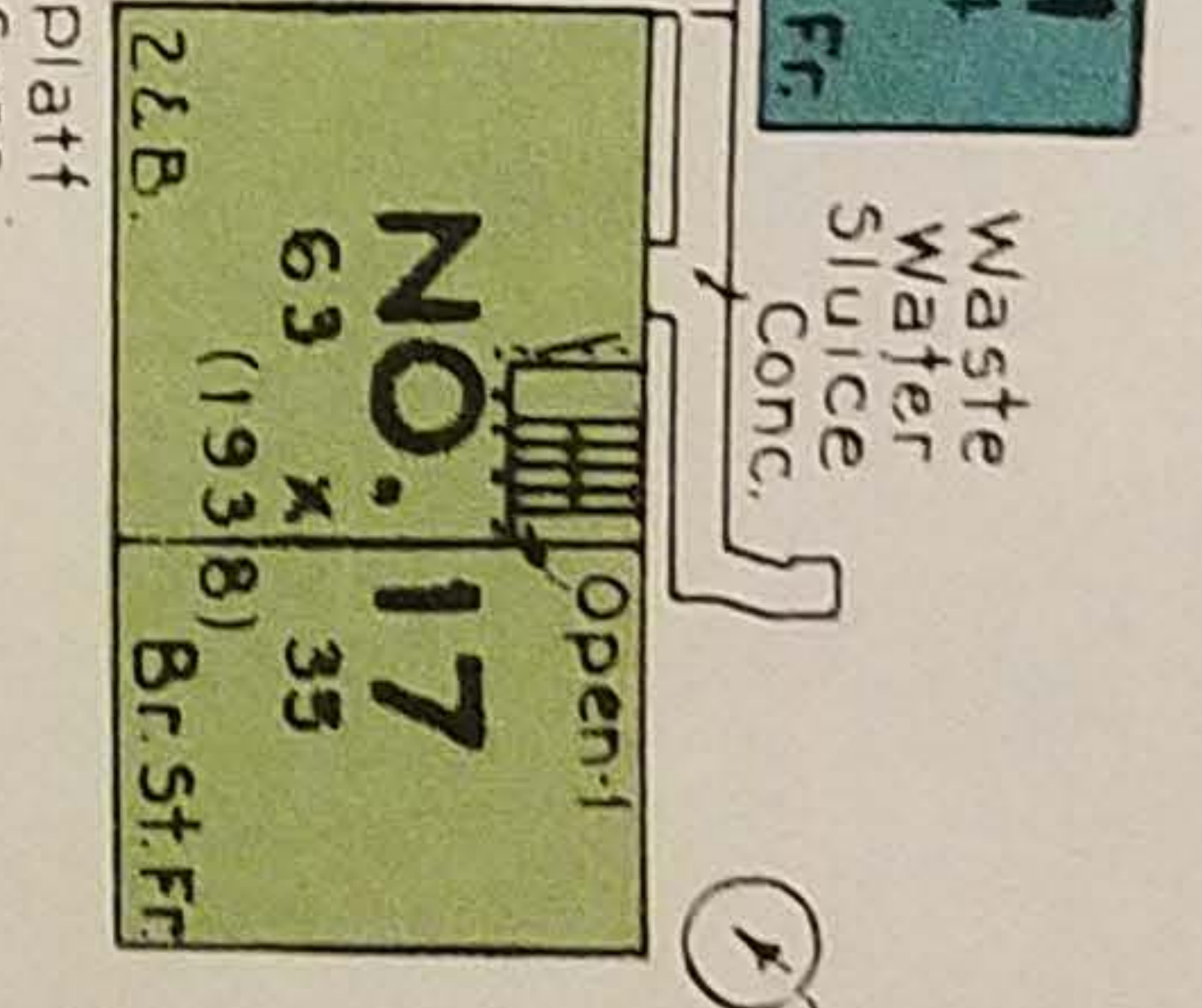
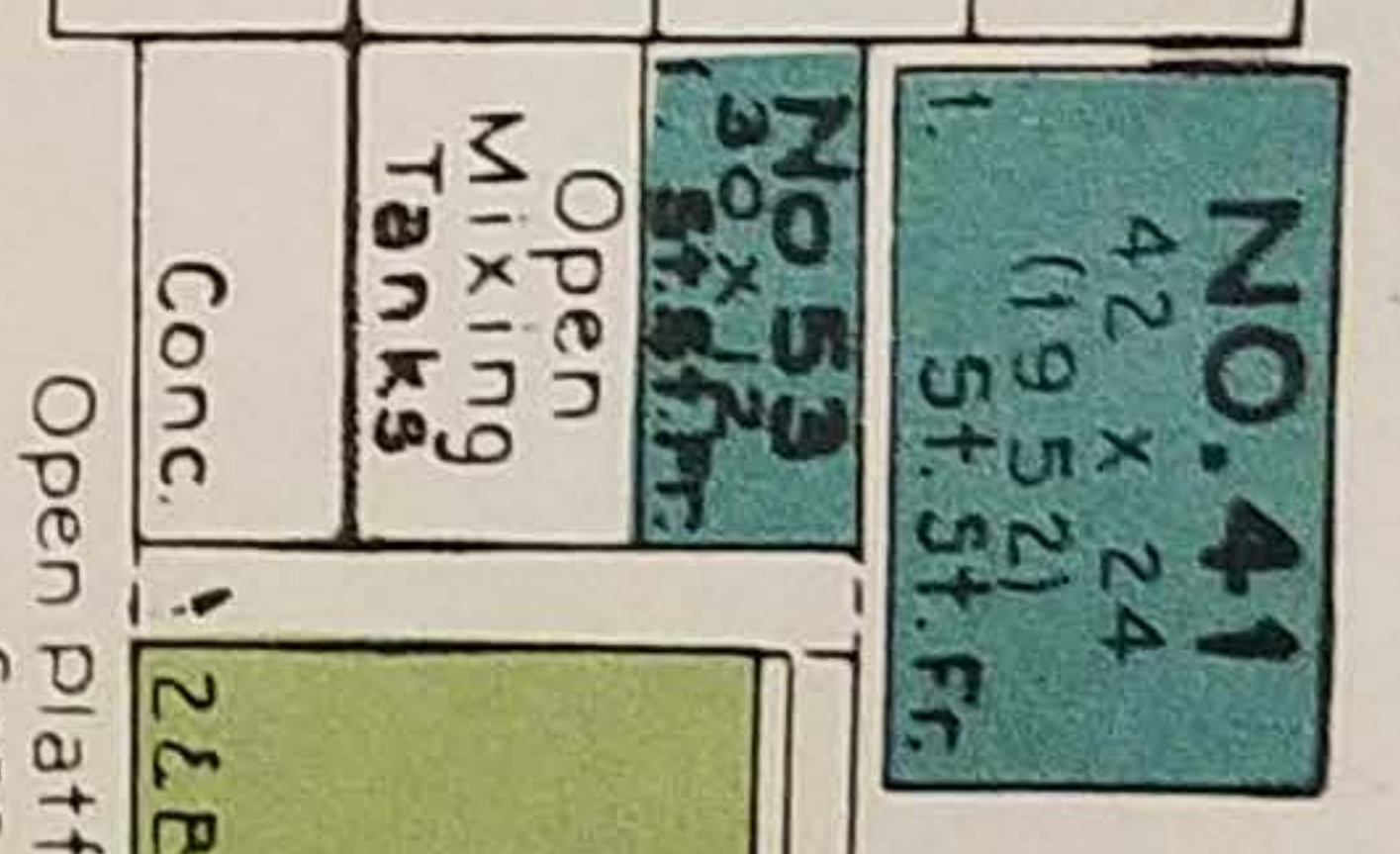
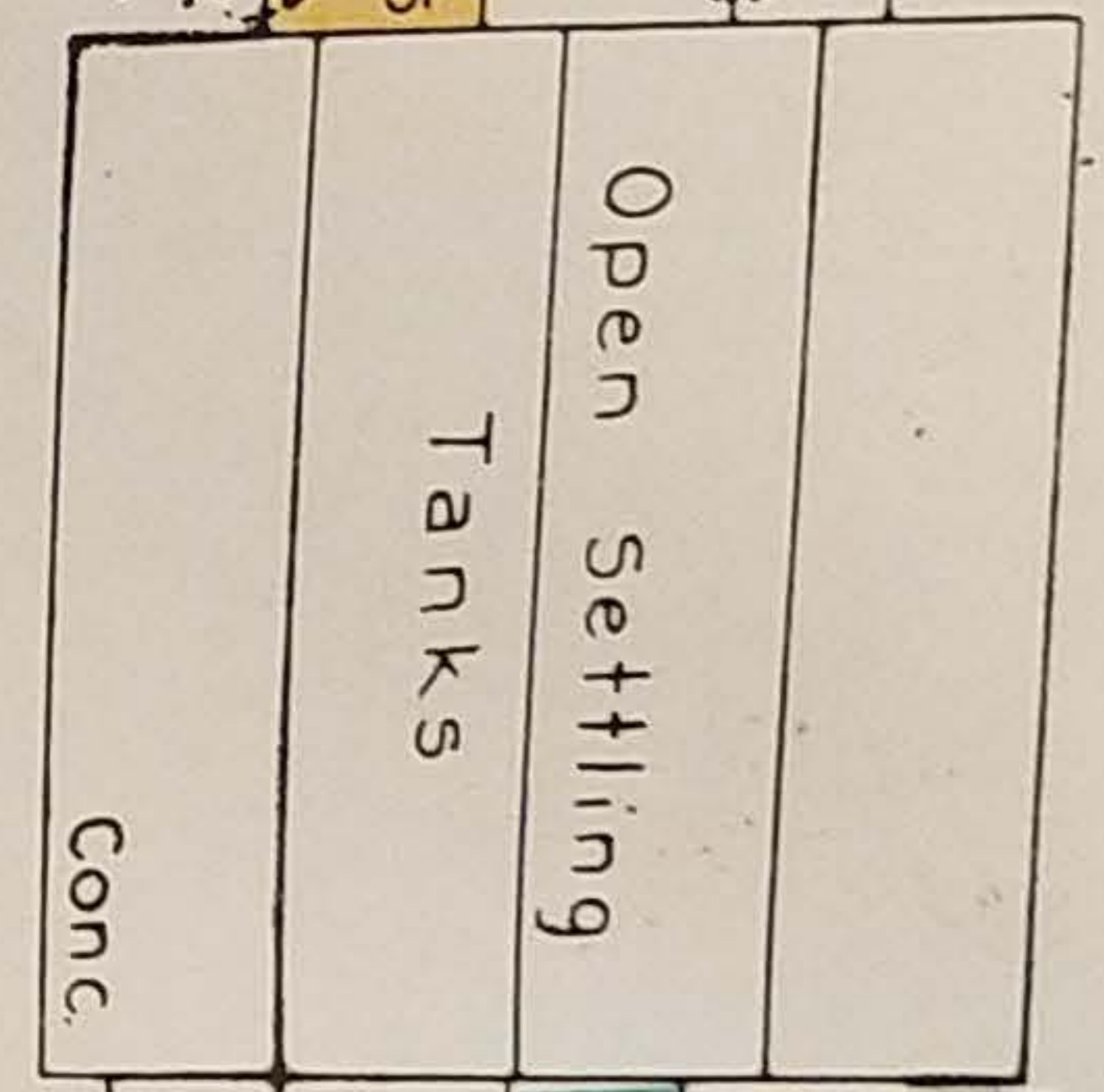
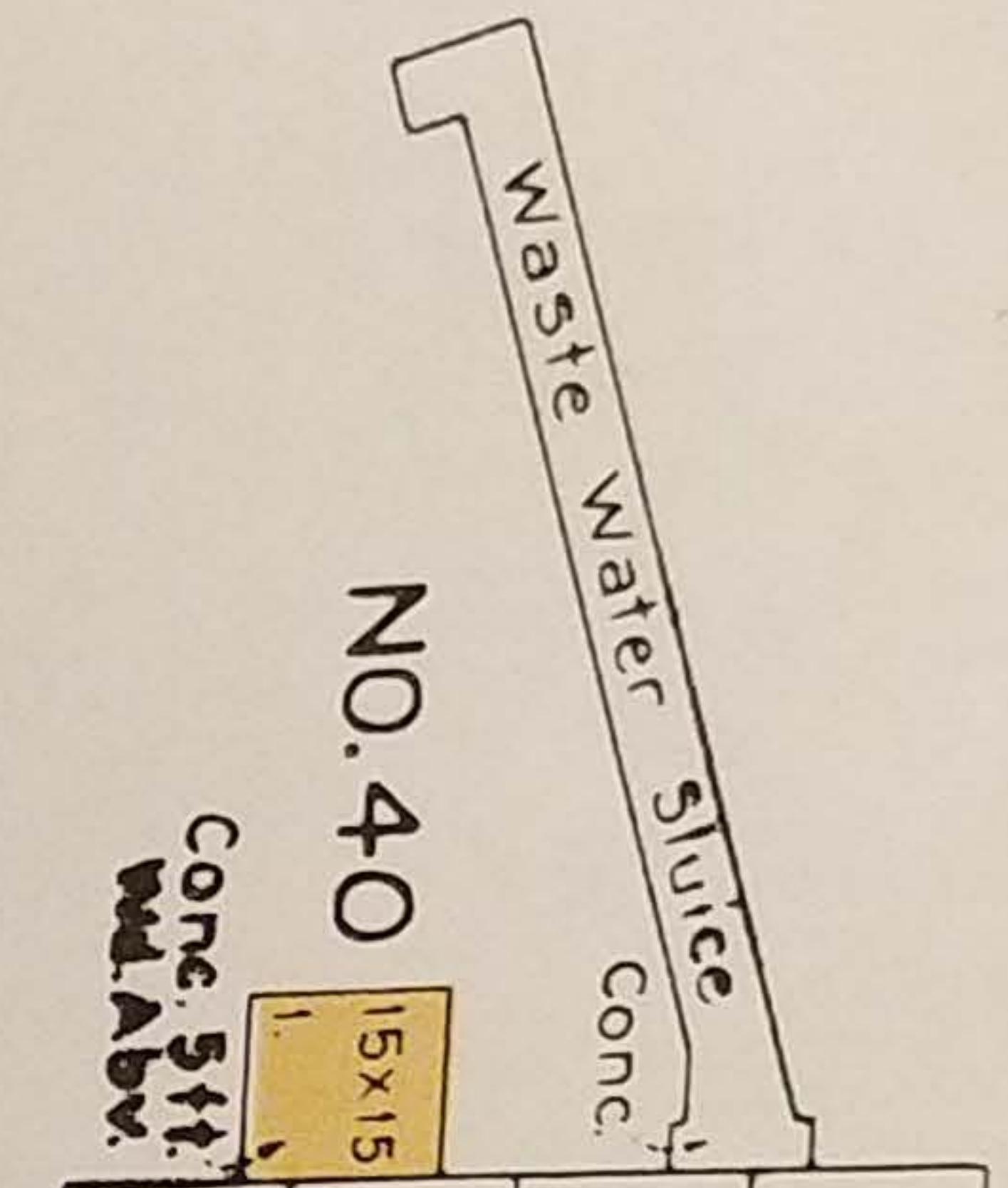
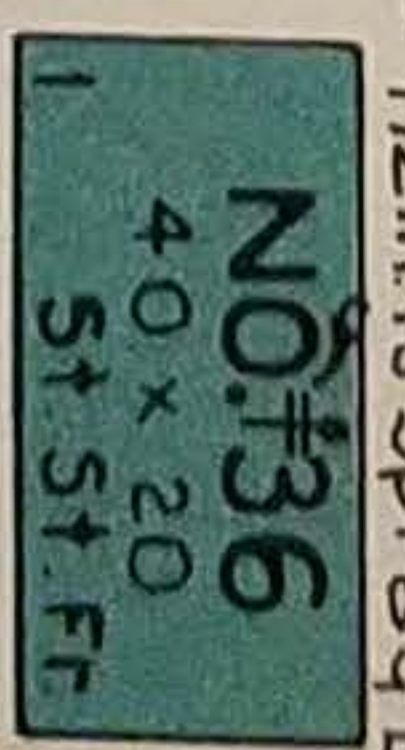
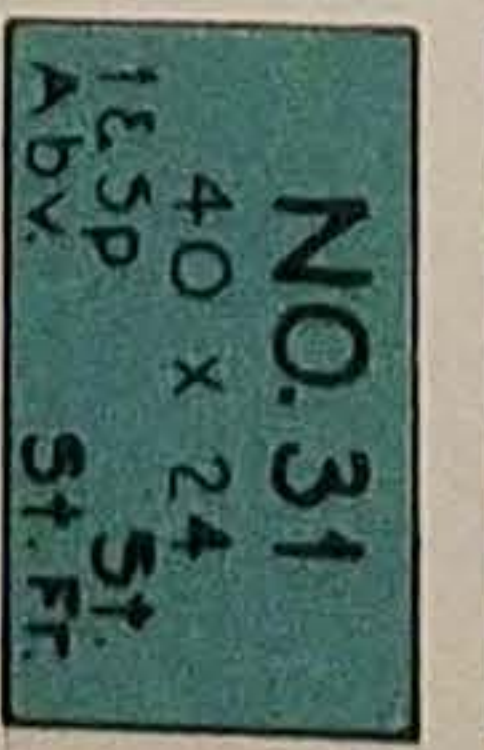
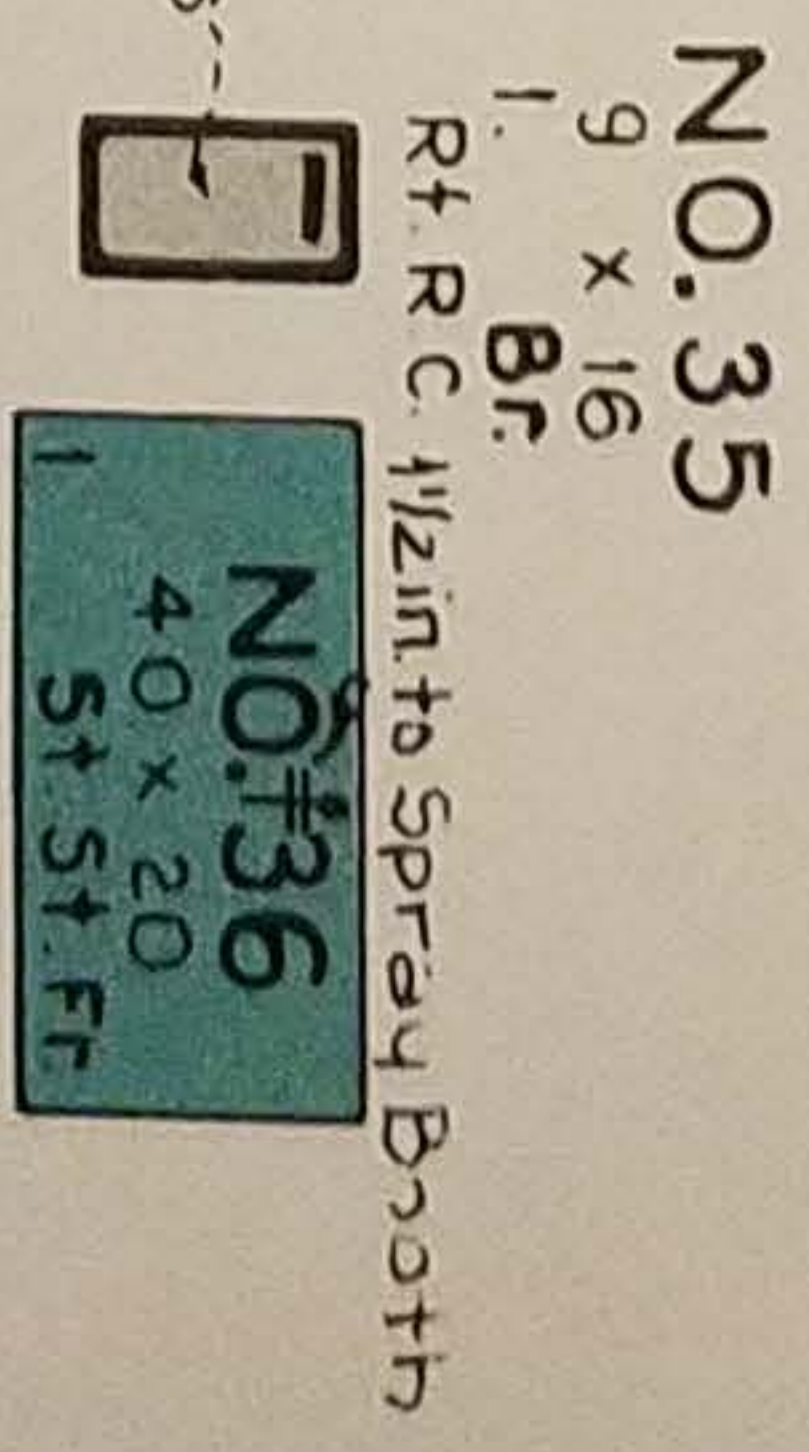
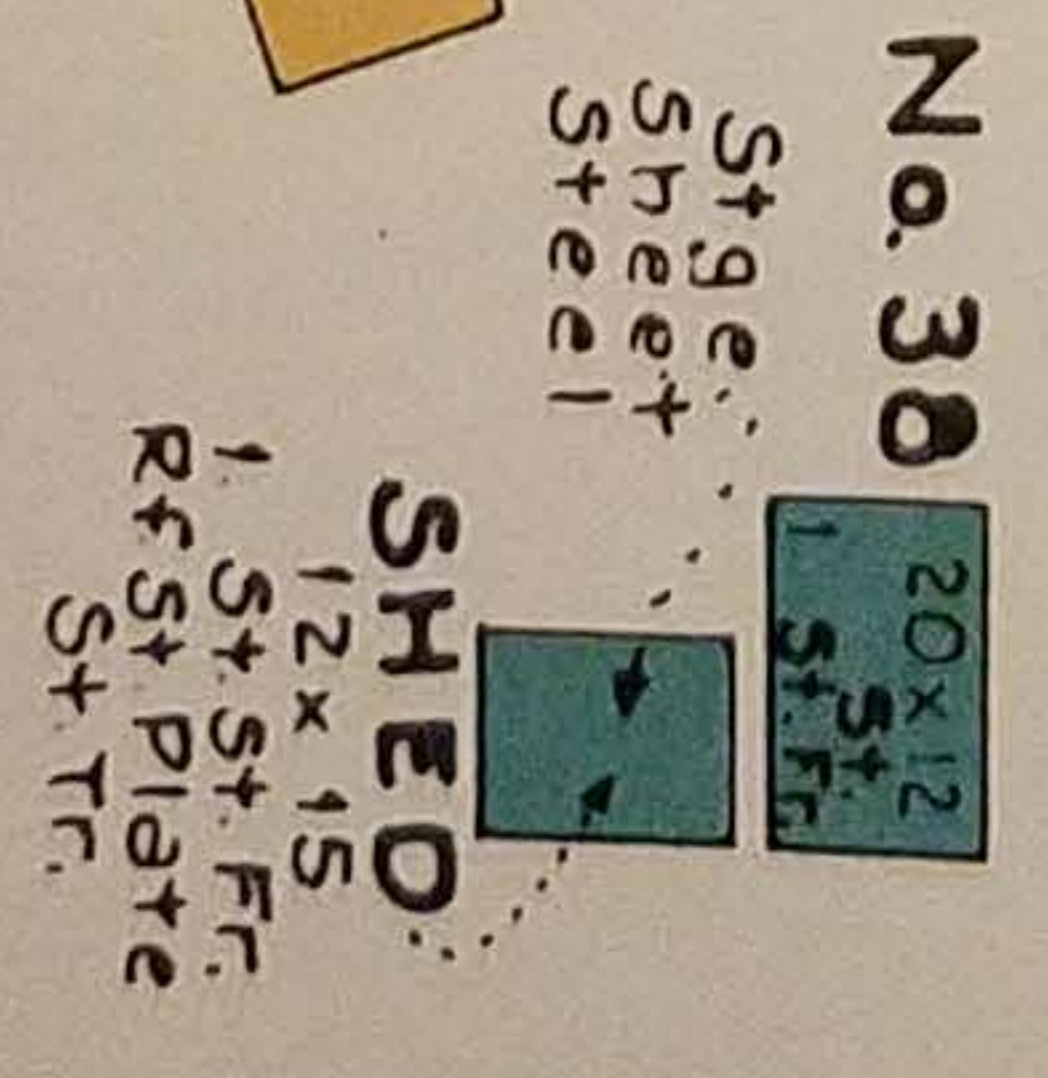
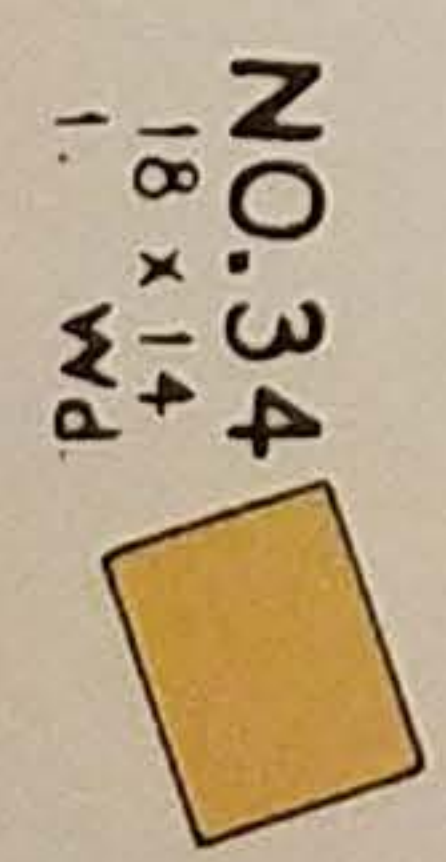
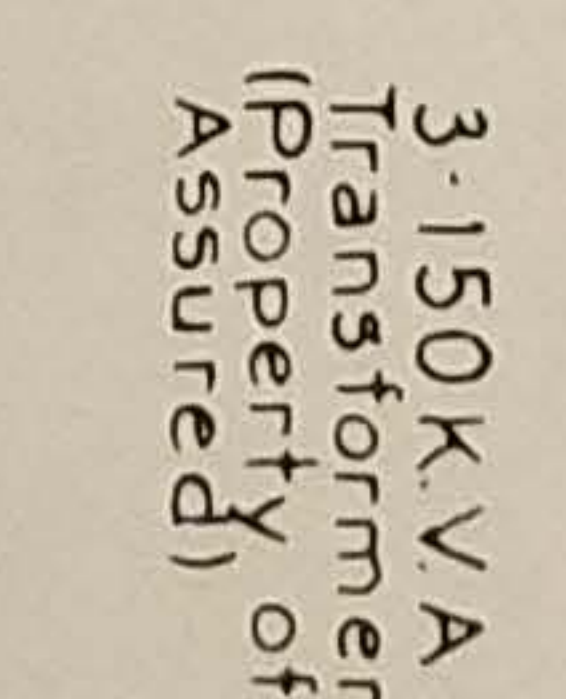
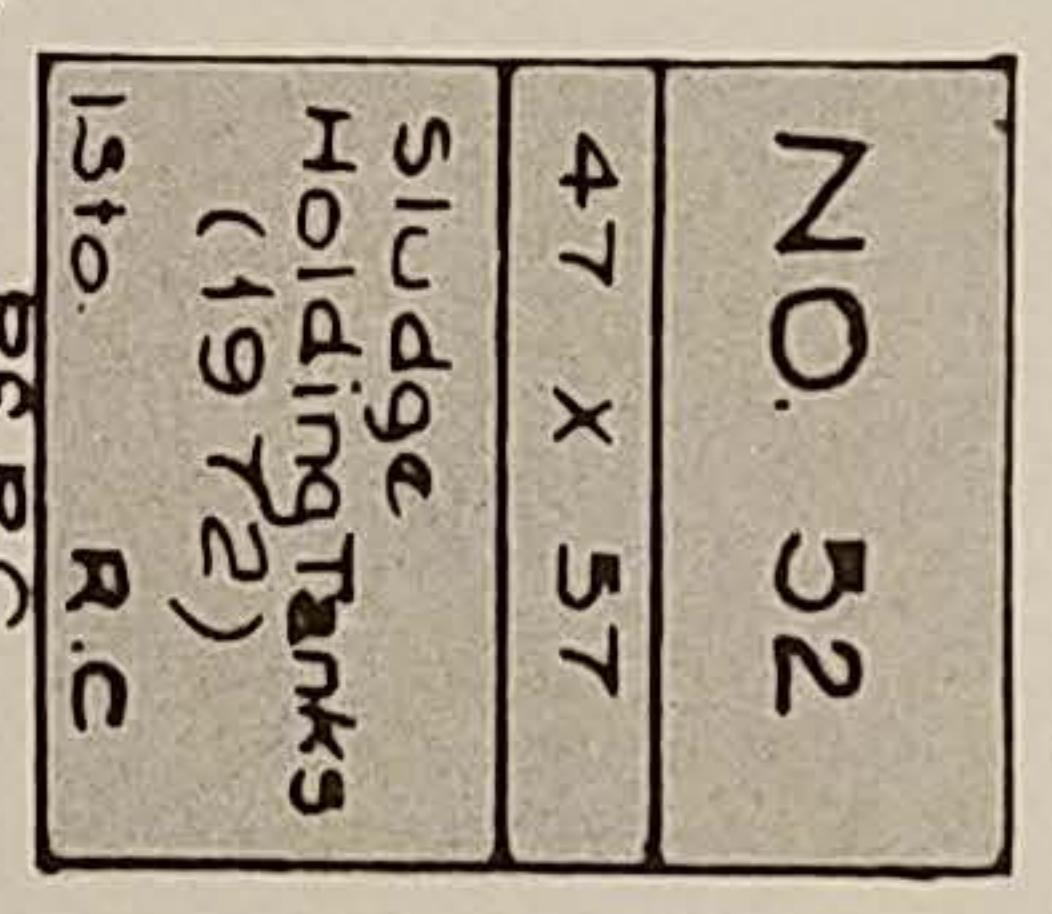
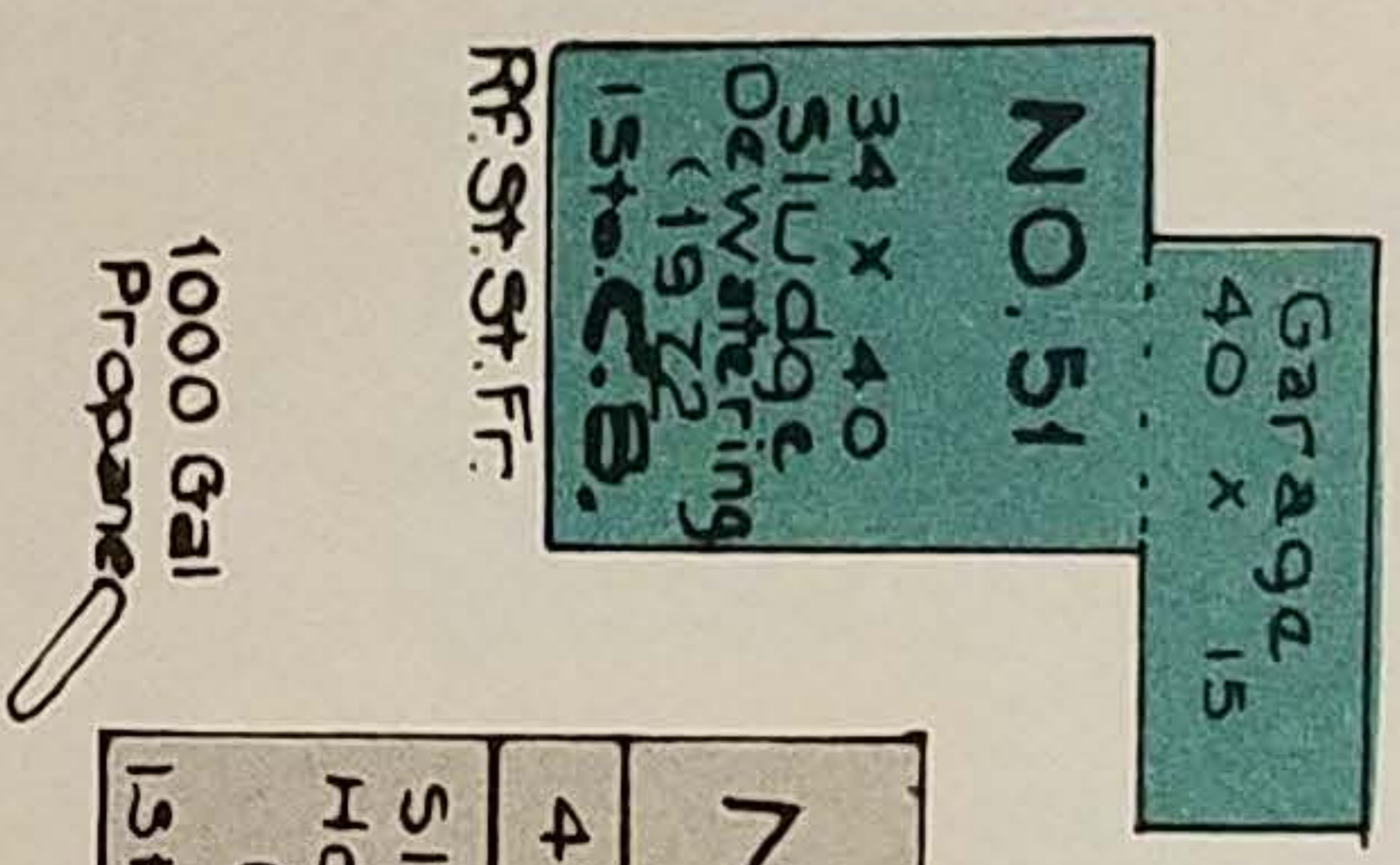
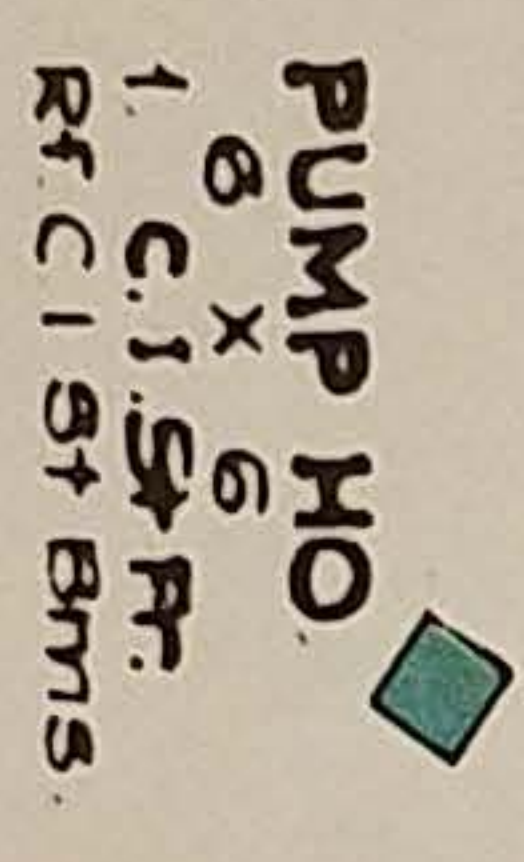
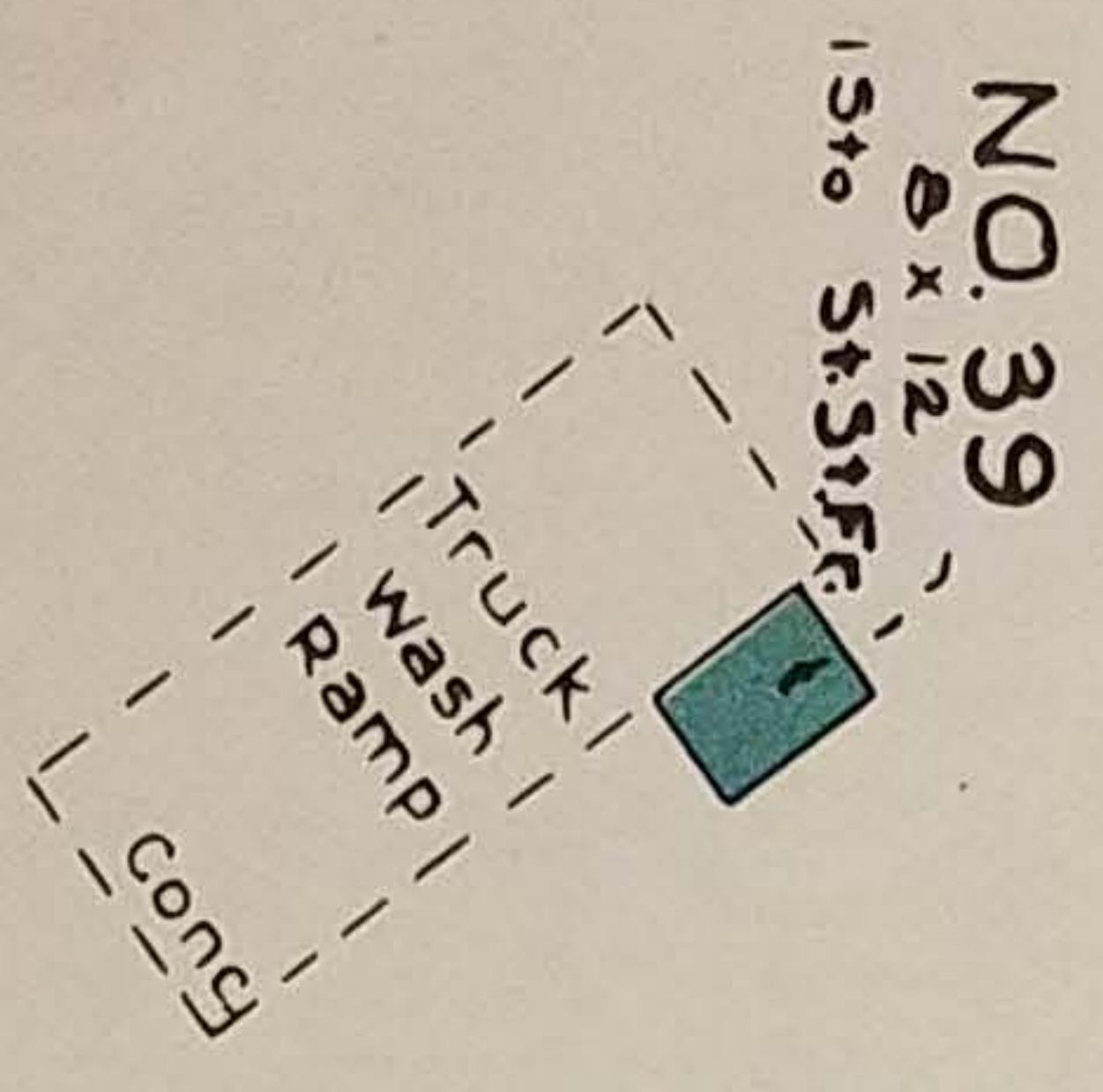
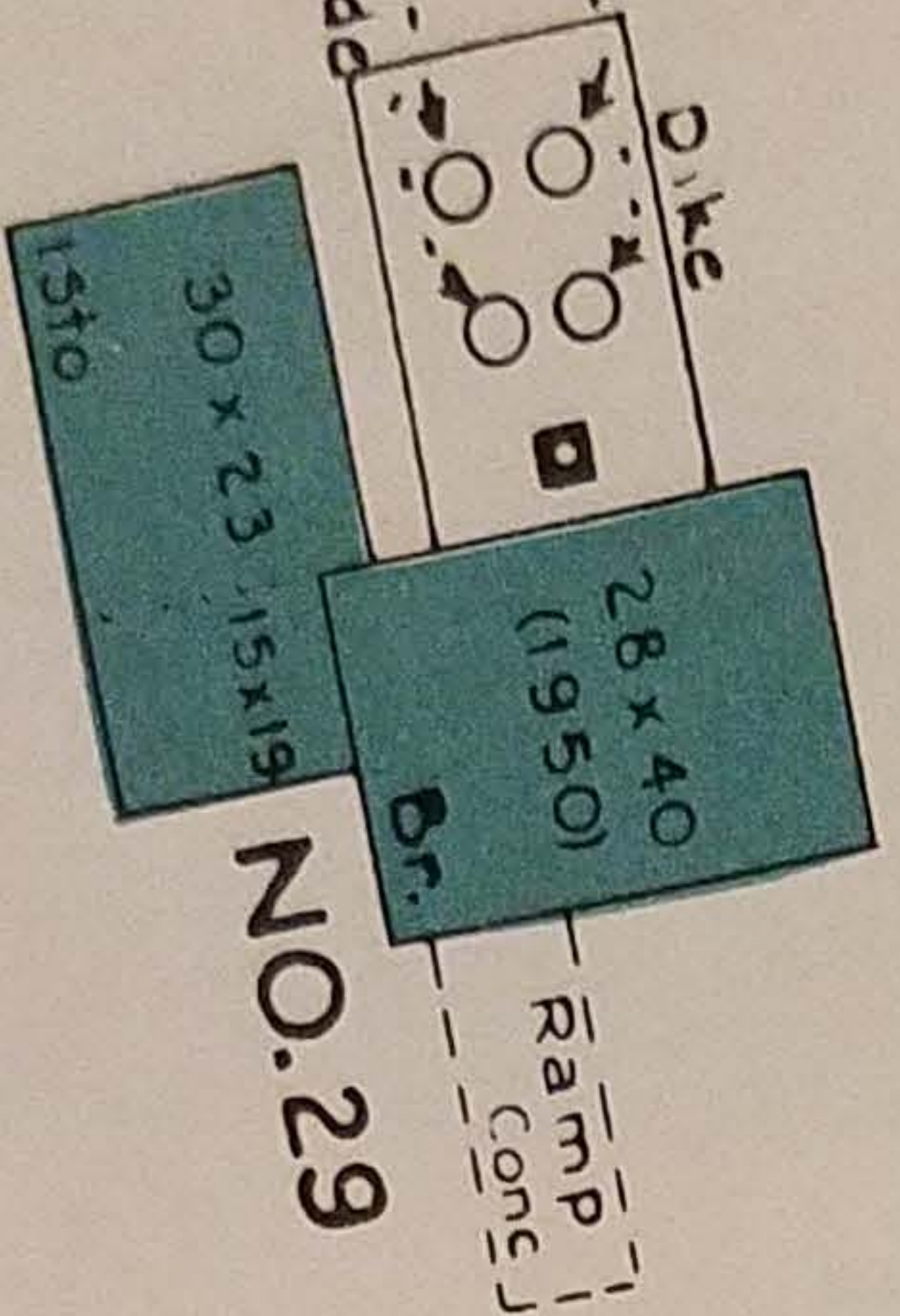
Guards Quarters  
 Stge. Guard's Clothing  
 RF 32





ides with similar  
des with similar line on Serial NO. 70314D

2-6300 Gal  
Isopropanol  
2-6300 Gal  
Ethylene Dichloride



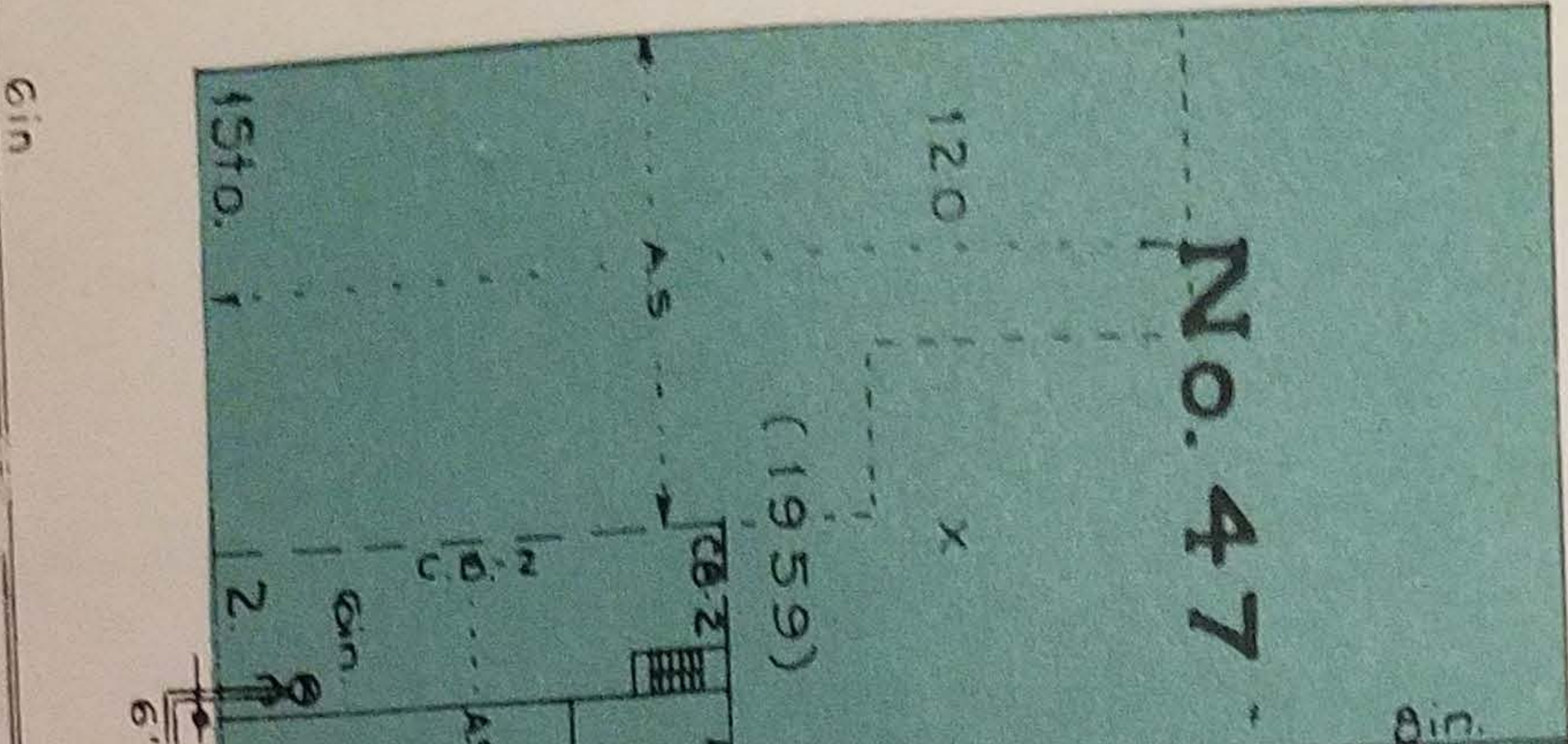
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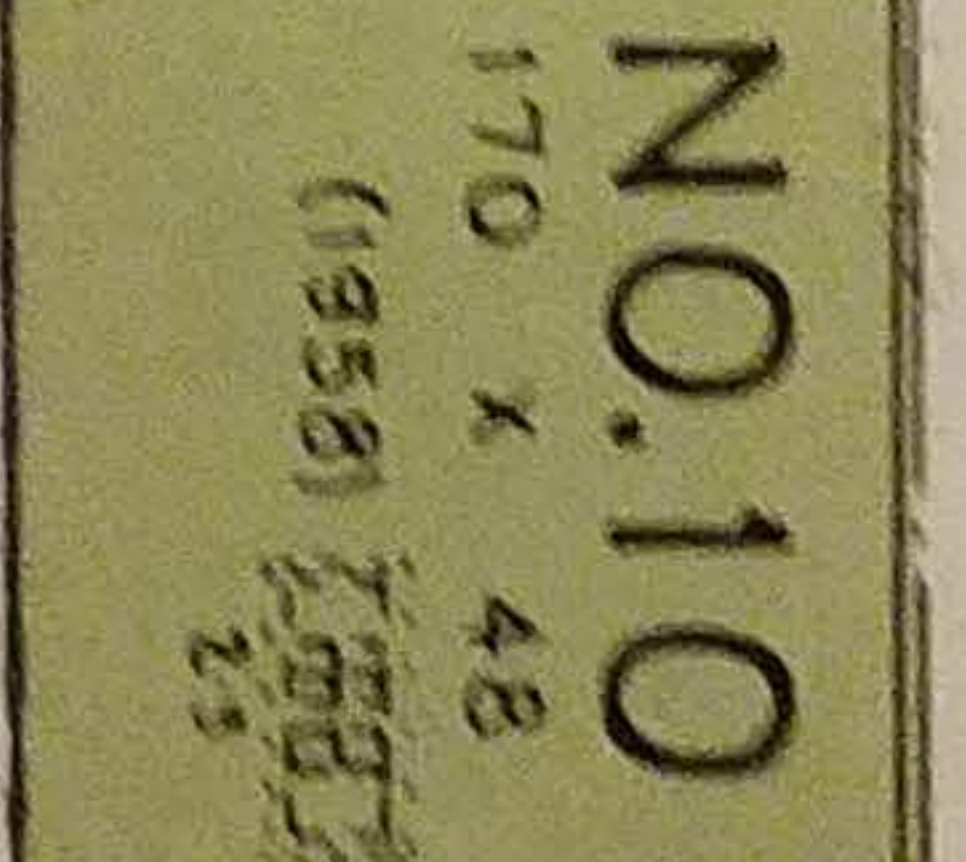
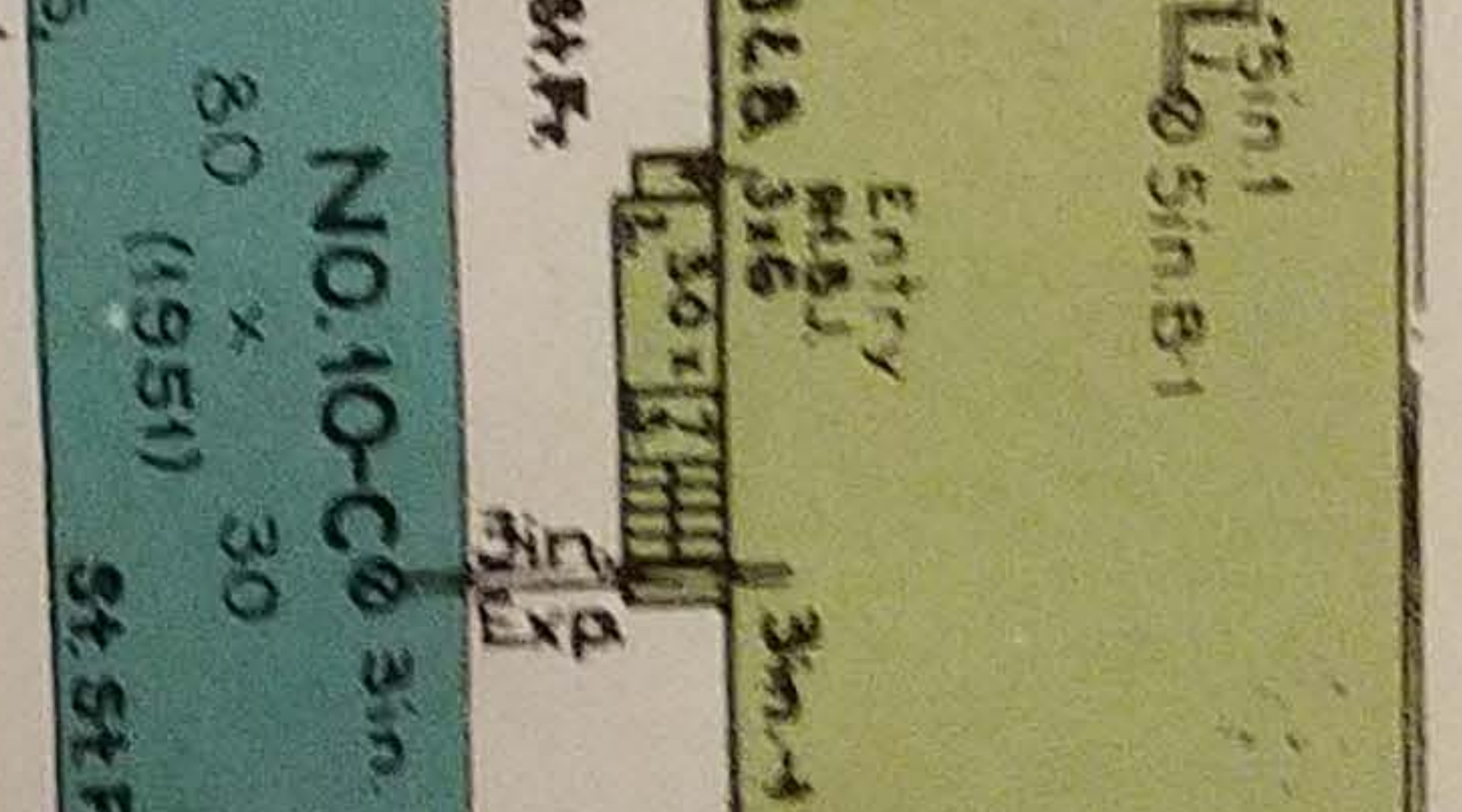
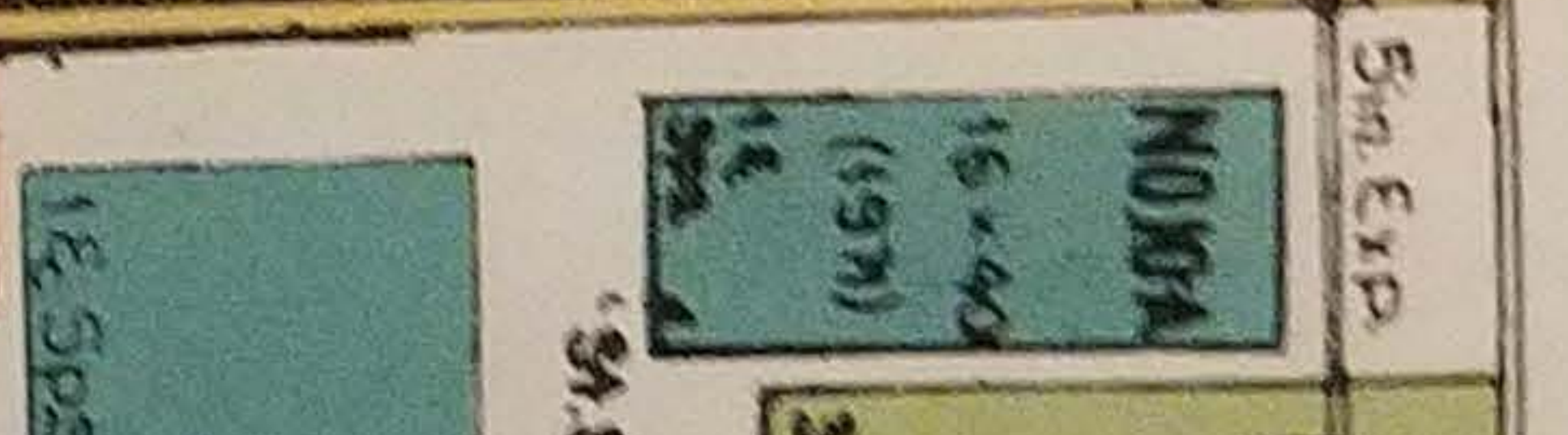
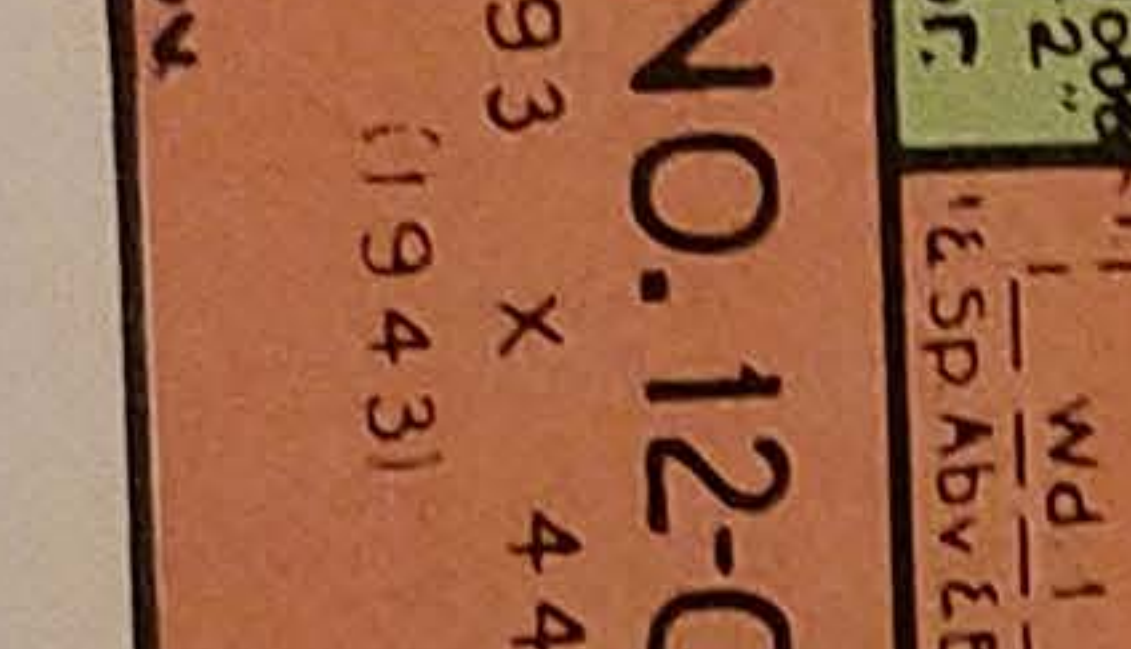
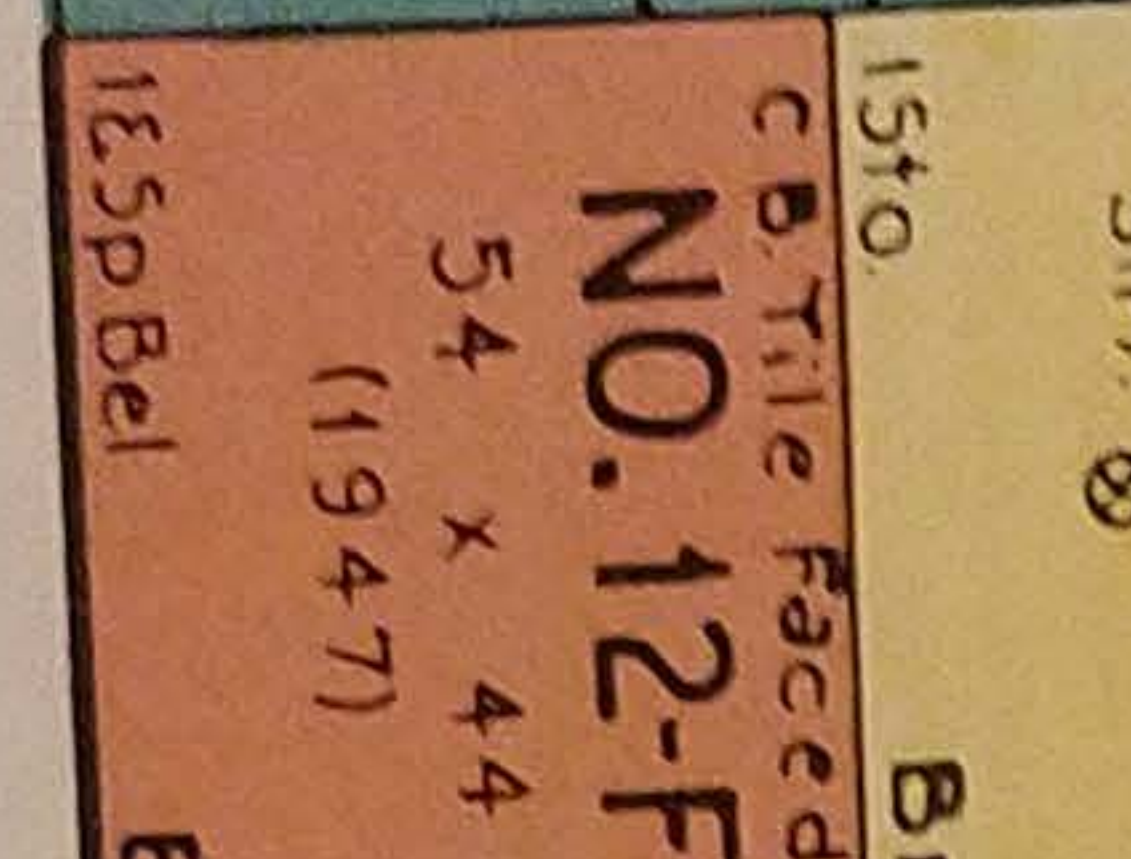
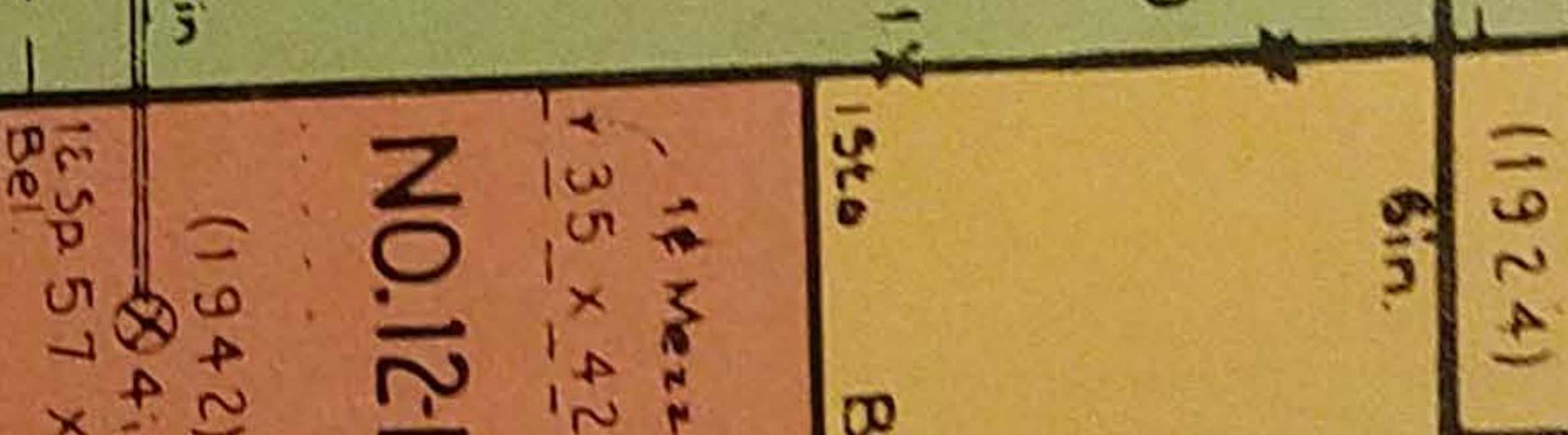
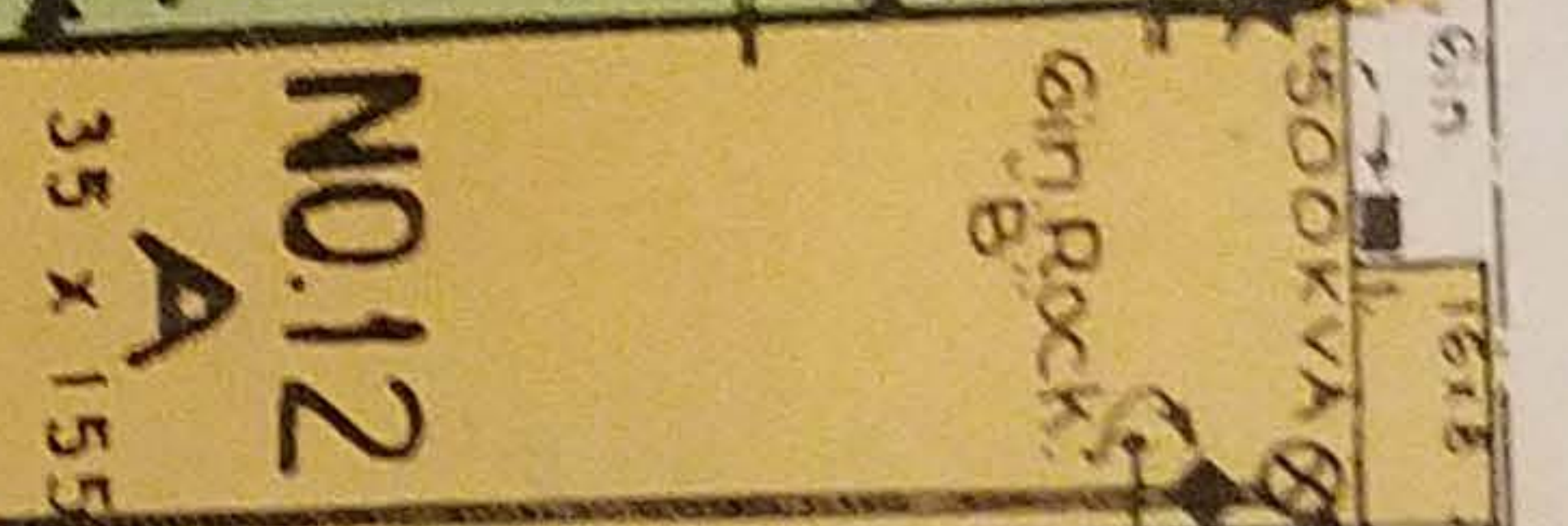
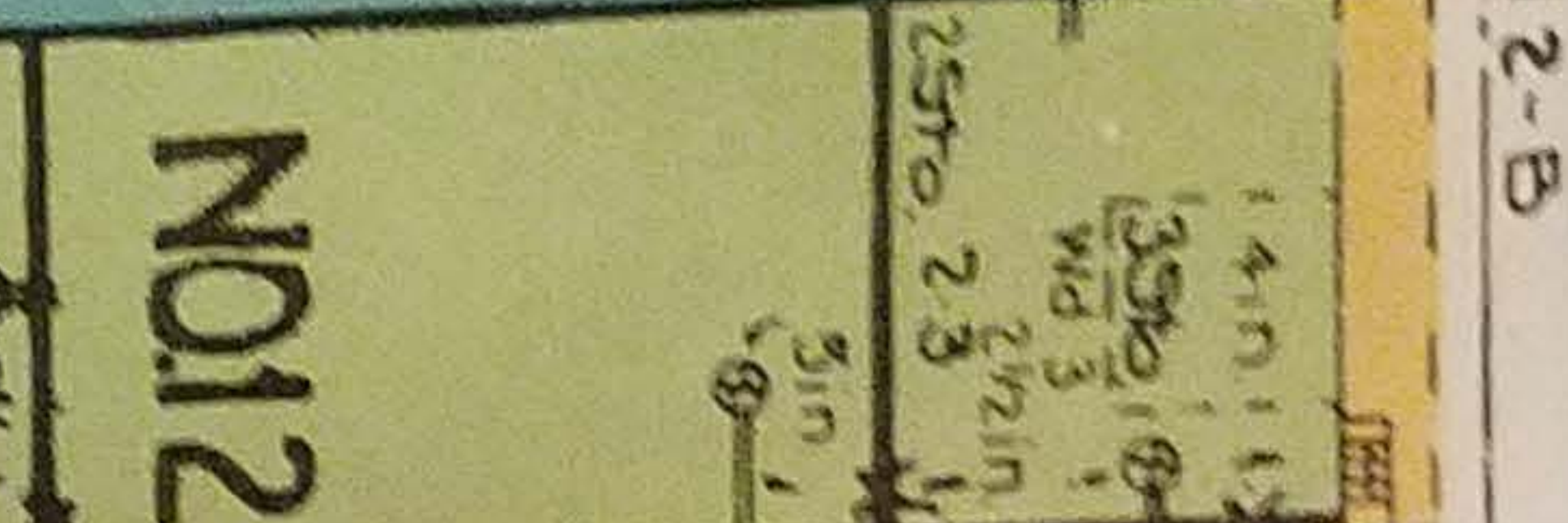
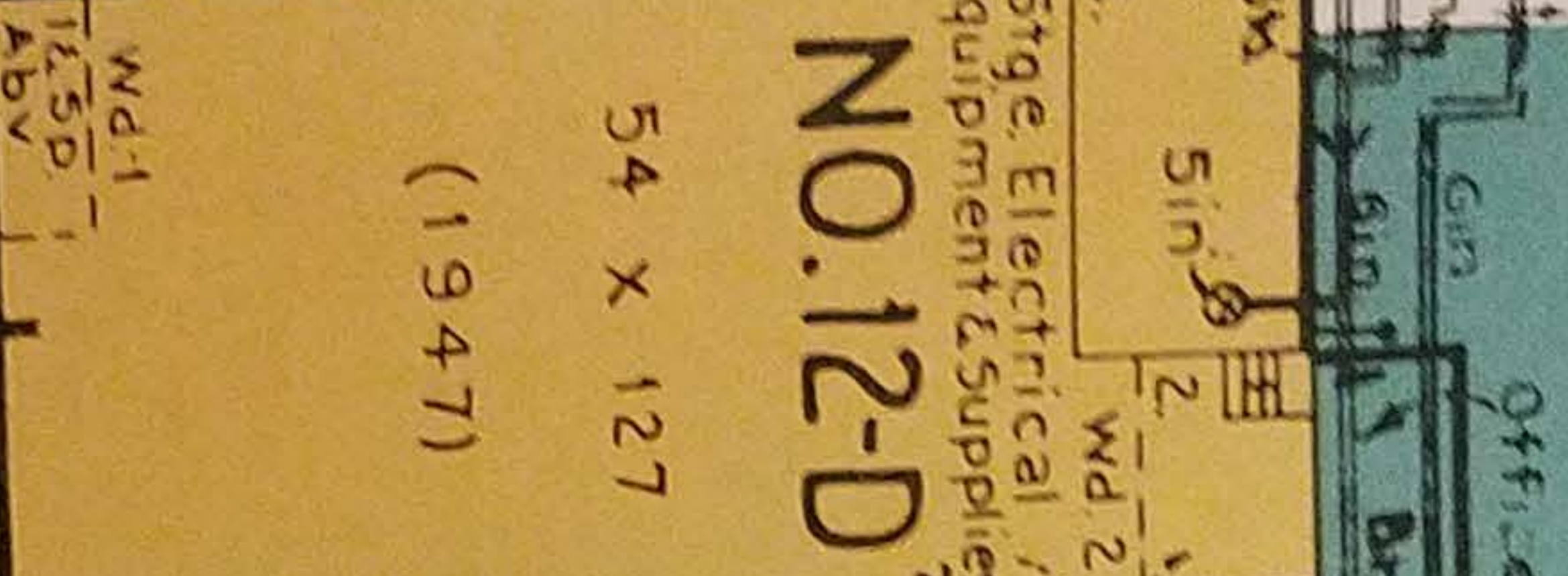
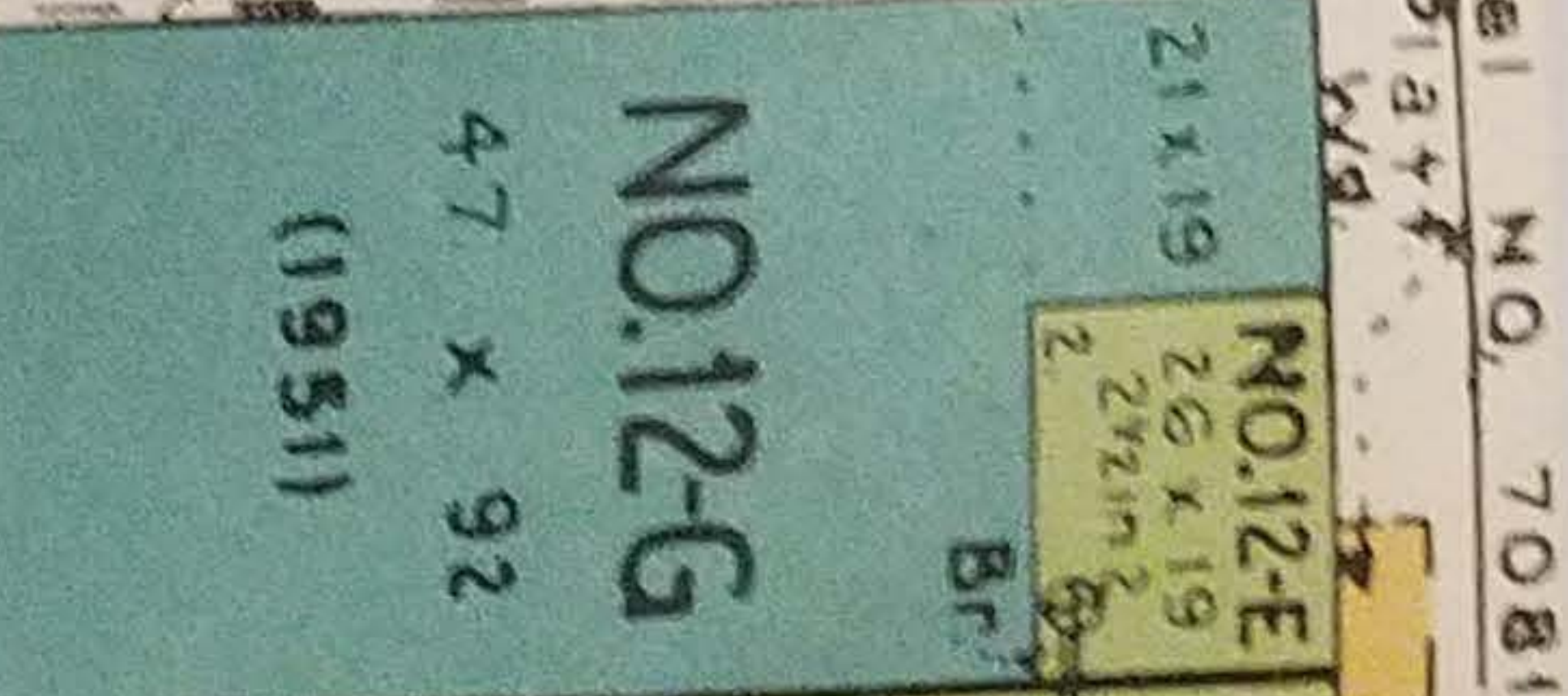
Line Coincides with Similar Line on Serial NO. 70812-B

10,000 Gal. Road Oil Tank on St. Saddles

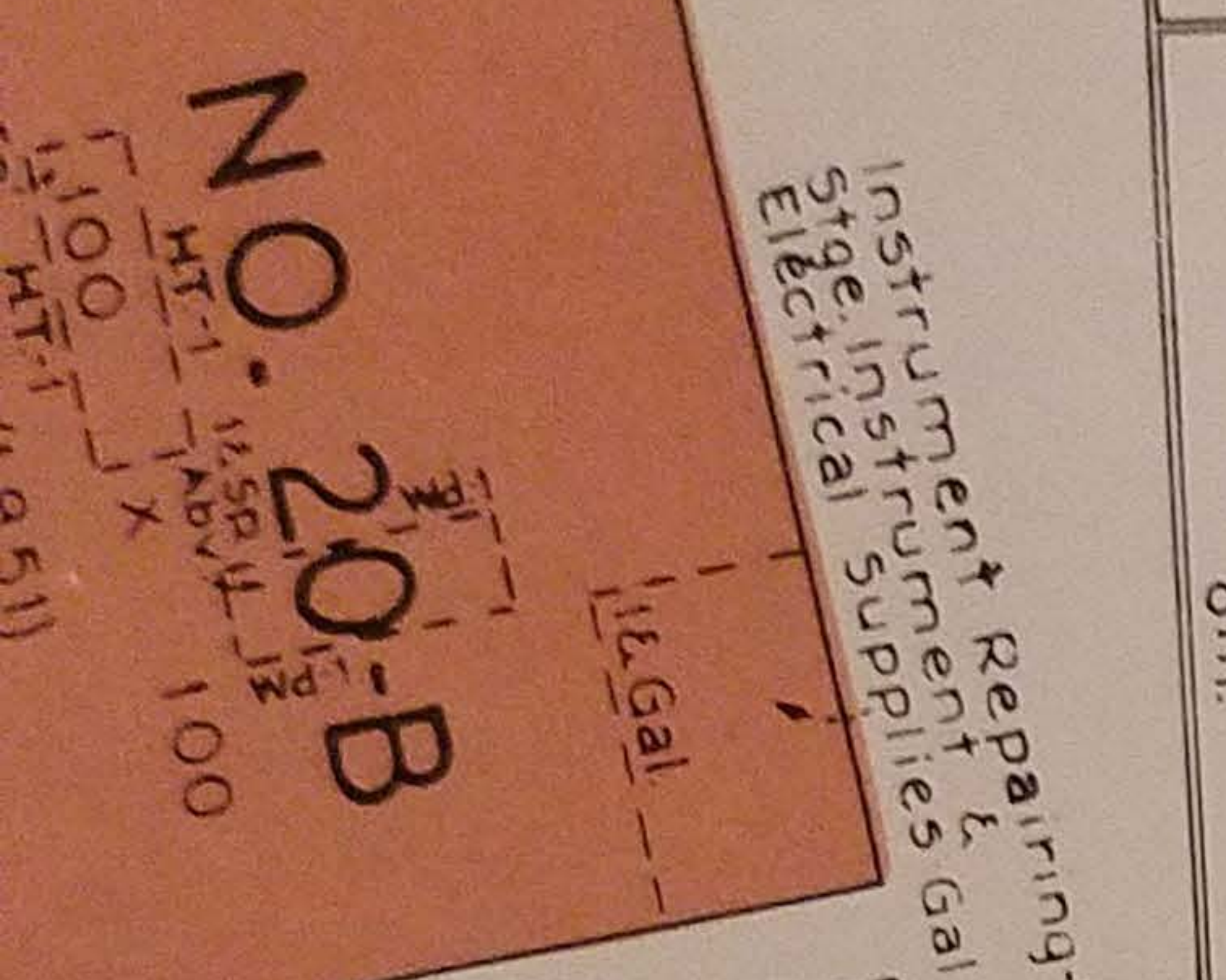
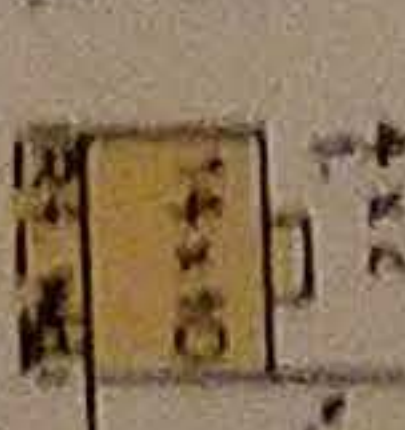
SHED 12x15 1 St 15 Fr. 1 St Plate St Tr.



1000 Gal. Ammonia Tank on St. Saddles



NO. 32 15 St Adv. L. Bel. Wd.



des with Similar Line on Serial No 70316-B  
AN SEE SERIAL NOS 70311A Thru 70316B





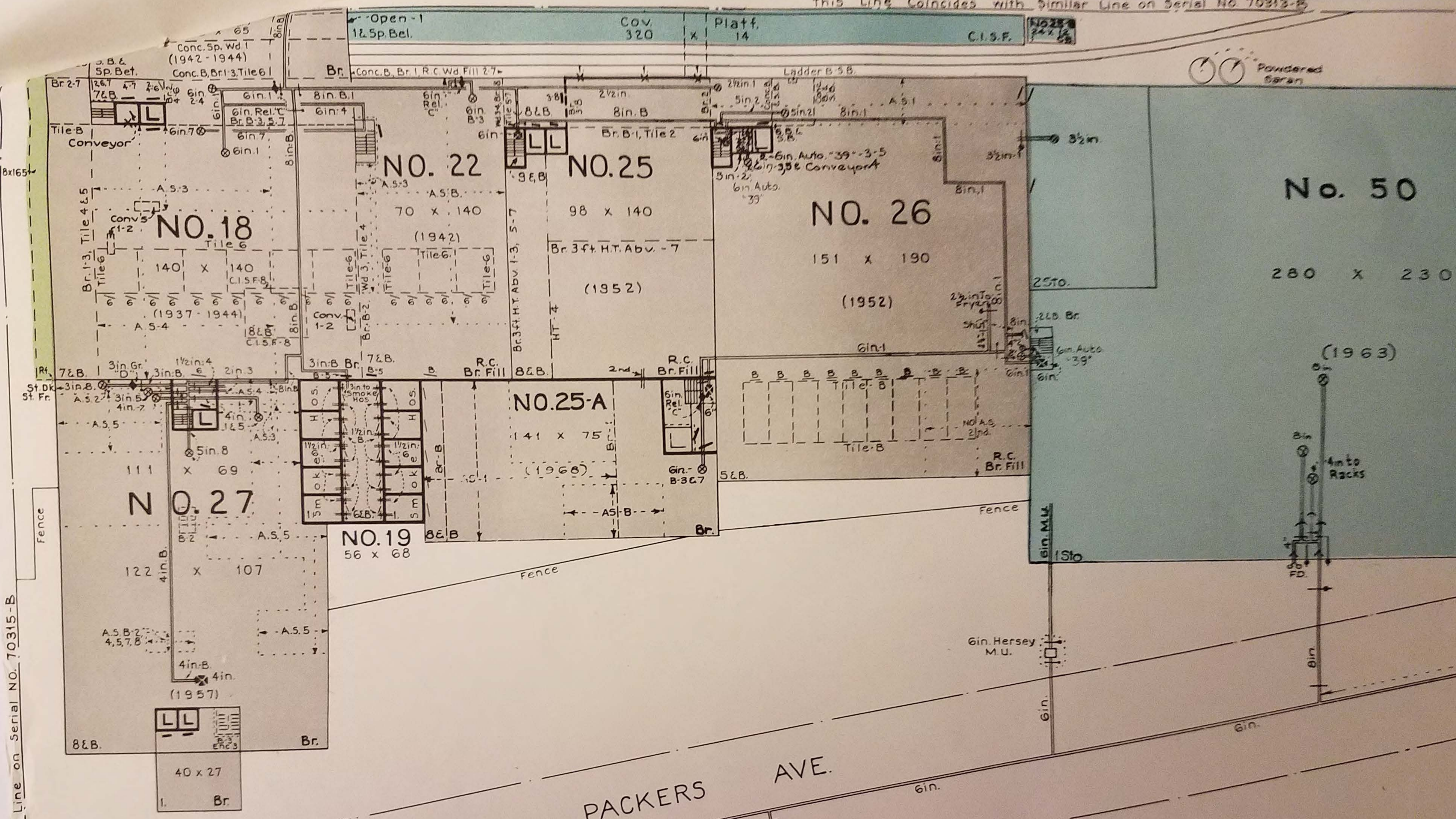






This Line Coincides with Similar Line on Serial NO 70315-B

This Line Coincides with Similar Line on Serial NO. 70315-B

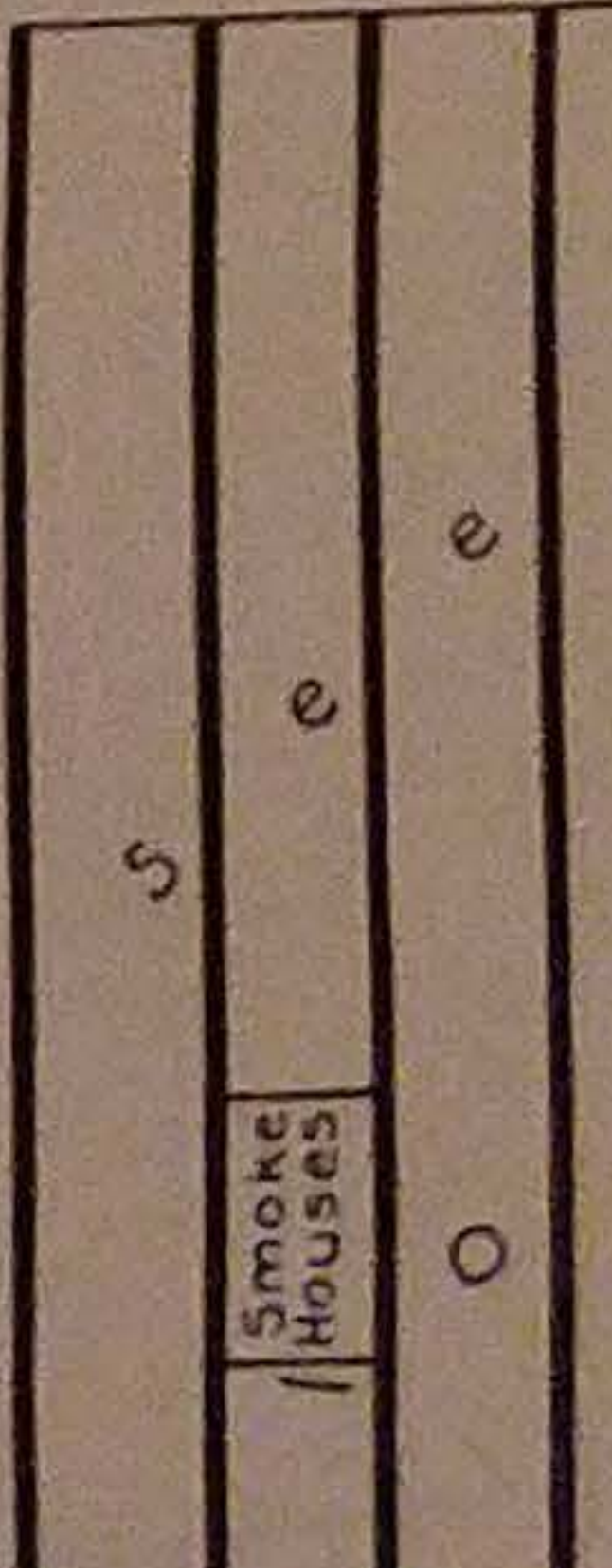
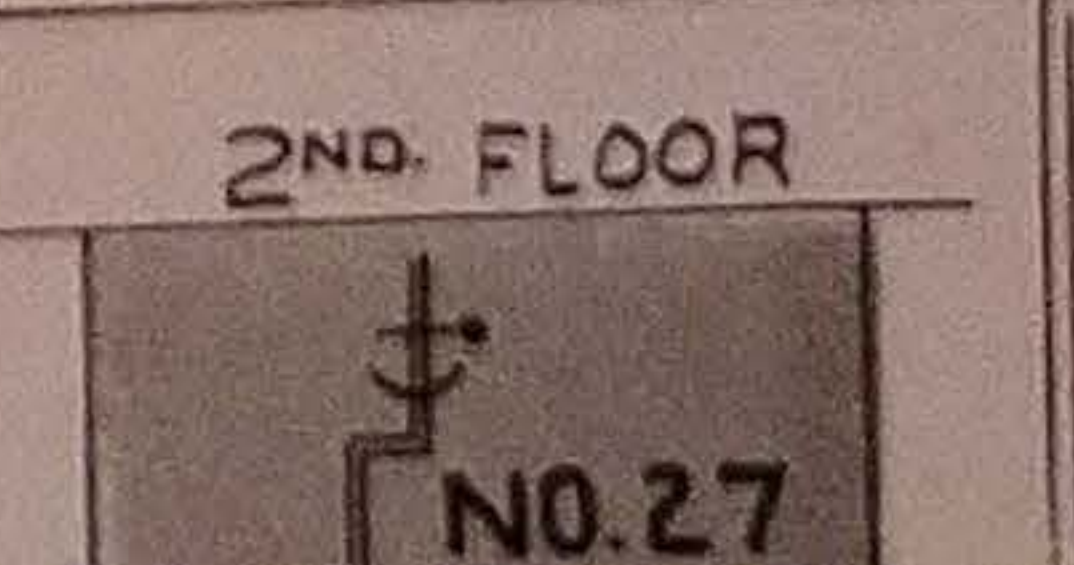
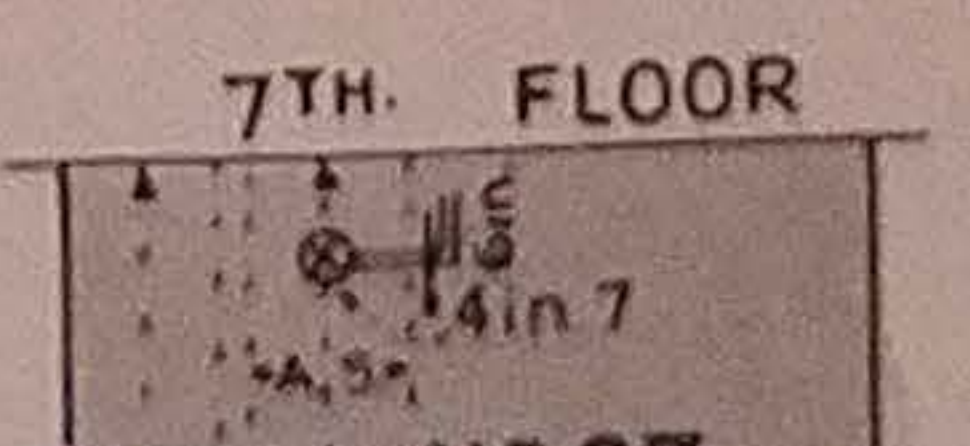
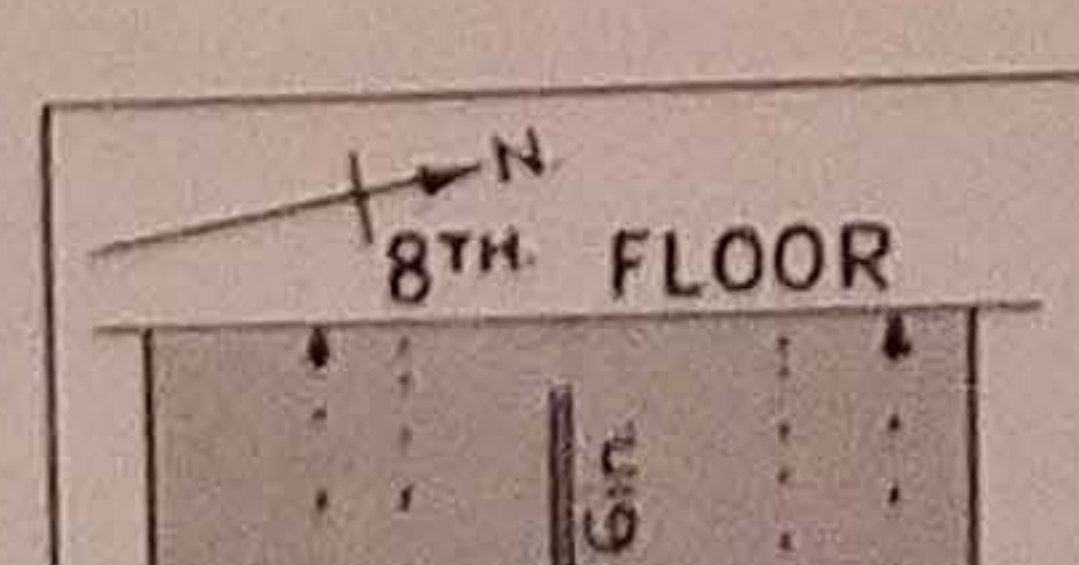


PACKERS AVE.

ROTH ST.

ST.

Meat Packers Union Local









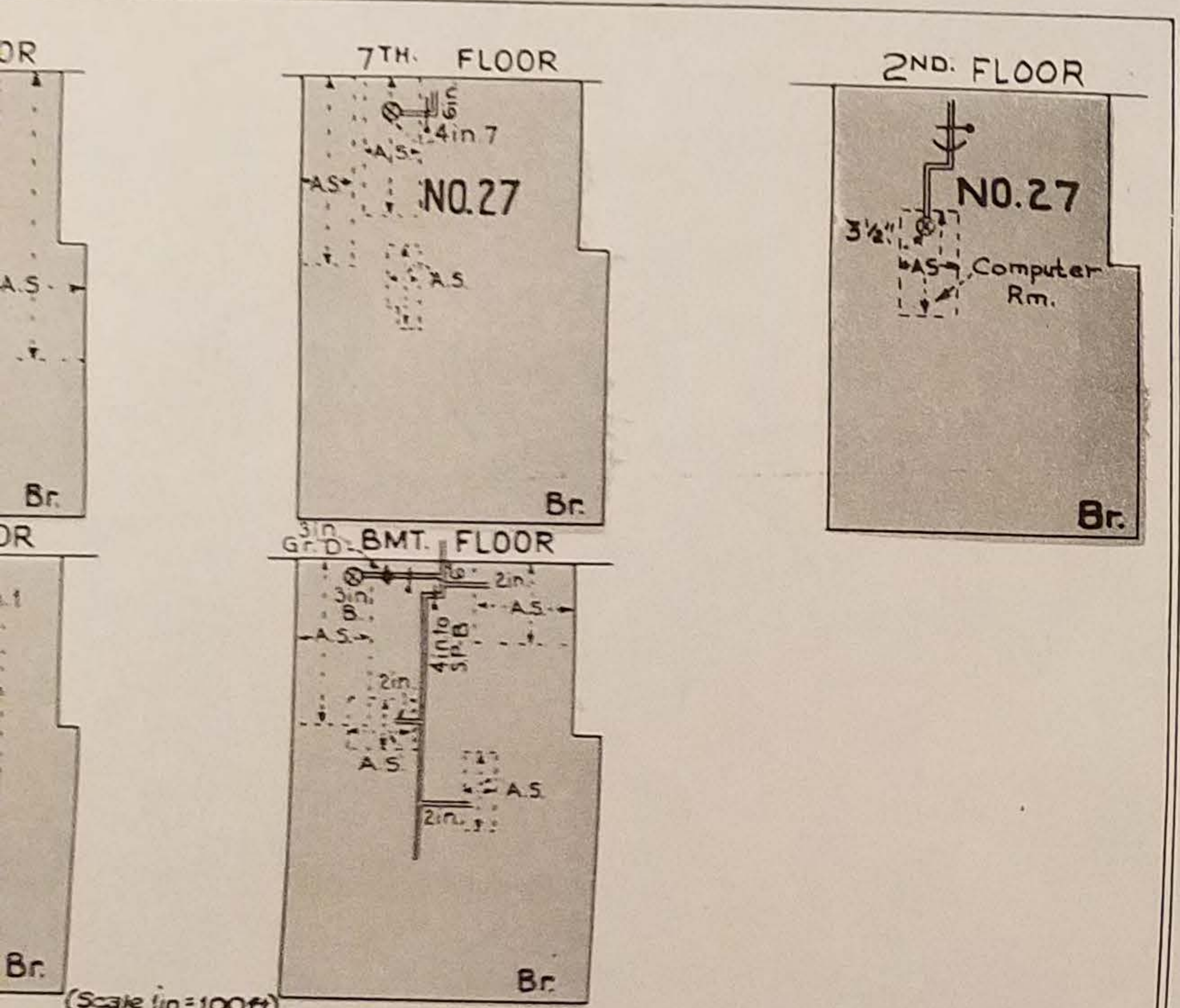
PACKERS AVE.

ROTH ST.

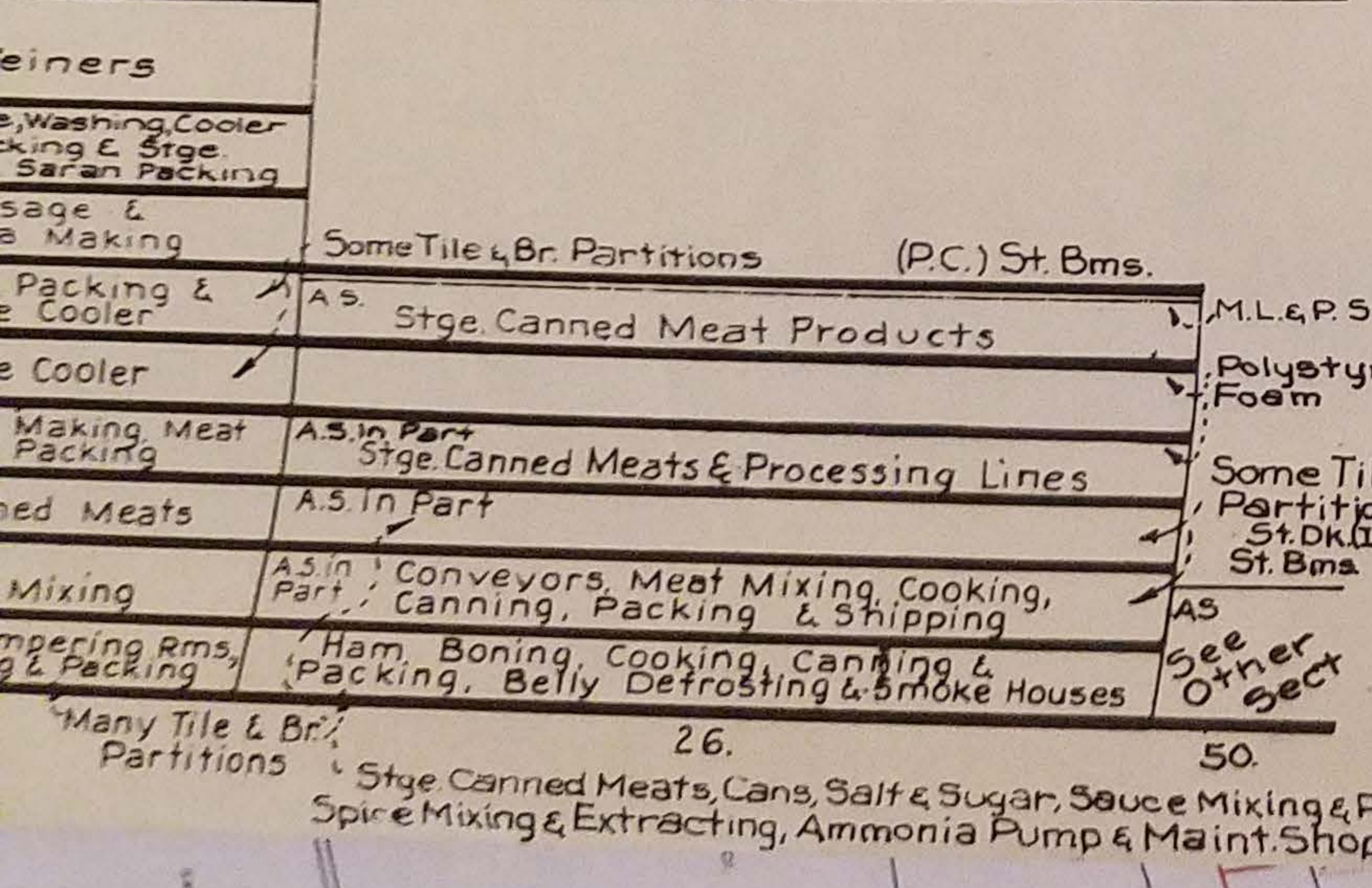
Filling Station (Br)

Filling Station (Br)

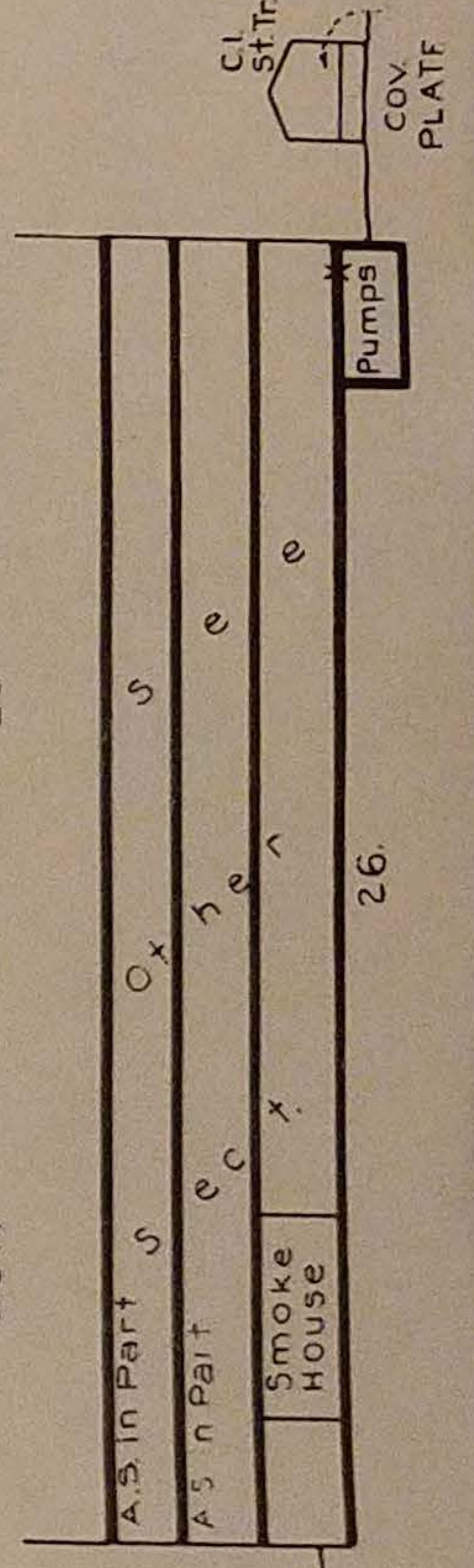
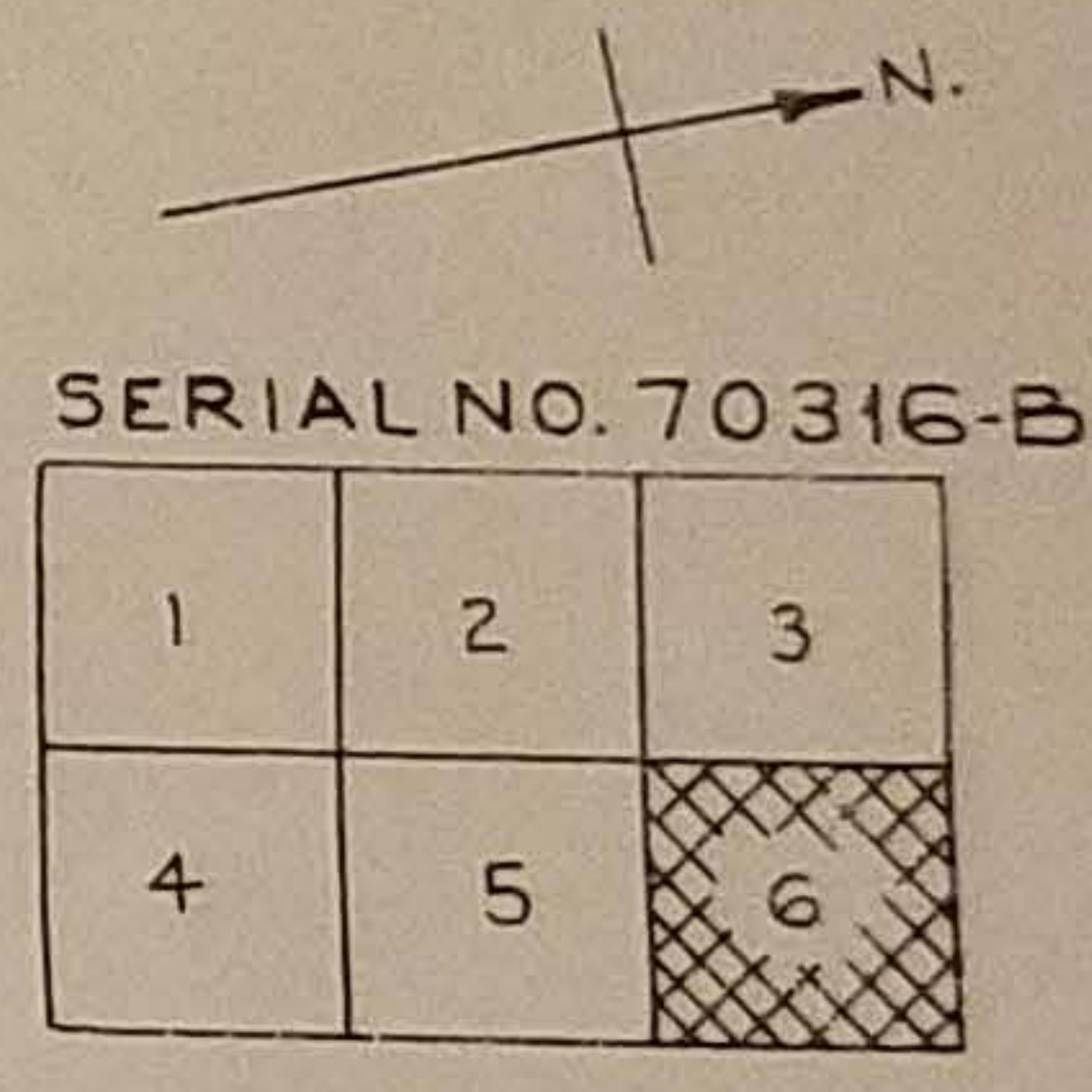
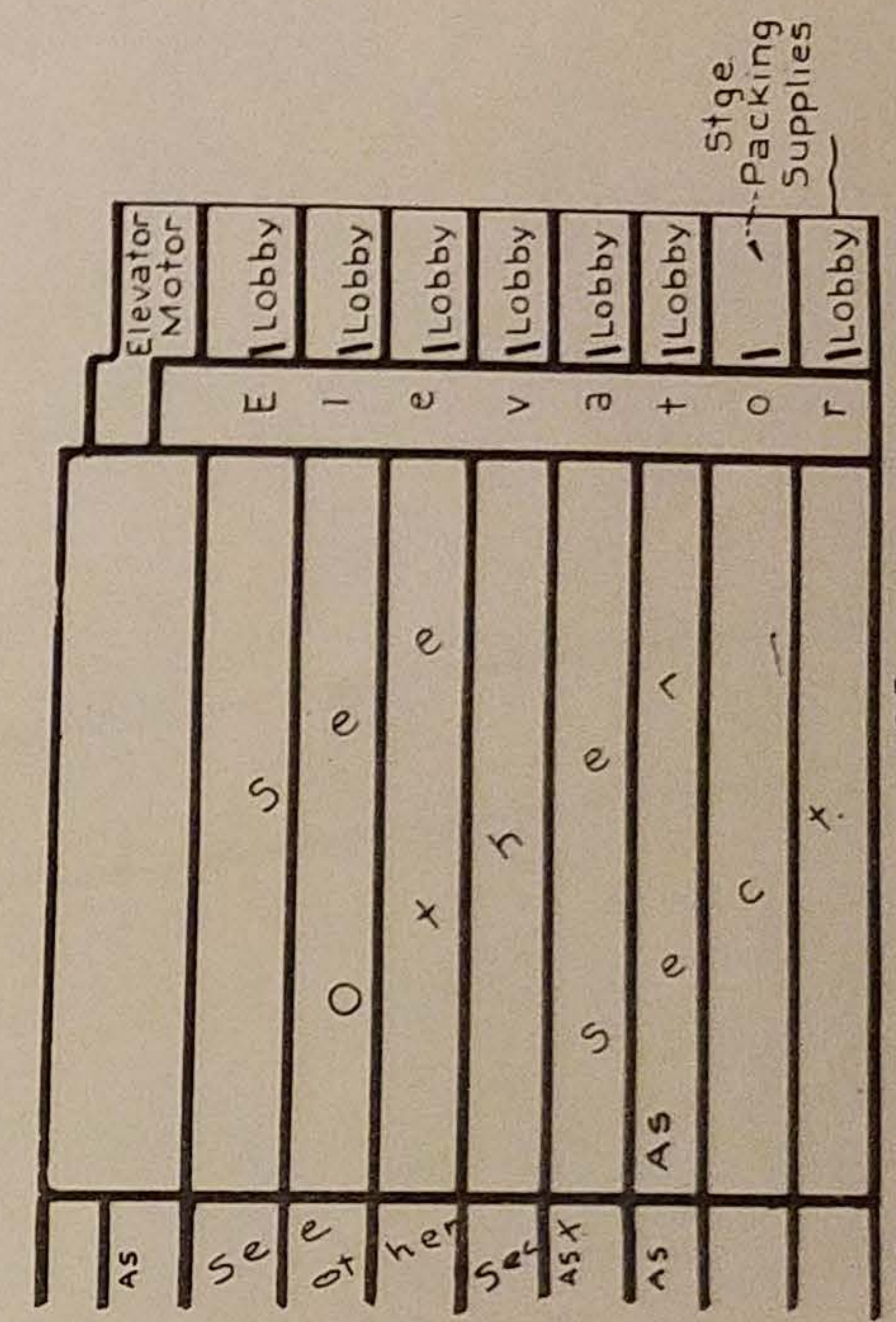
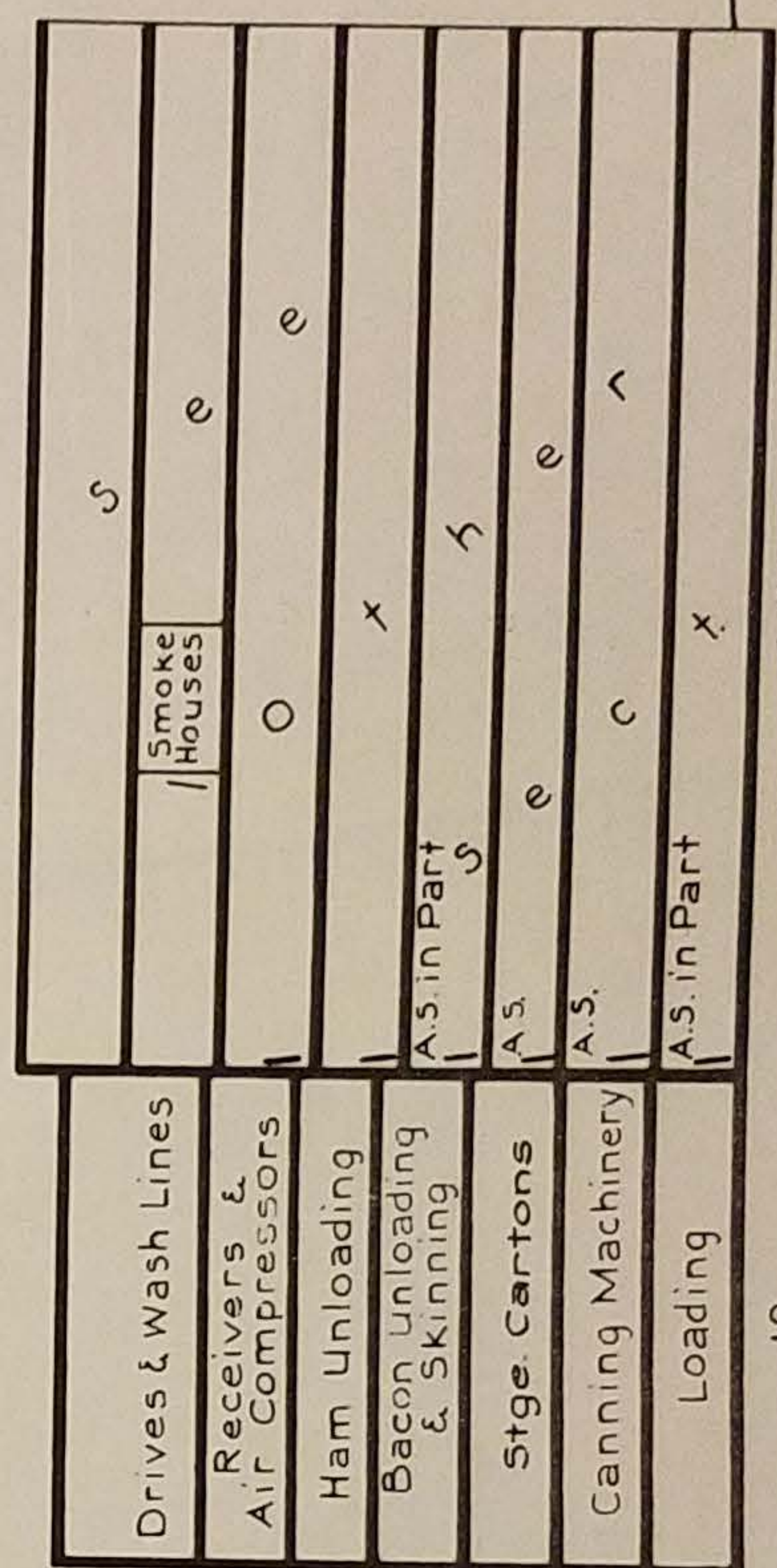
550 ft. of 6in. to Dead End



CH "G" SPRINKLERED AREAS IN Bmt, 1<sup>st</sup>, 2<sup>nd</sup>, 7<sup>th</sup> & 8<sup>th</sup> FLOORS OF BLDG. 27



AS.	Cooler
	Stge. Sausage
	Stge. Meat
	Freezer
	Sausage Drying
AS.	Cooler
AS.	Cooler
AS in Part	Cooler
AS in Part	Preparing Meat
AS in Part	Cooler & Packing
Firing Alley	25-A



PLAN REVISED 8-6-76  
 FOR REMAINDER OF PLAN SEE SERIAL NOS. 70311-B THRU 70315-B  
 FOR KEY PLAN SEE SERIAL NO. 70317-B

**OSCAR MAYER & CO., INC. ET AL.**  
 Madison, Wis.

Surveyed By N.G. Sarikas  
 Date 7-8-59

Scale 1/4 in. = 50 ft.  
 By A Morse

FACTORY MUTUAL ENGINEERING ASSOCIATION  
 Factory Mutual System  
 1151 BOSTON - PROVIDENCE TURNPIKE, NORWOOD, MASS. 02062

**SERIAL 70316-B**  
 Replacing 70311A-317A  
**INDEX 63525**



This Line Coincides with Similar

PACKERS

6in.

6in.

6in.

ST.

MYRTLE

6in.

2500ft of 6in. to Dead End

Meat Packers Union Local  
1. (Br.)

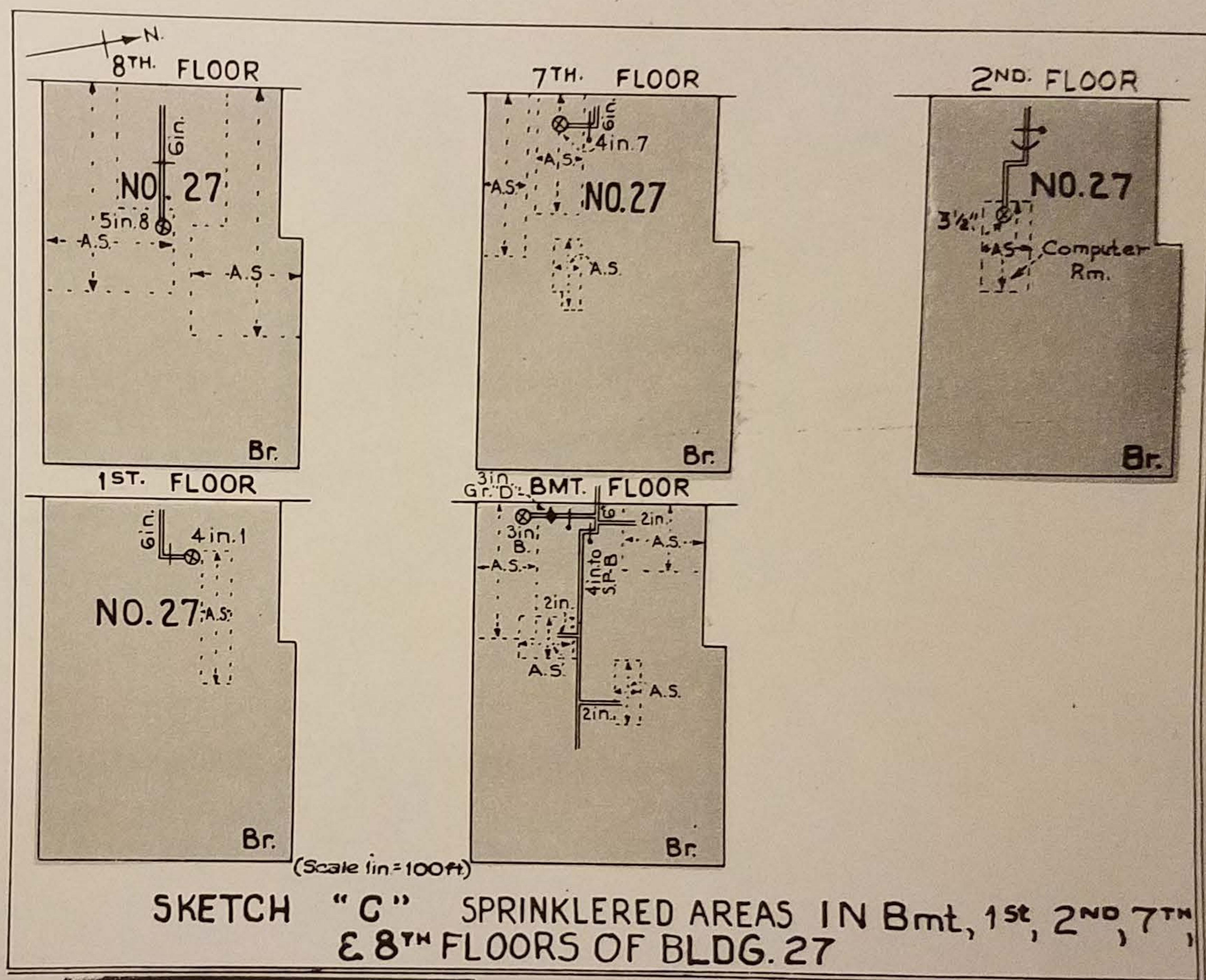
Filling Station  
1. (Br.)

ROTH ST.

6in.

550ft of 6in. to Dead End

Filling Station  
1. (Br.)



SKETCH "C" SPRINKLERED AREAS IN Bmt, 1<sup>ST</sup>, 2<sup>ND</sup>, 7<sup>TH</sup> & 8<sup>TH</sup> FLOORS OF BLDG. 27

Scattered 1 & 2 Sto. Wd. Dwgs. & Auto Hos. For Several Hundred Feet Beyond

Air Conditioning Equipment  
Many Fib Bd & Asb Bd.  
Wd. Fr. Partitions.

C.I. St. Tr.

Some Tile & Br. Partitions

Mfg. Weiners

	A.S.	Laboratories, Offices & Research Rms.	Liver Sausage Making	Liver Sausage, Washing, Cooler Banding & Packing & Stge. Wood Pallets & Saran Packing
Sausage Stuffing & Hanging	St. Bms.	Smoke Houses	Pass Smoke Houses	Sausage & Bologna Making
Stge. Packing Material	St. Bms.	Sausage Skinning & Packing, Sausage Cooler & Holding	Meat Loaf Dipping & Packaging, Sausage Cooler & Holding	Skinning, Packing & Sausage Cooler
W.C. & Lockers	St. Bms.	A.S. in Part Smoked Meat Packing & Cooler	Sausage Cooler	Sausage Cooler
	St. Bms.	A.S. in Part Bacon Cooler Slicing, Packing & Shipping	A.S. in Part Bacon Coolers	A.S. Link Sausage Making, Meat Cooler & Packing
	St. Bms.	A.S. Smoked Meat Packing & Shipping	A.S. Stge. Smoked Meats	A.S. Stge. Canned Meats
	Precast Conc. St. Bms.	A.S. Stge. Canned Meats	A.S. Ham Canning & Canned Meat Packing	Sausage Mixing
Truck Loading	RF.	Dry Curing, Smoked Meat Washing & Hanging	A.S. in Part Smoked Meat Preparing	Smoked Meat Tempering Rms, Coolers, Wrapping & Packing
		18. Some Tile Partitions	22.	25. Many Tile & Br. Partitions
				26.
				50. Stge. Canned Meats, Cans, Salt & Sugar, Sauce Mixing & Packing, Spice Mixing & Extracting, Ammonia Pump & Maint. Shop

A.S.	Cooler
	Stge. Sausage
	Stge. Meat
	Freezer
	Sausage Drying
A.S.	Cooler
A.S.	Cooler
A.S. in Part	Cooler
A.S. in Part	Cooler & Pac

Firing Alley 25-A



**APPENDIX D**

**2016 Phase I Environmental Site Assessment**

**Prepared by**

**Ramboll Environ US Corporation**



# PHASE I ENVIRONMENTAL SITE ASSESSMENT

**KRAFT HEINZ FOODS COMPANY**

**910 MAYER STREET**

**MADISON, WISCONSIN**

Prepared for:  
**Nijman Franzetti LLP**

On Behalf of:  
**Kraft Heinz Foods Company**

Prepared by:  
**Ramboll Environ US Corporation**  
**Chicago, Illinois**

Date  
**June 2016**

Project Number  
**21-39925A**



## SIGNATURE AND ENVIRONMENTAL PROFESSIONAL STATEMENT

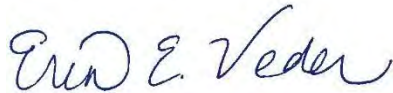
We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312.

We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR part 312.



---

Andrea Kleinaitis  
Senior Associate



---

Erin E. Veder  
Principal



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Figure 1: Site Location Map

Figure 2: Site Layout

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Appendix B: Environmental Database Report

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## 1. SUMMARY OF CONCLUSIONS

Ramboll Environ US Corporation (Ramboll Environ) was retained by Nijman Franzetti LLP on behalf of the Kraft Heinz Foods Company to perform a Phase I Environmental Site Assessment (ESA) of the Kraft Heinz Foods Company (Kraft Heinz or the "Company") site commonly known as 910 Mayer Street in Madison, Wisconsin (herein referred to as the "facility," the "property," or the "site"). Ramboll Environ's assessment was conducted in connection with a potential sale of the site. The objective of the Phase I ESA, which was conducted in conformance with the scope and limitations of ASTM International's *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* E1527-13 (the "ASTM Standard"), was to identify Recognized Environmental Conditions (RECs), as defined in the ASTM Standard (see Section 2.1).

### 1.1 Site Summary

Kraft Heinz owns and operates a food preparation and packaging facility in Madison, Wisconsin. The approximately 70-acre site is divided into three main parts, herein referred to as the "East Property," the "Central Property," and the "West Property." Kraft Heinz operations are conducted on the approximately 54-acre Central Property, which is improved with several process-related buildings that comprise a total of approximately 567,000 square feet. These structures include a processing plant, a maintenance shop, a power plant, a cooling building, and wastewater treatment/sludge dewatering buildings (the Wastewater Treatment Plant [WWTP]). The approximately 8.86-acre East Property is developed with baseball fields, a concession stand structure, and a lawn maintenance equipment storage structure, with an attached batting cage. The East Property is currently leased by the City of Madison. The approximately 6.55-acre West Property is developed with a commuter parking lot and a Metro Bus Station (this area is leased to the City of Madison) and a gravel-covered storage yard (leased to Decker Supply Co. [Decker], a construction supply company).

As early as 1892, the site was undeveloped and contained marshy areas. Based on the complex history and size of the site, the remaining historical discussion is divided into three sections, one for each part of the site.

**Central Property:** By 1915, the Central Property was developed with a meat packing company that was purchased by Oscar Mayer in 1919; the processing facility was continually expanded and upgraded through the 2010s. The facility was operated by Oscar Mayer until 1981, at which time Oscar Mayer was purchased by General Foods, which was later acquired by Philip Morris in 1985. In 1989, Phillip Morris merged General Foods with the newly acquired Kraft Foods, Inc. resulting in the companies being renamed Kraft General Foods, Inc. In 1995, the company was renamed Kraft Foods, Inc. (later Kraft Foods Group). In 2015, H.J. Heinz Co. purchased Kraft Foods Group and began operations as Kraft Heinz. The facility currently operates as a meat processing/packaging operation but is expected to be decommissioned.

Features not associated with the processing facility located on the Central Property by the 1930s included dwellings (north-northeast), undeveloped and agricultural land (east-center; identified as a US Government Reservation), and potential coal storage areas (southern portion). By the late 1940s, the northern dwellings were razed and a coal mound was present in this area, as well as a concrete block facility; part of an ice skating rink was present on the northeast corner and a gasoline station was present on the east-central portion. According to city directories, it appears that three gasoline filling/service stations may have been located on the eastern portion of the Central Property between 1958 and 1967. By 1968, the east adjacent Packers Avenue was expanded and reconfigured and



several structures formerly located on the Central Property (including the gasoline station(s) and skating rink) were razed; these areas were paved and used for parking purposes.

**East Property:** The majority of the East Property was farmed by 1937; however, the northern portion was located within the borders of a former north adjacent landfill/wastewater treatment facility (now partially developed with a shopping center on the eastern portion). By 1955, two dwellings were developed on its southwestern corner. In 1999, the dwellings were razed and this area was improved with baseball fields, concessions and maintenance structures, and a parking lot. It is unknown when Oscar Mayer acquired this portion of the site; however, it is currently leased to the City of Madison and used as a community park.

**West Property:** By at least 1937, this area was developed with dwellings and coal and fuel facilities, with coal storage areas and multiple fuel oil tanks; a manufacturing structure was added to the coal and fuel facility in 1960 and by the late 1960s, the dwellings were razed. By 1976, a warehouse used to house building materials and later spices and a structure of unknown occupancy were constructed to the south of the coal and fuel / manufacturing facility. The areas of the parcel where fuel oil tanks were located were remediated and used for parking purposes by 1980 (see below). In the early 2000, the Metro Bus Station and commuter parking lot were located on its northeastern area and the northwestern portion was used for storage purposes by an adjacent construction supply company. By 2008, the structures on the southeastern portion of the West Property were razed and these areas were grass covered by 2010. It is unknown when Oscar Mayer originally acquired this portion of the site; however, the northeastern and northwestern portions are currently leased to the City of Madison (Metro bus station and commuter parking lot) and Decker, respectively.

## 1.2 Recognized Environmental Conditions

Ramboll Environ performed a Phase I ESA of the site commonly identified as 910 Mayer Avenue in Madison, Wisconsin in conformance with the scope and limitations of the ASTM Standard. Any exceptions to, or deletions from, this practice are described in Section 6.2 of this report. This assessment has revealed the following REC in connection with the site:

- **Potential Impacts from the Historical Industrial Operations.** The Central Property portion of the site has been operated as a meat processing and packaging facility since at least 1915. Related operations have historically involved (and currently involve) equipment and machinery which required the use of chemicals, including solvents, petroleum products, acids, and maintenance-related products. Soil and groundwater sampling activities were performed on site between 1986 and 2006 in specific portions of the site and were tailored to address releases from tanks or other spills. The site is not currently the subject of regulatory scrutiny related to contamination matters. Specific operations associated with the historical industrial use of the Central Property include: 1) tank rooms of unknown use identified on historical Sanborn maps; 2) gasoline filling and repair stations in the 1950s and 1960s; 3) past manufacturing of insecticides in the late 1960s; 4) reported historical use of chlorinated solvents on portions of the site that were not sampled as part of the chlorinated volatile organic compound (VOC) Environmental Repair Program (ERP) closure (discussed further below); 5) below-grade/above-grade features of unknown status, including a zinc chloride tank, five gasoline tanks, and a below-ground automobile lift; and 6) former coal storage areas. In addition, the northern portion of the East Property may have been included within the boundaries of a former north adjacent landfill/wastewater treatment facility; and the West Property was previously used as a former coal and



fuel manufacturing facility, and the northeastern portion where the ASTs were previously located was remediated (as discussed below).

### 1.3 Controlled RECs

The following Controlled RECs (CRECs), as defined by the ASTM standard, were identified with regulatory closure and do not appear to represent a current environmental concern, assuming the buildings, structures and other institutional controls or engineered barriers remain in place.

- **Chlorinated VOCs in Groundwater.** The Central Property of the site was assigned ERP #02-13-000895 following the discovery of chlorinated compounds in four on-site groundwater wells in 1986. The chlorinated compounds detected in groundwater included trichloroethylene (TCE); cis-1,2-dichloroethylene; vinyl chloride; xylene; ethyl benzene; toluene; methylene chloride; chlorobenzene; and acetone. In 1994, the Wisconsin Department of Natural Resources (WDNR) was notified that the concentrations of chlorinated compounds in the wells were detected above state Preventative Action Levels (PALs). Between July 2001 and April 2005, semi-annual groundwater monitoring was performed at the site. Based on the results of the sampling activities, the WDNR approved final closure of this ERP listing on December 7, 2006, which was listed on their GIS Registry to document residual groundwater impacts on site. A review of the WDNR Geographic Information System (GIS) Registry file for this ERP listing indicates that vinyl chloride impacts above enforcement standards are limited to the area beneath and immediately north of the processing plant. Although residual groundwater contamination may remain, because closure has been granted, Ramboll Environ considers this matter to represent a CREC.
- **Removed Petroleum Underground Storage Tanks (USTs).** Three USTs, a 10,000-gallon gasoline UST (removed 1986), and 9,500-gallon gasoline and 10,000-gallon diesel fuel USTs (removed 1996), were located outside the maintenance shop's west exterior wall, at the southern portion of the shop. An investigation was conducted to evaluate the extent of potential soil and groundwater impacts associated with releases from the USTs in 1997. As petroleum impacts were discovered, Leaking UST (LUST) #03-13-114831 was assigned to the site. Groundwater monitoring activities continued to be performed in this area until 2005. The WDNR approved final closure on May 25, 2006 and listed this LUST on their GIS Registry to document residual soil and groundwater impacts, including residual soil contamination (gasoline range organics [GROs], diesel range organics [DROs], and benzene, toluene, ethylbenzene, and xylenes [BTEX]) and petroleum-impacted groundwater beneath the maintenance shop and outside the shop, near its west-central portion. The maintenance of an asphalt barrier near the documented residual soil impacts was assigned as part of the LUST closure. Although residual contamination remains on site, because closure has been granted, Ramboll Environ considers this matter to represent a CREC.
- **West Property Aboveground Storage Tanks (ASTs).** On March 19, 2004, KL Engineering identified petroleum impacts in soil during parking lot construction activities on the northeast corner of the West Property and reported a release to the WDNR. Subsequently, a Leaking AST (LAST) incident and ERP #02-13-524010 were assigned to the site. The West Property was formerly operated by a coal and fuel facility and contained twelve 10,000-gallon fuel oil ASTs that were removed between 1975 and 1985; the release was identified in the area of these former ASTs. Initial response activities included excavating 489 tons of petroleum-impacted soils and removing approximately 9,000 gallons of petroleum-impacted groundwater from the excavation. Following additional sampling activities, the WDNR approved final closure of the ERP on February 8, 2006 and listed this ERP on their GIS Registry to document residual soil and groundwater



impacts. Although residual contamination remains on-site, because closure has been granted, Ramboll Environ considers this matter to represent a CREC.

- **2014 UST Closure.** A 12,000-gallon diesel fuel UST was excavated and removed from an area outside the west wall of the maintenance shop in 2015. Water was observed in the excavation; however, no sheens were visible on the water. A total of four confirmatory soil samples were collected from sidewalls of the excavation and analyzed for petroleum VOCs; soil samples were not collected from the base of the excavation, due to the presence of water, or the east sidewall of the excavation, due to the presence of the maintenance shop's foundation. VOC concentrations ranged between <0.025 ppm to 0.041 parts per million (ppm), but all detections were below the Wisconsin Administrative Code (WAC) NR 720 Residual Contaminant Levels (RCLs) Protective of Groundwater Quality values. As the petroleum VOCs concentrations were below reportable levels, Ramboll Environ considers this matter to represent a CREC.

#### 1.4 Significant Data Gaps

Ramboll Environ identified significant data gaps associated with the following finding. These significant data gaps affect Ramboll Environ's ability to assess whether the findings are CRECs or Historical RECs (HRECs):

- **1999 ERP and 1992 LUST Listings.** Ramboll Environ has insufficient information regarding two incidents that have been closed by the WDNR: a 1999 ERP and a 1992 LUST report. The site (Oscar Mayer Lift) was enrolled into the ERP on March 4, 1999 (ERP #02-13-221826); an end date of May 13, 1999 was assigned to its closure. A LUST (#03-13-001744) was reported by Oscar Mayer Foods in November 1992 in association with a release of petroleum and was granted closure in August 1993. Although both incidents are listed as closed, facility personnel had no information pertaining to these listings and no documentation was available online. Information was requested from the WDNR; however, a response has not yet been received. This lack of information represents a significant data gap. Absent further information, Ramboll Environ cannot confirm whether these issues would be classified as CRECs or HRECs.

#### 1.5 Other Findings

Although not considered a REC based on currently available information, Ramboll Environ identified the following other findings. The term "other finding" is not defined by ASTM; rather, Ramboll Environ uses the term to connote areas of contingent risk that are not clearly defined by the ASTM Standard.

- **West Adjacent Property Fuel Oil Release.** In February 1989, Oscar Mayer notified the WDNR of a release of approximately 14,000 gallons of #2 fuel oil from buried underground piping that serviced current (and historical) fuel oil ASTs located on a leased property adjacent to the west of the processing plant. Three monitoring wells were advanced on the site (i.e., Central Property) adjacent to the railroad tracks for the collection of groundwater samples. The results did not identify groundwater contamination in these wells. Although contamination remains on the west adjacent property, closure was granted by the WDNR.
- **Fill Materials.** Before site development in the early 1900s, the site and surrounding areas consisted of marshy areas that were subsequently filled during development. Water well logs for the Central Property that date back to the 1930s documented drift, fill, and muck in site soils. Following adjacent roadway construction activities in the 1960s, the entire East Property appeared graded/disturbed. In addition, a former fly ash disposal area was present on the northeast corner of the Central Property, beneath the current parking lot; dates of use of this disposal area were



not provided. No further information regarding the source(s) of fill used to grade the site was available.

- **Potential Migration of Contamination from Off-site Properties.** The site is located adjacent to and in the presumed downgradient direction from two off-site properties listed on databases indicative of potential soil or groundwater contamination. The former Burke WWTP and former Truax Landfill located adjacent to the north-northeast of the site are listed with an open ERP listing and as a SHWS and a portion of the landfill/wastewater treatment facility may have extended onto the East Property; a portion of the Burke WWTP / Truax Landfill has been redeveloped as a shopping center. The database stated that the presence of chlorinated solvents on the northeastern portion of the Central Property may have been the result of the operation of the landfill. Based on the available information, there is no indication as to whether contamination at these adjacent properties represents a significant contamination risk to the site; however, consistent with ASTM requirements, Ramboll Environ has attempted to undertake a further review of the listings through submission of a FOIA request to the WDNR. At the time of this report, Ramboll Environ was still awaiting a reply and this is, therefore, considered a data gap. Also, one property located potentially upgradient of (but not adjacent to) the site is listed on a database indicative of potential soil and groundwater contamination. Specifically, ShopKo Store No. 034 (approximately 0.7 miles northeast of the site) is listed as a Brownfields. If contamination associated with off-site properties is found to have migrated onto the site, it is expected that any remedial activities would be the responsibility of the entity(ies) named in the listing or other designated responsible party and not Kraft Heinz.

A discussion of *de minimis* conditions identified during this review is presented in Section 6.



## 2. INTRODUCTION

### 2.1 Purpose

Ramboll Environ was retained by Nijman Franzetti LLP on behalf of Kraft Heinz to conduct a Phase I ESA of the Kraft Heinz site located in Madison, Wisconsin. Ramboll Environ's assessment was conducted in connection with a potential sale of the site. The purpose of the assessment was to identify RECs, which are defined in the ASTM Standard as:

"The presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. *De minimis* conditions are not recognized environmental conditions."

### 2.2 Scope of the Assessment

Ramboll Environ completed the following tasks, consistent with the ASTM Standard, during its Phase I ESA of the site:

- A visit to the site by Andrea Kleinaitis and Natalie Buyarski of Ramboll Environ on May 10, 2016 to observe the exterior and interior features of the site and to identify the uses and conditions specified in the ASTM Standard. In addition, Ramboll Environ observed the adjoining properties from the site or adjacent public thoroughfares. Photographs taken during the site visit are presented in Appendix A.
- An interview during the site visit with the following individuals (year of initial hire at the site indicated in parentheses): Susan Howley, Safety & Environmental Program Manager (2002); Oscar Garcia, Project Engineer (2015); and Nicholas Habeck, Engineering and Maintenance Manager (2008). The aforementioned individuals are referred to herein as "facility personnel". The facility personnel interviewed by Ramboll Environ were identified by the Company as having good knowledge of the uses and physical characteristics of the site.
- A review of information contained in federal and state environmental databases, as obtained from the sources noted below:
  - A radius report prepared by EDR, Inc. (EDR, see Appendix B), which presents the results of searches of federal and state databases for the site, as well as properties near the site. The radius searched for each database, as well as the databases themselves, was selected in accordance with the ASTM Standard.
  - The United States Environmental Protection Agency's (USEPA's) Envirofacts database, which provides site information contained in multiple USEPA regulatory databases.
  - The WDNR Bureau of Remediation and Redevelopment Tracking System (BRRTS), Waste Generation Information, Air Permit Search Tool, and Storage Tank databases.
  - The Wisconsin and Natural History Survey (WGNHS) Water Well Log database.



- A review of standard historical sources (included as Appendix C) and local agency inquiries, as defined in the ASTM Standard. The following resources were reviewed:
  - Readily available historical sources, including (where available) historical topographic maps and aerial photographs, city directories, and Sanborn maps, to develop a history of the previous uses of the site and surrounding area.
  - Historical and site-specific information obtained from the following local agencies: Madison and Dane County Assessor's Office (Assessor's Office).
  - An information request to the Madison and Dane County Environmental Health Department, and the Madison Building and Fire Departments. A response had not been received at the time this report was completed.
  - Ramboll Environ reviewed information available online with WDNR for information related to the site and for an adjoining property that are listed databases noted in Section 8.2.1 of the ASTM Standard. Documentation available for the site included several GIS Registry Packets, which are discussed further throughout the report. Ramboll Environ also submitted a FOIA request to the WDNR for listings that did not have GIS Registry Packets; as of the date of this report, a response has not been received from the WDNR.
- A review of physical setting sources, as defined in the ASTM Standard, including:
  - The current United States Geological Survey (USGS) 7.5-minute topographic map that shows the area on which the site is located.
  - Geologic, hydrogeologic, or hydrologic sources as provided in the EDR radius report, in water well logs, in the WDNR GIS Registry Packets, and in the previous environmental reports for the site, as listed below.
- A review of documents provided to Ramboll Environ by facility personnel, including environmental permits, correspondence with regulatory agencies, facility-prepared plans and procedures, and chemical use information. In addition, Ramboll Environ was provided with the following previous environmental assessment reports:
  - *Phase I Hydrogeologic Investigation Report for Oscar Mayer Foods Corporation in Madison, Wisconsin*, prepared by Conestoga-Rovers & Associates (CRA), dated July 1994 (the "1994 Hydrogeologic report");
  - *Site Investigation Report and Remedial Action Plan for the Oscar Mayer UST Site at 910 Mayer Avenue in Madison, WI*, prepared by BT<sup>2</sup>, Inc. (BT<sup>2</sup>), dated January 1998 (the "1998 SIR/RAP report"; and
  - *Closure Request for the Oscar Mayer Foods Facility at 910 Mayer Avenue in Madison, WI*, prepared by BT<sup>2</sup>, dated December 1999 (the "1999 Closure Request");
  - *Closure Request for the Oscar Mayer Foods Petroleum UST Site at 910 Mayer Avenue in Madison, Wisconsin*, prepared by BT<sup>2</sup>, dated September 2005 (the "2005 Closure Request");
  - *Final Closure Request for the Oscar Mayer Foods Madison Metro North Transfer Point (Kraft Roth Property) at 1201 Huxley Street in Madison, Wisconsin*, prepared by BT<sup>2</sup>, dated January 2006 (the "2006 Final Closure Request"); *Closure Request for the Oscar Mayer Foods Groundwater Project at 910 Mayer Avenue in Madison, Wisconsin*, prepared by BT<sup>2</sup>, dated July 2006 (the "2006 Groundwater Closure Request");



- *Closure Request for the Oscar Mayer Foods Hartmeyer AST Area at 2007 Roth Street in Madison, Wisconsin*, prepared by BT<sup>2</sup>, dated October 2006 (the "2006 Hartmeyer AST Closure Request");
- *Final Case Closure Documentation for the Oscar Mayer Foods Hartmeyer AST Area at 2007 Roth Street in Madison, Wisconsin*, prepared by BT<sup>2</sup>, dated July 2006 (the "2006 Final Closure Request"); and
- *UST Site Assessment of Kraft Foods of Madison, 910 Mayer Avenue, in Madison, WI*, prepared by General Engineering Company (GEC), dated January 2015 (the "2015 UST Closure report").

This assessment was conducted in accordance with the methodology specified in ASTM Standard E1527-13, as agreed upon by Ramboll Environ and The Kraft Heinz Company in May 2016.

### **2.3 Reliance and General Limitations**

This report has been prepared for the exclusive use of Kraft Heinz and may not be relied upon by any other person or entity without Ramboll Environ's written permission. If requested, Ramboll Environ can provide third parties with permission to rely on this report, in writing and pursuant to agreed upon terms and conditions.

Under the ASTM Standard, this report is considered current only for a period of 180 days from the date of the site inspection. The conclusions presented in this report represent Ramboll Environ's best professional judgment based upon the information available and conditions existing as of the date of this report. In performing its assignment, Ramboll Environ must rely upon publicly available information, information provided by the client, and information provided by third parties. Accordingly, the conclusions in this report are valid only to the extent that the information provided to Ramboll Environ was accurate and complete. This review is not intended as legal advice, nor is it an exhaustive review of site conditions or facility compliance. Ramboll Environ makes no representations or warranties, expressed or implied, about the conditions of the site.

Ramboll Environ's scope of work for this assignment did not include collecting samples of any environmental media. As such, this review cannot rule out the existence of latent conditions including contamination not identified and defined by the data and information available for Ramboll Environ's review; however, this report is intended, consistent with normal standards of practice and care, to assist the client in identifying the risks of such latent conditions.

Other issues considered outside the scope of the ASTM Standard and this review include asbestos-containing materials, regulatory compliance review, radon, lead-based paint, lead in drinking water, wetlands, polychlorinated biphenyls (PCBs) in building materials, cultural and historic resources, ecological resources, endangered species, and high voltage power lines.



## 3. SITE DESCRIPTION

### 3.1 Site Setting

Kraft Heinz owns and operates a food preparation and packaging facility commonly identified as 910 Mayer Street in Madison, Dane County, Wisconsin (the "site," the "property," or the "facility"). Additional addresses for the site are identified as 1126 and 1201 Huxley Street, 2150 Commercial Avenue, 1910 Roth Street, and 1010 North Street. The approximately 70-acre site is located 75 miles west of Milwaukee, Wisconsin (Figure 1) and is divided into three main parts, herein referred to as the "East Property," the "Central Property," and the "West Property" (Figure 2).

**Central Property:** This portion of the site is divided into two parcels identified as 910 Mayer Street and 2150 Commercial Avenue. According to the Assessor's Office, the Parcel Index Numbers (PINs) for the Central Property are 251/0810-313-0101-3 and 251/0810-313-0108-9, respectively. The Central Property is approximately 54 acres in size and is developed with five main structures, including the following:

- **Processing Plant:** The processing plant is approximately 455,000 square feet. The partial eight-story building houses production, storage, and office operations.
- **Maintenance Shop:** The maintenance shop is approximately 60,000 square feet and is located southeast of the processing plant. The one-story shop houses storage and repair operations.
- **Power Plant:** The power plant is approximately 30,000 square feet and is located southwest of the processing plant. The three-story building houses power production (boilers), storage, and repair operations.
- **Cooling Building:** The cooling building is approximately 13,000 square feet and is located south of the processing plant, directly east of the power plant. The one-story building houses ammonia tanks and relay supply equipment.
- **Wastewater Treatment Building/Sludge Dewatering Building (the WWTP):** These buildings are located on the south-central portion of the Central Property and encompass approximately 7,000 and 2,200 square feet, respectively. The one-story buildings house wastewater processing and dewatering operations.

Other smaller structures on the Central Property include a well house (northwest corner), a guard shack (east-central portion), an employee entrance building with associated overhead tunnel (west-central portion), a pump house (southwestern portion), an evaporation building (west of the power plant), and a trash compactor building (south of the WWTP). In addition, a water tank and cooling towers are present west of the power plant and a chimney is present to its east, and process ASTs and associated equipment sheds are present on the exterior north-central portion of the processing plant.

Access roads are surfaced with asphalt and lead to asphalt-paved parking areas present in the northeastern and eastern portions of the parcel and asphalt-paved semi-truck parking and storage areas in the northwestern and southern portions of the parcel, which are connected by an asphalt-paved roadway located west of the processing plant. An out-of-use rail spur extends north across the central portion of the Central Property. Isolated areas of the Central Property, including the southern, northern, and western borders, the areas east of the processing and power plants, and the areas east and west of the maintenance shop, are landscaped with grass and other vegetation.



**East Property:** This portion of the site is identified as 1010 North Street. According to the Assessor’s Office, the PIN for the East Property is 251/0810-314-0121-09. The East Property is approximately 8.86 acres and is developed with two approximately 1,100-square foot buildings. One building appears to be a concession stand and is located on the center of the parcel and the other building appears to be used as a lawn maintenance equipment storage structure, with an attached batting cage, and is located on the southwest corner of this parcel. No access was provided to the interior of these structures, which are currently leased by the City of Madison. Access roads are surfaced with asphalt and lead to asphalt-paved parking areas present on the eastern portion of the East Property and at the southwest corner.

**West Property:** This portion of the site is divided into three parcels identified as 1201 Huxley Street, 1910 Roth Street, and 1126 Huxley Street. According to the Assessor’s Office, the PINs for the West Property are 251/0810-313-0403-3, 251/0810-313-0404-1, and 251/0810-313-0084-1, respectively. The West Property is approximately 6.55 acres and is developed with a commuter parking lot and a Metro Bus Station with canopies (leased to the City of Madison), and a gravel-covered storage yard (leased to Decker, a construction supply company). No access was provided to the interior of the Decker gravel-covered storage yard. Access roads are surfaced with asphalt and lead to an asphalt-paved parking area present on the northeastern portion of the parcel (commuter parking area/bus stop) and a gravel-covered area on the northwestern portion (Decker yard). The remainder of the West Property is covered in grass.

Table 1 provides an overview of physical setting and utility information for the site.

<b>Table 1: Physical Setting and Utility Information</b>		
<b>Conditions</b>	<b>Source</b>	<b>Description</b>
<b>Topography</b>		
Elevation (above mean sea level)	USGS topographic map (Madison, WI); Google Earth	Ranges from approximately 849 feet near the eastern end of the site to 858 feet near the southwest portion of the site.
Topographic Gradient	USGS topographic map; visual observations	Relatively flat on site. Regional topography slopes gently downward to the west-southwest toward Lake Mendota, which is located approximately 0.6 miles west of the site.
<b>Hydrology</b>		
Surface Water Runoff	Visual observations	Percolates into the ground surface at unpaved areas or enters catch basins that discharge to the municipal storm sewer system.
Nearest Surface Water Body to the Site	USGS topographic map; Visual observations	There are no surface water bodies on the site. A pond is present approximately 550 feet west of the site, and Lake Mendota is located approximately 0.6 miles west of the site.
Flood Plain	FEMA*; Facility personnel	The site is not located within a 500-year flood zone. Facility personnel reported no known occurrences of flooding at the site.



<b>Table 1: Physical Setting and Utility Information</b>		
<b>Conditions</b>	<b>Source</b>	<b>Description</b>
Wetlands	NWI*; Visual observations	There are no federally designated wetlands on site. Ramboll Environ did not observe any obvious suspected wetlands on site during the visit. As discussed in Section 4.2, the site historically contained marshy areas until it was developed in the early 1990s.
<b>Geology and Hydrogeology</b>		
Presumed Direction of Shallow Groundwater Flow	USGS topographic map	Based on the topographic gradient, shallow groundwater likely flows to the west/southwest.
Depth to Groundwater	WDNR GIS Registry Packets; Soil Sampling Reports	Groundwater was encountered between 4 and 15 feet below ground surface (bgs) during groundwater sampling activities conducted on site between 1986 and 2006.
On-Site Wells	Facility personnel; Well Logs	Facility personnel stated that there are no currently used production, monitoring, or injection wells on site. Documentation pertaining to the installation of several wells on site is discussed further in Sections 4.4. (monitoring wells) and 5.2.10 (production/potable wells).
Nearest Groundwater Supply Wells	EDR radius report	There are 11 federally registered wells present within one-eighth and one mile of the site; none are registered as public supply wells. An additional two private or municipal wells that may be used for water supply are located between one-half and one mile north and west of the site, respectively.
Geologic Conditions	Water Well Logs (1939 to 2000); WDNR GIS Registry Packets; Soil Sampling Reports; NCSS	Soils are described as being variable and consist of drift, fill, muck, gravel, clay, sand, hard pane, and sand rock, with sandstone and/or shale detected between 207 and 730 feet bgs; granite was encountered at 720 feet bgs during the installation of the well on the southeastern corner of the Central Property. Regional soils are described as somewhat poorly drained silt loams with moderate infiltration rates.
<b>Site Utility Information</b>		
Heating and Cooling Equipment	Facility personnel	Natural gas-fired heating units supply building heat. The buildings are cooled with air conditioning units.
Electricity Supplier	Facility personnel	Madison Gas & Electric
Natural Gas Supplier	Facility personnel	Madison Gas & Electric



Table 1: Physical Setting and Utility Information		
Conditions	Source	Description
Use of Fuel Oil for Building Heat	Facility personnel	No current use of fuel oil reported. However, fuel oil was historically stored on site in USTs and ASTs and was historically pumped via underground (and later aboveground) piping from ASTs located on a property leased by Kraft Heinz located to the west of the Central Property. By 2010, fuel oil was no longer used to power the site’s boilers.
Water Supplier	Facility personnel; City website	Madison Water Utility, which obtains groundwater from 22 active wells that are 500 to 1,100 feet bgs
Sanitary Sewer	Facility personnel	Madison Metropolitan Sewerage District
Septic Systems	Facility personnel	No current or former septic systems reported.
Notes: FEMA = Federal Emergency Management Agency; NCSS = National Cooperative Soil Survey; NWI = National Wetlands Inventory * - Source was provided in the EDR radius report.		

**3.2 Current Use of Site**

**3.2.1 Current Operations**

A summary of the current use for each site areas (Central Property, East Property and West Property) is provided below.

**Central Property:** Kraft Heinz employs approximately 600 individuals in the processing and packaging of meat products on the Central Property; the facility is also used as the company’s Midwest headquarters. Based on the operations conducted and information provided by the facility, it appears that the most appropriate primary Standard Industrial Classification (SIC) code is 2013, *Meats and Meat Products*; the corresponding North American Industry Classification System (NAICS) code is 311612, *Process Meats Manufacturing/Meat Processed from Carcasses*.<sup>1</sup> Operations at the site are conducted in three shifts (two processing shifts and one sanitation shift), five days per week. The major operations conducted at the facility are described in more detail below. It is our understanding that meat processing/packaging operations will cease at this site, and the site will be decommissioned.

- *Receiving* – Various meats (i.e., turkey, pork, beef), fat, casings, additives (i.e., flavorings, colorings, liquid smoke), condiments (i.e., cheese, jalapenos, pimentos), spices, and sodium lactate are brought to various areas of the processing plant for storage in room temperature areas, refrigerators/coolers, or freezers. Other raw materials (i.e., corn syrup, potassium lactate, and brine/salt) are brought to the site and stored in exterior ASTs located north of the processing plant.

<sup>1</sup> A formal determination of the most appropriate SIC/NAICS code for the site was beyond the scope of Ramboll Environ’s review.



- *Main Processing* – Raw materials are brought to dedicated areas of the building, which have been designed for the processing or packaging of specific meat products. The meat products processed on site include hot dogs, Lunchables (stick meat), cold cuts (i.e., liver cheese, bologna), saran tubes (i.e., liverwurst), sausages, and salami. The processing of meat products begins by sorting and selecting specific types of meat, spices, additives, and/or condiments that are ground, mixed, and extruded into pre-manufactured casings; the majority of the mixing/grinding activities are conducted on the ground floor of the processing plant. In addition, a large meat macerator (tenderizer) is present on the ground floor.
  - In addition to the meat/additive mixture, ice is added to the hot dog meat mixture before it is extruded into casings that are twisted into links and sent through smokers, which use sawdust and various types of wood chips, for cooking. Once cooked, the hot dogs are aligned and the casings are steamed off; discarded casings are directed to the first floor for compaction and disposal. The hot dogs are sent through a brine solution for cooling purposes and are then packaged into individual four packs before being stacked and housed within a paper wrapper. The plastic hot dog wrapper is extruded on site (discussed below).
  - Stick meat is extruded into a casing that creates a long skinny stick (log). The logs are sent through smokers for cooking (similar to the hot dog smokers). Once cooked, the logs are packaged with intact casings to be cut and further processed off-site.
  - Cold cuts and saran tube products are made by taking mixed, ground, and extruded meat and packing it into a loaf that is placed within a metal mold or extruding it into pre-manufactured casings that are later aligned on metal molds. The metal molds are stacked into 1 of 16 cooking tanks located on the ground floor of the processing plant. Once a cooking tank is full, boiling water is added to the tank to cook the product, which is then chilled using a warm water bath, followed by a brine solution bath. The cold cuts are sliced, placed in rigid plastic containers, and sealed; saran tube products are labeled and sent for packaging.
  - Sausage and salami products, once mixed and extruded into pre-manufactured casings, are brought to humidity-controlled smokehouses to cure for at least 30 days. Once cured, the products are sliced, placed in rigid plastic containers, and sealed.
- *Spice Manufacturing* - Spices are manufactured on the first floor of the processing plant using a variety of dry spices and wet products (i.e., oils, liquid smokes) that are blended in three mixers. The spices are packaged and used on site or shipped to other Kraft Heinz locations for use.
- *Extruding*- A plastic extrusion line is located on the ground floor of the processing building and uses three types of resin (polyvinyl chloride, vinyl acetate, and a barrier resin) to create a three-layered, food-grade plastic wrap that is used to package hot dogs.
- *Packaging* – Finished meat products are weighed, scanned, sent through a metal detector, labeled, and placed in cardboard boxes for storage or shipping. Warehouse/storage areas located on site house meat products manufactured on site, as well as other Kraft Heinz products that were manufactured off-site (i.e., cream cheese, sauerkraut).
- *Wastewater Treatment* – The facility conducts on-site wastewater treatment prior to discharging process wastewater to the municipal sewer. Facility personnel stated that all process water used in the meat production and/or packaging operations, as well as floor drains in the buildings and the linear drain in the maintenance shop and truck washing area, are directed to the on-site WWTP, using a system of floor drains, sumps, and pipes. The wastewater is screened, and solids are removed, collected in sludge tanks, and shipped off-site. Pretreatment chemicals used in the



process include liquid polymers, flocculants, and coagulants for the removal of suspended solids, and sodium hydroxide and hydrochloric acid for pH control.

- *Ancillary Operations* – The facility performs packaging, shipping, and administrative operations, none of which involve the use of significant quantities of chemicals. In addition, Kraft Heinz conducts the following activities in support of the major operations:
  - Operation of regenerative and standard thermal oxidizers (RTOs and STOs) for air emissions controls and multiple air compressors.
  - Operation of three natural gas-powered boilers for steam generation in the power plant; this building also contains a water softening system to treat the water used in the boilers.
  - Operation of various room temperature areas, refrigerators/coolers, and freezers that comprise eight floors of the western portions of the processing plant, as well as dedicated rooms within actual processing areas that use an anhydrous ammonia refrigeration system.
  - Operation of a metal mold washing line and a central detergent system in the processing plant for sanitation activities.
  - Operation of several quality control laboratories in the processing plant, in which physical tests are conducted.
  - Operation of a Research & Development Department in the processing plant, which maintains its own small-scale production equipment (i.e., smokehouses, grinders, mixers).
  - Operation of a company store in the processing plant wherein employees can purchase Kraft Heinz products.
  - Operation of several natural gas-powered backup generators and water deionizing units.
  - Operation of laser printers to print expiration dates and stock keeping unit (SKU) numbers on meat products.
  - Operation of 19 elevators at the site (3 are hydraulic-powered and the remaining 16 are cable-operated).
  - General building and machinery/equipment maintenance, including several maintenance rooms located throughout all of the site buildings; each maintenance shop is equipped with grinders, lathes, cutting, and/or welding machines with acetylene and oxygen gases. A central machine shop is located on the ground floor of the processing plant and a machine shop is present in the maintenance shop. In addition to various grinders, lathes, cutting, and welding machines, a blade shop is present in the central machine shop and additional metal machining equipment (i.e., presses, grinders, bead blasters) are located in the maintenance shop.
  - Operation of 17 parts washers, containing a petroleum-based degreaser (naphthalene), in the maintenance areas located in various buildings on the Central Property. Spent degreaser is taken off site, as discussed below.
  - Transfer of raw materials and finished products using over 50 battery-operated pallet jacks, forklifts, or scissor lifts. Forklift repair is conducted by employees in a “jeep” shop, which is located on the ground floor of the processing plant.
  - Operation of a truck washing area south of the WWTP where the interiors of trailers are cleaned on an infrequent basis. Facility personnel indicated that the linear trench drain in this area is directed into the WWTP; however, these activities are no longer regularly conducted.



- Refueling of yard trucks, lawn care equipment, and refrigerated semi-trucks using on-site petroleum ASTs located south of the WWTP (near the truck washing area). The equipment is serviced on site by maintenance staff in the maintenance shop.

The primary raw materials used at the site include ammonia, meats/fats, casings, additives, condiments, spices, sodium lactate, corn syrup, and salt. In addition, Kraft Heinz uses sawdust/wood chips and maintenance-related materials, such as fuels, oils, lubricants, greases, non-chlorinated degreasers, welding gases, boiler/cooling tower/wastewater treatment chemicals, refrigerants, sanitizers, and detergents.

According to facility personnel, several changes have occurred in operations during the history of the facility. Specifically, stock pens were used to house hogs and cattle on the southwestern portion of the Central Property; the hogs were slaughtered on site until 1978/1979, and cattle were slaughtered until 1982. In addition, coal and fuel/heating oil were historically used to power process boilers. According to facility personnel, residual coal may be buried on the southwestern portion of the Central Property (in the former area of the stock pens). The maintenance shop was historically used for metal fabrication activities, specifically for meat processing equipment and supply (i.e., pans) manufacturing. Since the 1980s, the maintenance shop has been used for vehicle and lawn/snow removal maintenance activities and for the storage of obsolete and lawn/snow removal equipment.

As a result of the planned closure of the plant, several services formerly provided to employees have been closed, including a bank (credit union), a nurse's office, and a cafeteria kitchen. Areas no longer used in the processing plant include a hot dog line on eighth floor and the offices on the fifth floor. According to facility personnel, no chlorinated solvents are currently used at the facility; however, chlorinated solvents may have been used on site for cleaning after the slaughtering process and during spice extraction activities. This matter is discussed further in Section 4.4.

**East Property:** The East Property is leased to the City of Madison for recreational purposes (i.e., community park and baseball fields).

**West Property:** The West Property is leased to the City of Madison for use as a Metro Bus Station and commuter parking lot and to Decker for storage of construction equipment. Activities conducted at the bus station include passenger loading and unloading beneath canopies; no structures are associated with the bus station.

### 3.2.2 Waste Management

Hazardous wastes regularly generated at the Central Property include spent parts washer solvent, routine paint-related wastes, a waste sodium nitrite mixture, combustible liquids (i.e., sage, marjoram oil), spent potassium hydroxide, waste printing ink, and unused aerosol cans. In addition, as cleaning activities are ongoing at the facility in anticipation of its closure, obsolete chemicals are being catalogued and disposed. As such, facility personnel stated that Kraft Heinz recently amended its status from a small quantity generator (SQG) to a large quantity generator (LQG; generator number WID006105266) under the Resource Conservation and Recovery Act (RCRA). Spent parts washer solvent is periodically changed by Safety-Kleen, which removes the facility's remaining hazardous wastes on an as-needed basis. Safety-Kleen also removes universal wastes, including fluorescent light bulbs and ballasts, mercury switches and thermometers, and batteries, from the site. During the site visit, no evidence of hazardous waste generated or stored at the East and West Properties were observed.



Nonhazardous waste generated at the Central Property consists of general trash (including depressurized aerosol cans), recyclable materials (i.e., office paper, cardboard, plastic), used oil, scrap metal, waste food products, WWTP sludge/filter cakes, and liquid wastes. General facility trash and recyclable materials are collected in on-site compactors, a bailer, and covered dumpsters for removal by Advanced Disposal or Sonoco Recycling, respectively. Used oil is collected in 55-gallon drums stored in the processing and power plants and the dewatering building for off-site management by Rock Oil Refining, Inc. Scrap metal is collected in covered dumpsters until off-site shipment for recycling by a local firm. Waste food products are stored in containers throughout the processing plant and removed by Darling International. WWTP sludge/cake is collected in dumpsters and stored under roof in an area along the side of the sludge dewatering building for regular removal by United Liquid Waste Recycling. Water Town collects liquid processing wastes, which are stored in containers throughout the processing plant and in the wastewater treatment building. According to facility personnel, rags and uniforms are laundered by Cintas. Nonhazardous waste generated at the West and East Property is limited to general trash.

### **3.2.3 Wastewater and Storm Water**

Sanitary wastewater, which includes wastewater from bathroom and kitchen areas, is discharged to the on-site WWTP. As discussed in Section 3.2., process wastewater and water that enters floor/linear drains, including air compressor condensate, boiler blowdown, and floor wash water, are discharged to the on-site WWTP. Several capped metal sumps, used to direct the process wastewater to the WWTP, were observed in the processing plant; no staining or other signs of potential impact were noted near the sumps. Storm water at the site infiltrates into small landscaped areas or enters storm drains in paved areas of the site. These storm drains discharge storm water to the municipal storm sewer system.

### **3.2.4 Air Emissions**

Air emissions at the facility consist primarily of particulate matter (PM) and VOCs from the process boilers and the smoke houses; PM from spice mixing/packaging activities; VOCs and PM from the hot dog packaging extrusion line; VOCs from the ammonia refrigeration system and ethylene glycol concentrator; and combustion products from the facility's natural gas-fired backup generators. Hazardous Air Pollutants (HAPs), specifically formaldehyde, are also generated on site. Process emissions are controlled via regenerative and standard thermal oxidizers (RTOs and STOs), and PM from sawdust/wood chip smokehouse loading activities and spice mixing/packaging are managed through baghouses. Ammonia at the site is monitored under a Risk Management Program (RMP).

## **3.3 Current Uses of Adjoining Properties**

The property is located in a mixed industrial, residential, and commercial land use area. The nearest residential areas are located adjacent to the south and east of the East Property. Based on discussions with facility personnel, Ramboll Environ's visual observations from the site boundary and public rights-of-way, and a limited review of publicly available information, a general determination of the current use of adjacent properties was developed, as described Table 2.



<b>Table 2: Current Use of Adjacent Properties</b>		
<b>Direction</b>	<b>Property/Land Use</b>	<b>Ramboll Environ’s Observations</b>
North	<p><b><u>East Property:</u></b> Aberg Avenue/Route 30 , followed by an undeveloped wooded parcel and a shopping center</p> <p><b><u>Central Property:</u></b> Aberg Avenue, followed by an auto repair facility, a residential area, a storage facility, and a Packers Avenue/Route 113 on-ramp</p> <p><b><u>West Property:</u></b> A storage facility, a credit union, and a law office, followed by Aberg Avenue</p>	<p>With the except of the unused AST noted to the west of the Central Property, no apparent exterior manufacturing or chemical storage operations were observed. Residential areas consist of single-family homes. No concerns were noted; however, several adjacent properties were listed on databases of potential environmental impact. These properties are discussed further in Section 4.1.2.</p>
East	<p><b><u>East Property:</u></b> A residential area</p> <p><b><u>Central Property:</u></b> A union office, a tavern, a dwelling, and Packers Avenue, followed by the East Property, a residential area, and a car rental facility</p> <p><b><u>West Property:</u></b> Railroad tracks, followed by the Central Property</p>	
South	<p><b><u>East Property:</u></b> A residential area</p> <p><b><u>Central Property:</u></b> Commercial Avenue, followed by the Madison Area Technical College and a storage facility</p> <p><b><u>West Property:</u></b> Roth Avenue, followed by a parking lot and undeveloped land</p>	
West	<p><b><u>East Property:</u></b> A dwelling, followed by Packers Avenue and parking lots associated with the Central Property</p> <p><b><u>Central Property:</u></b> Railroad tracks, followed by a parking area, an AST (formerly used by Kraft Heinz and discussed further in Section 4.4.), undeveloped land, and an ice skating rink, followed by several unlabeled industrial structures and undeveloped land</p> <p><b><u>West Property:</u></b> Decker Supply Company, followed by O’Neill Avenue</p>	
<p>Notes:</p> <p>During the site visit, Ramboll Environ walked or drove by the borders of these properties that are shared with the site. Ramboll Environ did not enter the neighboring properties.</p>		



## 4. REVIEW OF PUBLIC RECORDS AND OTHER INFORMATION SOURCES

### 4.1 Environmental Regulatory Database Review

Ramboll Environ contracted with EDR in May 2016 to prepare of summary of listings in federal and state agency databases for the site and facilities within applicable radii of the property, as specified by the ASTM standard.<sup>2</sup> A copy of the EDR radius report is presented in Appendix B.

#### 4.1.1 Database Review for Site

Ramboll Environ reviewed the results of the state and federal environmental database searches performed by EDR (see Appendix B) and also reviewed information available in the WDNR online databases. The site is listed on several environmental databases, as discussed in Table 3.

Table 3: Summary of Environmental Database Listings for the Site	
Summary of Information Contained in Database	Ramboll Environ's Comments
<p>Kraft Foods Group, Inc. (Kraft)/Oscar Mayer, Inc. is listed in the ERP database as being enrolled into the ERP on February 22, 1984 (ERP #02-13-000895). An end date of December 7, 2006 was assigned to the closure of this ERP listing. An activity and use limitation (AUL) was assigned to the site in association with the ERP listing's closure, as well as a Closed Remediation Site (CRS) listing.</p> <p>The site (Oscar Mayer Lift) was enrolled into the ERP a second time on March 4, 1999 (ERP #02-13-221826). An end date of May 13, 1999 was assigned to the closure of the second ERP listing.</p> <p>Kraft is listed on the Wisconsin Remedial Response Site Evaluation Report (WRRSER) database with a begin date of February 22, 1984. No additional information is provided in the listing; however, based on the begin date of the listing, it is likely associated with the 1984 ERP listing.</p>	<p>Ramboll Environ reviewed documentation provided by facility personnel and on file with the WDNR. The documentation review is discussed further in Section 4.4.</p> <p>The WDNR and facility personnel did not have information pertaining to one ERP listing (#02-13-221826) and one LUST listing (#03-13-001744). As such, Ramboll Environ submitted a FOIA request to the WDNR and is awaiting a reply.</p>
<p>The West Property (Madison Metro North Transfer Point) is listed in the ERP database as being enrolled into the ERP on March 19, 2004 (ERP #02-13-524010). An end date of February 8, 2006 was assigned to the closure of the ERP listing. An AUL was assigned in association with the ERP listing's closure, as well as a CRS.</p>	
<p>Kraft is listed on the Leaking UST (LUST)/Recovered Government Archive (RGA) LUST database with three releases. The first release (#03-13-000053) was reported in February 1989 and granted closure in January 2008. The second release (#03-13-001744) was a petroleum release reported in November 1992 and granted closure in August 1993. The third release (#03-13-114831) was reported in December 1996 and granted closure in May 2006. A CRS listing was assigned to the first and third LUST incidents.</p>	

<sup>2</sup> EDR uses the term "radii" to refer to the ASTM terminology "approximate minimum search distance" in the environmental database report.



<b>Table 3: Summary of Environmental Database Listings for the Site</b>	
<b>Summary of Information Contained in Database</b>	<b>Ramboll Environ's Comments</b>
Madison Metro North Transfer Point on the West Property is listed in the LAST database for releases of diesel fuel and petroleum products that were reported in March 2004. The LAST was granted closure in July 2013.	This listing appears to be associated with releases addressed under ERP #02-13-524010 discussed further in Section 4.4.
Kraft and/or Oscar Mayer are listed with multiple SPILLS listings that occurred between 1984 and 2014. All of the SPILLS listings have been granted closure and include releases of mineral oil, antifreeze, hydraulic oil, petroleum products, Freon, waste oil, acids, base, bleach, sodium hydroxide cleaning solution, or salt. In addition, wastewater releases were reported in 1986, 2006, 2007, and ammonia releases were reported in 1993, 1998, 1999, 2000, 2001, 2002, 2006, 2008, 2011, and 2012.	As these SPILL listings are reported with a closed status, they are not expected to represent a current environmental concern. Ramboll Environ reviewed available information pertaining to releases of materials that could suggest a potential that is summarized further in Section 4.3.
Kraft/Oscar Mayer is also identified with 18 Emergency Response Notification System (ERNS) listings. Several of these listings are associated with ammonia releases that occurred in 1993, 1999, 2000, 2001, 2002, 2004, 2006, 2008, 2011, and 2012. One ERNS listing documents a sewage release into a storm drain in 2000. In addition, two ethylene glycol releases were reported in 1993; one spill went into a storm drain (eventually to the Ohio River), but the second was contained and the product was removed.	Facility personnel had no information pertaining to these releases and no information was available with the WDNR. Based on the information indicating the released amounts were minimal and did not appear to impact soil or groundwater, these listings do not appear to suggest a concern to the site.
Oscar Mayer is listed on the Hazardous Materials Inventory Release System (HMIRS) with a release of two gallons of sulfuric acid. No additional information (i.e., date of spill) was provided.	
Kraft is listed on the UST and AST databases. The facility is registered with five USTs containing fuel oil, gasoline, or diesel fuel that ranged from 250 to 10,000 gallons and were removed between 1986 and 2014.  The facility is registered with five ASTs. Two ASTs, a 250,000-gallon fuel oil AST and a 500-gallon waste oil AST, were removed in 2001 and 2004, respectively. The remaining three ASTs, a 550-gallon gasoline AST, a 2,000-gallon diesel fuel AST, and a 150,000-gallon fuel oil AST are identified as "in use."	These listings by themselves do not suggest a contamination concern to the site. It appears that the 150,000-gallon fuel oil AST is located on the adjacent leased property. These USTs and ASTs are further discussed in Section 5.2.
The West Property, under the entity name Kraft, was also registered with four 10,000-gallon fuel oil ASTs that were removed in 1975 and eight 10,000-gallon fuel oil ASTs that were removed in 1985.	
Oscar Mayer at 900 Packers Avenue (the southeastern portion of the Central Property) is listed in the AST database with six 820-gallon diesel fuel AST that were associated with back-up generators and removed between 2006 and 2008.	



<b>Table 3: Summary of Environmental Database Listings for the Site</b>	
<b>Summary of Information Contained in Database</b>	<b>Ramboll Environ's Comments</b>
Kraft Foods Group is listed as a SQG of hazardous waste. Kraft registered as a LQG in 1990, as an SQG in 2001, as an LQG in 2002, and as a SQG 2003. No current or historical violations or issues of noncompliance are listed.	The listing does not suggest a contamination concern to the site. Wastes generated at the site are further discussed in Section 3.2.2.
<p>Notes:</p> <p>* The site is also listed on the following other databases related to regulatory compliance: Solid &amp; Hazardous Waste Information Management System (SHWIMS), RMP, Aerometric Information System (AIRS), US AIRS, Toxics Release Inventory System (TRIS), New York (NY) and Wisconsin (WI) Manifests, WI National Pollutant Discharge Elimination System (NPDES), WI Tier 2, ECHO, Integrated Compliance System (ICIS), and Facility Index System/Facility Registration System (FINDS). Listings on these databases, by themselves, are not necessarily indicative of contamination and are, therefore, not discussed further herein.</p>	

**4.1.2 Database Review for Surrounding Properties**

There are several listings in the EDR report for off-site facilities within applicable ASTM search radii. Several of these listings (i.e., RCRA hazardous waste generators, USTs, ASTs, compliance listings), by themselves, are not necessarily indicative of a contamination concern and, therefore, are not discussed herein and were not further evaluated for purposes of this assessment. A number of facilities appear on databases indicating potential contamination concerns (i.e., ERP, SHWS, Solid Waste Facilities/Landfill Sites [SWF/LF], Registry of Solid or Hazardous Waste Deposition Sites [WDS], LAST, LUST, CRS, AUL, Brownfields, SPILLS). Of the sites representing a potential environmental concern, Ramboll Environ has discussed in Table 4 below only 1) facilities that are located adjoining to the site; and 2) facilities that are located potentially upgradient of the site and have not been issued regulatory closure for all listings of concern.

<b>Table 4: Summary of Pertinent Database Listings for Off-Site Properties</b>		
<b>Listing Name or Address and Location Relative to the Site</b>	<b>Summary of Information Contained in Database</b>	<b>Ramboll Environ's Comments</b>
<b>Listings for Adjoining Sites <sup>1</sup></b>		
Reynolds Property 1401 Packers Avenue (Adjoining to the north)	This facility (Burke WWTP) is listed as being enrolled into the ERP on June 11, 2002. The ERP listing has not been granted closure.	The facility is located upgradient and either maintain an open status or have no available information. Ramboll Environ has submitted a FOIA request to the WDNR and is awaiting a reply. This matter is further discussed in Section 6 of this report.
Madison 1948-72 (Truax Landfill) Aberg Avenue (Adjoining to the north/northeast)	The facility is listed on the SHWS and was added to the Hazardous Ranking System List in 1994. No further information is listed. The eastern portion of this property has been redeveloped with a shopping center.	



<b>Table 4: Summary of Pertinent Database Listings for Off-Site Properties</b>		
<b>Listing Name or Address and Location Relative to the Site</b>	<b>Summary of Information Contained in Database</b>	<b>Ramboll Environ’s Comments</b>
Penmlo, Inc. 2301 Commercial Avenue (Adjoining to the south)	The facility is listed in the LUST database for a release that was reported in 1996 and granted closure in May 2003. A CRS and AUL were assigned to the site in association with closure activities.  A SPILLS listing was assigned to the site in October 1978 for a historical release of fuel oil; the listing has been granted closure.	Because the matters have been granted regulatory closure by the WDNR, it is reasonable to assume that they were appropriately evaluated in accordance with regulations in place at the time, and that remaining contamination, if any, is localized and unlikely to migrate at significant levels onto the site.  Additionally, these properties are located in the presumed downgradient direction from the site. Thus, these closed off-site listings do not appear to represent a significant concern to the site.
Millvander Property 2530 Pennsylvania Avenue (Adjoining to the south)	This facility is listed as being enrolled into the ERP on June 9, 2001. An end date of January 22, 2006 was assigned to the closure of the ERP listing.	
<b>Listings for Non-Adjoining Sites <sup>2</sup></b>		
Shopko Store No. 034 2602 Shopko Drive (approximately 0.7 miles to the northeast)	The property is identified with a Brownfields listing. With the exception of a start date of October 30, 2006, no further details are listed for the Brownfields listing.	The listing does not indicate the extent (if any) of contamination and is further discussed in Section 6.
<p><u>Notes:</u></p> <p><sup>1</sup> Ramboll Environ’s analysis of adjoining sites was based on observations made during the site reconnaissance (as discussed in Table 2) and location information for off-site listings as presented in the EDR report. The discussion of adjoining and non-adjoining sites does not include (if applicable) listings for certain databases that are (by themselves) not necessarily indicative of a contamination concern (e.g., compliance listings without indication of a release or chemical mishandling, such as RCRA hazardous waste generators or registered storage tanks). Also, for purposes of this analysis, Ramboll Environ considers as “adjoining” properties that are immediately adjacent, even if separated by a road or other physical barrier.</p> <p><sup>2</sup> As noted in Table 1, shallow groundwater beneath the site likely flows to the west-southwest. Within this section, Ramboll Environ did not discuss herein any off-site non-adjoining property that is listed on a database indicative of a contamination concern, but for which regulatory closure has been issued, as the issuance of regulatory closure suggests that impacts to the subject site from the noted off-site property are unlikely. Finally, Ramboll Environ did not discuss herein any off-site non-adjoining property that is presumed to be downgradient or crossgradient of the subject site. This analysis was based on the assumption that a hazardous material released to the subsurface generally does not migrate laterally within the unsaturated soil for a significant distance, but a hazardous material can migrate in the groundwater in a generally downgradient direction; however, the direction of groundwater flow may be affected by localized topographic, hydraulic, and hydrogeologic conditions.</p>		

The EDR radius report indicates that poor or inadequate address information was available for one facility located in the vicinity of the site; therefore, this facility could not be readily mapped by EDR. Because the location of this facility with respect to the site could not be evaluated, Ramboll Environ is limited in its ability to express an opinion regarding the potential for impact to the subject site from this facility. It was beyond the scope of this review to accurately locate this facility identified by EDR;



however, Ramboll Environ reviewed the list of unmapped sites and verified that none appeared to be adjacent to the site.

## 4.2 Historical Uses of the Site and Adjacent Sites

### 4.2.1 Past Uses of the Site

By 1892, the entire site was undeveloped and covered in marshy areas; railroad tracks were present on the western portion of the Central Property. Based on the complex history and size of the site, the remaining historical discussion is divided into three sections, one for each part of the site.

**Central Property:** By 1915, the Central Property was developed with a meat packing company that was vacant when it was purchased by Oscar Mayer in 1919; at that time, the site included stockyards, livestock pens, and the original portions of the processing and power plants and WWTP. By 1932, roadways and railroad spurs extended across the site, as facility operations expanded. Other features on site by the 1930s included dwellings (north-northeast), undeveloped and agricultural land (east-center) that was identified as a US Government Reservation, and potential coal storage areas southeast and south of the power and processing plants. By 1942, the processing plant had "tank rooms" and a laundry room, a zinc chloride tank (no capacity or designation of above or below ground were listed) was present near the power plant, and the original portion of the maintenance shop was constructed as a garage.

By the late 1940s, the northern dwellings were razed and a coal mound was present in this area, which also now contained a concrete block facility; part of an ice skating rink was present northeast of the processing plant and a gasoline station was present to its east. According to city directories, it appears that three gasoline filling/service stations may have been located on the eastern portion of the Central Property between 1958 and 1967. Documentation available online with the USEPA indicated that Oscar Mayer historically manufactured insecticides (space spray, pyrethrum, and lethane) at the site in the late 1960s. By 1968, the east adjacent Packers Avenue was expanded and reconfigured and several structures formerly located on the Central Property (including the gasoline station(s) and skating rink) were razed; these areas were paved and used for parking purposes. By 1986, several processing structures, including stock pens, were razed. In 2010, a former structure located east of the power plant was razed and replaced with the current cooling building.

The facility was operated by Oscar Mayer until 1981, at which time Oscar Mayer was purchased by General Foods, which was later acquired by Philip Morris in 1985. In 1989, Phillip Morris merged General Foods with the newly acquired Kraft Foods, Inc. resulting in the companies being renamed Kraft General Foods, Inc. In 1995, the company was renamed Kraft Foods, Inc. (later Kraft Foods Group). In 2015, H.J. Heinz Co. purchased Kraft Foods Group and began operations as Kraft Heinz.

**East Property:** The majority of the East Property was farmed by 1937; however, its northern portion was located within the borders of a former north adjacent landfill/wastewater treatment facility (a portion of which is now a shopping center). By 1955, two dwellings were developed on its southwestern corner. By 1968, the west adjacent Packers Avenue was expanded/reconfigured and the East Property was graded/disturbed, with the exception of the residential area on its southwestern corner. In 1999, the dwellings were razed and this area was improved with baseball fields, concessions and maintenance structures, and a parking lot. It is unknown when Oscar Mayer acquired this portion of the site; however, it is currently leased to the City of Madison and used as a community park.



**West Property:** By at least 1937, this area was developed with dwellings and coal and fuel facilities, with coal storage areas and multiple fuel oil tanks; a manufacturing structure was added to the coal and fuel facility in 1960 and by the late 1960s, the dwellings were razed. By 1976, a warehouse used to house building materials and later spices and a structure of unknown occupancy were constructed to the south of the coal and fuel / manufacturing facility. The areas of the parcel where fuel oil tanks were located were remediated and used for parking purposes by 1980 (see below). In the early 2000, the Metro Bus Station and commuter parking lot were located on its northeastern area and the northwestern portion was used for storage purposes by an adjacent construction supply company. By 2008, the structures on the southeastern portion of the West Property were razed and these areas were grass covered by 2010. It is unknown when Oscar Mayer originally acquired this portion of the site; however, the northeastern and northwestern portions are currently leased to the City of Madison (Metro bus station and commuter parking lot) and Decker, respectively.

A summary of Ramboll Environ’s key observations from the available historical sources is presented in Table 5.

<b>Table 5: Summary of Key Observations from Historical Sources for the Site</b>	
<b>Historical Source</b>	<b>Key Observations Regarding Site History</b>
Sanborn Maps (1942, 1950, 1986)	<p><b>East Property:</b> Primarily not included within the mapped areas; however, the western portion is vacant land on all of the Sanborn maps reviewed.</p> <p><b>West Property:</b> Developed with dwellings and a coal and fuel facility in 1942 that contained coal storage areas and six fuel oil tanks (no capacity or designation listed); a manufacturing structure was added to the coal and fuel facility in 1960. By 1986, the dwellings are razed and a warehouse and commercial structure are developed south of the manufacturing facility.</p> <p><b>Central Property:</b> By 1942, the original portion of the facility is developed and occupied by Oscar Mayer; the facility is denoted as being constructed between 1915 and 1942. Features inside the processing plant include “tank rooms” (southeast) and a laundry (east-center). The power plant is connected to the southwestern corner of the processing plant at this time. The power plant contains a boiler house, as well as repair, black smith, carpenter, and paint storage areas; a zinc chloride tank (no capacity or designation) is depicted to its south.</p> <p>The original (central) portion of the maintenance shop is present on the southeastern portion of the Central Property by 1942 and is identified as a garage with a capacity of 50 trucks; two exterior gasoline tanks (no capacity or designation) are identified outside at its northeast corner and west-central portion. The original portion of the WWTP is present south of the processing plant, with sewage and sludge tanks (no capacity or designation).</p> <p>Also by 1942, stock pens are present southwest of the processing plant, along with railroad spurs that extend across the Central Property from the north and south towards the processing plant, and Roth Road that extends east across the northern portion of the parcel. A gasoline station with three gasoline tanks (no capacity or designation), an office, and a dwelling are denoted on the southeast corner of the Central Property, and the northern and eastern portions of the parcel are developed with an “old and vacant structure” or are labeled as a “US Government Reservation,” respectively.</p> <p>An incinerator is located west of the maintenance shop in 1948. By 1950, curing coolers are constructed onto the northern portion of the processing plant, a welding addition is constructed onto the southern portion of the maintenance shop, and a well (No. 3) is located near the WWTP sludge/sewage tanks. Also by this time, a concrete block factory and part of a skating rink are denoted on the northern portion of the Central Property.</p>



<b>Table 5: Summary of Key Observations from Historical Sources for the Site</b>	
<b>Historical Source</b>	<b>Key Observations Regarding Site History</b>
	<p>According to the 1986 Sanborn map, warehouses are constructed onto the northern portion of the processing plant in 1970 and 1971. Also by 1986, additions are constructed onto the northern end of the maintenance shop and the southern end of the WWTP. Stock pens are no longer present on the southwestern portion of the Central Property; however, a cooling tower is constructed southwest of the power plant. In addition, a fuel oil tank (no capacity or designation listed) is present at the southwest corner of the processing plant. By 1986, the gasoline station, restaurant, and dwellings are no longer identified on the southeastern portion of the Central Property.</p>
<p>Aerial Photographs (1937, 1949, 1955, 1962, 1968, 1976, 1980, 1986<sup>3</sup>, 1993, 2000, 2005, 2006, 2008, 2010)</p> <p>Satellite Imagery<sup>1</sup> (1932, 1941, 1942, 1950, 1958, 2000, 2004, 2005, 2006, 2008, 2010, 2012, 2013, 2014)</p>	<p><b>East Property:</b> Actively farmed by 1937; however, the northern portion is located within the borders of a former north adjacent landfill/wastewater treatment facility. By 1955, two dwellings are visible on the southwestern corner of the parcel. By 1968, the west adjacent Packers Avenue is expanded/reconfigured and the entire parcel appears graded/disturbed, with the exception of the residential area on its southwestern corner. By 2000, the dwellings are razed and this area is improved with baseball fields, concessions and maintenance structures, and a parking lot.</p> <p><b>West Property:</b> By 1932, coal and fuel company structures and tanks are developed, along with dwellings. By 1949, large areas of this parcel are disturbed. By 1955, the dwellings are razed. By 1976, additional commercial and industrial structures are constructed and Huxley Street extends north between the western portion of the West Property. Large areas of the parcel appear to be used for parking purposes by 1980. By 2000, the Metro Bus Station is present on the northeastern portion of the parcel, and by 2004, the area east of the bus station is paved and used for parking purposes; the northwestern portion of the West Property appears to be used for storage purposes by the adjacent construction supply company. By 2008, the former structures on the southeastern portion of the parcel are razed and the southern portions of the West Property appear to be grass covered by 2010.</p> <p><b>Central Property:</b> By 1932, Roth Street extends east across the central portion of the parcel and Packers Avenue extends north across its eastern portion. Only the processing facility is included in this aerial photograph and indicates that the southern portion of the Central Property is primarily developed with original portions of the facility; darker color disturbed areas are visible on the southeastern and south-central portions of the parcel, along with stock pens on its west-central portion. Railroad spurs extend north across the southern portion of the Central Property towards the processing plant. By 1937, dwellings, undeveloped land, and agricultural land are present on the northern, northeastern, and east-central portions of the Central Property.</p> <p>By 1949, the former northerly-located dwellings are razed and a coal mound is visible in this area; rail spurs extend south across the northern portion of the Central Property. Roth Street is reconfigured to allow additions to be constructed onto the northern portion of the processing plant. The original portion of the maintenance shop is present on the southeastern portion by this time. In addition, a structure similar to a gasoline filling station is located on the east-central portion, a concrete block factory and part of a skating rink are visible on the northeastern portion, and an incinerator is visible on its south-central portion.</p> <p>By 1955, additions are developed onto the processing plant and maintenance shop, and the area east of the maintenance shop appears paved for parking purposes. By 1962, the northeastern portion of the Central Property is paved and used as a parking lot. Although the concrete block facility is no longer visible, the northern portion of the parcel is</p>

<sup>3</sup> The 1980 and 1986 aerial photographs were of poor copy quality and were difficult to interpret.



<b>Table 5: Summary of Key Observations from Historical Sources for the Site</b>	
<b>Historical Source</b>	<b>Key Observations Regarding Site History</b>
	<p>disturbed and contains mounded coal, which is also visible east of the power plant and stock pens.</p> <p>By 1968, the east adjacent Packers Avenue is expanded/reconfigured and the structures located on the eastern portion of the Central Property (including the gasoline station and skating rink) are no longer present. Packers Avenue Service Road now extends east of the processing plant, with facility parking areas farther east.</p> <p>By 1976, additions are constructed onto the northern portion of the processing plant, and Roth Street is removed. By 2000, several structures, including the former stock pens, are demolished, and by 2004, the current water tank is present in this area, as well as several cooling towers. In 2010, a former structure located east of the power plant is razed and replaced with the current cooling building, bringing this portion of the site into its general present-day configuration.</p>
<p>Topographic Maps (1892, 1906, 1959, 1969, 1974, 1983)</p>	<p>In 1892 and 1906, the entire site is identified as undeveloped land covered in marshy areas; a roadway extends east through the southern portion of the Central Property.</p> <p><b>East Property:</b> By 1969, the East Property is identified with one dwelling, which is no longer present by 1983.</p> <p><b>West Property:</b> By 1959, several small structures (dwellings and the coal/fuel facility) are located on the West Property. By 1983, the dwellings are razed.</p> <p><b>Central Property:</b> By 1959, the ice skating rink, the original (central portion) of the processing and power plants, and the maintenance shop are denoted; Roth Street extends east across the northern portion of the Central Property and railroad spurs extend north and south towards the processing plant. Also by 1959, circular tanks (former wastewater sludge tanks) are denoted on its southern portion, as well the former stock pens and several residential/commercial structures on its southeastern corner. By 1969, Packers Avenue is reconfigured/expanded, resulting in the demolition of the structures formerly present on the southeast corner of the Central Property. In 1974, additions are developed onto the northern portion of the processing plant, atop the former Roth Street, and by 1983, the circular tanks are no longer depicted on the southern part.</p>
<p>City Directory Abstracts (1958, 1962, 1967, 1972, 1977, 1982, 1987, 1992, 1995, 1999, 2003, 2008, 2013)</p>	<p><b>East Property:</b> East Madison Little League is identified as the occupant in 2013; the site address was not listed in the remaining directories reviewed.</p> <p><b>West Property:</b> The occupants are listed as: Roth CE &amp; PA, Inc. Coal Dealers and residential tenants (1958); Roth CE &amp; PA, Inc. Building Materials and residential tenants (1962 and 1967); Roth CE &amp; PA, Inc. Building Materials and residential tenants (1972); Quality Control Spice Co., Inc. (1977); OM Ingredients Wholesale (1982); OM Ingredients Spices Wholesale (1987); and OM Ingredients, Inc. (1992).</p> <p><b>Central Property:</b> The occupants are listed as: J&amp;W D-X Gas station, Larry’s Shell Service Station, B&amp;B Texaco Station, Paramount Roller Rink, and Oscar Mayer (1958); B&amp;BDX Service Station, Bob &amp; Jerry’s Shell Station, Fina Service Station, Mom &amp; Pop’s Roller Rink, and Oscar Mayer (1962); B&amp;BDX Service Station and Oscar Mayer (1967); Oscar Mayer (1972, 1977, 1987, 1995, 2003, 2008); General Foods (1982); Oscar Mayer and Louis Rich Co. (1992); Kraft Foods, Louis Rich Co., and Oscar Mayer (1999); and Oscar Mayer, Louis Rich Co., Back to Nature Foods, and Boca Foods (2013).</p>



<b>Table 5: Summary of Key Observations from Historical Sources for the Site</b>	
<b>Historical Source</b>	<b>Key Observations Regarding Site History</b>
Previous Environmental Reports	<p><b>West Property:</b> This area was operated by the Roth Coal and Fuel Company and contained twelve 10,000-gallon fuel oil ASTs. Four of the ASTs were removed in 1975 and the remaining eight were removed in 1985.</p> <p><b>Central Property:</b> As part of manufacturing operations, Oscar Mayer used a variety of chlorinated solvents (e.g., TCE; 1,1-dichloroethylene [1,1-DCE]; methylene chloride; and tetrachloroethylene [PCE]) in a spice extraction process and for cleaning activities. Specifically, TCE, 1,1-DCE, and methylene chloride were used for spice extraction and PCE was used to clean glue pots. In addition, a former fly ash disposal area was present on the northeast corner of the parcel, beneath the current parking lot; dates of use of this disposal area were not provided.</p>
Facility Personnel and Historical Resources	<p>Oscar Mayer originally purchased the facility in 1919 when it was developed with a bankrupt farmer's cooperative meat packing company; the site had stockyards and a livestock pen at that time, ideal for meat processing. In 1947, four stories were added atop the processing plant. In 1955, the site became the location for the Oscar Mayer corporate offices. In 1981, Oscar Mayer was purchased by General Foods, which was later acquired by Philip Morris in 1985. In 1989, Phillip Morris merged General Foods with the newly acquired Kraft Foods, Inc. resulting in the companies being renamed Kraft General Foods, Inc. In 1995, the company was renamed Kraft Foods, Inc. and later Kraft Foods Group; Oscar Mayer became one of the operating divisions of this entity. In 2015, H.J. Heinz Co. purchased Kraft Foods Group and began operations as Kraft Heinz.</p>
<p><sup>1</sup> In addition to aerial photographs provided by EDR, Ramboll Environ viewed historical satellite imagery provided via Google Earth and the Madison Historical Society. Printed copies were not obtained, and imagery dates were not independently verified.</p>	

**4.2.2 Past Uses of Adjacent Properties**

Railroad tracks bordered the site to the west by 1892. By the late 1930s, a disturbed area, later identified as containing a former municipal landfill/wastewater treatment plant (the "Truax Landfill") was present north-northeast of the site. The remaining surrounding areas appeared to be developed with dwellings (north and east), agricultural land (east, south, and west), or commercial and industrial properties (west), including a feed warehouse with a gasoline tank (circa 1942). By the late 1940s, industrial structures were present south of the site and dwellings were present west of the site. By 1951, the adjacent union building, a dwelling, and a tavern were present east of the processing plant. By 1968, Packers Avenue was reconfigured/expanded, the technical college was developed south of the site, and portions of the construction supply company were developed to the west. By the mid-1970s, the adjacent bank was developed northwest of the site, the former feed lot was demolished and replaced with a parking lot, and aboveground ASTs were installed on the area adjacent to the west of the power plant. By the early 1990s, the landfill/wastewater treatment plant was razed from the area north/northeast of the site and by 2000, this eastern area was redeveloped with current shopping center.

**4.3 Review of Local and State Agency Information**

Ramboll Environ visited or otherwise contacted local governmental agencies and regulatory bodies for information relating to the site. An overview of the findings of this review is presented in Table 6.



<b>Table 6: Local Agency Information for the Site</b>	
<b>Agency Contacted / Document Reviewed</b>	<b>Information Obtained</b>
WDNR	<p>As discussed in Section 4, the site is listed with three closed ERP and three closed LUST listings. The WDNR had GIS Registry Packets available for four of the listings, which are further discussed in Section 4.5.</p> <p>The WDNR BRRTS was also searched for information regarding the closed SPILLS reported at the site. Based on the nature of the ammonia releases (to the air) and the salt and sewage/wastewater releases (into sewer/storm systems), these releases do not appear to suggest a potential for impact to the site. As such, these releases are not further discussed. The following provides a discussion of information available online for the site's reported petroleum, industrial chemical, or acid product releases.</p> <p><u>June 1984</u>: 50 gallons of mineral oil containing PCBs (over 50 parts per million [ppm]) was spilled during transformer replacement activities; the material was recovered with absorbent.</p> <p><u>March 1993</u>: 30 gallons of antifreeze was released by a broken pipe under a sidewalk; the material was recovered using absorbents.</p> <p><u>January 1994</u>: 3 gallons of hydraulic oil were released when a tank froze; the material was recovered using absorbents and oil-impacted snow was removed.</p> <p><u>July 1995</u>: 1 gallon of petroleum was released and 30 gallons of antifreeze (ethylene glycol) were spilled on two occasions; the petroleum reached the storm sewer but the antifreeze was captured in the facility's WWTP.</p> <p><u>October 1993</u>: 40 gallons of antifreeze was released from a failed heat exchanger and reached the storm sewer.</p> <p><u>October 1995</u>: 15 gallons of petroleum was spilled from a broken line on a spotter truck; the material was recovered with absorbent and disposed.</p> <p><u>August 1996</u>: 22 pounds of Freon was spilled on the second floor of the processing plant.</p> <p><u>May 1995</u>: an unreported amount of engine waste oil was spilled and may have reached the storm sewer system.</p> <p><u>October 1998</u>: 75 gallons of hydraulic oil were released onto soil when a cylinder on an elevator broke; the spilled oil/impacted soil was removed.</p> <p><u>July 1999</u>: 12 gallons of sulfuric acid were spilled; no further details listed.</p> <p><u>December 1999</u>: 12 gallons of a petroleum product was spilled due to backpressure from filling a UST; they spill was cleaned with absorbent pads.</p> <p><u>December 2000</u>: 35 gallons of base (sodium hydroxide) was released from a broken flange on a cleaning pipe; no further details are listed.</p> <p><u>July 2004</u>: 8,000 gallons of bleach (chlorinated water) was released when a gasket failed on a reservoir that was being cleaned; none of the material was recovered.</p> <p><u>August 2007</u>: 5 gallons of antifreeze and 5 gallons of ethylene glycol were spilled and may have reached the storm sewer, but did not appear to reach the Yahara River.</p> <p><u>January 2010</u>: 1,500 gallons of sodium hydroxide cleaning solution were release by the delivery service; the spill was cleaned.</p>



Table 6: Local Agency Information for the Site	
Agency Contacted / Document Reviewed	Information Obtained
	<p><u>April 2013</u>: 3,100 pounds of antifreeze (ethylene glycol) was release from a system overheat; the spill was cleaned by a hazmat team.</p> <p>Based on a review of the available information and the closed status, these spills are not considered a current environmental concern.</p>
USEPA	<p>Documentation available online with the USEPA indicated that Oscar Mayer historically manufactured insecticides (space spray, pyrethrum, and lethane) at the site in the late 1960s. These compounds were registered with the US government by Oscar Mayer.</p>

**4.4 Previous Environmental Assessments and Activities**

Based on a review of historical site documents and interviews with facility personnel, the following prior environmental assessment, sampling, or remediation activities have been conducted at the site:

- **Central Property - Chlorinated VOCs in Groundwater/ERP Listing #02-13-000895**

The Central Property was enrolled into the ERP with respect to groundwater impacts on February 22, 1984, and the presence of chlorinated compounds detected in four on-site groundwater monitoring wells was reported to the WDNR in 1986. Chemicals detected in groundwater included TCE; cis-1,2-dichloroethylene; vinyl chloride; xylene; ethyl benzene; toluene; methylene chloride; chlorobenzene; and acetone. In 1994, the WDNR was notified that the concentrations of chlorinated compounds in the wells were detected above state PALS. Oscar Mayer subsequently had the 1994 Hydrogeologic report prepared to determine the extent and possible source(s) of the impacts. Although the specific source(s) of the chlorinated compounds in groundwater were not identified, several potential sources were proposed, including historical operations and the nearby Truax and Demetral landfills. Between July 2001 and April 2005, semi-annual groundwater monitoring was performed at the site. In December 2004, Oscar Mayer switched to municipal wells for its supply of production water. Two of the production wells were abandoned and two were maintained for backup fire control. Based on the results of the groundwater monitoring and the closure of the production wells, Oscar Mayer requested closure of this incident on July 27, 2006. After the submittal of additional documentation, the WDNR approved final closure on December 7, 2006 and listed the site on their GIS Registry to document residual groundwater impacts.

A review of the WDNR GIS Registry file for this ERP listing indicated that impacts of vinyl chloride above the enforcement standards were limited to the area beneath and immediately north of the processing plant. A closure letter was issued by the WDNR, which determined that the impacts left in place were investigated and remediated to the extent practicable under site conditions. Although residual contamination remains on site, because closure has been granted, Ramboll Environ considers this matter to represent a CREC.



- **Central Property - Petroleum USTs/LUST Listing #03-13-114831**

Three USTs that were used for the storage of gasoline or diesel fuel were removed by 1997. Subsequently, an investigation was conducted to evaluate the extent of soil and groundwater impacts associated with releases from the USTs. The resulting 1998 SIR/RAP report was submitted to the WDNR in January. The WDNR approved a plan for limited soil excavation and the natural attenuation of groundwater impacts. After the case was transferred by the WDNR to the Wisconsin Department of Commerce (WDC), the newly assigned agency approved closure of this issue in March 2000, contingent upon the proper abandonment of monitoring wells, obtainment of a deed notification, and the publication of a public notice. Subsequently, the WDC rescinded its closure approval and transferred the case back to the WDNR. Additional groundwater monitoring was performed until 2005. Based on the results of the groundwater monitoring activities and the closure of the wells, Oscar Mayer requested closure of this issue on September 9, 2005. After the submittal of additional documentation, the WDNR approved final closure on May 25, 2006 and listed the Oscar Mayer site on their GIS Registry to document residual soil and groundwater impacts.

A review of the WDNR GIS Registry file for this LUST listing indicates that USTs were located outside the maintenance shop's west exterior wall, at the southern portion of the shop. According to a Site Plan, a 10,000-gallon gasoline UST (removed 1986), and 9,500-gallon gasoline and 10,000-gallon diesel fuel USTs (removed 1996) were located in this area; a new diesel fuel UST (capacity not reported) was installed in the former location of the 10,000-gallon UST in 1996. Although 1,141 tons of impacted soils were removed, residual soil contamination (described as gasoline and GROs and DROs) and BTEX was left in place. Groundwater impacts were delineated and identified in a limited area beneath the maintenance shop and outside the shop, near its west-central portion. The maintenance of an asphalt barrier near the documented residual impacts was assigned as part of the LUST closure. Although residual groundwater contamination may remain, because closure has been granted, Ramboll Environ considers this matter to represent a CREC.

- **West Property – ASTs / ERP #02-13-524010**

On March 19, 2004, KL Engineering identified petroleum impacts during a soil boring investigation performed during parking lot construction activities on the West Property and reported a release to the WDNR. As described in Section 4.2, this area was formerly operated by a coal and fuel company and contained twelve 10,000-gallon fuel oil ASTs that were removed between 1975 and 1985. Initial response activities included excavating 489 tons of petroleum-impacted soils and removing approximately 9,000 gallons of petroleum-impacted groundwater from the excavation. After further investigation, Oscar Mayer requested closure of the release on October 5, 2005. After the submittal of additional documentation, the WDNR approved final closure on February 8, 2006 and listed the Metro Bus Station/Oscar Mayer site on their GIS Registry to document residual soil and groundwater impacts.

A review of the GIS Registry file for this ERP listing did not provide additional information regarding closure activities, with the exception that petroleum impacts were identified on the northern portion of the West Property, at the southern end of the commuter parking area, in the vicinity of the former fuel oil ASTs. Although residual contamination remains on-site, because closure has been granted, Ramboll Environ considers this matter to represent a CREC.

- **West Adjacent Property - Fuel Oil ASTs / LUST #03-13-000053**

In February 1989, Oscar Mayer notified the WDNR of a release of approximately 14,000 gallons of #2 fuel oil from buried underground piping that serviced current (and historical) fuel oil ASTs



located on a leased property adjacent to the west of the processing plant (a.k.a. Hartmeyer property). Initial spill response activities included the recovery of approximately 8,000 gallons of fuel oil from the ground surface and in trenches at the Hartmeyer property. Dames and Moore submitted a report describing the removal efforts to the WDNR in 1989. An investigation was then conducted to evaluate the extent of soil and groundwater impacts associated with releases of fuel oil from the belowground piping. According to the 2006 Hartmeyer AST Closure Request and the 2007 Final Closure Request, a *Fuel Oil Spill Site Investigation and Remedial Options Report* was submitted to the WDNR in October 1991 and recommended remediation by natural attenuation for groundwater impacts. After additional groundwater monitoring, D&M requested closure of the fuel oil release in February 1996. The WDNR denied the closure request as the full extent of soil and groundwater impacts had not been adequately delineated.

In 1999, BT<sup>2</sup>, Inc. took over the investigation and monitoring of this incident. Additional soil sampling and monitoring well installation were performed in 2001. Quarterly groundwater monitoring was performed in 2002 and 2003, and semi-annual sampling was conducted from 2004 through March 2006. Three monitoring wells were advanced on the Central Property, adjacent to the railroad tracks for the collection of groundwater samples. The results did not identify groundwater contamination in these wells. Based on the results of the groundwater monitoring and the closure of the production wells, Oscar Mayer requested closure of the fuel oil release on October 24, 2006. The WDNR requested additional delineation of residual free product before closure could be granted. After performing additional free product delineation and the submittal of additional documentation, the WDNR approved final closure on January 23, 2008 and listed the Oscar Mayer/Hartmeyer AST site on their GIS Registry to document soil and groundwater impacts.

- **2015 UST Closure Report.** A 12,000-gallon diesel fuel UST was excavated and removed from an area outside the west wall of the maintenance shop in 2014. According to the 2015 UST Closure report, water was observed in the excavation; however, no sheens were visible on the water. A total of four confirmatory soil samples were collected from sidewalls of the excavation and analyzed for petroleum VOCs; soil samples were not collected from the base of the excavation, due to the presence of water, or the east sidewall of the excavation, due to the presence of the maintenance shop's foundation. VOC concentrations ranged between <0.025 ppm to 0.041 ppm, but all detections were below the WAC NR 720 RCLs Protective of Groundwater Quality values. As the petroleum VOCs concentrations were below reportable levels, Ramboll Environ considers this matter to represent a CREC.

#### 4.5 User-Provided Information

Ramboll Environ provided Kraft Heinz with a User Questionnaire (consistent with Appendix X3 of the ASTM Standard) that requested information relating to environmental liens, AULs, specialized knowledge of the property, property value diminution, chain-of-title, or any other commonly known or obvious indications of site contamination, that was not otherwise provided to Ramboll Environ. Information obtained confirmed that an AUL has been established for the West Property. The user did not provide any other information that was not otherwise obtained and reviewed by Ramboll Environ.



## 5. SITE RECONNAISSANCE

### 5.1 Methodology and Limiting Conditions

Ramboll Environ conducted a visit to the site on May 10, 2016. During the site visit, observations of the interior of the majority of the buildings and the majority of the exterior portions of the site were made to evaluate if any RECs, as defined in Chapter 2, are present. Ramboll Environ did not observe the roof of the buildings, locked ancillary structures (i.e., water well house, equipment sheds), locked and/or inaccessible areas of the buildings (i.e., raw meat processing areas, substations), or structures on the East Property, and the gravel storage yard on the West Property, as these areas are leased to other entities.

### 5.2 General Site Setting and Observations

Ramboll Environ made observations concerning all of the interior and exterior issues specified in Sections 9.4.2 through 9.4.4 of the ASTM E1527-13 Standard. The presence or absence of each issue of environmental interest or concern is noted in Table 7. Additional information regarding observed and historical items is provided in the sections following the table.

<b>Table 7: Summary of Site Reconnaissance Observations</b>		
<b>Issue</b>	<b>ASTM Section</b>	<b>Observation</b>
<b>Interior and Exterior Issues</b>		
Current use(s) of the property	9.4.2.1	See Section 3.2
Past use(s) of the property	9.4.2.2	See Section 4.2
Hazardous substances and petroleum products used, treated, stored, disposed of, or generated on the property in connection with identified present or past uses	9.4.2.3	See Section 5.2.1
Storage tanks: USTs (fill ports, vent pipes, manholes) ASTs	9.4.2.4	See Sections 5.2.2 and 5.2.3
Odors (strong, pungent, or noxious)	9.4.2.5	See Section 5.2.4
Pools of liquid, standing surface water, or sumps	9.4.2.6	See Section 3.2.3
Drums of hazardous substances or petroleum products (5-gallon, 55-gallon, or totes)	9.4.2.7	See Section 5.2.1
Hazardous substance and petroleum product containers (not necessarily in connection with identified uses)	9.4.2.8	See Section 5.2.1
Unidentified substance containers suspected of containing hazardous substances or petroleum products	9.4.2.9	Absent



<b>Table 7: Summary of Site Reconnaissance Observations</b>		
<b>Issue</b>	<b>ASTM Section</b>	<b>Observation</b>
PCBs Electrical equipment on site (e.g., transformers, capacitors) Electrical equipment known or likely to contain PCBs Hydraulic equipment on site (e.g., elevators, truck dock lifts) Hydraulic equipment known or likely to contain PCBs	9.4.2.10	See Section 5.2.5
<b>Interior Issues</b>		
Heating/cooling systems	9.4.3.1	See Table 1
Stains or corrosion on interior floors, walls, or ceilings (except for staining from water)	9.4.3.2	See Section 5.2.6
Floor drains and interior sumps	9.4.3.3	See Section 3.2
<b>Exterior Issues</b>		
Pits, ponds, or lagoons on site or adjacent properties	9.4.4.1	Absent
Stained soil or pavement	9.4.4.2	See Section 5.2.7
Stressed vegetation (from other than insufficient water)	9.4.4.3	Absent
On-site solid waste disposal; areas apparently filled or graded by non-natural causes; or mounds or depressions suggesting solid waste disposal	9.4.4.4	See Section 5.2.8
Wastewater or other liquid (including storm water) or any discharge into a drain, ditch, underground injection system or stream on or adjacent to the property	9.4.4.5	Absent
Wells (including dry wells, irrigation wells, injection wells, abandoned wells, or other wells)	9.4.4.6	See Section 5.2.9
Septic systems or cesspools	9.4.4.7	Absent
<p>Notes:</p> <p>Observations noted in this table and discussed further below are based on information obtained during the site visit and from a review of the sources summarized in Section 4.</p> <p>See the ASTM Standard for a detailed description of the issues included in each referenced ASTM section.</p> <p>Per the ASTM Standard, fluorescent light ballasts likely to contain PCBs do not need to be noted.</p> <p>N/A – Not applicable</p>		



**5.2.1 Hazardous Substances and Petroleum Products**

The primary chemicals used at the site include primarily WWTP chemicals (i.e., flocculants, polymers, coagulants), a variety of acids, and ammonia. In addition, Kraft Heinz uses maintenance-related materials, such as fuels, oils, lubricants, greases, non-chlorinated degreasers, welding gases, boiler/cooling tower/wastewater treatment chemicals, refrigerants, sanitizers, and detergents. Several dedicated drum and other storage areas are maintained at the site. These areas are used for the storage of raw materials, ancillary chemicals, and wastes. Ramboll Environ’s observations pertaining to the main drum, container (e.g., totes, roll-offs, etc.), and other storage areas at the facility are summarized in the table below.

<b>Table 8: Major Chemical and Waste Storage Areas</b>			
<b>Storage Location*</b>	<b>Description</b>	<b>Secondary Containment</b>	<b>Notes / Observations</b>
<b>Raw Materials and Ancillary Chemicals</b>			
Machine shops throughout the processing plant and in the basement and first floor of the power plant	Each machine shop contains smaller volume (retail-sized) containers of maintenance chemicals, in addition to 35- to 55-gallon naphthalene drums (in parts washers). A total of 16 smaller parts washers are located throughout the smaller machine shops in the processing and power plants.	The majority of lower-volume chemicals are stored in flammable cabinets. Approximately five of the parts washers are located atop secondary containment.	No evidence of significant releases; two solvent drums showed evidence of minor past leakage. There was no staining near floor drains; flooring appears in good condition.
Spice mixing/packaging area	Storage and production areas containing over 75 55-gallon drums of various oils, acids, and liquid smokes	No; stored atop plastic pallets	Minor evidence of releases, with some staining near a floor drain that discharges into the on-site WWTP; flooring appears in good condition
Meat storage area in the processing plant	Over 50 approximately 330-gallon sodium lactate totes	No	No evidence of a release.
Throughout the processing plant	Several 55-gallon drums and 330-gallon totes of various food-grade detergents and cleaning compounds are stored in the processing plant, with the majority of the chemicals stored on its ground floor	No; the majority of the containers are stored atop plastic boxes	Areas of incidental spillage noted, but based on their nature (food-grade cleaning compounds), the spills do not suggest a potential for impact.



<b>Table 8: Major Chemical and Waste Storage Areas</b>			
<b>Storage Location*</b>	<b>Description</b>	<b>Secondary Containment</b>	<b>Notes / Observations</b>
<b>Waste Storage Areas</b>			
Inside the used oil storage room, attached to the wastewater treatment building	Between 50–70 drums of used oil	No	One drum showed evidence of leakage and was located by a drain. The drain discharges to the on-site WWTP; flooring appears in good condition.
Inside the wastewater treatment building	Two 55-gallon drums of waste oil	No; stored atop concrete	Oily staining was noted at the base of the drums; flooring appears in good condition.
Outside the wastewater treatment building	Six 55-gallon drums of used oil at the northeast corner of the building, which are likely empty	No; stored in the concrete dock	No evidence of a release.
<b>Combined Storage Areas (Raw Material, Ancillary Chemical, and Waste)</b>			
Inside the central machine shop on the ground floor of the processing plant	A larger 55-gallon parts washer, 25-gallon drums of used oil, 33 55-gallon drums of oil, and 16 60-gallon oil containers	Used oil drums and the in-use oil containers are stored atop or within a secondary containment; the remaining containers are stored atop wooden pallets or the brick and concrete floor	Oil staining was observed inside and outside the concrete secondary containment unit housing in-use oils; stains did not appear to reach floor drains and the flooring appears in good condition.
Inside on the ground and first floors of the power plant	Approximately 15 55-gallon drums of oil, used oil, or coolant	No; stored atop wooden pallets or the concrete floor	Isolated areas of oil staining were observed in the power plant, but do not appear to reach floor drains. Isolated staining in the machine shop has reached a linear drain that discharges into the on-site WWTP; flooring appears in good condition.
Inside the maintenance shop	Approximately 25 to 30 55-gallon drums of oil, used oil, and antifreeze, an approximately 55-gallon parts washer, and a large salt mound (snow removal/deicing)		
Inside and outside of the sludge dewatering building	Various totes of polymers were observed inside the building and outside at its southeast corner	No; stored atop concrete inside or outside of the building	No evidence of a release.



<b>Table 8: Major Chemical and Waste Storage Areas</b>			
<b>Storage Location*</b>	<b>Description</b>	<b>Secondary Containment</b>	<b>Notes / Observations</b>
Interior and exterior refuse containers	Approximately 45 dumpsters, 2 compactors, and 1 cardboard bailer are located inside the facility and on the Central Property	No	No evidence of a release.
* Only major, designated storage locations included. Other storage takes place on an ad hoc basis near points of use/generation throughout the facility. Unless otherwise mentioned, this table does not include storage of retail-sized containers of household-type maintenance or cleaning chemicals, or compressed gases; the storage of these materials is not expected to pose a significant contamination concern.			

A caged storage area in the maintenance shop was empty of drums containing hazardous waste at the time of the inspection; however, universal wastes (bulbs and batteries) were observed stored in this area in cardboard boxes and 5-gallon plastic pails.

**5.2.2 Underground Storage Tanks**

According to facility personnel, there are no currently active USTs at the site. According to the WDNR, the facility is registered with five removed USTs containing fuel oil, gasoline, or diesel fuel that ranged from 250- to 10,000-gallons and were removed between 1986 and 2014.

A LUST incident (#03-13-114831) was reported at the Central Property in 1996 in the vicinity of three of these USTs. The USTs included a 10,000-gallon gasoline UST (removed 1986), and 9,500-gallon gasoline and 10,000-gallon diesel fuel USTs (removed 1996) that were located along the west wall of the maintenance shop. A discussion of the LUST incident and sampling/remedial activities conducted on site in the area of these USTs was provided in Section 4.4. According to maps provided in the WDNR GIS Registry Packet associated with this LUST incident, another diesel fuel UST was installed in the excavation formerly containing the 10,000-gallon diesel fuel UST. This was a 12,000-gallon diesel fuel UST that was removed in 2014. Soil sampling activities conducted following the removal of the UST at that time is discussed further in Section 4.4.

Two other LUSTs were reported relating to the site and included a release (#03-13-000053) that was reported in February 1989 and granted closure in January 2008 (west adjacent property) and a release (#03-13-001744) that was reported in November 1992 and granted closure in August 1993. The release reported in February 1989 was associated with a release of fuel oil from below grade piping connected to west adjacent fuel oil ASTs (Hartmeyer property) that was assigned ERP/LAST listings and is discussed further in Section 4.4. Facility personnel had no information pertaining to the LUST reported in 1992, which is likely associated with a 250-gallon fuel oil UST that was removed at that time. Additionally, there was no information available online with the WDNR regarding this release. The absence of information related to this UST/LUST is considered a significant data gap, as discussed further in Section 6.

Historical documentation revealed that, in 1942, a zinc chloride tank was located south of the power plant, two gasoline tanks were identified outside at the northeast corner and west-central portion of the maintenance shop, and three gasoline tanks were denoted on the southeast corner of the Central Property, near a former gasoline station. However, based on the available information, it is not known



if these tanks were aboveground or underground, if they were removed, or if the gasoline UST removed near the maintenance shop in 1986 correlates to the documented tank system. As a note, although no information pertaining to tanks was provided, two additional gasoline stations were documented on the Central Property of the site between 1958 and 1967. Further, an inoperable belowground automobile lift is present in the maintenance shop of the building. Belowground lifts typically utilize approximately 35-gallon below-ground oil reservoirs.

**5.2.3 Aboveground Storage Tanks**

Several ASTs are maintained at the site, as summarized in Table 9. Facility personnel reported that there are no current underground transfer lines used to convey the materials from the ASTs. As discussed in Section 4.4., fuel oil ASTs were historically located on the Hartmeyer property located adjacent to the west of the Central Property. Fuel oil from these ASTs was historically pumped, via underground piping, to provide fuel for the boilers in the power plant.

<b>Table 9: Summary of Aboveground Storage Tanks</b>				
<b>Number and Size (gal.)</b>	<b>Contents</b>	<b>Location</b>	<b>Secondary Containment</b>	<b>Notes / Observations</b>
<b>In Use</b>				
1 x 550	Gasoline	Outside, near the truck washing area located south of the WWTP	Yes (concrete dike)	No evidence of a release
1 x 2,000	Diesel fuel			
1 x 850	Flocculant	Inside the wastewater treatment plant building	No	Some staining and corrosion was observed at the base of the ASTs on the concrete floor surface. Although the concrete appeared pocked, there are no drains in the area of the ASTs.
1 x 850	Coagulant			
1 x 900	Sulfuric acid	Inside the power plant	No	Some staining and corrosion was observed at the base of the AST. Although the concrete appeared pocked, there are no drains in the area of the ASTs.
1 x 150,000	Fuel oil	Unknown (registered to the Central Property's address)	N/A	The WNDR indicates this AST is in-use. This is likely one of the two ASTs that were / are located on the west adjacent Hartmeyer property. The AST currently located on the Hartmeyer property is empty. <sup>4</sup>

<sup>4</sup> Facility personnel indicated that although the AST continues to be connected to the site via aboveground piping, it is no longer used by Kraft Heinz.



Table 9: Summary of Aboveground Storage Tanks				
Number and Size (gal.)	Contents	Location	Secondary Containment	Notes / Observations
<b>Former</b>				
1 x 500	Waste oil	Unknown (registered to the Central Property's address)	N/A	The WDNR indicates these ASTs were removed in 2001 or 2004; as noted above, the larger 250,000-gallon tank may be the former AST removed from the Hartmeyer property or the empty AST currently located on the Hartmeyer property.
1 x 250,000	Fuel oil <sup>5</sup>			
6 x 820	Diesel fuel			
4 x 10,000	Fuel oil	Unknown (registered to the West Property's address)		The WDNR indicates these ASTs were removed in 1975 or 1985. A LAST incident and ERP #02-13-524010 were reported in 2004, as further discussed in Section 4.4.
8 x 10,000				

Several process tanks containing non-petroleum products are present on site and within the buildings. A total of 250,000 pounds of ammonia are present in various vessels, storage tanks, accumulators, and condensers; ammonia storage containers are present primarily in and near the cooling building. As part of the cooking process that uses hot water, there is a chilled water tank (28,000 gallons), a hot water tank (28,000 gallons), and two brine tanks (19,060 and 18,637 gallons) located on the ground floor of the processing plant. Several gaseous tanks, containing carbon dioxide and nitrogen, are located north of the processing plant near potassium lactate, liquid salt, corn syrup, and brine ASTs. Further, there are several 400- to 800-gallon cleaning chemical ASTs located in the central cleaning area in the processing plant.

In addition, a large water tank is present southwest of the power plant. Facility personnel indicated the tank was historically used to hold process water; however, it now contains water for fire suppression purposes. Three ASTs are also located at the southeast corner of the power plant; facility personnel stated that these ASTs never contained product and have never been used.

**5.2.4 Odors**

Ramboll Environ noticed strong odors within the building from the cooking of meat products and mixing/packaging of spices. According to facility personnel, no complaints have ever been received from neighboring facilities or residents regarding odors emanating from the site, nor has the site received correspondence from regulatory agencies regarding noise or odors.

<sup>5</sup> It is unclear if this fuel oil AST correlates to the fuel oil tank depicted on the 1986 Sanborn map



### **5.2.5 Polychlorinated Biphenyls**

Facility personnel were not aware of on-site equipment that is known to contain PCBs. Several pad- and pole-mounted transformers are present throughout the site and are owned by Kraft Heinz or Madison Gas & Electric. According to facility personnel, there are 46 facility-owned transformers on site; however, their contents (PCB or non-PCB) is not known. The units that were inspected by Ramboll Environ were labeled as non-PCB. Ramboll Environ saw no indication of leaks or releases from electrical equipment observed during the site visit. Because all of the units were not inspected and some of the units were likely installed before the 1979 federal ban on the manufacture of PCBs, it is not known whether some of the transformer oils contain PCBs.

Because the majority of the buildings on the Central Property were constructed prior to the 1979 federal ban on the manufacture of PCBs, it is not known whether hydraulic oils in elevator systems, lifts, hoists, dock leveling systems, or other types of electrical equipment, such as capacitors, contain PCBs.

### **5.2.6 Stains or Corrosion on Interior Floors, Walls, or Ceilings**

As noted in Sections 5.2.1 and 5.2.3, areas of solvent, oil, and acid staining were noted throughout the buildings. The staining did not appear to be indicative of widespread releases or losses and flooring surfaces in the vicinity of the staining appeared to be in good condition, with no evidence of cracking. Floor drains are directed into the on-site WWTP.

### **5.2.7 Stained Soil or Pavement**

Ramboll Environ observed evidence of pavement staining in the paved parking and storage areas on site; facility personnel believe the staining likely resulted from minor drips from vehicles and trucks parked in these areas. Pavement in the vicinity of the observed staining appeared to be in good condition, with no evidence of cracking.

### **5.2.8 Solid Waste Disposal Areas or Areas Filled by Non-Natural Causes**

Prior to development of the site in the early 1900s, the site consisted of marshy land and as such, it appears that fill material was placed on site during development. Water well logs dating back to the 1930s documented drift, fill, and muck in site soils; no buried materials of concern (i.e., construction debris, drums, etc.) were noted on the well logs.

By the late 1930s, the northern portion of the East Property appeared to be located within the borders of a former north adjacent landfill/wastewater treatment facility. This landfill (Truax) was later identified as a potential source of chlorinated solvent groundwater impacts identified north of the processing plant during ERP assessment activities conducted on the Central Property of the site between 1984 to 2006. The eastern portion of the landfill / wastewater treatment facility was redeveloped as a shopping center. Additionally, following adjacent roadway construction activities in the 1960s, the entire parcel appeared graded/disturbed. The West Property contained a coal and fuel company by as early as 1932; large areas of this parcel were disturbed by the 1940s. The areas of the parcel where fuel oil tanks were located were remediated and used for parking purposes by 1980 (see Section 4.4).

The Central Property of the site has undergone significant changes since the 1900s. By the early 1930s, areas of coal deposition are visible on the southeastern and south-central portions of the parcel. Between the late 1940s and early 1960s, a coal mound was located on the northern portion of



the parcel. Facility personnel indicated that residual coal been buried on the southwestern portion of the site (in the former area of the stock pens).

### 5.2.9 Wells

According to facility personnel, several wells were advanced on site during the facility's history for potable and process water purposes. No wells are currently used, as all water used by Kraft Heinz has been supplied by Madison Water Utility since 2004.

Ramboll Environ obtained records from the WGNHS documenting the installation of seven wells at the site; no additional records for the site were available online. One well was installed on the East Property in 1938 and appears to have been associated with a former residential structure located in this area. According to information provided by the WGNHS and facility personnel, there appear to have been at least six wells on the Central Property. Specifically, Well 2 was installed south of the power plant in 1939 and was abandoned in 2004. Well 3 was originally installed southeast of the WWTP in 1946, with replacement wells advanced in 1998 and 2000 (no abandonment documentation provided). Well 4 was installed southwest of the maintenance shop in 1963 and was abandoned in 2007. Well 5 was installed on the northwestern corner of the Central Property in 1975 and was abandoned in 2004; a well house that was not accessible at the time of the site visit continues to be located on the northwestern corner of the Central Property. Well 6 was installed on the south-central portion of the Central Property in 1965 and appears to have been replaced with another well in 1999; this well was abandoned in 2007.

No additional well abandonment documentation was provided for review.



## 6. FINDINGS, OPINION, AND CONCLUSIONS

Ramboll Environ performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527-13 of the Kraft Heinz site located at 910 Mayer Street, 1126 and 1201 Huxley Street, 2150 Commercial Avenue, 1910 Roth Street, and 1010 North Street in Madison, Wisconsin in May 2016. The objective of the ESA was to identify RECs, as defined in the ASTM Standard. A list of key definitions presented in the ASTM Standard is provided in Chapter 8 at the end of this report. Any exceptions to, or deletions from, this practice are described in Section 6.2.

### 6.1 Findings, Opinions, and Conclusions

#### 6.1.1 Recognized Environmental Conditions

Ramboll Environ has performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527-13 of the Kraft Heinz site commonly identified as 910 Mayer Street in Madison, Wisconsin. Any exceptions to, or deletions from, this practice are described in Section 6.2 of this report. This assessment has revealed no evidence of RECs in connection with the site, except for the following:

- **Potential Impacts from the Historical Industrial Operations.** Specific operations associated with the historical industrial use of the site include:
  - Central Property Operations: The Central Property has been operated as a meat processing and packaging facility, as well as other purposes, since at least 1915. Related operations have historically involved (and currently involve) equipment and machinery which required the use of chemicals, including solvents, petroleum products, acids, and maintenance-related products. By 1942, features inside the processing plant included "tank rooms"; no additional information concerning the tank room was available. Three gasoline filling and repair stations were documented on the Central Property between 1958 and 1967, and documentation available online with the USEPA indicated that Oscar Mayer historically manufactured insecticides (space spray, pyrethrum, and lethane) at the facility in the late 1960s; no further information regarding these operations was available. As part of manufacturing operations, Oscar Mayer reportedly used chlorinated solvents (e.g., TCE; 1,1-DCE; methylene chloride; and PCE) in a spice extraction process and for cleaning activities. Soil and groundwater sampling activities were performed on site between 1986 and 2006 in specific portions of the site and were tailored to address releases from tanks or other spills. Although sampling activities identified chlorinated solvent impacts on the northern portion of the site, it was suggested that the impacts may have been the result of historical on-site operations and/or off-site sources, including nearby landfills (as discussed in the CREC discussion below, this issue has been granted closure). Historical cleaning and fabrication activities were reported to have occurred near the former stock pens and maintenance shop.
  - Central Property Below-Grade/Above-Grade Features. Historical documentation revealed that, in 1942, a zinc chloride tank was located south of the power plant, two gasoline tanks were located outside at the northeast corner and west-central portion of the maintenance shop, and three gasoline tanks were located on the southeast corner of the Central Property, near a former gasoline station. Based on the available information, it is not known if these tanks were aboveground or underground, if they were removed, or if the gasoline UST removed near the maintenance shop in 1986 correlates to one of the above documented tank systems. Further, a belowground automobile lift is present in the maintenance shop of the building.



- Central Property Coal Storage Areas: By the early 1930s, areas of coal deposition were present on the southeastern and south-central portions of the Central Property. Between the late 1940s and early 1960s, a coal mound was located on the northern portion of the Central Property. Facility personnel indicated that residual coal may have been buried on the southwestern portion of the site (in the former area of the stock pens).
- East Property Operations: Between the late 1930s and mid-1950s, the northern portion of the East Property appeared to be located within the borders of a former north adjacent landfill/wastewater treatment facility. The eastern portion of this off-site landfill/wastewater treatment area was redeveloped with a shopping center by 2000; however, the western portion of the landfill has not been redeveloped. Based on limited available information, remedial activities planned for the landfill included a clay cap, expansion of the gas extraction system, and continued groundwater monitoring for 30 years (as of the 1990s). The current status of the landfill is not available through WDNR's website, and Ramboll Environ has requested information from the WDNR.
- West Property Operations: The West Property was developed with coal and fuel facilities, including coal storage areas and multiple fuel oil tanks, from 1937 to approximately 1985. The northeastern portion of the West Property where former fuel tanks were located was remediated and has been used for parking purposes since the early 2000s.

### 6.1.2 Controlled RECs

The following CRECs were identified related with regulatory closure and do not appear to represent a current environmental concern, assuming the buildings, structures, and other institutional controls or engineered barriers remain in place.

- **Chlorinated VOCs in Groundwater.** The Central Property of the site was assigned ERP #02-13-000895 following the discovery of chlorinated compounds in four on-site groundwater wells in 1986. The chlorinated compounds detected in groundwater included TCE; cis-1,2-dichloroethylene; vinyl chloride; xylene; ethyl benzene; toluene; methylene chloride; chlorobenzene; and acetone. In 1994, the WDNR was notified that the concentrations of chlorinated compounds in the wells were detected above state PALs. Between July 2001 and April 2005, semi-annual groundwater monitoring was performed at the site. Based on the results of the sampling activities, the WDNR approved final closure of this ERP listing on December 7, 2006, which was listed on their GIS Registry to document residual groundwater impacts on site. A review of the WDNR GIS Registry file for this ERP listing indicates that vinyl chloride impacts above enforcement standards are limited to the area beneath and immediately north of the processing plant. Although residual groundwater contamination may remain, because closure has been granted, Ramboll Environ considers this matter to represent a CREC.
- **Removed Petroleum USTs.** Three USTs, a 10,000-gallon gasoline UST (removed 1986), and 9,500-gallon gasoline and 10,000-gallon diesel fuel USTs (removed 1996), were located outside the maintenance shop's west exterior wall, at the southern portion of the shop. An investigation was conducted to evaluate the extent of potential soil and groundwater impacts associated with releases from the USTs in 1997. As petroleum impacts were discovered, LUST #03-13-114831 was assigned to the site. Groundwater monitoring activities continued to be performed in this area until 2005. The WDNR approved final closure on May 25, 2006 and listed this LUST on their GIS Registry to document residual soil and groundwater impacts, including residual soil contamination (GROs, DROs, and BTEX) and petroleum-impacted groundwater beneath the maintenance shop and outside the shop, near its west-central portion. The maintenance of an



asphalt barrier near the documented residual soil impacts was assigned as part of the LUST closure. Although residual contamination remains on site, because closure has been granted, Ramboll Environ considers this matter to represent a CREC.

- **West Property ASTs.** On March 19, 2004, KL Engineering identified petroleum impacts in soil during parking lot construction activities on the northeast corner of the West Property and reported a release to the WDNR. Subsequently, a LAST incident and ERP #02-13-524010 were assigned to the site. The West Property was formerly operated by a coal and fuel facility and contained twelve 10,000-gallon fuel oil ASTs that were removed between 1975 and 1985; the release was identified in the area of these former ASTs. Initial response activities included excavating 489 tons of petroleum-impacted soils and removing approximately 9,000 gallons of petroleum-impacted groundwater from the excavation. Following additional sampling activities, the WDNR approved final closure of the ERP on February 8, 2006 and listed this ERP on their GIS Registry to document residual soil and groundwater impacts. Although residual contamination remains on-site, because closure has been granted, Ramboll Environ considers this matter to represent a CREC.
- **2014 UST Closure.** A 12,000-gallon diesel fuel UST was excavated and removed from an area outside the west wall of the maintenance shop in 2015. Water was observed in the excavation; however, no sheens were visible on the water. A total of four confirmatory soil samples were collected from sidewalls of the excavation and analyzed for petroleum VOCs; soil samples were not collected from the base of the excavation, due to the presence of water, or the east sidewall of the excavation, due to the presence of the maintenance shop's foundation. VOC concentrations ranged between <0.025 ppm to 0.041 ppm, but all detections were below the WAC NR 720 RCLs Protective of Groundwater Quality values. As the petroleum VOCs concentrations were below reportable levels, Ramboll Environ considers this matter to represent a CREC.

### 6.1.3 Significant Data Gap Issues

Ramboll Environ identified significant data gaps associated with the following issue. These significant data gaps affect Ramboll Environ's ability to assess whether the issues are CRECs or HRECs:

- **1999 ERP and 1992 LUST Listings.** Ramboll Environ has insufficient information regarding two incidents that have been closed by the WDNR: a 1999 ERP and a 1992 LUST report. The site (Oscar Mayer Lift) was enrolled into the ERP on March 4, 1999 (ERP #02-13-221826); an end date of May 13, 1999 was assigned to its closure. A LUST (#03-13-001744) was reported Oscar Mayer Foods in November 1992 in association with a release of petroleum and was granted closure in August 1993. Although both incidents are listed as closed, facility personnel had no information pertaining to these listings and no documentation was available online. Information was requested from the WDNR; however, a response has not yet been received. This lack of information represents a significant data gap. Absent further information, Ramboll Environ cannot confirm whether these issues would be classified as CRECs or HRECs.

### 6.1.4 Other Findings

In addition to RECs, CRECs, and findings associated with significant data gaps discussed above, the following additional findings related to potential contamination concerns were identified:

- **West Adjacent Property Fuel Oil Release.** In February 1989, Oscar Mayer notified the WDNR of a release of approximately 14,000 gallons of #2 fuel oil from buried underground piping that serviced current (and historical) fuel oil ASTs located on a leased property adjacent to the west of



the processing plant. Three monitoring wells were advanced on the site (i.e., Central Property) adjacent to the railroad tracks for the collection of groundwater samples. The results did not identify groundwater contamination in these wells. Although contamination remains on the west adjacent property, closure was granted by the WDNR.

- **Fill Materials.** Before site development in the early 1900s, the site and surrounding areas consisted of marshy areas that were subsequently filled during development. Water well logs for the Central Property that date back to the 1930s documented drift, fill, and muck in site soils. Following adjacent roadway construction activities in the 1960s, the entire East Property appeared graded/disturbed. In addition, a former fly ash disposal area was present on the northeast corner of the Central Property, beneath the current parking lot; dates of use of this disposal area were not provided. No further information regarding the source(s) of fill used to grade the site was available.
- **Potential Migration of Contamination from Off-site Properties.** The site is located adjacent to and in the presumed downgradient direction from two off-site properties listed on databases indicative of potential soil or groundwater contamination. The former Burke WWTP and former Truax Landfill located adjacent to the north-northeast of the site are listed with an open ERP listing and as a SHWS and a portion of the landfill/wastewater treatment facility may have extended onto the East Property. The database stated that the presence of chlorinated solvents on the northeastern portion of the Central Property may have been the result of the operation of the landfill. Based on the available information, there is no indication as to whether contamination at these adjacent properties represents a significant contamination risk to the site; however, consistent with ASTM requirements, Ramboll Environ has attempted to undertake a further review of the listings through submission of a FOIA request to the WDNR. At the time of this report, Ramboll Environ was still awaiting a reply and this is, therefore, considered a data gap. Also, one property located potentially upgradient of (but not adjacent to) the site is listed on a database indicative of potential soil and groundwater contamination. Specifically, ShopKo Store No. 034 (approximately 0.7 miles northeast of the site) is listed as a Brownfields. If contamination associated with off-site properties is found to have migrated onto the site, it is expected that any remedial activities would be the responsibility of the entity(ies) named in the listing or other designated responsible party and not Kraft Heinz.

#### 6.1.5 *De Minimis* Conditions

*De minimis* conditions are those that do not represent a material risk of harm to public health or the environment and that generally would not be the subject of enforcement action if brought to the attention of appropriate governmental agencies. Ramboll Environ identified the following *de minimis* conditions related to the site:

- **Pavement and Floor Staining.** Ramboll Environ observed areas of exterior pavement and interior flooring where oil stains were apparent. The stains were limited in areal extent, the underlying pavement/flooring appeared to be intact, and no stains appeared to reach storm water drains. As such, Ramboll Environ considers this matter to represent a *de minimis* condition.
- **Historical Agricultural, Residential, or Commercial Use of the Site.** Based on Ramboll Environ's review of historical information sources, portions of the site may historically have been used for agricultural purposes from 1932 to 1955. Additionally, areas of the site were previously improved with an ice rink, a warehouse, a commercial structure (of unknown use), and residences and associated outbuildings between the 1930s and 1999. Ramboll Environ was not provided with any specific information regarding these historical uses. It is unlikely that any



residual impact from these uses would be the subject of regulatory scrutiny in the context of a non-residential land use scenario. As such, Ramboll Environ characterizes this finding as a *de minimis* condition, provided the site use remains industrial.

## 6.2 Analysis of Data Gaps

The ASTM Standard defines a data gap as “a lack of or inability to obtain information required by the practice despite good faith efforts by the environmental professional to gather such information.” A data gap is only significant if other information obtained during the ESA, or professional experience, raises reasonable concerns and affects the ability of the environmental professional to identify whether a given issue is a REC. The ASTM Standard requires that the ESA report identify and comment on significant data gaps.

Limiting conditions and deviations to the ASTM Standard for the assessment are discussed below.

- Due to extended age of the site, it was not possible to interview representatives dating back to the site’s first developed industrial, commercial, or residential use in the mid-1910s. However, Ramboll Environ conducted interviews with representatives of Kraft Heinz with tenure at the site dating back to 2002 and reviewed other historical sources regarding former uses of the site.
- During the site visit, Ramboll Environ did not observe the roof of the buildings due to access and safety constraints. Ramboll Environ also did not observe inside locked ancillary structures (i.e., water well house, equipment sheds), locked and/or inaccessible areas of the buildings (i.e., raw meat processing areas, substations), or structures on the East Property, and the gravel storage yard on the West Property, as these areas are leased to other entities.
- Ramboll Environ has requested site-related information, but not yet received a response, from the Madison and Dane County Environmental Health Department, and the Madison Building and Fire Departments.
- Facility personnel did not have copies of certain past site investigation reports and the reports were not otherwise available from the WDNR’s website. As such, Ramboll Environ submitted a FOIA request to the WDNR; as of the date of this report, no response has been received.
- The user indicated that an AUL is associated with the West Property. As it is a user requirement, Ramboll Environ did not conduct a review of records to identify whether any additional environmental liens or AULs have been imposed on the site.

None of the exceptions, deletions, deviations, or site reconnaissance limitations noted above are considered to represent significant data gaps, with the exception of the previous site investigation reports related to ERP listing #02-13-221826 and LUST listing #03-13-001744 that were not available for Ramboll Environ’s review. The effect of this significant data gap on Ramboll Environ’s conclusions with respect to conditions at the site is discussed in Section 6.1.



## 7. REFERENCES

### 7.1 Documents

- BT<sup>2</sup>, Inc. 1998. "Site Investigation Report and Remedial Action Plan for the Oscar Mayer UST Site at 910 Mayer Avenue in Madison, Wisconsin." January.
- BT<sup>2</sup>, Inc. 1999. Closure Request for the Oscar Mayer Foods Facility at 910 Mayer Avenue in Madison, Wisconsin. December.
- BT<sup>2</sup>, Inc. 2005. Closure Request for the Oscar Mayer Foods Petroleum UST Site at 910 Mayer Avenue in Madison, Wisconsin. September.
- BT<sup>2</sup>, Inc. 2006. Final Closure Request for the Oscar Mayer Foods Madison Metro North Transfer Point (Kraft Roth Property) at 1201 Huxley Street in Madison, Wisconsin. January.
- BT<sup>2</sup>, Inc. 2006. Closure Request for the Oscar Mayer Foods Hartmeyer AST Area at 2007 Roth Street in Madison, Wisconsin. October.
- BT<sup>2</sup>, Inc. 2006. Final Case Closure Documentation for the Oscar Mayer Foods Hartmeyer AST Area at 2007 Roth Street. July.
- Conestoga-Rovers & Associates. 1994. "Phase I Hydrogeologic Investigation Report for Oscar Mayer Foods Corporation in Madison, Wisconsin." July.
- EDR. 2015. "Aerial Photography Print Service: Inquiry Number 4397239.9." August 31.
- EDR. 2015. "City Directory, Abstract, Inquiry Number 4421568.1." September 28.
- EDR. 2016. "City Directory, Abstract, Inquiry Number 4628017.1 and 4628029.1." May 25.
- EDR. 2015. "Historical Topographic Map Report, Inquiry Number 4397239.4." August 31.
- EDR. 2016. "Radius Map, Inquiry Number: 4617929.2s." May 13.
- EDR. 2015. "Sanborn® Map Report, Inquiry Number 4397239.3." September 2.
- General Engineering Company. 2015. "UST Site Assessment of Kraft Foods of Madison, 910 Mayer Avenue, in Madison, WI." January.

### 7.2 Interviews

- Oscar Garcia. The Kraft Heinz Company Project Engineer. 2016. Personal interview. May 10.
- Nicholas Habeck. The Kraft Heinz Company Engineering and Maintenance Manager. 2016. Personal interview. May 10.
- Susan Howley. The Kraft Heinz Company Safety & Environmental Program Manager. 2016. Personal interview. May 10.



## 8. ASTM DEFINITIONS

The following definitions are presented in the ASTM Standard:

**REC - Recognized Environmental Condition:**

The presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: 1) due to release to the environment; 2) under conditions indicative of a release to the environment; or 3) under conditions that pose a material threat of a future release to the environment.

**CREC - Controlled Recognized Environmental Condition:**

A recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls.

**HREC - Historical Recognized Environmental Condition:**

A past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls.

***De minimis* Condition:**

A condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

**Data Gap / Significant Data Gap:**

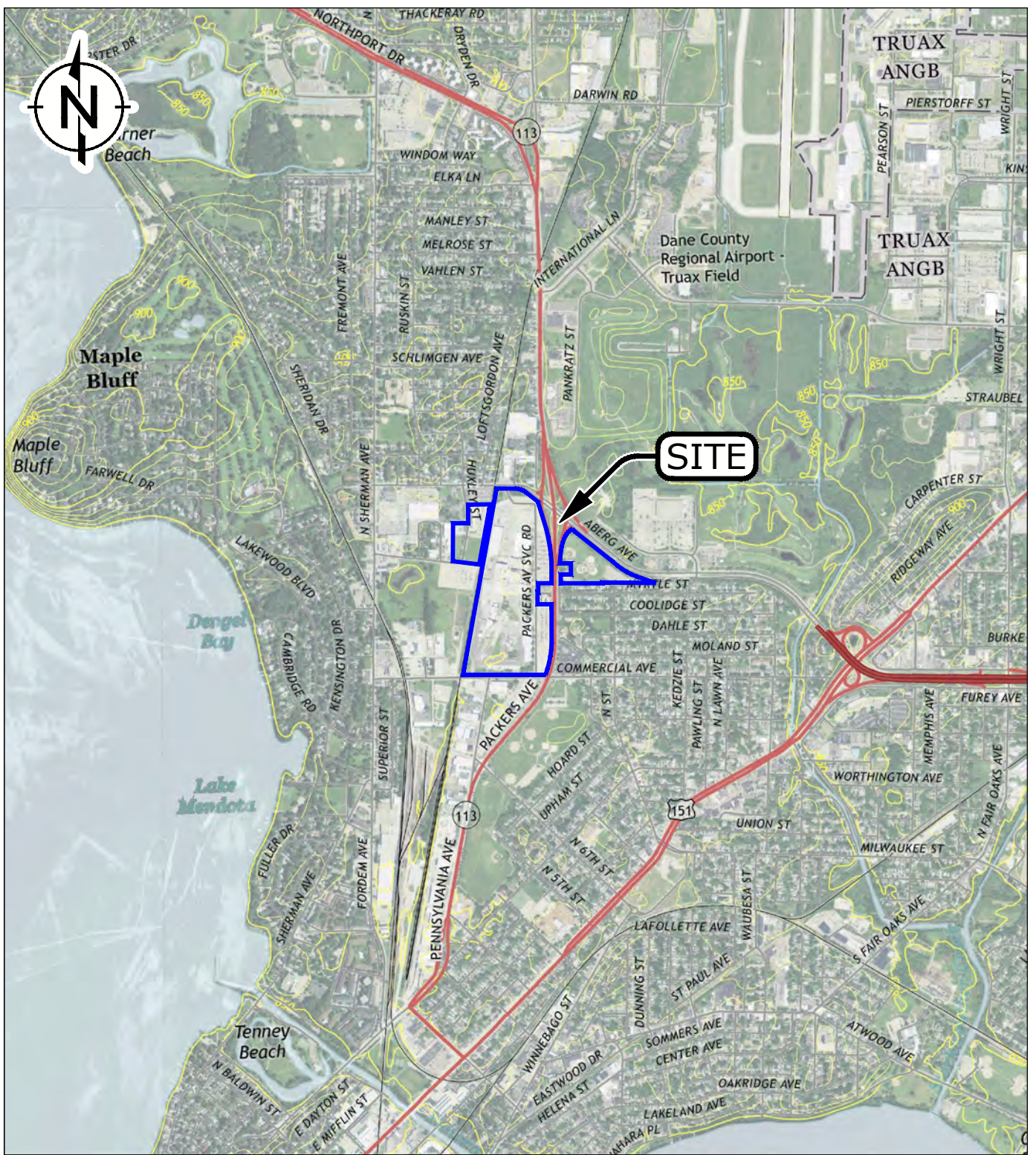
A lack of or inability to obtain information required by the practice despite good faith efforts by the environmental professional to gather such information. A data gap is significant if other information and/or professional experience raises concerns involving the data gap.

*Please note that the term "other finding" is not defined by ASTM; rather, Ramboll Environ uses the term to connote areas of contingent risk that are not clearly defined by the ASTM Standard.*



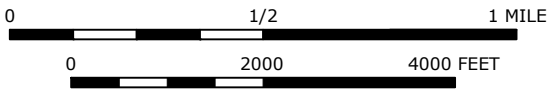
## FIGURES





**SITE**

CONTOUR INTERVAL 10 FEET



**LEGEND:**

— PROPERTY BOUNDARY (APPROXIMATE)

**SOURCE:**  
 2015 USGS 7.5 MINUTE SERIES MADISON EAST, MADISON WEST, WAUNAKEE,  
 AND DE FOREST WI TOPOGRAPHIC QUADRANGLE.  
 SITE LOCATION; N: 43.110286° W: 89.356623° WGS84



QUADRANGLE LOCATION



**SITE LOCATION MAP**  
 KRAFT HEINZ FOODS COMPANY  
 910 MAYER STREET  
 MADISON, WISCONSIN

**FIGURE**  
**1**

DRAFTED BY: APR

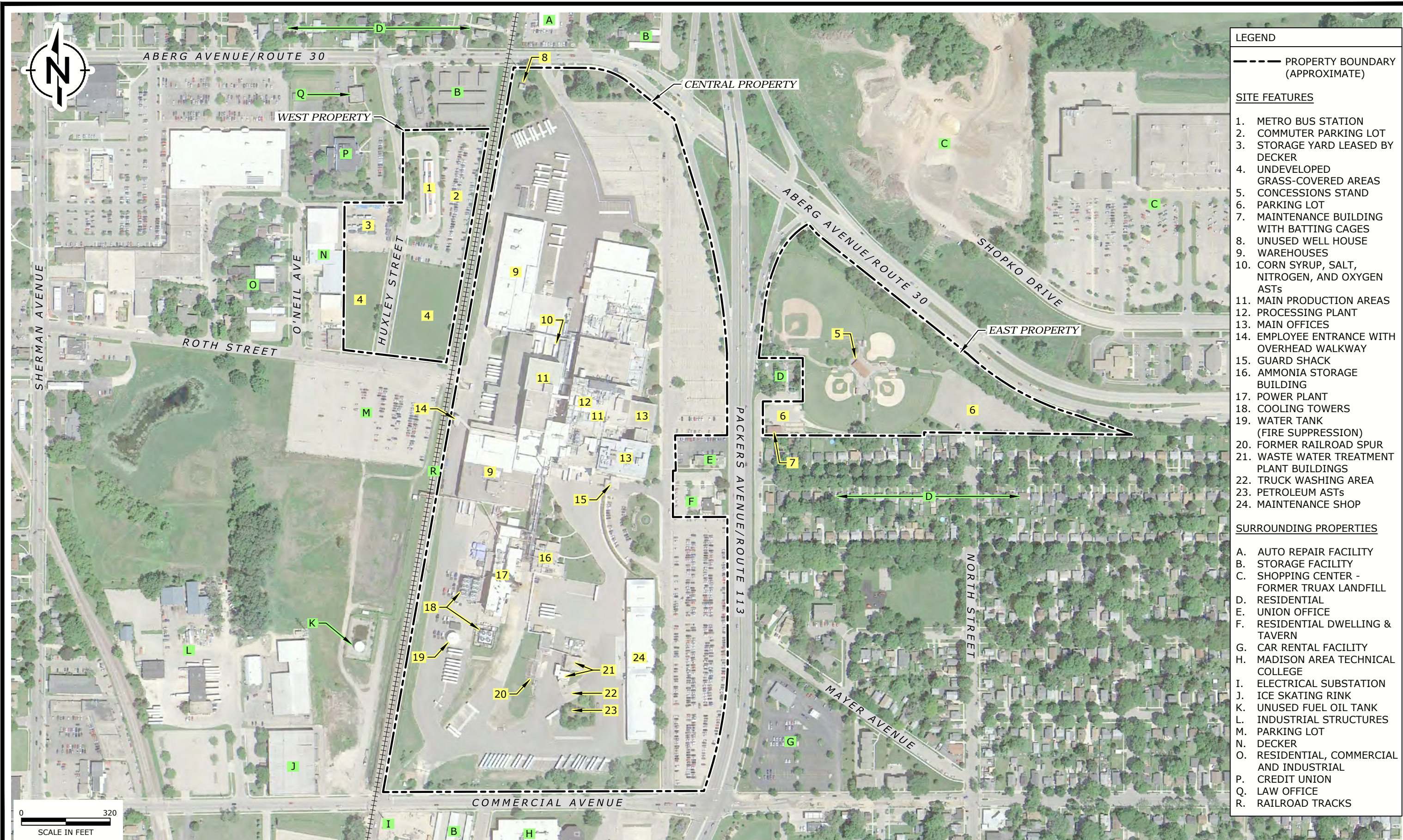
DATE: 5/25/16

21-38739A

E:\00\_CAD FILES\NO#The Kraft Heinz Company\01\_Site Location Map.dwg



L:\Loop Project Files\00\_CAD FILES\21\Kraft\_P\Project Footprint 2138739A\02\_Site\_Layout.dwg



SOURCE: AERIAL IMAGERY: GOOGLE EARTH™, IMAGE DATED 06/12/2014.

LEGEND	
	PROPERTY BOUNDARY (APPROXIMATE)
SITE FEATURES	
1.	METRO BUS STATION
2.	COMMUTER PARKING LOT
3.	STORAGE YARD LEASED BY DECKER
4.	UNDEVELOPED GRASS-COVERED AREAS
5.	CONCESSIONS STAND
6.	PARKING LOT
7.	MAINTENANCE BUILDING WITH BATTING CAGES
8.	UNUSED WELL HOUSE
9.	WAREHOUSES
10.	CORN SYRUP, SALT, NITROGEN, AND OXYGEN ASTs
11.	MAIN PRODUCTION AREAS
12.	PROCESSING PLANT
13.	MAIN OFFICES
14.	EMPLOYEE ENTRANCE WITH OVERHEAD WALKWAY
15.	GUARD SHACK
16.	AMMONIA STORAGE BUILDING
17.	POWER PLANT
18.	COOLING TOWERS
19.	WATER TANK (FIRE SUPPRESSION)
20.	FORMER RAILROAD SPUR
21.	WASTE WATER TREATMENT PLANT BUILDINGS
22.	TRUCK WASHING AREA
23.	PETROLEUM ASTs
24.	MAINTENANCE SHOP
SURROUNDING PROPERTIES	
A.	AUTO REPAIR FACILITY
B.	STORAGE FACILITY
C.	SHOPPING CENTER - FORMER TRUAX LANDFILL
D.	RESIDENTIAL
E.	UNION OFFICE
F.	RESIDENTIAL DWELLING & TAVERN
G.	CAR RENTAL FACILITY
H.	MADISON AREA TECHNICAL COLLEGE
I.	ELECTRICAL SUBSTATION
J.	ICE SKATING RINK
K.	UNUSED FUEL OIL TANK
L.	INDUSTRIAL STRUCTURES
M.	PARKING LOT
N.	DECKER
O.	RESIDENTIAL, COMMERCIAL AND INDUSTRIAL
P.	CREDIT UNION
Q.	LAW OFFICE
R.	RAILROAD TRACKS



**SITE LAYOUT**  
**KRAFT HEINZ FOODS COMPANY**  
 910 MAYER STREET  
 MADISON, WISCONSIN

**FIGURE**  
**2**

DRAFTED BY: APR/CKL      DATE: 6/8/16

21-38739A



**APPENDIX E**

**Environmental Data Resources, Inc., Radius Map™ Report**



**910 Mayer St**  
910 Mayer St  
Madison, WI 53704

Inquiry Number: 5995086.2s  
March 04, 2020

## EDR Summary Radius Map Report



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)



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*Thank you for your business.*  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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## EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

910 MAYER ST  
MADISON, WI 53704

#### COORDINATES

Latitude (North): 43.1102720 - 43° 6' 36.97"  
Longitude (West): 89.3567380 - 89° 21' 24.25"  
Universal Tranverse Mercator: Zone 16  
UTM X (Meters): 308241.0  
UTM Y (Meters): 4775541.5  
Elevation: 859 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property:	TP
Source:	U.S. Geological Survey
Target Property:	NE
Source:	U.S. Geological Survey
Target Property:	SW
Source:	U.S. Geological Survey
Target Property:	NW
Source:	U.S. Geological Survey

### AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20151011
Source:	USDA



MAPPED SITES SUMMARY

Target Property Address:  
 910 MAYER ST  
 MADISON, WI 53704

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
<a href="#">A1</a>	OSCAR MAYER	910 MAYER AVE	WI RGA LUST		TP
<a href="#">A2</a>	OSCAR MAYER FOODS	910 MAYER AVENUE	WI RGA LUST		TP
<a href="#">A3</a>	OSCAR MAYER DISTRIBU	910 MAYER AV	WI ASBESTOS, WI TIER 2		TP
<a href="#">A4</a>	OSCAR MAYER FOODS	910 MAYER AVE	WI RGA LUST		TP
<a href="#">A5</a>	OSCAR MAYER FOODS CO	910 MAYER AVE	WI RGA LUST		TP
<a href="#">A6</a>	KRAFT HEINZ FOODS CO	910 MAYER AVENUE	FINDS		TP
<a href="#">A7</a>	OSCAR MAYER INC	910 MAYER AVE	WI WRRSER		TP
<a href="#">A8</a>	KRAFT FOODS GLOBAL -	910 MAYER AVENUE	RMP		TP
<a href="#">A9</a>	KRAFT FOODS GLOBAL I	910 MAYER AVE	RCRA-LQG, WI ERP, WI SHWIMS, WI LUST, WI LAST, WI...		TP
<a href="#">A10</a>	MADISON CTY--OSCAR M	910 MAYER AVE	WI SHWIMS		TP
<a href="#">A11</a>	KRAFT FOODS, INC.	910 MAYER AVENUE	RMP		TP
<a href="#">A12</a>		910 MEYER AVE	ERNS		TP
<a href="#">A13</a>		910 MAYER AVENUE	ERNS		TP
<a href="#">A14</a>	KRAFT FOODS GROUP, I	910 MAYER AVENUE	WI TIER 2		TP
<a href="#">A15</a>		910 MAYER AVE	ERNS		TP
<a href="#">A16</a>		910 MAYER AVE	ERNS		TP
<a href="#">A17</a>		910 MAYER AVE	ERNS		TP
<a href="#">A18</a>		910 MAYER AVE	ERNS		TP
<a href="#">A19</a>		910 MEYER AVE	ERNS		TP
<a href="#">A20</a>		910 MAYER AVENUE	ERNS		TP
<a href="#">A21</a>		910 MEYER AVE	ERNS		TP
<a href="#">A22</a>	KRAFT FOODS NORTH AM	910 MAYER AVE	WI RGA LUST		TP
<a href="#">A23</a>		910 MAYER AVE	HMIRS		TP
<a href="#">A24</a>		910 MAYER AVE	ERNS		TP
<a href="#">A25</a>		910 MAYER AVE	ERNS		TP
<a href="#">A26</a>	KRAFT HEINZ COMPANY_	910 MAYER AVENUE	ERNS, RMP		TP
<a href="#">A27</a>		910 MAYER AVENUE	ERNS		TP
<a href="#">A28</a>		910 MAYER AVE	ERNS		TP
<a href="#">A29</a>		910 MAYER AVE	ERNS		TP
<a href="#">A30</a>		910 MAYER AVENUE	ERNS		TP
<a href="#">A31</a>		910 MAYER AVE	ERNS		TP
<a href="#">A32</a>	NUTRI-FEED CORP	910 MAYER AVE	WI SHWIMS		TP
<a href="#">A33</a>	KRAFT FOODS GROUP IN	910 MAYER AVE	WI UST, WI AST		TP
<a href="#">A34</a>		910 MAYER AVE	ERNS		TP
<a href="#">A35</a>		910 MAYER AVENUE	ERNS		TP
<a href="#">A36</a>	KRAFT FOODS GLOBAL,	910 MAYER AVE	WI AIRS		TP
<a href="#">A37</a>	KRAFT FOODS GLOBAL I	910 MAYER AVE	WI RGA LUST		TP
<a href="#">A38</a>	KRAFT FOODS BLDG 24	910 MAYER ST	WI ASBESTOS		TP
<a href="#">A39</a>		910 MAYER AVE	ERNS		TP



MAPPED SITES SUMMARY

Target Property Address:  
910 MAYER ST  
MADISON, WI 53704

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A40		910 MAYER AVE	ERNS		TP
A41		910 MAYER AVE	ERNS		TP
A42		910 MAYER AVENUE	ERNS		TP
A43		910 MAYER AVE	ERNS		TP
B44	CHETS CAR CARE CTR	2020 ABERG AVE	RCRA-VSQQ, WI SHWIMS, FINDS, ECHO, WI MANIFEST	Higher	48, 0.009, North
B45	CHETS CAR CARE	2020 ABERG AVE	WI AST	Higher	48, 0.009, North
C46	MADISON AREA TECH CO	2125 COMMERCIAL AVE	WI UST, WI AST	Lower	82, 0.016, South
C47	MADISON AREA TECHNIC	2125 COMMERCIAL AVE	RCRA-VSQQ, WI SHWIMS, FINDS, ECHO, WI ASBESTOS, WI...	Lower	82, 0.016, South
D48	MADISON 1948-72 (TRU	ABERG AVENUE	WI SHWS	Higher	124, 0.023, NNW
E49	MILLVANDER PROPERTY	2530 PENNSYLVANIA AV	WI ERP	Lower	172, 0.033, SSW
F50	OSCAR MAYER FOOD COR	900 PACKERS AVE	WI AST	Higher	249, 0.047, SE
G51	MADISON METRO NORTH	1201 HUXLEY ST	WI AST	Lower	253, 0.048, NNW
G52	MADISON METRO NORTH	1201 HUXLEY ST	WI ERP, WI LAST, WI CRS, WI AUL	Lower	253, 0.048, NNW
F53	B & B SUPER SERVICE	1009 PACKERS AVE	EDR Hist Auto	Higher	332, 0.063, ESE
D54	NORTHGATE CAR WASH	1901 ABERG AVE	EDR Hist Auto	Higher	352, 0.067, NNW
E55	UNION CAB COOP	2470 PENNSYLVANIA AV	WI SHWIMS, WI LUST, WI AUL, WI SPILLS	Lower	373, 0.071, SSW
E56	JOHNSON EQUIPMENT CO	2470 PENNSYLVANIA AV	WI AST	Lower	373, 0.071, SSW
E57	JOHNSON EQUIPMENT CO	2470 PENNSYLVANIA AV	WI UST	Lower	373, 0.071, SSW
E58	UNION CAB OF MADISON	2470 PENNSYLVANIA AV	WI AST	Lower	373, 0.071, SSW
H59	HERITAGE FEDERAL CRE	1212 HUXLEY ST	RCRA-VSQQ, WI SHWIMS, FINDS, ECHO, WI ASBESTOS	Lower	419, 0.079, NNW
H60	HERITAGE FEDERAL CRE	1212 HUXLEY ST	WI AST	Lower	419, 0.079, NNW
I61	UNION CAB OF MADISON	2458 PENNSYLVANIA AV	WI UST, WI AST, WI Financial Assurance	Lower	479, 0.091, SSW
I62	UNION CAB OF MADISON	2458 PENNSYLVANIA AV	WI ERP, WI SHWIMS, WI LAST, WI LUST, WI CRS, WI...	Lower	479, 0.091, SSW
J63	NATIONAL CAR RENTAL	2302 COMMERCIAL AVE	WI UST, WI AST, WI Financial Assurance, WI TIER 2	Higher	533, 0.101, SE
64	RICKS AUTO	705 RUSKIN STREET	WI AST	Lower	543, 0.103, SW
K65	DURHAM SCHOOL SERVIC	710 RUSKIN ST	WI UST, WI AST	Lower	545, 0.103, SW
K66	SCHOOL SERVICES	710 RUSKIN ST	WI LUST, WI SPILLS	Lower	545, 0.103, SW
K67	KOSCHKEE TRANSFER	718 RUSKIN ST	WI AST	Lower	547, 0.104, SW
J68	DEONS	2301 COMMERCIAL AVEN	EDR Hist Auto	Higher	561, 0.106, SSE
J69	PENLO INC DBA DEONS	2301 COMMERCIAL AVE	RCRA NonGen / NLR, ECHO	Higher	561, 0.106, SSE
J70	DEON'S	2301 COMMERCIAL AVE	WI SHWIMS, WI LUST, WI UST, WI CRS, WI AUL, WI...	Higher	561, 0.106, SSE
L71	TRAFFIC SIGNING & MA	1115 ONEIL AVE	WI SHWIMS	Lower	594, 0.112, NW
L72	TRAFFIC SIGNING AND	1115 ONEIL AVE	RCRA NonGen / NLR, FINDS, ECHO	Lower	594, 0.112, NW
I73	PLUMBING VENTURES LL	2436 PENNSYLVANIA AV	WI BROWNFIELDS, WI BRRTS	Lower	603, 0.114, SSW
I74	MCCULLOUGH PLUMBING	2436 PENNSYLVANIA AV	WI AST	Lower	603, 0.114, SSW
K75	ROUNDHOUSE PRINTING	1741 COMMERCIAL AVE	WI SHWIMS, RCRA NonGen / NLR, ECHO, WI BRRTS, WI...	Lower	618, 0.117, SW
76	HARTMEYER PROPERTY	2007 ROTH ST	WI ERP, WI LAST, WI SPILLS	Lower	743, 0.141, WNW
M77	DURHAM SCHOOL SERVIC	1800 COMMERCIAL AVE	WI UST	Lower	825, 0.156, SW
M78	OVERNIGHT TRANSPORTA	1800 COMMERCIAL AVE	WI UST	Lower	825, 0.156, SW



MAPPED SITES SUMMARY

Target Property Address:  
910 MAYER ST  
MADISON, WI 53704

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
M79	OVERNITE TRANS (FORM	1800 COMMERCIAL AVE	WI SHWIMS, WI LUST, WI CRS, WI AUL, WI SPILLS,...	Lower	825, 0.156, SW
N80	CITY VIEW VENTURE PR	1422 PACKERS AVE	WI LUST, WI BROWNFIELDS, WI BRRTS	Higher	825, 0.156, North
N81	CITY VIEW VENTURE	1422 PACKERS AVE	WI UST	Higher	825, 0.156, North
82	REYNOLDS PROPERTY	1401 PACKERS AVE	WI ERP, WI PFAS	Lower	849, 0.161, NE
83	KOSCHKEE TRANSFER FA	702 RUSKIN AVE	WI LUST, WI SPILLS	Lower	854, 0.162, WSW
O84	DONS TRANSMISSION SE	2413 PENNSYLVANIA AV	WI ERP, WI SHWIMS, WI CRS, WI AUL, WI BROWNFIELDS,...	Lower	934, 0.177, South
O85	IN & OUT CAR CARE CE	2411 PENNSYLVANIA AV	WI UST	Lower	952, 0.180, South
O86	LUNDER BROS MAINT BL	2410 PENNSYLVANIA AV	WI UST	Lower	1040, 0.197, SSW
O87	US ARMY RESERVE 139(	2410 PENNSYLVANIA AV	WI SHWIMS, WI LUST, RCRA NonGen / NLR, FINDS,...	Lower	1040, 0.197, SSW
O88	KATHYS AUTO SERVICE	2401 PENNSYLVANIA AV	WI AST	Lower	1047, 0.198, South
P89	TAFF PROPERTY	601 N SHERMAN AVE	WI LUST, WI AUL	Lower	1079, 0.204, SW
P90	LAKWOOD PLAZA	601 N SHERMAN AVE	WI UST	Lower	1079, 0.204, SW
P91	SINCLAIR / CLARKS AR	601 N SHERMAN AVE	WI UST	Lower	1079, 0.204, SW
92	KONZ WOOD PRODUCTS C	616 N PERKINS ST	WI LUST	Higher	1104, 0.209, SE
Q93	CRARY ESTATE PROPERT	2426 SUPERIOR ST	WI LUST, WI CRS, WI AUL	Lower	1122, 0.213, SW
Q94	JUNE CARARY	2426 SUPERIOR ST	WI UST	Lower	1122, 0.213, SW
R95	GARRETT CONST CO INC	2354 PENNSYLVANIA AV	WI SHWIMS, WI LUST	Lower	1204, 0.228, SSW
R96	RITE WAY WRECKER SER	2354 PENNSYLVANIA AV	WI UST	Lower	1204, 0.228, SSW
P97	SUTERS GOLD MEDAL SP	525 N SHERMAN AVE	WI UST	Lower	1216, 0.230, SW
98	PRICE CNTY ROCK CREE	ROCK CREEK RD	WI SWF/LF, WI SHWIMS	Lower	1231, 0.233, South
S99	PAULS CLASSIC CLEANE	619 N SHERMAN AVE	WI ERP, WI CRS, WI AUL, WI DRYCLEANERS	Lower	1256, 0.238, WSW
S100	PAULS CLASSIC CLEANE	619 N SHERMAN AVE	RCRA-VSQQ, FINDS, ECHO	Lower	1256, 0.238, WSW
S101	PAULS CLASSIC CLEANE	619 N SHERMAN AVE	WI SHWIMS	Lower	1256, 0.238, WSW
R102	MADISON CTY DEMETRAL	6TH ST & PACKERS AVE	WI ERP, WI SWF/LF, WI SHWIMS	Lower	1268, 0.240, South
R103	MADISON CTY (DEMETRA	6TH ST & PACKERS AVE	WI WDS	Lower	1268, 0.240, South
104	COPPS #8178	2502 SHOPKO DR	WI SHWIMS	Lower	1270, 0.241, ENE
P105	SATERNS STANDARD SER	484 N SHERMAN AVE	WI UST	Lower	1310, 0.248, WSW
P106	AMOCO OIL CO	484 N SHERMAN AVE	WI UST	Lower	1310, 0.248, WSW
P107	AMOCO OIL CO	484 N SHERMAN AVE	WI SHWIMS, WI LUST, WI CRS, WI AUL	Lower	1310, 0.248, WSW
T108	POLLOCK AUTO BODY IN	1714 ROTH ST	RCRA-VSQQ, WI SHWIMS, FINDS, ECHO, WI MANIFEST	Higher	1334, 0.253, WNW
109	KIRCH APPLIANCE INC	464 N SHERMAN AVE	RCRA-VSQQ, WI SHWIMS, FINDS, ECHO, WI MANIFEST	Lower	1361, 0.258, WSW
S110	PRESENTIN PROPERTY	524 N SHERMAN AVE	WI LUST	Lower	1381, 0.262, WSW
U111	WALSH FAMILY PRACTIC	1001 N SHERMAN AVE	WI SHWIMS	Higher	1403, 0.266, West
112	MAPLE BLUFF VIL	18 OXFORD PL	WI SHWIMS	Higher	1479, 0.280, West
T113	SPEEDWAY 4090 (FORME	1101 N SHERMAN	WI SHWIMS, WI LUST, WI CRS, WI AUL, WI SPILLS,...	Higher	1480, 0.280, WNW
T114	LAUNDRY LAND	1131 N SHERMAN AVE	WI ERP, WI SHWIMS, WI AUL, WI DRYCLEANERS	Higher	1534, 0.291, WNW
U115	SHERMAN FOOD MART	1010 N SHERMAN AVE	WI SHWIMS, WI LUST, WI CRS, WI AUL, RCRA NonGen /...	Higher	1544, 0.292, West
V116	1102 N SHERMAN AVE	1102 N SHERMAN AVE	US BROWNFIELDS	Lower	1601, 0.303, WNW
V117	GRUENBERGS SERVICE C	1102 N SHERMAN AVE	WI ERP, WI SHWIMS, WI LUST, WI CRS, WI AUL, RCRA...	Lower	1601, 0.303, WNW



MAPPED SITES SUMMARY

Target Property Address:  
 910 MAYER ST  
 MADISON, WI 53704

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
<a href="#">W118</a>	KLINKE CLEANERS	1295 N SHERMAN	WI ERP, WI SHWIMS, WI DRYCLEANERS, WI MANIFEST	Higher	1613, 0.305, NW
<a href="#">119</a>	MIKES PLACE	301 N SHERMAN AVE	WI LUST, WI CRS, WI AUL	Lower	1692, 0.320, SW
<a href="#">W120</a>	VALLEY BANK PROPERTY	ABERG & SHERMAN AVE	WI LUST	Higher	1695, 0.321, NW
<a href="#">X121</a>	NATIONAL PROMOTIONS	2310 PENNSYLVANIA AV	WI SHWIMS, RCRA NonGen / NLR, ECHO	Lower	1715, 0.325, SSW
<a href="#">122</a>	SHERMAN MIDDLE SCHOO	1610 RUSKIN STREET	WI SHWIMS, WI ASBESTOS, WI TIER 2	Higher	1745, 0.330, NNW
<a href="#">123</a>	SHOPKO STORE NO 034	2602 SHOPKO DR	WI SHWIMS, WI BROWNFIELDS, WI ASBESTOS, WI BRRTS	Lower	1747, 0.331, ENE
<a href="#">X124</a>	KNABE TOOL WORKS INC	2302 PENNSYLVANIA AV	WI SHWIMS, RCRA NonGen / NLR, FINDS, ECHO, WI...	Lower	1810, 0.343, SSW
<a href="#">125</a>	SHERMAN SCHOOL	1601 N SHERMAN AVE	WI LUST, WI WRRSER	Higher	2001, 0.379, NW
<a href="#">Y126</a>	TONYS LITHO PROPERTY	2249 SHERMAN AVE	WI LUST, WI CRS, WI AUL	Lower	2098, 0.397, SW
<a href="#">Y127</a>	FISH PROPERTY	2237 SHERMAN AVE	WI ERP, WI BROWNFIELDS, WI BRRTS	Lower	2228, 0.422, SW
<a href="#">128</a>	BOCK PROPERTY	11 CAMBRIDGE RD	WI LUST	Lower	2319, 0.439, WSW
<a href="#">129</a>	UW PRESS	114 N MURRAY ST	WI LUST	Higher	2430, 0.460, SSE
<a href="#">130</a>	ZIMMER PROPERTY	1813 SHERIDAN ST	WI LUST	Higher	2431, 0.460, NNW
<a href="#">131</a>	MADISON RAILYARD	1890 E JOHNSON	WI SHWIMS, WI LUST, RCRA NonGen / NLR, ECHO	Lower	2434, 0.461, SSW
<a href="#">132</a>	STEGE PROPERTY	82 CAMBRIDGE	WI LUST	Lower	2558, 0.484, WSW
<a href="#">133</a>	SHOMBERG PROPERTY	49 CAMBRIDGE RD	WI LUST, WI CRS, WI AUL, WI WRRSER	Lower	2569, 0.487, WSW



## EXECUTIVE SUMMARY

### TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

<u>Site</u>	<u>Database(s)</u>	<u>EPA ID</u>
OSCAR MAYER 910 MAYER AVE MADISON, WI	WI RGA LUST	N/A
OSCAR MAYER FOODS 910 MAYER AVENUE MADISON, WI	WI RGA LUST	N/A
OSCAR MAYER DISTRIBU 910 MAYER AV MADISON, WI 53707	WI ASBESTOS WI TIER 2 Facility ID: 177384	N/A
OSCAR MAYER FOODS 910 MAYER AVE MADISON, WI	WI RGA LUST	N/A
OSCAR MAYER FOODS CO 910 MAYER AVE MADISON, WI	WI RGA LUST	N/A
KRAFT HEINZ FOODS CO 910 MAYER AVENUE MADISON, WI 53704	FINDS Registry ID:: 110070286655	N/A
OSCAR MAYER INC 910 MAYER AVE MADISON, WI	WI WRRSER	N/A
KRAFT FOODS GLOBAL - 910 MAYER AVENUE MADISON, WI 53704	RMP	N/A



## EXECUTIVE SUMMARY

KRAFT FOODS GLOBAL I  
910 MAYER AVE  
MADISON, WI 53704

WID006105266

RCRA-LQG  
EPA ID:: WID006105266

WI ERP  
Status: CLOSED  
Status: OPEN  
Site Id: 1784900  
Facility ID: 113004650

WI SHWIMS  
FID: 113004650  
Status: OPERATING

WI LUST  
Facility Status: CLOSED  
Site Id: 1784900  
Facility ID: 113004650

WI LAST  
Status: OPEN  
Site ID: 1784900  
Facility ID: 113004650

WI CRS  
Site ID: 1784900  
Facility ID: 113004650

WI AUL  
Status: CLOSED  
Site Id: 1784900  
Facid: 113004650

WI SPILLS  
Site Id: 1784900  
Status: CLOSED

ICIS  
FRS ID:: 110000420205

US AIRS  
Database: US AIRS (AFS), Date of Government Version: 10/12/2016  
EPA plant ID:: 110000420205

FINDS  
Registry ID:: 110000420205

ECHO  
Registry ID: 110000420205

NY MANIFEST  
EPA ID: WID006105266

WI MANIFEST  
ACT Status: A  
ACT Status: I  
FID: 113004650  
EPA ID: WID006105266

WI TIER 2  
Facility ID: 3092  
Facility ID: 3102



## EXECUTIVE SUMMARY

Facility ID: 145271

Facility ID: 3094

Facility ID: 3095

*\*Additional key fields are available in the Map Findings section*

MADISON CTY--OSCAR M 910 MAYER AVE BLOOMING GROVE TN, WI 53714	WI SHWIMS FID: 113108490 Status: UNKNOWN	N/A
KRAFT FOODS, INC. 910 MAYER AVENUE MADISON, WI 53704	RMP	N/A
910 MEYER AVE 910 MEYER AVE MADISON, WI 53704	ERNS Incident Date Time: 1999-09-18 09:20:00 NRC Report #: 499219	N/A
910 MAYER AVENUE 910 MAYER AVENUE MADISON, WI 53704	ERNS Incident Date Time: 1995-06-07 19:45:00 NRC Report #: 295140	N/A
KRAFT FOODS GROUP, I 910 MAYER AVENUE MADISON, WI 53704	WI TIER 2 Facility ID: 9111	N/A
910 MAYER AVE 910 MAYER AVE MADISON, WI 53704	ERNS Incident Date Time: 1999-04-05 13:50:00 NRC Report #: 479291	N/A
910 MAYER AVE 910 MAYER AVE MADISON, WI 53704	ERNS Incident Date Time: 1999-03-01 12:15:00 NRC Report #: 475478	N/A
910 MAYER AVE 910 MAYER AVE MADISON, WI 53704	ERNS Incident Date Time: 2000-02-01 09:55:00 NRC Report #: 518396	N/A
910 MAYER AVE 910 MAYER AVE MADISON, WI 53704	ERNS	N/A



## EXECUTIVE SUMMARY

Incident Date Time: 2000-03-23 08:40:00  
NRC Report #: 523943

910 MEYER AVE 910 MEYER AVE MADISON, WI	ERNS Incident Date Time: 1995-10-11 07:55:00 NRC Report #: 310444	N/A
910 MAYER AVENUE 910 MAYER AVENUE MADISON, WI 53704	ERNS Incident Date Time: 2000-08-02 06:50:00 NRC Report #: 537335	N/A
910 MEYER AVE 910 MEYER AVE MADISON, WI 53707	ERNS Incident Date Time: 1995-07-22 20:30:00 NRC Report #: 301011	N/A
KRAFT FOODS NORTH AM 910 MAYER AVE MADISON, WI	WI RGA LUST	N/A
910 MAYER AVE 910 MAYER AVE MADISON, WI	HMIRS	N/A
910 MAYER AVE 910 MAYER AVE MADISON, WI 53707	ERNS Incident Date Time: 1993-03-11 06:00:00 NRC Report #: 161755	N/A
910 MAYER AVE 910 MAYER AVE MADISON, WI 53707	ERNS Incident Date Time: 1993-05-15 02:05:00 NRC Report #: 173866	N/A
KRAFT HEINZ COMPANY_ 910 MAYER AVENUE MADISON, WI 53704	ERNS Incident Date Time: 2004-06-20 22:45:00 NRC Report #: 725622  RMP	N/A
910 MAYER AVENUE 910 MAYER AVENUE MADISON, WI	ERNS	N/A



## EXECUTIVE SUMMARY

Incident Date Time: 2001-01-22 17:45:00  
NRC Report #: 554416

910 MAYER AVE  
910 MAYER AVE  
MADISON, WI 53707

ERNS  
Incident Date Time: 1993-10-13 19:50:00  
NRC Report #: 202771

N/A

910 MAYER AVE  
910 MAYER AVE  
MADISON, WI 53707

ERNS  
Incident Date Time: 1993-08-18 09:41:23  
NRC Report #: 193109

N/A

910 MAYER AVENUE  
910 MAYER AVENUE  
MADISON, WI 53704

ERNS  
Incident Date Time: 1995-06-07 19:45:00  
NRC Report #: 294634

N/A

910 MAYER AVE  
910 MAYER AVE  
MADISON, WI 53707

ERNS  
Incident Date Time: 1991-09-04 09:56:01  
NRC Report #: 86855

N/A

NUTRI-FEED CORP  
910 MAYER AVE  
BLOOMING GROVE, WI

WI SHWIMS  
FID: 113111790  
Status: CLOSED

N/A

KRAFT FOODS GROUP IN  
910 MAYER AVE  
MADISON, WI 53704

WI UST  
Fire Dept ID: 1301  
  
WI AST  
Fire Dept ID: 1301

N/A

910 MAYER AVE  
910 MAYER AVE  
MADISON, WI

ERNS  
Incident Date Time: 2012-03-07 23:15:00  
NRC Report #: 1005088

N/A

910 MAYER AVENUE  
910 MAYER AVENUE  
MADISON, WI

ERNS  
Incident Date Time: 2001-12-23 09:30:00  
NRC Report #: 589362

N/A

KRAFT FOODS GLOBAL,  
910 MAYER AVE  
MADISON, WI

WI AIRS

N/A



## EXECUTIVE SUMMARY

Permit No: 95-POY-044  
 Permit No: 00-BAP-916-OP  
 Permit No: 08-SSS-202  
 Permit No: 08-SSS-224-R1  
 Permit No: 113004650-P12  
*\*Additional key fields are available in the Map Findings section*  
 Facility ID: 113004650

KRAFT FOODS GLOBAL I 910 MAYER AVE MADISON, WI	WI RGA LUST	N/A
KRAFT FOODS BLDG 24 910 MAYER ST MADISON, WI	WI ASBESTOS	N/A
910 MAYER AVE 910 MAYER AVE MADISON, WI	ERNS Incident Date Time: 2006-12-31 05:15:00 NRC Report #: 822452	N/A
910 MAYER AVE 910 MAYER AVE MADISON, WI	ERNS Incident Date Time: 2008-08-15 10:15:00 NRC Report #: 880753	N/A
910 MAYER AVE 910 MAYER AVE MADISON, WI	ERNS Incident Date Time: 2008-05-27 17:15:00 NRC Report #: 872232	N/A
910 MAYER AVENUE 910 MAYER AVENUE MADISON, WI 53704	ERNS Incident Date Time: 2002-08-22 00:30:00 NRC Report #: 620671	N/A
910 MAYER AVE 910 MAYER AVE MADISON, WI	ERNS Incident Date Time: 2011-11-08 15:10:00 NRC Report #: 994960	N/A

### **SURROUNDING SITES: SEARCH RESULTS**

Surrounding sites were identified in the following databases.



## EXECUTIVE SUMMARY

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

### STANDARD ENVIRONMENTAL RECORDS

#### ***Federal RCRA generators list***

RCRA-VSQG: A review of the RCRA-VSQG list, as provided by EDR, and dated 12/16/2019 has revealed that there are 4 RCRA-VSQG sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b><i>CHETS CAR CARE CTR</i></b> EPA ID:: WID988605739	<b><i>2020 ABERG AVE</i></b>	<b><i>N 0 - 1/8 (0.009 mi.)</i></b>	<b><i>B44</i></b>	<b><i>18</i></b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b><i>MADISON AREA TECHNIC</i></b> EPA ID:: WID981001894	<b><i>2125 COMMERCIAL AVE</i></b>	<b><i>S 0 - 1/8 (0.016 mi.)</i></b>	<b><i>C47</i></b>	<b><i>19</i></b>
<b><i>HERITAGE FEDERAL CRE</i></b> EPA ID:: WID062062310	<b><i>1212 HUXLEY ST</i></b>	<b><i>NNW 0 - 1/8 (0.079 mi.)</i></b>	<b><i>H59</i></b>	<b><i>22</i></b>
<b><i>PAULS CLASSIC CLEANE</i></b> EPA ID:: WID981777634	<b><i>619 N SHERMAN AVE</i></b>	<b><i>WSW 1/8 - 1/4 (0.238 mi.)</i></b>	<b><i>S100</i></b>	<b><i>36</i></b>

#### ***State- and tribal - equivalent CERCLIS***

WI SHWS: A review of the WI SHWS list, as provided by EDR, and dated 11/30/1994 has revealed that there is 1 WI SHWS site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MADISON 1948-72 (TRU)	ABERG AVENUE	NNW 0 - 1/8 (0.023 mi.)	D48	20

WI ERP: A review of the WI ERP list, as provided by EDR, and dated 08/01/2019 has revealed that there are 12 WI ERP sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b><i>LAUNDRY LAND</i></b> Status: OPEN Site Id: 1519100	<b><i>1131 N SHERMAN AVE</i></b>	<b><i>WNW 1/4 - 1/2 (0.291 mi.)</i></b>	<b><i>T114</i></b>	<b><i>41</i></b>



## EXECUTIVE SUMMARY

Facility ID: 113216620

**KLINKE CLEANERS**

Status: OPEN  
 Site Id: 1387000  
 Facility ID: 113197150

**1295 N SHERMAN**

**NW 1/4 - 1/2 (0.305 mi.)**

**W118**

**43**

**Lower Elevation**

**Address**

**Direction / Distance**

**Map ID**

**Page**

**MILLVANDER PROPERTY**

Status: CLOSED  
 Site Id: 7684100  
 Facility ID: NONE

**2530 PENNSYLVANIA AV**

**SSW 0 - 1/8 (0.033 mi.)**

**E49**

**20**

**MADISON METRO NORTH**

Status: CLOSED  
 Site Id: 11093200  
 Facility ID: NONE

**1201 HUXLEY ST**

**NNW 0 - 1/8 (0.048 mi.)**

**G52**

**20**

**UNION CAB OF MADISON**

Status: CLOSED  
 Site Id: 11264300  
 Facility ID: NONE

**2458 PENNSYLVANIA AV**

**SSW 0 - 1/8 (0.091 mi.)**

**I62**

**23**

**HARTMEYER PROPERTY**

Status: OPEN  
 Site Id: 30165900  
 Facility ID: NONE

**2007 ROTH ST**

**WNW 1/8 - 1/4 (0.141 mi.)**

**76**

**28**

**REYNOLDS PROPERTY**

Status: OPEN  
 Site Id: 8744100  
 Facility ID: NONE

**1401 PACKERS AVE**

**NE 1/8 - 1/4 (0.161 mi.)**

**82**

**31**

**DONS TRANSMISSION SE**

Status: CLOSED  
 Site Id: 707200  
 Facility ID: 113154360

**2413 PENNSYLVANIA AV**

**S 1/8 - 1/4 (0.177 mi.)**

**O84**

**31**

**PAULS CLASSIC CLEANER**

Status: CLOSED  
 Site Id: 1164500  
 Facility ID: 113153150

**619 N SHERMAN AVE**

**WSW 1/8 - 1/4 (0.238 mi.)**

**S99**

**36**

**MADISON CTY DEMETRAL**

Status: CLOSED  
 Site Id: 1773500  
 Facility ID: 113189560

**6TH ST & PACKERS AVE**

**S 1/8 - 1/4 (0.240 mi.)**

**R102**

**37**

**GRUENBERGS SERVICE C**

Status: CLOSED  
 Site Id: 6808400  
 Facility ID: 113304950

**1102 N SHERMAN AVE**

**WNW 1/4 - 1/2 (0.303 mi.)**

**V117**

**42**

**FISH PROPERTY**

Status: CLOSED  
 Site Id: 26231900  
 Facility ID: NONE

**2237 SHERMAN AVE**

**SW 1/4 - 1/2 (0.422 mi.)**

**Y127**

**46**



## EXECUTIVE SUMMARY

### **State and tribal landfill and/or solid waste disposal site lists**

WI SWF/LF: A review of the WI SWF/LF list, as provided by EDR, and dated 09/23/2019 has revealed that there are 2 WI SWF/LF sites within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>PRICE CNTY ROCK CREE</b> Facility Status: UNKNOWN Activity Status: PROPOSED Facility ID: 1774000	<b>ROCK CREEK RD</b>	<b>S 1/8 - 1/4 (0.233 mi.)</b>	<b>98</b>	<b>36</b>
<b>MADISON CTY DEMETRAL</b> Facility Status: CLOSED Activity Status: INACTIVE Facility ID: 1773500	<b>6TH ST &amp; PACKERS AVE</b>	<b>S 1/8 - 1/4 (0.240 mi.)</b>	<b>R102</b>	<b>37</b>

WI WDS: A review of the WI WDS list, as provided by EDR, and dated 07/22/2013 has revealed that there is 1 WI WDS site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MADISON CTY (DEMETRA) Max Site Id: 1773500 Facility Id: 113189560	6TH ST & PACKERS AVE	S 1/8 - 1/4 (0.240 mi.)	R103	37

WI SHWIMS: A review of the WI SHWIMS list, as provided by EDR, and dated 12/18/2019 has revealed that there are 31 WI SHWIMS sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>CHETS CAR CARE CTR</b> FID: 113223660 Status: OPERATING	<b>2020 ABERG AVE</b>	<b>N 0 - 1/8 (0.009 mi.)</b>	<b>B44</b>	<b>18</b>
<b>DEON'S</b> FID: 113312760 Status: OPERATING	<b>2301 COMMERCIAL AVE</b>	<b>SSE 0 - 1/8 (0.106 mi.)</b>	<b>J70</b>	<b>26</b>
<b>POLLOCK AUTO BODY IN</b> FID: 113186590 Status: OPERATING	<b>1714 ROTH ST</b>	<b>WNW 1/4 - 1/2 (0.253 mi.)</b>	<b>T108</b>	<b>39</b>
WALSH FAMILY PRACTIC FID: 113301650 Status: OPERATING	1001 N SHERMAN AVE	W 1/4 - 1/2 (0.266 mi.)	U111	40
MAPLE BLUFF VIL FID: 113117840 Status: OPERATING	18 OXFORD PL	W 1/4 - 1/2 (0.280 mi.)	112	40
<b>SPEEDWAY 4090 (FORME)</b> FID: 113249620 Status: OPERATING	<b>1101 N SHERMAN</b>	<b>WNW 1/4 - 1/2 (0.280 mi.)</b>	<b>T113</b>	<b>40</b>
<b>LAUNDRY LAND</b>	<b>1131 N SHERMAN AVE</b>	<b>WNW 1/4 - 1/2 (0.291 mi.)</b>	<b>T114</b>	<b>41</b>



## EXECUTIVE SUMMARY

FID: 113216620				
Status: UNKNOWN				
<b>SHERMAN FOOD MART</b>	<b>1010 N SHERMAN AVE</b>	<b>W 1/4 - 1/2 (0.292 mi.)</b>	<b>U115</b>	<b>42</b>
FID: 113314630				
Status: UNKNOWN				
<b>KLINKE CLEANERS</b>	<b>1295 N SHERMAN</b>	<b>NW 1/4 - 1/2 (0.305 mi.)</b>	<b>W118</b>	<b>43</b>
FID: 113197150				
Status: OPERATING				
<b>SHERMAN MIDDLE SCHOO</b>	<b>1610 RUSKIN STREET</b>	<b>NNW 1/4 - 1/2 (0.330 mi.)</b>	<b>122</b>	<b>44</b>
FID: 113423090				
Status: OPERATING				
<b>Lower Elevation</b>	<b>Address</b>	<b>Direction / Distance</b>	<b>Map ID</b>	<b>Page</b>
<b>MADISON AREA TECHNIC</b>	<b>2125 COMMERCIAL AVE</b>	<b>S 0 - 1/8 (0.016 mi.)</b>	<b>C47</b>	<b>19</b>
FID: 113327170				
FID: 113128620				
Status: MOVED				
Status: OPERATING				
<b>UNION CAB COOP</b>	<b>2470 PENNSYLVANIA AV</b>	<b>SSW 0 - 1/8 (0.071 mi.)</b>	<b>E55</b>	<b>21</b>
FID: 113398450				
Status: OPERATING				
<b>HERITAGE FEDERAL CRE</b>	<b>1212 HUXLEY ST</b>	<b>NNW 0 - 1/8 (0.079 mi.)</b>	<b>H59</b>	<b>22</b>
FID: 113184720				
Status: OPERATING				
<b>UNION CAB OF MADISON</b>	<b>2458 PENNSYLVANIA AV</b>	<b>SSW 0 - 1/8 (0.091 mi.)</b>	<b>I62</b>	<b>23</b>
FID: 113398340				
Status: OPERATING				
<b>TRAFFIC SIGNING &amp; MA</b>	<b>1115 ONEIL AVE</b>	<b>NW 0 - 1/8 (0.112 mi.)</b>	<b>L71</b>	<b>27</b>
FID: 113161950				
Status: MOVED				
<b>ROUNDHOUSE PRINTING</b>	<b>1741 COMMERCIAL AVE</b>	<b>SW 0 - 1/8 (0.117 mi.)</b>	<b>K75</b>	<b>28</b>
FID: 113287460				
Status: MOVED				
<b>OVERNITE TRANS (FORM</b>	<b>1800 COMMERCIAL AVE</b>	<b>SW 1/8 - 1/4 (0.156 mi.)</b>	<b>M79</b>	<b>29</b>
FID: 113219370				
Status: CLOSED				
<b>DONS TRANSMISSION SE</b>	<b>2413 PENNSYLVANIA AV</b>	<b>S 1/8 - 1/4 (0.177 mi.)</b>	<b>O84</b>	<b>31</b>
FID: 113154360				
Status: CLOSED				
<b>US ARMY RESERVE 139(</b>	<b>2410 PENNSYLVANIA AV</b>	<b>SSW 1/8 - 1/4 (0.197 mi.)</b>	<b>O87</b>	<b>33</b>
FID: 125028090				
Status: UNKNOWN				
<b>GARRETT CONST CO INC</b>	<b>2354 PENNSYLVANIA AV</b>	<b>SSW 1/8 - 1/4 (0.228 mi.)</b>	<b>R95</b>	<b>35</b>
FID: 113119270				
Status: CLOSED				
<b>PRICE CNTY ROCK CREE</b>	<b>ROCK CREEK RD</b>	<b>S 1/8 - 1/4 (0.233 mi.)</b>	<b>98</b>	<b>36</b>
FID: 851036670				
Status: UNKNOWN				
<b>PAULS CLASSIC CLEANE</b>	<b>619 N SHERMAN AVE</b>	<b>WSW 1/8 - 1/4 (0.238 mi.)</b>	<b>S101</b>	<b>37</b>



## EXECUTIVE SUMMARY

FID: 113153150 Status: OPERATING				
<b>MADISON CTY DEMETRAL</b>	<b>6TH ST &amp; PACKERS AVE</b>	<b>S 1/8 - 1/4 (0.240 mi.)</b>	<b>R102</b>	<b>37</b>
FID: 113189560 Status: CLOSED				
COPPS #8178	2502 SHOPKO DR	ENE 1/8 - 1/4 (0.241 mi.)	104	38
FID: 113377000 Status: OPERATING				
<b>AMOCO OIL CO</b>	<b>484 N SHERMAN AVE</b>	<b>WSW 1/8 - 1/4 (0.248 mi.)</b>	<b>P107</b>	<b>38</b>
FID: 113235760 Status: UNKNOWN				
<b>KIRCH APPLIANCE INC</b>	<b>464 N SHERMAN AVE</b>	<b>WSW 1/4 - 1/2 (0.258 mi.)</b>	<b>109</b>	<b>39</b>
FID: 113272940 Status: OPERATING				
<b>GRUENBERGS SERVICE C</b>	<b>1102 N SHERMAN AVE</b>	<b>WNW 1/4 - 1/2 (0.303 mi.)</b>	<b>V117</b>	<b>42</b>
FID: 113304950 Status: UNKNOWN				
<b>NATIONAL PROMOTIONS</b>	<b>2310 PENNSYLVANIA AV</b>	<b>SSW 1/4 - 1/2 (0.325 mi.)</b>	<b>X121</b>	<b>44</b>
FID: 113247420 Status: CLOSED				
<b>SHOPKO STORE NO 034</b>	<b>2602 SHOPKO DR</b>	<b>ENE 1/4 - 1/2 (0.331 mi.)</b>	<b>123</b>	<b>45</b>
FID: 113264800 Status: OPERATING				
<b>KNABE TOOL WORKS INC</b>	<b>2302 PENNSYLVANIA AV</b>	<b>SSW 1/4 - 1/2 (0.343 mi.)</b>	<b>X124</b>	<b>45</b>
FID: 113272500 Status: OPERATING				
<b>MADISON RAILYARD</b>	<b>1890 E JOHNSON</b>	<b>SSW 1/4 - 1/2 (0.461 mi.)</b>	<b>131</b>	<b>47</b>
FID: 113284490 Status: OPERATING				

### **State and tribal leaking storage tank lists**

WI LUST: A review of the WI LUST list, as provided by EDR, and dated 08/01/2019 has revealed that there are 27 WI LUST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>DEON'S</b> Facility Status: CLOSED Site Id: 5913000 Facility ID: 113312760	<b>2301 COMMERCIAL AVE</b>	<b>SSE 0 - 1/8 (0.106 mi.)</b>	<b>J70</b>	<b>26</b>
<b>CITY VIEW VENTURE PR</b> Facility Status: CLOSED Site Id: 7214500 Facility ID: NONE	<b>1422 PACKERS AVE</b>	<b>N 1/8 - 1/4 (0.156 mi.)</b>	<b>N80</b>	<b>30</b>
<b>KONZ WOOD PRODUCTS C</b> Facility Status: CLOSED Site Id: 3786400	<b>616 N PERKINS ST</b>	<b>SE 1/8 - 1/4 (0.209 mi.)</b>	<b>92</b>	<b>34</b>



## EXECUTIVE SUMMARY

Facility ID: 445128200				
<b>SPEEDWAY 4090 (FORME)</b>	<b>1101 N SHERMAN</b>	<b>WNW 1/4 - 1/2 (0.280 mi.)</b>	<b>T113</b>	<b>40</b>
Facility Status: CLOSED				
Site Id: 2648200				
Facility ID: 113249620				
<b>SHERMAN FOOD MART</b>	<b>1010 N SHERMAN AVE</b>	<b>W 1/4 - 1/2 (0.292 mi.)</b>	<b>U115</b>	<b>42</b>
Facility Status: CLOSED				
Site Id: 4018300				
Facility ID: 113314630				
<b>VALLEY BANK PROPERTY</b>	<b>ABERG &amp; SHERMAN AVE</b>	<b>NW 1/4 - 1/2 (0.321 mi.)</b>	<b>W120</b>	<b>44</b>
Facility Status: CLOSED				
Site Id: 3347000				
Facility ID: NONE				
<b>SHERMAN SCHOOL</b>	<b>1601 N SHERMAN AVE</b>	<b>NW 1/4 - 1/2 (0.379 mi.)</b>	<b>125</b>	<b>46</b>
Facility Status: CLOSED				
Site Id: 3776700				
Facility ID: NONE				
<b>UW PRESS</b>	<b>114 N MURRAY ST</b>	<b>SSE 1/4 - 1/2 (0.460 mi.)</b>	<b>129</b>	<b>47</b>
Facility Status: CLOSED				
Site Id: 3476400				
Facility ID: NONE				
<b>ZIMMER PROPERTY</b>	<b>1813 SHERIDAN ST</b>	<b>NNW 1/4 - 1/2 (0.460 mi.)</b>	<b>130</b>	<b>47</b>
Facility Status: CLOSED				
Site Id: 7410800				
Facility ID: NONE				
<b>Lower Elevation</b>	<b>Address</b>	<b>Direction / Distance</b>	<b>Map ID</b>	<b>Page</b>
<b>UNION CAB COOP</b>	<b>2470 PENNSYLVANIA AV</b>	<b>SSW 0 - 1/8 (0.071 mi.)</b>	<b>E55</b>	<b>21</b>
Facility Status: CLOSED				
Site Id: 3842400				
Facility ID: 113398450				
<b>UNION CAB OF MADISON</b>	<b>2458 PENNSYLVANIA AV</b>	<b>SSW 0 - 1/8 (0.091 mi.)</b>	<b>I62</b>	<b>23</b>
Facility Status: CLOSED				
Site Id: 11264300				
Facility ID: NONE				
<b>SCHOOL SERVICES</b>	<b>710 RUSKIN ST</b>	<b>SW 0 - 1/8 (0.103 mi.)</b>	<b>K66</b>	<b>25</b>
Facility Status: CLOSED				
Site Id: 11171800				
Facility ID: NONE				
<b>OVERNITE TRANS (FORM)</b>	<b>1800 COMMERCIAL AVE</b>	<b>SW 1/8 - 1/4 (0.156 mi.)</b>	<b>M79</b>	<b>29</b>
Facility Status: CLOSED				
Site Id: 2000200				
Facility ID: 113219370				
<b>KOSCHKE TRANSFER FA</b>	<b>702 RUSKIN AVE</b>	<b>WSW 1/8 - 1/4 (0.162 mi.)</b>	<b>83</b>	<b>31</b>
Facility Status: CLOSED				
Site Id: 9187500				
Facility ID: NONE				
<b>US ARMY RESERVE 139(</b>	<b>2410 PENNSYLVANIA AV</b>	<b>SSW 1/8 - 1/4 (0.197 mi.)</b>	<b>O87</b>	<b>33</b>
Facility Status: CLOSED				
Site Id: 1566000				



## EXECUTIVE SUMMARY

Facility ID: 125028090				
<b>TAFF PROPERTY</b>	<b>601 N SHERMAN AVE</b>	<b>SW 1/8 - 1/4 (0.204 mi.)</b>	<b>P89</b>	<b>33</b>
Facility Status: CLOSED				
Site Id: 4455900				
Facility ID: NONE				
<b>GRARY ESTATE PROPERT</b>	<b>2426 SUPERIOR ST</b>	<b>SW 1/8 - 1/4 (0.213 mi.)</b>	<b>Q93</b>	<b>34</b>
Facility Status: CLOSED				
Site Id: 4554900				
Facility ID: NONE				
<b>GARRETT CONST CO INC</b>	<b>2354 PENNSYLVANIA AV</b>	<b>SSW 1/8 - 1/4 (0.228 mi.)</b>	<b>R95</b>	<b>35</b>
Facility Status: CLOSED				
Site Id: 1829200				
Facility ID: 113119270				
<b>AMOCO OIL CO</b>	<b>484 N SHERMAN AVE</b>	<b>WSW 1/8 - 1/4 (0.248 mi.)</b>	<b>P107</b>	<b>38</b>
Facility Status: CLOSED				
Site Id: 2389400				
Facility ID: 113235760				
<b>PRESENTIN PROPERTY</b>	<b>524 N SHERMAN AVE</b>	<b>WSW 1/4 - 1/2 (0.262 mi.)</b>	<b>S110</b>	<b>40</b>
Facility Status: CLOSED				
Site Id: 6923200				
Facility ID: NONE				
<b>GRUENBERGS SERVICE C</b>	<b>1102 N SHERMAN AVE</b>	<b>WNW 1/4 - 1/2 (0.303 mi.)</b>	<b>V117</b>	<b>42</b>
Facility Status: CLOSED				
Site Id: 6808400				
Facility ID: 113304950				
<b>MIKES PLACE</b>	<b>301 N SHERMAN AVE</b>	<b>SW 1/4 - 1/2 (0.320 mi.)</b>	<b>119</b>	<b>43</b>
Facility Status: CLOSED				
Site Id: 4622300				
Facility ID: NONE				
<b>TONYS LITHO PROPERTY</b>	<b>2249 SHERMAN AVE</b>	<b>SW 1/4 - 1/2 (0.397 mi.)</b>	<b>Y126</b>	<b>46</b>
Facility Status: CLOSED				
Site Id: 26539900				
Facility ID: NONE				
<b>BOCK PROPERTY</b>	<b>11 CAMBRIDGE RD</b>	<b>WSW 1/4 - 1/2 (0.439 mi.)</b>	<b>128</b>	<b>47</b>
Facility Status: CLOSED				
Site Id: 4011600				
Facility ID: NONE				
<b>MADISON RAILYARD</b>	<b>1890 E JOHNSON</b>	<b>SSW 1/4 - 1/2 (0.461 mi.)</b>	<b>131</b>	<b>47</b>
Facility Status: CLOSED				
Site Id: 3330000				
Facility ID: 113187140				
<b>STEGE PROPERTY</b>	<b>82 CAMBRIDGE</b>	<b>WSW 1/4 - 1/2 (0.484 mi.)</b>	<b>132</b>	<b>48</b>
Facility Status: CLOSED				
Site Id: 4013000				
Facility ID: NONE				
<b>SHOMBERG PROPERTY</b>	<b>49 CAMBRIDGE RD</b>	<b>WSW 1/4 - 1/2 (0.487 mi.)</b>	<b>133</b>	<b>48</b>
Facility Status: CLOSED				
Site Id: 3980000				
Facility ID: NONE				



## EXECUTIVE SUMMARY

WI LAST: A review of the WI LAST list, as provided by EDR, and dated 08/01/2019 has revealed that there are 3 WI LAST sites within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>MADISON METRO NORTH</b> Status: CLOSED Site ID: 11093200 Facility ID: NONE	<b>1201 HUXLEY ST</b>	<b>NNW 0 - 1/8 (0.048 mi.)</b>	<b>G52</b>	<b>20</b>
<b>UNION CAB OF MADISON</b> Status: CLOSED Site ID: 11264300 Facility ID: NONE	<b>2458 PENNSYLVANIA AV</b>	<b>SSW 0 - 1/8 (0.091 mi.)</b>	<b>I62</b>	<b>23</b>
<b>HARTMEYER PROPERTY</b> Status: OPEN Site ID: 30165900 Facility ID: NONE	<b>2007 ROTH ST</b>	<b>WNW 1/8 - 1/4 (0.141 mi.)</b>	<b>76</b>	<b>28</b>

### **State and tribal registered storage tank lists**

WI UST: A review of the WI UST list, as provided by EDR, and dated 12/09/2019 has revealed that there are 18 WI UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>NATIONAL CAR RENTAL</b> Fire Dept ID: 1301	<b>2302 COMMERCIAL AVE</b>	<b>SE 0 - 1/8 (0.101 mi.)</b>	<b>J63</b>	<b>24</b>
<b>DEON'S</b> Fire Dept ID: 1301	<b>2301 COMMERCIAL AVE</b>	<b>SSE 0 - 1/8 (0.106 mi.)</b>	<b>J70</b>	<b>26</b>
<b>CITY VIEW VENTURE</b> Fire Dept ID: 1301	<b>1422 PACKERS AVE</b>	<b>N 1/8 - 1/4 (0.156 mi.)</b>	<b>N81</b>	<b>30</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>MADISON AREA TECH CO</b> Fire Dept ID: 1301	<b>2125 COMMERCIAL AVE</b>	<b>S 0 - 1/8 (0.016 mi.)</b>	<b>C46</b>	<b>19</b>
<b>JOHNSON EQUIPMENT CO</b> Fire Dept ID: 1301	<b>2470 PENNSYLVANIA AV</b>	<b>SSW 0 - 1/8 (0.071 mi.)</b>	<b>E57</b>	<b>22</b>
<b>UNION CAB OF MADISON</b> Fire Dept ID: 1301	<b>2458 PENNSYLVANIA AV</b>	<b>SSW 0 - 1/8 (0.091 mi.)</b>	<b>I61</b>	<b>23</b>
<b>DURHAM SCHOOL SERVIC</b> Fire Dept ID: 1301	<b>710 RUSKIN ST</b>	<b>SW 0 - 1/8 (0.103 mi.)</b>	<b>K65</b>	<b>25</b>
<b>DURHAM SCHOOL SERVIC</b> Fire Dept ID: 1301	<b>1800 COMMERCIAL AVE</b>	<b>SW 1/8 - 1/4 (0.156 mi.)</b>	<b>M77</b>	<b>29</b>
<b>OVERNIGHT TRANSPORTA</b> Fire Dept ID: 1301	<b>1800 COMMERCIAL AVE</b>	<b>SW 1/8 - 1/4 (0.156 mi.)</b>	<b>M78</b>	<b>29</b>
<b>IN &amp; OUT CAR CARE CE</b> Fire Dept ID: 1301	<b>2411 PENNSYLVANIA AV</b>	<b>S 1/8 - 1/4 (0.180 mi.)</b>	<b>O85</b>	<b>32</b>
<b>LUNDER BROS MAINT BL</b>	<b>2410 PENNSYLVANIA AV</b>	<b>SSW 1/8 - 1/4 (0.197 mi.)</b>	<b>O86</b>	<b>32</b>



## EXECUTIVE SUMMARY

Fire Dept ID: 1301					
LAKEWOOD PLAZA	601 N SHERMAN AVE	SW 1/8 - 1/4 (0.204 mi.)	P90	34	
Fire Dept ID: 1304					
SINCLAIR / CLARKS AR	601 N SHERMAN AVE	SW 1/8 - 1/4 (0.204 mi.)	P91	34	
Fire Dept ID: 1304					
JUNE CARARY	2426 SUPERIOR ST	SW 1/8 - 1/4 (0.213 mi.)	Q94	35	
Fire Dept ID: 1301					
RITE WAY WRECKER SER	2354 PENNSYLVANIA AV	SSW 1/8 - 1/4 (0.228 mi.)	R96	35	
Fire Dept ID: 1301					
SUTERS GOLD MEDAL SP	525 N SHERMAN AVE	SW 1/8 - 1/4 (0.230 mi.)	P97	35	
Fire Dept ID: 1301					
SATERNS STANDARD SER	484 N SHERMAN AVE	WSW 1/8 - 1/4 (0.248 mi.)	P105	38	
Fire Dept ID: 1301					
AMOCO OIL CO	484 N SHERMAN AVE	WSW 1/8 - 1/4 (0.248 mi.)	P106	38	
Fire Dept ID: 1301					

WI AST: A review of the WI AST list, as provided by EDR, and dated 12/09/2019 has revealed that there are 14 WI AST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CHETS CAR CARE	2020 ABERG AVE	N 0 - 1/8 (0.009 mi.)	B45	19
Fire Dept ID: 1301				
OSCAR MAYER FOOD COR	900 PACKERS AVE	SE 0 - 1/8 (0.047 mi.)	F50	20
Fire Dept ID: 1301				
<b>NATIONAL CAR RENTAL</b>	<b>2302 COMMERCIAL AVE</b>	<b>SE 0 - 1/8 (0.101 mi.)</b>	<b>J63</b>	<b>24</b>
Fire Dept ID: 1301				
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>MADISON AREA TECH CO</b>	<b>2125 COMMERCIAL AVE</b>	<b>S 0 - 1/8 (0.016 mi.)</b>	<b>C46</b>	<b>19</b>
Fire Dept ID: 1301				
MADISON METRO NORTH	1201 HUXLEY ST	NNW 0 - 1/8 (0.048 mi.)	G51	20
Fire Dept ID: 1301				
JOHNSON EQUIPMENT CO	2470 PENNSYLVANIA AV	SSW 0 - 1/8 (0.071 mi.)	E56	22
Fire Dept ID: 1301				
UNION CAB OF MADISON	2470 PENNSYLVANIA AV	SSW 0 - 1/8 (0.071 mi.)	E58	22
Fire Dept ID: 1301				
HERITAGE FEDERAL CRE	1212 HUXLEY ST	NNW 0 - 1/8 (0.079 mi.)	H60	23
Fire Dept ID: 1301				
<b>UNION CAB OF MADISON</b>	<b>2458 PENNSYLVANIA AV</b>	<b>SSW 0 - 1/8 (0.091 mi.)</b>	<b>I61</b>	<b>23</b>
Fire Dept ID: 1301				
RICKS AUTO	705 RUSKIN STREET	SW 0 - 1/8 (0.103 mi.)	64	24
Fire Dept ID: 1301				
<b>DURHAM SCHOOL SERVIC</b>	<b>710 RUSKIN ST</b>	<b>SW 0 - 1/8 (0.103 mi.)</b>	<b>K65</b>	<b>25</b>
Fire Dept ID: 1301				
KOSCHKEE TRANSFER	718 RUSKIN ST	SW 0 - 1/8 (0.104 mi.)	K67	25



## EXECUTIVE SUMMARY

Fire Dept ID: 1301				
MCCULLOUGH PLUMBING	2436 PENNSYLVANIA AV	SSW 0 - 1/8 (0.114 mi.)	I74	28
Fire Dept ID: 1301				
KATHYS AUTO SERVICE	2401 PENNSYLVANIA AV	S 1/8 - 1/4 (0.198 mi.)	O88	33
Fire Dept ID: 1301				

### **State and tribal institutional control / engineering control registries**

WI AUL: A review of the WI AUL list, as provided by EDR, and dated 08/01/2019 has revealed that there are 17 WI AUL sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>DEON'S</b> Status: CLOSED Site Id: 5913000 Facid: 113312760	<b>2301 COMMERCIAL AVE</b>	<b>SSE 0 - 1/8 (0.106 mi.)</b>	<b>J70</b>	<b>26</b>
<b>SPEEDWAY 4090 (FORME)</b> Status: CLOSED Site Id: 2648200 Facid: 113249620	<b>1101 N SHERMAN</b>	<b>WNW 1/4 - 1/2 (0.280 mi.)</b>	<b>T113</b>	<b>40</b>
<b>LAUNDRY LAND</b> Status: OPEN Site Id: 1519100 Facid: 113216620	<b>1131 N SHERMAN AVE</b>	<b>WNW 1/4 - 1/2 (0.291 mi.)</b>	<b>T114</b>	<b>41</b>
<b>SHERMAN FOOD MART</b> Status: CLOSED Site Id: 4018300 Facid: 113314630	<b>1010 N SHERMAN AVE</b>	<b>W 1/4 - 1/2 (0.292 mi.)</b>	<b>U115</b>	<b>42</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>MADISON METRO NORTH</b> Status: CLOSED Site Id: 11093200 Facid: NONE	<b>1201 HUXLEY ST</b>	<b>NNW 0 - 1/8 (0.048 mi.)</b>	<b>G52</b>	<b>20</b>
<b>UNION CAB COOP</b> Status: CLOSED Site Id: 3842400 Facid: 113398450	<b>2470 PENNSYLVANIA AV</b>	<b>SSW 0 - 1/8 (0.071 mi.)</b>	<b>E55</b>	<b>21</b>
<b>UNION CAB OF MADISON</b> Status: CLOSED Site Id: 11264300 Facid: NONE	<b>2458 PENNSYLVANIA AV</b>	<b>SSW 0 - 1/8 (0.091 mi.)</b>	<b>I62</b>	<b>23</b>
<b>OVERNITE TRANS (FORM)</b> Status: CLOSED Site Id: 2000200 Facid: 113219370	<b>1800 COMMERCIAL AVE</b>	<b>SW 1/8 - 1/4 (0.156 mi.)</b>	<b>M79</b>	<b>29</b>
<b>DONS TRANSMISSION SE</b>	<b>2413 PENNSYLVANIA AV</b>	<b>S 1/8 - 1/4 (0.177 mi.)</b>	<b>O84</b>	<b>31</b>



## EXECUTIVE SUMMARY

Status: CLOSED  
 Site Id: 707200  
 Facid: 113154360

<b>TAFF PROPERTY</b> Status: CLOSED Site Id: 4455900 Facid: NONE	<b>601 N SHERMAN AVE</b>	<b>SW 1/8 - 1/4 (0.204 mi.)</b>	<b>P89</b>	<b>33</b>
<b>CRARY ESTATE PROPERT</b> Status: CLOSED Site Id: 4554900 Facid: NONE	<b>2426 SUPERIOR ST</b>	<b>SW 1/8 - 1/4 (0.213 mi.)</b>	<b>Q93</b>	<b>34</b>
<b>PAULS CLASSIC CLEANE</b> Status: CLOSED Site Id: 1164500 Facid: 113153150	<b>619 N SHERMAN AVE</b>	<b>WSW 1/8 - 1/4 (0.238 mi.)</b>	<b>S99</b>	<b>36</b>
<b>AMOCO OIL CO</b> Status: CLOSED Site Id: 2389400 Facid: 113235760	<b>484 N SHERMAN AVE</b>	<b>WSW 1/8 - 1/4 (0.248 mi.)</b>	<b>P107</b>	<b>38</b>
<b>GRUENBERGS SERVICE C</b> Status: CLOSED Site Id: 6808400 Facid: 113304950	<b>1102 N SHERMAN AVE</b>	<b>WNW 1/4 - 1/2 (0.303 mi.)</b>	<b>V117</b>	<b>42</b>
<b>MIKES PLACE</b> Status: CLOSED Site Id: 4622300 Facid: NONE	<b>301 N SHERMAN AVE</b>	<b>SW 1/4 - 1/2 (0.320 mi.)</b>	<b>119</b>	<b>43</b>
<b>TONYS LITHO PROPERTY</b> Status: CLOSED Site Id: 26539900 Facid: NONE	<b>2249 SHERMAN AVE</b>	<b>SW 1/4 - 1/2 (0.397 mi.)</b>	<b>Y126</b>	<b>46</b>
<b>SHOMBERG PROPERTY</b> Status: CLOSED Site Id: 3980000 Facid: NONE	<b>49 CAMBRIDGE RD</b>	<b>WSW 1/4 - 1/2 (0.487 mi.)</b>	<b>133</b>	<b>48</b>

### State and tribal Brownfields sites

WI BROWNFIELDS: A review of the WI BROWNFIELDS list, as provided by EDR, has revealed that there are 5 WI BROWNFIELDS sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>CITY VIEW VENTURE PR</b> Database: BROWNFIELDS, Date of Government Version: 08/01/2019 Status: GEN PROP Site Id: 7214500	<b>1422 PACKERS AVE</b>	<b>N 1/8 - 1/4 (0.156 mi.)</b>	<b>N80</b>	<b>30</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>PLUMBING VENTURES LL</b> Database: BROWNFIELDS, Date of Government Version: 08/01/2019	<b>2436 PENNSYLVANIA AV</b>	<b>SSW 0 - 1/8 (0.114 mi.)</b>	<b>I73</b>	<b>27</b>







## EXECUTIVE SUMMARY

property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>PENLO INC DBA DEONS</b> EPA ID:: WIR000040212	<b>2301 COMMERCIAL AVE</b>	<b>SSE 0 - 1/8 (0.106 mi.)</b>	<b>J69</b>	<b>26</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>TRAFFIC SIGNING AND</b> EPA ID:: WID982218406	<b>1115 ONEIL AVE</b>	<b>NW 0 - 1/8 (0.112 mi.)</b>	<b>L72</b>	<b>27</b>
<b>ROUNDHOUSE PRINTING</b> EPA ID:: WIR000020149	<b>1741 COMMERCIAL AVE</b>	<b>SW 0 - 1/8 (0.117 mi.)</b>	<b>K75</b>	<b>28</b>
<b>OVERNITE TRANS (FORM</b> EPA ID:: WID988602959	<b>1800 COMMERCIAL AVE</b>	<b>SW 1/8 - 1/4 (0.156 mi.)</b>	<b>M79</b>	<b>29</b>
<b>DONS TRANSMISSION SE</b> EPA ID:: WID020473997	<b>2413 PENNSYLVANIA AV</b>	<b>S 1/8 - 1/4 (0.177 mi.)</b>	<b>O84</b>	<b>31</b>
<b>US ARMY RESERVE 139(</b> EPA ID:: WI4210090284	<b>2410 PENNSYLVANIA AV</b>	<b>SSW 1/8 - 1/4 (0.197 mi.)</b>	<b>O87</b>	<b>33</b>

WI DRYCLEANERS: A review of the WI DRYCLEANERS list, as provided by EDR, and dated 12/06/2019 has revealed that there is 1 WI DRYCLEANERS site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>PAULS CLASSIC CLEANE</b> Status: CLOSED	<b>619 N SHERMAN AVE</b>	<b>WSW 1/8 - 1/4 (0.238 mi.)</b>	<b>S99</b>	<b>36</b>

WI MANIFEST: A review of the WI MANIFEST list, as provided by EDR, and dated 05/31/2018 has revealed that there are 4 WI MANIFEST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>CHETS CAR CARE CTR</b> ACT Status: I ACT Status: A FID: 113223660 EPA ID: WID988605739	<b>2020 ABERG AVE</b>	<b>N 0 - 1/8 (0.009 mi.)</b>	<b>B44</b>	<b>18</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>MADISON AREA TECHNIC</b> ACT Status: I ACT Status: A FID: 113128620 EPA ID: WID981001894	<b>2125 COMMERCIAL AVE</b>	<b>S 0 - 1/8 (0.016 mi.)</b>	<b>C47</b>	<b>19</b>
<b>ROUNDHOUSE PRINTING</b> ACT Status: I FID: 113287460	<b>1741 COMMERCIAL AVE</b>	<b>SW 0 - 1/8 (0.117 mi.)</b>	<b>K75</b>	<b>28</b>



## EXECUTIVE SUMMARY

EPA ID: WIR000020149

**US ARMY RESERVE 139(**

ACT Status: I

ACT Status: A

FID: 125028090

EPA ID: WI4210090284

**2410 PENNSYLVANIA AV**

**SSW 1/8 - 1/4 (0.197 mi.) O87**

**33**

### EDR HIGH RISK HISTORICAL RECORDS

#### ***EDR Exclusive Records***

EDR Hist Auto: A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 3 EDR Hist Auto sites within approximately 0.125 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
B & B SUPER SERVICE	1009 PACKERS AVE	ESE 0 - 1/8 (0.063 mi.)	F53	21
NORTHGATE CAR WASH	1901 ABERG AVE	NNW 0 - 1/8 (0.067 mi.)	D54	21
DEONS	2301 COMMERCIAL AVEN	SSE 0 - 1/8 (0.106 mi.)	J68	25



Count: 1 records.









ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
MADISON	S109978791	KELLER PROPERTY	1902 TENNYSON & 3802 PACKERS	53704	WILUST, WI LAST, WI BROWNFIELDS, WI BRRTS



# OVERVIEW MAP - 5995086.2S



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  National Priority List Sites
-  Dept. Defense Sites
-  Indian Reservations BIA
-  Power transmission lines
-  Special Flood Hazard Area (1%)
-  0.2% Annual Chance Flood Hazard
-  National Wetland Inventory

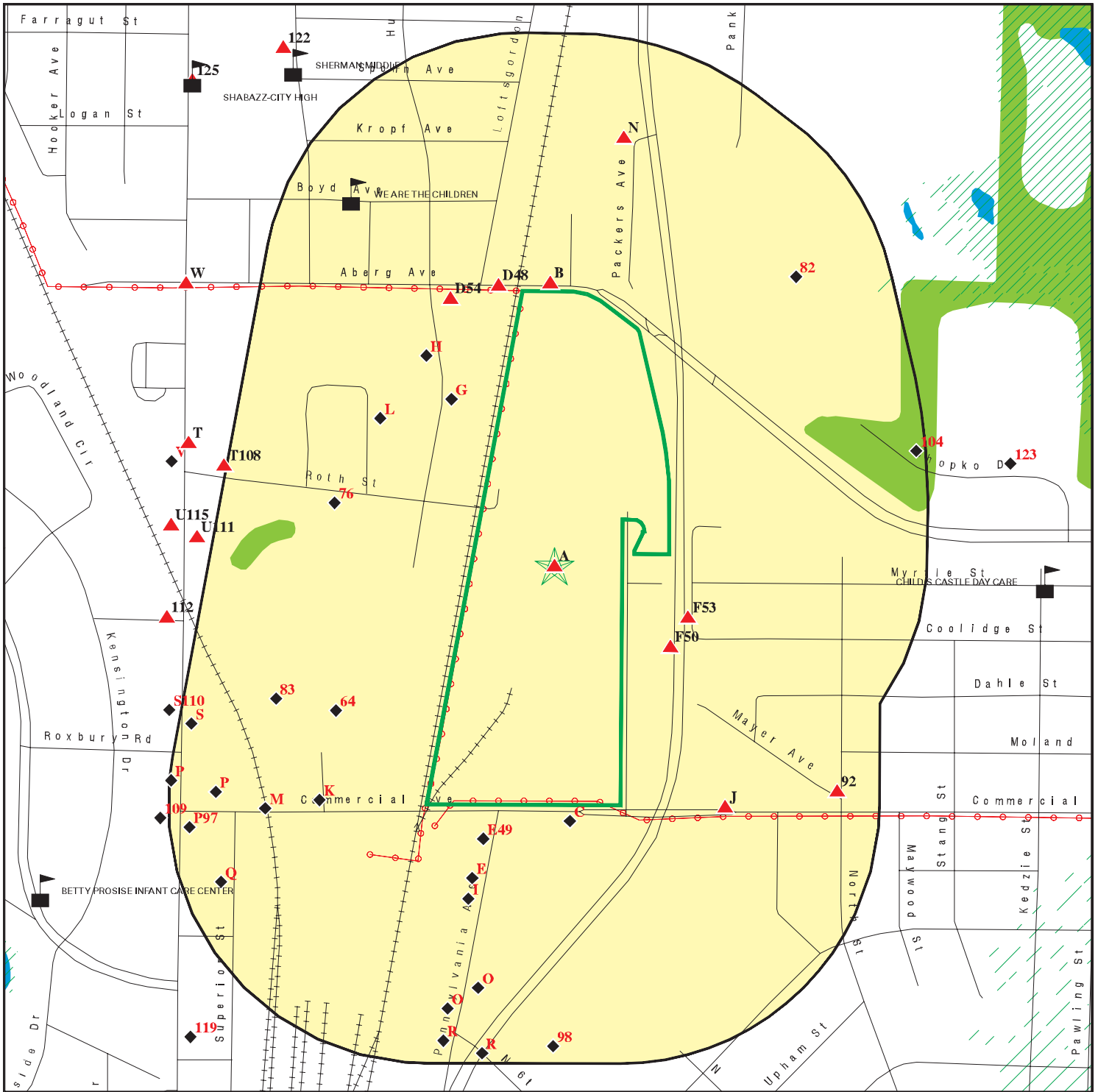
This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.













SITE NAME: 910 Mayer St  
 ADDRESS: 910 Mayer St  
 Madison WI 53704  
 LAT/LONG: 43.110272 / 89.356738

CLIENT: Sigma Env. Services, Inc.  
 CONTACT: Mairead Rauch  
 INQUIRY #: 5995086.2s  
 DATE: March 04, 2020 2:41 pm



# DETAIL MAP - 5995086.2S



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  Sensitive Receptors
-  National Priority List Sites
-  Dept. Defense Sites
-  Indian Reservations BIA
-  Power transmission lines
-  Special Flood Hazard Area (1%)
-  0.2% Annual Chance Flood Hazard
-  National Wetland Inventory

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 910 Mayer St  
 ADDRESS: 910 Mayer St  
 Madison WI 53704  
 LAT/LONG: 43.110272 / 89.356738

CLIENT: Sigma Env. Services, Inc.  
 CONTACT: Mairead Rauch  
 INQUIRY #: 5995086.2s  
 DATE: March 04, 2020 2:43 pm



## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b>STANDARD ENVIRONMENTAL RECORDS</b>								
<b><i>Federal NPL site list</i></b>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
<b><i>Federal Delisted NPL site list</i></b>								
Delisted NPL	1.000		0	0	0	0	NR	0
<b><i>Federal CERCLIS list</i></b>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<b><i>Federal CERCLIS NFRAP site list</i></b>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA CORRACTS facilities list</i></b>								
CORRACTS	1.000		0	0	0	0	NR	0
<b><i>Federal RCRA non-CORRACTS TSD facilities list</i></b>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA generators list</i></b>								
RCRA-LQG	0.250	1	0	0	NR	NR	NR	1
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		3	1	NR	NR	NR	4
<b><i>Federal institutional controls / engineering controls registries</i></b>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
<b><i>Federal ERNS list</i></b>								
ERNS	TP	24	NR	NR	NR	NR	NR	24
<b><i>State- and tribal - equivalent CERCLIS</i></b>								
WI SHWS	1.000		1	0	0	0	NR	1
WI ERP	0.500	1	3	5	4	NR	NR	13
<b><i>State and tribal landfill and/or solid waste disposal site lists</i></b>								
WI SWF/LF	0.500		0	2	0	NR	NR	2
WI WDS	0.500		0	1	0	NR	NR	1
WI SHWIMS	0.500	3	8	9	14	NR	NR	34
<b><i>State and tribal leaking storage tank lists</i></b>								
WI LUST	0.500	1	4	9	14	NR	NR	28



## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
WI LAST	0.500	1	2	1	0	NR	NR	4
INDIAN LUST	0.500		0	0	0	NR	NR	0
<b>State and tribal registered storage tank lists</b>								
FEMA UST	0.250		0	0	NR	NR	NR	0
WI UST	0.250	1	6	12	NR	NR	NR	19
WI AST	0.250	1	13	1	NR	NR	NR	15
INDIAN UST	0.250		0	0	NR	NR	NR	0
<b>State and tribal institutional control / engineering control registries</b>								
WI CRS	TP	1	NR	NR	NR	NR	NR	1
WI AUL	0.500	1	4	6	7	NR	NR	18
<b>State and tribal voluntary cleanup sites</b>								
WI VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
<b>State and tribal Brownfields sites</b>								
WI BEAP	0.500		0	0	0	NR	NR	0
WI BROWNFIELDS	0.500		1	2	2	NR	NR	5
<b>ADDITIONAL ENVIRONMENTAL RECORDS</b>								
<b>Local Brownfield lists</b>								
US BROWNFIELDS	0.500		0	0	1	NR	NR	1
<b>Local Lists of Landfill / Solid Waste Disposal Sites</b>								
WI SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Hazardous waste / Contaminated Sites</b>								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
WI CDL	TP		NR	NR	NR	NR	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
WI PFAS	0.500		0	1	0	NR	NR	1
<b>Local Land Records</b>								
WI LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
<b>Records of Emergency Release Reports</b>								
HMIRS	TP	1	NR	NR	NR	NR	NR	1
WI SPILLS	TP	1	NR	NR	NR	NR	NR	1
WI AGSPILLS	TP		NR	NR	NR	NR	NR	0



## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
WI SPILLS 90	TP		NR	NR	NR	NR	NR	0
WI SPILLS 80	TP		NR	NR	NR	NR	NR	0
<b>Other Ascertainable Records</b>								
RCRA NonGen / NLR	0.250		3	3	NR	NR	NR	6
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP	3	NR	NR	NR	NR	NR	3
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP	1	NR	NR	NR	NR	NR	1
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP	1	NR	NR	NR	NR	NR	1
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP	2	NR	NR	NR	NR	NR	2
ECHO	TP	1	NR	NR	NR	NR	NR	1
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
WI AIRS	TP	1	NR	NR	NR	NR	NR	1
WI ASBESTOS	TP	2	NR	NR	NR	NR	NR	2
WI BRRTS	TP		NR	NR	NR	NR	NR	0
WI COAL ASH	0.500		0	0	0	NR	NR	0
WI DRYCLEANERS	0.250		0	1	NR	NR	NR	1
WI Financial Assurance	TP		NR	NR	NR	NR	NR	0
WI LEAD	TP		NR	NR	NR	NR	NR	0
WI MANIFEST	0.250	1	3	1	NR	NR	NR	5
NY MANIFEST	0.250	1	0	0	NR	NR	NR	1
WI NPDES	TP		NR	NR	NR	NR	NR	0



## MAP FINDINGS SUMMARY

<u>Database</u>	<u>Search Distance (Miles)</u>	<u>Target Property</u>	<u>&lt; 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>&gt; 1</u>	<u>Total Plotted</u>
WI TIER 2	TP	3	NR	NR	NR	NR	NR	3
WI WRRSER	TP	1	NR	NR	NR	NR	NR	1
MINES MRDS	TP		NR	NR	NR	NR	NR	0
<b><u>EDR HIGH RISK HISTORICAL RECORDS</u></b>								
<b><i>EDR Exclusive Records</i></b>								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		3	NR	NR	NR	NR	3
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
<b><u>EDR RECOVERED GOVERNMENT ARCHIVES</u></b>								
<b><i>Exclusive Recovered Govt. Archives</i></b>								
WI RGA LF	TP		NR	NR	NR	NR	NR	0
WI RGA LUST	TP	6	NR	NR	NR	NR	NR	6
- Totals --		60	54	55	42	0	0	211

**NOTES:**

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database



MAP FINDINGS

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
--------	-----------	----------	-----------	------	-------------	---------------	---------------

A1				OSCAR MAYER 910 MAYER AVE MADISON, WI	WI RGA LUST	S116076163	N/A
----	--	--	--	---	-------------	------------	-----

Actual: 859 ft.  
[Click here for full text details](#)

A2				OSCAR MAYER FOODS 910 MAYER AVENUE MADISON, WI	WI RGA LUST	S116076162	N/A
----	--	--	--	--	-------------	------------	-----

Actual: 859 ft.  
[Click here for full text details](#)

A3				OSCAR MAYER DISTRIBUTION BLDG 910 MAYER AV MADISON, WI 53707	WI ASBESTOS WI TIER 2	S117422205	N/A
----	--	--	--	--	--------------------------	------------	-----

Actual: 859 ft.  
[Click here for full text details](#)  
 WI TIER 2  
 Facility ID 177384

A4				OSCAR MAYER FOODS 910 MAYER AVE MADISON, WI	WI RGA LUST	S116076161	N/A
----	--	--	--	---	-------------	------------	-----

Actual: 859 ft.  
[Click here for full text details](#)

A5				OSCAR MAYER FOODS CORP 910 MAYER AVE MADISON, WI	WI RGA LUST	S116076160	N/A
----	--	--	--	--	-------------	------------	-----

Actual: 859 ft.  
[Click here for full text details](#)

A6				KRAFT HEINZ FOODS COMPANY 910 MAYER AVENUE MADISON, WI 53704	FINDS	1024382321	N/A
----	--	--	--	--	-------	------------	-----

Actual: 859 ft.  
[Click here for full text details](#)  
 FINDS  
 Registry ID: 110070286655



MAP FINDINGS

Map ID Direction Distance Elevation		Database(s)	EDR ID Number EPA ID Number
--	--	-------------	--------------------------------

<b>A7</b>	<b>OSCAR MAYER INC</b>	<b>WI WRRSER</b>	<b>S101676848</b>
Target Property	<b>910 MAYER AVE MADISON, WI</b>		<b>N/A</b>

Actual: [Click here for full text details](#)  
859 ft.

---

<b>A8</b>	<b>KRAFT FOODS GLOBAL - MADISON</b>	<b>RMP</b>	<b>1012126105</b>
Target Property	<b>910 MAYER AVENUE MADISON, WI 53704</b>		<b>N/A</b>

Actual: [Click here for full text details](#)  
859 ft.

---

<b>A9</b>	<b>KRAFT FOODS GLOBAL INC - MADISON</b>	<b>RCRA-LQG</b>	<b>1000210980</b>
Target Property	<b>910 MAYER AVE MADISON, WI 53704</b>	<b>WI ERP</b>	<b>WID006105266</b>
		<b>WI SHWIMS</b>	
		<b>WI LUST</b>	
		<b>WI LAST</b>	
		<b>WI CRS</b>	
		<b>WI AUL</b>	
		<b>WI SPILLS</b>	
		<b>ICIS</b>	
		<b>US AIRS</b>	
		<b>FINDS</b>	
		<b>ECHO</b>	
		<b>NY MANIFEST</b>	
		<b>WI MANIFEST</b>	
		<b>WI TIER 2</b>	

**RCRA-LQG**  
EPA Id WID006105266

**WI ERP**  
Status CLOSED  
Status OPEN  
Site Id 1784900  
Facility ID 113004650

**WI SHWIMS**  
FID 113004650  
Status OPERATING

**WI LUST**  
Facility Status CLOSED  
Site Id 1784900  
Facility ID 113004650

**WI LAST**



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KRAFT FOODS GLOBAL INC - MADISON (Continued)**

1000210980

Status OPEN  
Site ID 1784900  
Facility ID 113004650

**WI CRS**

Site ID 1784900  
Facility ID 113004650

**WI AUL**

Status CLOSED  
Site ID 1784900  
Facility ID 113004650

**WI SPILLS**

Site ID 1784900  
Status CLOSED

**ICIS**

FRS ID: 110000420205

**US AIRS**

EPA plant ID: 110000420205

**FINDS**

Registry ID: 110000420205

**ECHO**

Registry ID 110000420205

**NY MANIFEST**

EPA ID WID006105266

**WI MANIFEST**

ACT Status A  
ACT Status I  
FID 113004650  
EPA ID WID006105266

**WI TIER 2**

Facility ID 3092  
Facility ID 3102  
Facility ID 145271  
Facility ID 3094  
Facility ID 3095  
Facility ID 3093  
Facility ID 3100



MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

**KRAFT FOODS GLOBAL INC - MADISON (Continued)**

**1000210980**

Facility ID 439600  
 Facility ID 3101  
 Facility ID 3099  
 Facility ID 3087  
 Facility ID 99137  
 Facility ID 40330  
 Facility ID 3091  
 Facility ID 9111

**A10**  
**Target**  
**Property**

**MADISON CTY--OSCAR MAYER & CO - RDF STORAGE**  
**910 MAYER AVE**  
**BLOOMING GROVE TN, WI 53714**

**WI SHWIMS** **S118559466**  
**N/A**

**Actual:**  
**859 ft.**

[Click here for full text details](#)

**WI SHWIMS**  
 FID 113108490  
 Status UNKNOWN

**A11**  
**Target**  
**Property**

**KRAFT FOODS, INC.**  
**910 MAYER AVENUE**  
**MADISON, WI 53704**

**RMP** **1011829386**  
**N/A**

**Actual:**  
**859 ft.**

[Click here for full text details](#)

**A12**  
**Target**  
**Property**

**910 MEYER AVE**  
**MADISON, WI 53704**

**ERNS** **99499219**  
**N/A**

**Actual:**  
**859 ft.**

[Click here for full text details](#)

**ERNS**  
 Incident Date Time 1999-09-18 09:20:00  
 NRC Report # 499219

**A13**  
**Target**  
**Property**

**910 MAYER AVENUE**  
**MADISON, WI 53704**

**ERNS** **95295140**  
**N/A**

**Actual:**  
**859 ft.**

[Click here for full text details](#)

**ERNS**  
 Incident Date Time 1995-06-07 19:45:00  
 NRC Report # 295140



MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
A14 Target Property	KRAFT FOODS GROUP, INC - MADISON 910 MAYER AVENUE MADISON, WI 53704	WI TIER 2	S114399526 N/A
Actual: 859 ft.	<a href="#">Click here for full text details</a> WI TIER 2 Facility ID 9111		
A15 Target Property	910 MAYER AVE MADISON, WI 53704	ERNS	99479291 N/A
Actual: 859 ft.	<a href="#">Click here for full text details</a> ERNS Incident Date Time 1999-04-05 13:50:00 NRC Report # 479291		
A16 Target Property	910 MAYER AVE MADISON, WI 53704	ERNS	99475478 N/A
Actual: 859 ft.	<a href="#">Click here for full text details</a> ERNS Incident Date Time 1999-03-01 12:15:00 NRC Report # 475478		
A17 Target Property	910 MAYER AVE MADISON, WI 53704	ERNS	2000518396 N/A
Actual: 859 ft.	<a href="#">Click here for full text details</a> ERNS Incident Date Time 2000-02-01 09:55:00 NRC Report # 518396		
A18 Target Property	910 MAYER AVE MADISON, WI 53704	ERNS	2000523943 N/A
Actual: 859 ft.	<a href="#">Click here for full text details</a> ERNS Incident Date Time 2000-03-23 08:40:00 NRC Report # 523943		



MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
--	------	-------------	--------------------------------

<b>A19</b>		<b>ERNS</b>	<b>95310444</b>
Target	<b>910 MEYER AVE</b>		
Property	<b>MADISON, WI</b>		N/A

Actual: [Click here for full text details](#)  
859 ft.

**ERNS**  
Incident Date Time 1995-10-11 07:55:00  
NRC Report # 310444

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<b>A20</b>		<b>ERNS</b>	<b>2000537335</b>
Target	<b>910 MAYER AVENUE</b>		
Property	<b>MADISON, WI 53704</b>		N/A

Actual: [Click here for full text details](#)  
859 ft.

**ERNS**  
Incident Date Time 2000-08-02 06:50:00  
NRC Report # 537335

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<b>A21</b>		<b>ERNS</b>	<b>95301011</b>
Target	<b>910 MEYER AVE</b>		
Property	<b>MADISON, WI 53707</b>		N/A

Actual: [Click here for full text details](#)  
859 ft.

**ERNS**  
Incident Date Time 1995-07-22 20:30:00  
NRC Report # 301011

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<b>A22</b>		<b>WI RGA LUST</b>	<b>S116067842</b>
Target	<b>KRAFT FOODS NORTH AMERICA INC - MADISON</b>		
Property	<b>910 MAYER AVE</b> <b>MADISON, WI</b>		N/A

Actual: [Click here for full text details](#)  
859 ft.

---

<b>A23</b>		<b>HMIRS</b>	<b>91080057</b>
Target	<b>910 MAYER AVE</b>		
Property	<b>MADISON, WI</b>		N/A

Actual: [Click here for full text details](#)  
859 ft.



MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
A24 Target Property	910 MAYER AVE MADISON, WI 53707	ERNS	93161755 N/A
Actual: 859 ft.	<a href="#">Click here for full text details</a> ERNS Incident Date Time 1993-03-11 06:00:00 NRC Report # 161755		
A25 Target Property	910 MAYER AVE MADISON, WI 53707	ERNS	93173866 N/A
Actual: 859 ft.	<a href="#">Click here for full text details</a> ERNS Incident Date Time 1993-05-15 02:05:00 NRC Report # 173866		
A26 Target Property	KRAFT HEINZ COMPANY_MADISON WI 910 MAYER AVENUE MADISON, WI 53704	ERNS RMP	2004725622 N/A
Actual: 859 ft.	<a href="#">Click here for full text details</a> ERNS Incident Date Time 2004-06-20 22:45:00 NRC Report # 725622		
A27 Target Property	910 MAYER AVENUE MADISON, WI	ERNS	2001554416 N/A
Actual: 859 ft.	<a href="#">Click here for full text details</a> ERNS Incident Date Time 2001-01-22 17:45:00 NRC Report # 554416		
A28 Target Property	910 MAYER AVE MADISON, WI 53707	ERNS	93202771 N/A
Actual: 859 ft.	<a href="#">Click here for full text details</a> ERNS Incident Date Time 1993-10-13 19:50:00 NRC Report # 202771		



MAP FINDINGS

Map ID									
Direction									
Distance									
Elevation	Site			Database(s)				EDR ID Number	
								EPA ID Number	

<b>A29</b>				<b>ERNS</b>	<b>93193109</b>
<b>Target</b>	<b>910 MAYER AVE</b>				<b>N/A</b>
<b>Property</b>	<b>MADISON, WI 53707</b>				

**Actual:**  
859 ft.

[Click here for full text details](#)

**ERNS**  
Incident Date Time 1993-08-18 09:41:23  
NRC Report # 193109

---

<b>A30</b>				<b>ERNS</b>	<b>95294634</b>
<b>Target</b>	<b>910 MAYER AVENUE</b>				<b>N/A</b>
<b>Property</b>	<b>MADISON, WI 53704</b>				

**Actual:**  
859 ft.

[Click here for full text details](#)

**ERNS**  
Incident Date Time 1995-06-07 19:45:00  
NRC Report # 294634

---

<b>A31</b>				<b>ERNS</b>	<b>9186855</b>
<b>Target</b>	<b>910 MAYER AVE</b>				<b>N/A</b>
<b>Property</b>	<b>MADISON, WI 53707</b>				

**Actual:**  
859 ft.

[Click here for full text details](#)

**ERNS**  
Incident Date Time 1991-09-04 09:56:01  
NRC Report # 86855

---

<b>A32</b>	<b>NUTRI-FEED CORP</b>			<b>WI SHWIMS</b>	<b>S108155644</b>
<b>Target</b>	<b>910 MAYER AVE</b>				<b>N/A</b>
<b>Property</b>	<b>BLOOMING GROVE, WI</b>				

**Actual:**  
859 ft.

[Click here for full text details](#)

**WI SHWIMS**  
FID 113111790  
Status CLOSED

---

<b>A33</b>	<b>KRAFT FOODS GROUP INC</b>			<b>WI UST</b>	<b>U003953516</b>
<b>Target</b>	<b>910 MAYER AVE</b>			<b>WI AST</b>	<b>N/A</b>
<b>Property</b>	<b>MADISON, WI 53704</b>				

**Actual:**  
859 ft.

[Click here for full text details](#)

**WI UST**  
Fire Dept ID 1301

**WI AST**



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KRAFT FOODS GROUP INC (Continued)**

U003953516

Fire Dept ID 1301

**A34**  
**Target**  
**Property**

**910 MAYER AVE**  
**MADISON, WI**

**ERNS** **2012005088**  
**N/A**

**Actual:**  
**859 ft.**

[Click here for full text details](#)

**ERNS**

Incident Date Time 2012-03-07 23:15:00  
NRC Report # 1005088

**A35**  
**Target**  
**Property**

**910 MAYER AVENUE**  
**MADISON, WI**

**ERNS** **2001589362**  
**N/A**

**Actual:**  
**859 ft.**

[Click here for full text details](#)

**ERNS**

Incident Date Time 2001-12-23 09:30:00  
NRC Report # 589362

**A36**  
**Target**  
**Property**

**KRAFT FOODS GLOBAL, INC - MADISON**  
**910 MAYER AVE**  
**MADISON, WI**

**WI AIRS** **S107679734**  
**N/A**

**Actual:**  
**859 ft.**

[Click here for full text details](#)

**WI AIRS**

Permit No 95-POY-044  
Permit No 00-BAP-916-OP  
Permit No 08-SSS-202  
Permit No 08-SSS-224-R1  
Permit No 113004650-P12  
Permit No 97-MEO-914  
Permit No 09-SSS-127  
Permit No 07-SSS-224-R1  
Permit No 113004650-P11  
Permit No 90-IRS-082  
Permit No 98-JMS-913  
Permit No 07-SSS-224  
Permit No 113004650-P10  
Permit No 113004650-P13  
Permit No 09-SSS-127-R1  
Permit No 113004650-P20  
Permit No 93-DCF-103  
Permit No 113004650-P01  
Permit No 00-BAP-916  
Permit No 113004650-X01  
Permit No 17-MMC-169-EXM  
Permit No 15-SDD-098-EXM  
Facility ID 113004650



MAP FINDINGS

Map ID Direction Distance Elevation		Database(s)	EDR ID Number EPA ID Number
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<b>A37</b> Target Property	<b>KRAFT FOODS GLOBAL INC - MADISON</b> 910 MAYER AVE MADISON, WI	<b>WI RGA LUST</b>	<b>S116067838</b> N/A
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Actual: [Click here for full text details](#)  
859 ft.

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<b>A38</b> Target Property	<b>KRAFT FOODS BLDG 24</b> 910 MAYER ST MADISON, WI	<b>WI ASBESTOS</b>	<b>S125352877</b> N/A
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Actual: [Click here for full text details](#)  
859 ft.

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<b>A39</b> Target Property	<b>910 MAYER AVE</b> MADISON, WI	<b>ERNS</b>	<b>2006822452</b> N/A
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Actual: [Click here for full text details](#)  
859 ft.

**ERNS**  
Incident Date Time 2006-12-31 05:15:00  
NRC Report # 822452

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<b>A40</b> Target Property	<b>910 MAYER AVE</b> MADISON, WI	<b>ERNS</b>	<b>2008880753</b> N/A
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Actual: [Click here for full text details](#)  
859 ft.

**ERNS**  
Incident Date Time 2008-08-15 10:15:00  
NRC Report # 880753

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<b>A41</b> Target Property	<b>910 MAYER AVE</b> MADISON, WI	<b>ERNS</b>	<b>2008872232</b> N/A
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Actual: [Click here for full text details](#)  
859 ft.

**ERNS**  
Incident Date Time 2008-05-27 17:15:00  
NRC Report # 872232



MAP FINDINGS

Map ID			
Direction			
Distance			
Elevation	Site	Database(s)	EDR ID Number EPA ID Number

<b>A42</b>		<b>ERNS</b>	<b>2002620671</b>
<b>Target</b>	<b>910 MAYER AVENUE</b>		<b>N/A</b>
<b>Property</b>	<b>MADISON, WI 53704</b>		

**Actual:**  
859 ft.

[Click here for full text details](#)

**ERNS**  
Incident Date Time 2002-08-22 00:30:00  
NRC Report # 620671

<b>A43</b>		<b>ERNS</b>	<b>2011994960</b>
<b>Target</b>	<b>910 MAYER AVE</b>		<b>N/A</b>
<b>Property</b>	<b>MADISON, WI</b>		

**Actual:**  
859 ft.

[Click here for full text details](#)

**ERNS**  
Incident Date Time 2011-11-08 15:10:00  
NRC Report # 994960

<b>B44</b>	<b>CHETS CAR CARE CTR</b>	<b>RCRA-VSQG</b>	<b>1000663704</b>
<b>North</b>	<b>2020 ABERG AVE</b>	<b>WI SHWIMS</b>	<b>WID988605739</b>
<b>&lt; 1/8</b>	<b>MADISON, WI 53704</b>	<b>FINDS</b>	
<b>0.009 mi.</b>		<b>ECHO</b>	
<b>48 ft.</b>		<b>WI MANIFEST</b>	

**Relative:**  
Higher

[Click here for full text details](#)

**RCRA-VSQG**  
EPA Id WID988605739

**WI SHWIMS**  
FID 113223660  
Status OPERATING

**FINDS**  
Registry ID: 110005484724

**ECHO**  
Registry ID 110005484724

**WI MANIFEST**  
ACT Status I  
ACT Status A  
FID 113223660  
EPA ID WID988605739



MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
<b>B45</b> North < 1/8 0.009 mi. 48 ft.	<b>CHETS CAR CARE</b> 2020 ABERG AVE MADISON, WI 53704  <a href="#">Click here for full text details</a>	<b>WI AST</b>	<b>A100262728</b> N/A
<b>Relative: Higher</b>	<b>WI AST</b> Fire Dept ID 1301		
<b>C46</b> South < 1/8 0.016 mi. 82 ft.	<b>MADISON AREA TECH COLLEGE</b> 2125 COMMERCIAL AVE MADISON, WI 53704  <a href="#">Click here for full text details</a>	<b>WI UST</b> <b>WI AST</b>	<b>U003958405</b> N/A
<b>Relative: Lower</b>	<b>WI UST</b> Fire Dept ID 1301  <b>WI AST</b> Fire Dept ID 1301		
<b>C47</b> South < 1/8 0.016 mi. 82 ft.	<b>MADISON AREA TECHNICAL COLLEGE-WI VTAE</b> 2125 COMMERCIAL AVE MADISON, WI 53704  <a href="#">Click here for full text details</a>	<b>RCRA-VSQQ</b> <b>WI SHWIMS</b> <b>FINDS</b> <b>ECHO</b> <b>WI ASBESTOS</b> <b>WI MANIFEST</b>	<b>1000263169</b> <b>WID981001894</b>
<b>Relative: Lower</b>	<b>RCRA-VSQQ</b> EPA Id WID981001894  <b>WI SHWIMS</b> FID 113327170 FID 113128620 Status MOVED Status OPERATING  <b>FINDS</b> Registry ID: 110005453641  <b>ECHO</b> Registry ID 110005453641  <b>WI MANIFEST</b> ACT Status I ACT Status A FID 113128620 EPA ID WID981001894		



MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
D48 NNW < 1/8 0.023 mi. 124 ft.  Relative: Higher	MADISON 1948-72 (TRUAX LANDFILL) ABERG AVENUE CITY OF MADISON, WI 53710  <a href="#">Click here for full text details</a>	WI SHWS	S101013549 N/A
E49 SSW < 1/8 0.033 mi. 172 ft.  Relative: Lower	MILLVANDER PROPERTY 2530 PENNSYLVANIA AVE MADISON, WI  <a href="#">Click here for full text details</a>  WI ERP Status CLOSED Site Id 7684100 Facility ID NONE	WI ERP	S104939165 N/A
F50 SE < 1/8 0.047 mi. 249 ft.  Relative: Higher	OSCAR MAYER FOOD CORP / MADISON GAS & ELECTRIC 900 PACKERS AVE MADISON, WI 53704  <a href="#">Click here for full text details</a>  WI AST Fire Dept ID 1301	WI AST	A100297485 N/A
G51 NNW < 1/8 0.048 mi. 253 ft.  Relative: Lower	MADISON METRO NORTH TRANSFER POINT 1201 HUXLEY ST MADISON, WI 53704  <a href="#">Click here for full text details</a>  WI AST Fire Dept ID 1301	WI AST	A100261001 N/A
G52 NNW < 1/8 0.048 mi. 253 ft.  Relative: Lower	MADISON METRO NORTH TRANSFER POINT 1201 HUXLEY ST MADISON, WI 53704  <a href="#">Click here for full text details</a>  WI ERP Status CLOSED Site Id 11093200 Facility ID NONE  WI LAST Status CLOSED	WI ERP WI LAST WI CRS WI AUL	S106249547 N/A



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MADISON METRO NORTH TRANSFER POINT (Continued)**

**S106249547**

Site ID 11093200  
Facility ID NONE

**WI AUL**

Status CLOSED  
Site Id 11093200  
Facid NONE

**F53**  
**ESE**  
**< 1/8**  
**0.063 mi.**  
**332 ft.**

**B & B SUPER SERVICE**  
**1009 PACKERS AVE**  
**MADISON, WI 53704**

**EDR Hist Auto**    **1020399016**  
**N/A**

[Click here for full text details](#)

Relative:  
Higher

**D54**  
**NNW**  
**< 1/8**  
**0.067 mi.**  
**352 ft.**

**NORTHGATE CAR WASH**  
**1901 ABERG AVE**  
**MADISON, WI 53704**

**EDR Hist Auto**    **1020399023**  
**N/A**

[Click here for full text details](#)

Relative:  
Higher

**E55**  
**SSW**  
**< 1/8**  
**0.071 mi.**  
**373 ft.**

**UNION CAB COOP**  
**2470 PENNSYLVANIA AVE**  
**MADISON, WI**

**WI SHWIMS**    **S103697641**  
**WI LUST**        **N/A**  
**WI AUL**  
**WI SPILLS**

[Click here for full text details](#)

Relative:  
Lower

**WI SHWIMS**

FID 113398450  
Status OPERATING

**WI LUST**

Facility Status CLOSED  
Site Id 3842400  
Facility ID 113398450

**WI AUL**

Status CLOSED  
Site Id 3842400  
Facid 113398450

**WI SPILLS**

Site Id 3842400  
Status CLOSED



MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
E56 SSW < 1/8 0.071 mi. 373 ft.	<b>JOHNSON EQUIPMENT CO INC</b> 2470 PENNSYLVANIA AVE MADISON, WI 53704  <a href="#">Click here for full text details</a>	WI AST	A100460742 N/A
Relative: Lower	<b>WI AST</b> Fire Dept ID 1301		
E57 SSW < 1/8 0.071 mi. 373 ft.	<b>JOHNSON EQUIPMENT CO INC</b> 2470 PENNSYLVANIA AVE MADISON, WI 53704  <a href="#">Click here for full text details</a>	WI UST	U003470076 N/A
Relative: Lower	<b>WI UST</b> Fire Dept ID 1301		
E58 SSW < 1/8 0.071 mi. 373 ft.	<b>UNION CAB OF MADISON</b> 2470 PENNSYLVANIA AVE MADISON, WI 53704  <a href="#">Click here for full text details</a>	WI AST	A100460743 N/A
Relative: Lower	<b>WI AST</b> Fire Dept ID 1301		
H59 NNW < 1/8 0.079 mi. 419 ft.	<b>HERITAGE FEDERAL CREDIT UNION</b> 1212 HUXLEY ST MADISON, WI 53704  <a href="#">Click here for full text details</a>	RCRA-VSQG WI SHWIMS FINDS ECHO WI ASBESTOS	1004796329 WID062062310
Relative: Lower	<b>RCRA-VSQG</b> EPA Id WID062062310  <b>WI SHWIMS</b> FID 113184720 Status OPERATING  <b>FINDS</b> Registry ID: 110005439169  <b>ECHO</b> Registry ID 110005439169		



MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
H60 NNW < 1/8 0.079 mi. 419 ft.	HERITAGE FEDERAL CREDIT UNION 1212 HUXLEY ST MADISON, WI 53704  <a href="#">Click here for full text details</a>	WI AST	A100262579 N/A
Relative: Lower	WI AST Fire Dept ID 1301		
I61 SSW < 1/8 0.091 mi. 479 ft.	UNION CAB OF MADISON COOPERATIVE 2458 PENNSYLVANIA AVE MADISON, WI 53704  <a href="#">Click here for full text details</a>	WI UST WI AST WI Financial Assurance	U003952389 N/A
Relative: Lower	WI UST Fire Dept ID 1301		
	WI AST Fire Dept ID 1301		
	WI Financial Assurance Building ID 156341 Regulatory Object Id 202148 Regulatory Object Id 947155		
I62 SSW < 1/8 0.091 mi. 479 ft.	UNION CAB OF MADISON COOP 2458 PENNSYLVANIA AVE MADISON, WI 53704  <a href="#">Click here for full text details</a>	WI ERP WI SHWIMS WI LAST WI LUST WI CRS WI AUL WI TIER 2	S109324751 N/A
Relative: Lower	WI ERP Status CLOSED Site Id 11264300 Facility ID NONE		
	WI SHWIMS FID 113398340 Status OPERATING		
	WI LAST Status CLOSED Site ID 11264300 Facility ID NONE		
	WI LUST Facility Status CLOSED		



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNION CAB OF MADISON COOP (Continued)**

**S109324751**

Site Id 11264300  
Facility ID NONE

**WI AUL**

Status CLOSED  
Site Id 11264300  
Facid NONE

**WI TIER 2**

Facility ID 66781  
Facility ID 3466

J63  
SE  
< 1/8  
0.101 mi.  
533 ft.

**NATIONAL CAR RENTAL**  
**2302 COMMERCIAL AVE**  
**MADISON, WI 53704**

**WI UST U002065889**  
**WI AST N/A**  
**WI Financial Assurance**  
**WI TIER 2**

[Click here for full text details](#)

Relative:  
Higher

**WI UST**

Fire Dept ID 1301

**WI AST**

Fire Dept ID 1301

**WI Financial Assurance**

Building ID 154211  
Regulatory Object Id 273833  
Regulatory Object Id 202254

**WI TIER 2**

Facility ID 3039  
Facility ID 41937

64  
SW  
< 1/8  
0.103 mi.  
543 ft.

**RICKS AUTO**  
**705 RUSKIN STREET**  
**MADISON, WI 53704**

**WI AST A100304815**  
**N/A**

[Click here for full text details](#)

Relative:  
Lower

**WI AST**

Fire Dept ID 1301



MAP FINDINGS

Map ID			EDR ID Number
Direction			EPA ID Number
Distance		Database(s)	
Elevation	Site		

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<b>K65</b> SW < 1/8 0.103 mi. 545 ft.	<b>DURHAM SCHOOL SERVICES</b> 710 RUSKIN ST MADISON, WI 53704	<b>WI UST</b> <b>WI AST</b>	<b>U003973683</b> N/A
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[Click here for full text details](#)

Relative:  
Lower

**WI UST**  
Fire Dept ID 1301

**WI AST**  
Fire Dept ID 1301

---

<b>K66</b> SW < 1/8 0.103 mi. 545 ft.	<b>SCHOOL SERVICES</b> 710 RUSKIN ST MADISON, WI	<b>WI LUST</b> <b>WI SPILLS</b>	<b>S106479882</b> N/A
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[Click here for full text details](#)

Relative:  
Lower

**WI LUST**  
 Facility Status CLOSED  
 Site Id 11171800  
 Facility ID NONE

**WI SPILLS**  
 Site Id 11171800  
 Status CLOSED

---

<b>K67</b> SW < 1/8 0.104 mi. 547 ft.	<b>KOSCHKEE TRANSFER</b> 718 RUSKIN ST MADISON, WI 53704	<b>WI AST</b>	<b>A100204771</b> N/A
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[Click here for full text details](#)

Relative:  
Lower

**WI AST**  
Fire Dept ID 1301

---

<b>J68</b> SSE < 1/8 0.106 mi. 561 ft.	<b>DEONS</b> 2301 COMMERCIAL AVENUE MADISON, WI 53704	<b>EDR Hist Auto</b>	<b>1021654308</b> N/A
--	---	----------------------	--------------------------

[Click here for full text details](#)

Relative:  
Higher



MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Site

Database(s)

EDR ID Number  
EPA ID Number

J69  
SSE  
< 1/8  
0.106 mi.  
561 ft.

**PENLO INC DBA DEONS**  
2301 COMMERCIAL AVE  
MADISON, WI 53704

RCRA NonGen / NLR  
ECHO

1001405509  
WIR000040212

[Click here for full text details](#)

Relative:  
Higher

RCRA NonGen / NLR  
EPA Id WIR000040212

J70  
SSE  
< 1/8  
0.106 mi.  
561 ft.

**DEON'S**  
2301 COMMERCIAL AVE  
MADISON, WI 53704

WI SHWIMS  
WI LUST  
WI UST  
WI CRS  
WI AUL  
WI SPILLS  
WI Financial Assurance

U003022503  
N/A

[Click here for full text details](#)

Relative:  
Higher

**WI SHWIMS**  
FID 113312760  
Status OPERATING

**WI LUST**  
Facility Status CLOSED  
Site Id 5913000  
Facility ID 113312760

**WI UST**  
Fire Dept ID 1301

**WI CRS**  
Site ID 5913000  
Facility ID 113312760

**WI AUL**  
Status CLOSED  
Site Id 5913000  
Facid 113312760

**WI SPILLS**  
Site Id 5913000  
Site Id 50094821  
Status CLOSED

**WI Financial Assurance**  
Building ID 117661  
Regulatory Object Id 271439  
Regulatory Object Id 271431  
Regulatory Object Id 271440  
Regulatory Object Id 271441  
Regulatory Object Id 271442  
Regulatory Object Id 461294



MAP FINDINGS

Map ID			
Direction			
Distance			
Elevation	Site	Database(s)	EDR ID Number EPA ID Number

**DEON'S (Continued)**

**U003022503**

Regulatory Object Id 461302  
Regulatory Object Id 454567

L71      **TRAFFIC SIGNING & MARKING INC**  
NW      1115 ONEIL AVE  
< 1/8    MADISON, WI 53704  
0.112 mi.  
594 ft.

**WI SHWIMS**    S108158453  
N/A

[Click here for full text details](#)

Relative:  
Lower

**WI SHWIMS**  
FID 113161950  
Status MOVED

L72      **TRAFFIC SIGNING AND MARKING INC**  
NW      1115 ONEIL AVE  
< 1/8    MADISON, WI 53704  
0.112 mi.  
594 ft.

**RCRA NonGen / NLR**    1004796983  
**FINDS**                    WID982218406  
**ECHO**

[Click here for full text details](#)

Relative:  
Lower

**RCRA NonGen / NLR**  
EPA Id WID982218406

**FINDS**  
Registry ID: 110005461767

**ECHO**  
Registry ID 110005461767

I73      **PLUMBING VENTURES LLC**  
SSW     2436 PENNSYLVANIA AVE  
< 1/8    MADISON, WI 53704  
0.114 mi.  
603 ft.

**WI BROWNFIELDS**    S117231510  
**WI BRRTS**                N/A

[Click here for full text details](#)

Relative:  
Lower

**WI BROWNFIELDS**  
Status GEN PROP  
Site Id 26817900

**WI BRRTS**  
Site Id 26817900  
Status GEN PROP



MAP FINDINGS

Map ID			EDR ID Number
Direction			EPA ID Number
Distance		Database(s)	
Elevation	Site		

---

<b>I74</b> <b>SSW</b> < 1/8 0.114 mi. 603 ft.	<b>MCCULLOUGH PLUMBING</b> 2436 PENNSYLVANIA AVE MADISON, WI 53704  <a href="#">Click here for full text details</a>	<b>WI AST</b>	<b>A100152821</b> N/A
<b>Relative:</b> <b>Lower</b>	<b>WI AST</b> Fire Dept ID 1301		

---

<b>K75</b> <b>SW</b> < 1/8 0.117 mi. 618 ft.	<b>ROUNDHOUSE PRINTING</b> 1741 COMMERCIAL AVE MADISON, WI 53704  <a href="#">Click here for full text details</a>	<b>WI SHWIMS</b> <b>RCRA NonGen / NLR</b> <b>ECHO</b> <b>WI BRRTS</b> <b>WI MANIFEST</b>	<b>1004799925</b> <b>WIR000020149</b>
<b>Relative:</b> <b>Lower</b>	<b>WI SHWIMS</b> FID 113287460 Status MOVED		

**RCRA NonGen / NLR**  
 EPA Id WIR000020149

**WI BRRTS**  
 Site Id 4755200  
 Status NAR

[Click here for WDNR BRRTS Link](#)

**WI MANIFEST**  
 ACT Status I  
 FID 113287460  
 EPA ID WIR000020149

---

<b>76</b> <b>WNW</b> 1/8-1/4 0.141 mi. 743 ft.	<b>HARTMEYER PROPERTY</b> 2007 ROTH ST MADISON, WI  <a href="#">Click here for full text details</a>	<b>WI ERP</b> <b>WI LAST</b> <b>WI SPILLS</b>	<b>S121352169</b> <b>N/A</b>
<b>Relative:</b> <b>Lower</b>	<b>WI ERP</b> Status OPEN Site Id 30165900 Facility ID NONE		

**WI LAST**  
 Status OPEN  
 Site ID 30165900  
 Facility ID NONE

**WI SPILLS**



MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

**HARTMEYER PROPERTY (Continued)**

**S121352169**

Site Id 30165900  
 Status CLOSED

**M77**  
**SW**  
 1/8-1/4  
 0.156 mi.  
 825 ft.

**DURHAM SCHOOL SERVICES**  
**1800 COMMERCIAL AVE**  
**MADISON, WI 53704**

**WI UST** **U004286976**  
**N/A**

[Click here for full text details](#)

Relative:  
 Lower

**WI UST**  
 Fire Dept ID 1301

**M78**  
**SW**  
 1/8-1/4  
 0.156 mi.  
 825 ft.

**OVERNIGHT TRANSPORTATION CO**  
**1800 COMMERCIAL AVE**  
**MADISON, WI 53704**

**WI UST** **U004286977**  
**N/A**

[Click here for full text details](#)

Relative:  
 Lower

**WI UST**  
 Fire Dept ID 1301

**M79**  
**SW**  
 1/8-1/4  
 0.156 mi.  
 825 ft.

**OVERNITE TRANS (FORMER)**  
**1800 COMMERCIAL AVE**  
**MADISON, WI 53704**

**WI SHWIMS** **1004798075**  
**WI LUST** **WID988602959**  
**WI CRS**  
**WI AUL**  
**WI SPILLS**  
**RCRA NonGen / NLR**  
**FINDS**  
**ECHO**

[Click here for full text details](#)

Relative:  
 Lower

**WI SHWIMS**  
 FID 113219370  
 Status CLOSED

**WI LUST**  
 Facility Status CLOSED  
 Site Id 2000200  
 Facility ID 113219370

**WI CRS**  
 Site ID 2000200  
 Facility ID 113219370

**WI AUL**  
 Status CLOSED  
 Site Id 2000200  
 Facid 113219370

**WI SPILLS**



MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Site

Database(s)

EDR ID Number  
EPA ID Number

**OVERNITE TRANS (FORMER) (Continued)**

1004798075

Site Id 2000200  
Status CLOSED

**RCRA NonGen / NLR**

EPA Id WID988602959

**FINDS**

Registry ID: 110005483057

**ECHO**

Registry ID 110005483057

**N80**  
North  
1/8-1/4  
0.156 mi.  
825 ft.

**CITY VIEW VENTURE PROPERTY**  
1422 PACKERS AVE  
MADISON, WI

**WI LUST**  
**WI BROWNFIELDS**  
**WI BRRTS**

**S103878511**  
**N/A**

Relative:  
Higher

[Click here for full text details](#)

**WI LUST**

Facility Status CLOSED  
Site Id 7214500  
Facility ID NONE

**WI BROWNFIELDS**

Status GEN PROP  
Site Id 7214500

**WI BRRTS**

Site Id 7214500  
Status GEN PROP  
Status NAR

**N81**  
North  
1/8-1/4  
0.156 mi.  
825 ft.

**CITY VIEW VENTURE**  
1422 PACKERS AVE  
MADISON, WI 53704

**WI UST**

**U003956914**  
**N/A**

Relative:  
Higher

[Click here for full text details](#)

**WI UST**

Fire Dept ID 1301



MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
82 NE 1/8-1/4 0.161 mi. 849 ft.	<b>REYNOLDS PROPERTY</b> 1401 PACKERS AVE MADISON, WI  <a href="#">Click here for full text details</a>	WI ERP WI PFAS	S105704080 N/A
Relative: Lower	<b>WI ERP</b> Status OPEN Site Id 8744100 Facility ID NONE		
83 WSW 1/8-1/4 0.162 mi. 854 ft.	<b>KOSCHKEE TRANSFER FACILITY</b> 702 RUSKIN AVE MADISON, WI 53704  <a href="#">Click here for full text details</a>	WI LUST WI SPILLS	S105915492 N/A
Relative: Lower	<b>WI LUST</b> Facility Status CLOSED Site Id 9187500 Facility ID NONE  <b>WI SPILLS</b> Site Id 9187500 Status CLOSED		
084 South 1/8-1/4 0.177 mi. 934 ft.	<b>DONS TRANSMISSION SERVICE (FORMER)</b> 2413 PENNSYLVANIA AVE MADISON, WI 53704  <a href="#">Click here for full text details</a>	WI ERP WI SHWIMS WI CRS WI AUL WI BROWNFIELDS RCRA NonGen / NLR FINDS ECHO WI BRRTS	1000376155 WID020473997
Relative: Lower	<b>WI ERP</b> Status CLOSED Site Id 707200 Facility ID 113154360  <b>WI SHWIMS</b> FID 113154360 Status CLOSED  <b>WI CRS</b> Site ID 707200 Facility ID 113154360  <b>WI AUL</b> Status CLOSED		



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DONS TRANSMISSION SERVICE (FORMER) (Continued)**

1000376155

Site Id 707200  
Facid 113154360

**WI BROWNFIELDS**

Status GEN PROP  
Facility ID 113154360  
Site Id 707200

**RCRA NonGen / NLR**

EPA Id WID020473997

**FINDS**

Registry ID: 110005429198

**ECHO**

Registry ID 110005429198

**WI BRRTS**

Site Id 707200  
Status GEN PROP

[Click here for WDNR BRRTS Link](#)

O85  
South  
1/8-1/4  
0.180 mi.  
952 ft.

**IN & OUT CAR CARE CENTER**  
2411 PENNSYLVANIA AVE  
MADISON, WI 53704

WI UST U002208018  
N/A

Relative:  
Lower

[Click here for full text details](#)

WI UST  
Fire Dept ID 1301

O86  
SSW  
1/8-1/4  
0.197 mi.  
1040 ft.

**LUNDER BROS MAINT BLDG**  
2410 PENNSYLVANIA AVE  
MADISON, WI 53704

WI UST U003956926  
N/A

Relative:  
Lower

[Click here for full text details](#)

WI UST  
Fire Dept ID 1301



MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
O87 SSW 1/8-1/4 0.197 mi. 1040 ft.  Relative: Lower	<b>US ARMY RESERVE 139(G)</b> <b>2410 PENNSYLVANIA AVE</b> <b>MADISON, WI 53704</b>  <a href="#">Click here for full text details</a>  <b>WI SHWIMS</b> FID 125028090 Status UNKNOWN  <b>WI LUST</b> Facility Status CLOSED Site Id 1566000 Facility ID 125028090  <b>RCRA NonGen / NLR</b> EPA Id WI4210090284  <b>FINDS</b> Registry ID: 110005420428  <b>ECHO</b> Registry ID 110005420428  <b>WI MANIFEST</b> ACT Status I ACT Status A FID 125028090 EPA ID WI4210090284	<b>WI SHWIMS</b> <b>WI LUST</b> <b>RCRA NonGen / NLR</b> <b>FINDS</b> <b>ECHO</b> <b>WI MANIFEST</b>	1000468436 WI4210090284
O88 South 1/8-1/4 0.198 mi. 1047 ft.  Relative: Lower	<b>KATHYS AUTO SERVICE &amp; REPAIR INC</b> <b>2401 PENNSYLVANIA AVENUE</b> <b>MADISON, WI 53704</b>  <a href="#">Click here for full text details</a>  <b>WI AST</b> Fire Dept ID 1301	<b>WI AST</b>	A100270939 N/A
P89 SW 1/8-1/4 0.204 mi. 1079 ft.  Relative: Lower	<b>TAFF PROPERTY</b> <b>601 N SHERMAN AVE</b> <b>MAPLE BLUFF, WI</b>  <a href="#">Click here for full text details</a>  <b>WI LUST</b> Facility Status CLOSED Site Id 4455900 Facility ID NONE	<b>WI LUST</b> <b>WI AUL</b>	S123274505 N/A



MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

**TAFF PROPERTY (Continued)**

**S123274505**

**WI AUL**  
 Status CLOSED  
 Site Id 4455900  
 Facid NONE

**P90**  
**SW**  
 1/8-1/4  
 0.204 mi.  
 1079 ft.

**LAKWOOD PLAZA**  
**601 N SHERMAN AVE**  
**MADISON, WI 53704**

**WI UST** **U004285311**  
**N/A**

[Click here for full text details](#)

Relative:  
 Lower

**WI UST**  
 Fire Dept ID 1304

**P91**  
**SW**  
 1/8-1/4  
 0.204 mi.  
 1079 ft.

**SINCLAIR / CLARKS ARCO STATION**  
**601 N SHERMAN AVE**  
**MADISON, WI 53704**

**WI UST** **U004285312**  
**N/A**

[Click here for full text details](#)

Relative:  
 Lower

**WI UST**  
 Fire Dept ID 1304

**92**  
**SE**  
 1/8-1/4  
 0.209 mi.  
 1104 ft.

**KONZ WOOD PRODUCTS CO**  
**616 N PERKINS ST**  
**GRAND CHUTE TN, WI**

**WI LUST** **S102850094**  
**N/A**

[Click here for full text details](#)

Relative:  
 Higher

**WI LUST**  
 Facility Status CLOSED  
 Site Id 3786400  
 Facility ID 445128200

**Q93**  
**SW**  
 1/8-1/4  
 0.213 mi.  
 1122 ft.

**CRARY ESTATE PROPERTY**  
**2426 SUPERIOR ST**  
**MADISON, WI**

**WI LUST** **S102323877**  
**WI CRS** **N/A**  
**WI AUL**

[Click here for full text details](#)

Relative:  
 Lower

**WI LUST**  
 Facility Status CLOSED  
 Site Id 4554900  
 Facility ID NONE

**WI AUL**  
 Status CLOSED



MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CRARY ESTATE PROPERTY (Continued)**

**S102323877**

Site Id 4554900  
 Facid NONE

**Q94**  
**SW**  
 1/8-1/4  
 0.213 mi.  
 1122 ft.

**JUNE CARARY**  
**2426 SUPERIOR ST**  
**MADISON, WI 53704**

**WI UST** **U003830787**  
**N/A**

[Click here for full text details](#)

Relative:  
 Lower

**WI UST**  
 Fire Dept ID 1301

**R95**  
**SSW**  
 1/8-1/4  
 0.228 mi.  
 1204 ft.

**GARRETT CONST CO INC**  
**2354 PENNSYLVANIA AVE**  
**MADISON, WI**

**WI SHWIMS** **S102453052**  
**WI LUST** **N/A**

[Click here for full text details](#)

Relative:  
 Lower

**WI SHWIMS**  
 FID 113119270  
 Status CLOSED

**WI LUST**  
 Facility Status CLOSED  
 Site Id 1829200  
 Facility ID 113119270

**R96**  
**SSW**  
 1/8-1/4  
 0.228 mi.  
 1204 ft.

**RITE WAY WRECKER SERVICE**  
**2354 PENNSYLVANIA AVE**  
**MADISON, WI 53711**

**WI UST** **U002149605**  
**N/A**

[Click here for full text details](#)

Relative:  
 Lower

**WI UST**  
 Fire Dept ID 1301

**P97**  
**SW**  
 1/8-1/4  
 0.230 mi.  
 1216 ft.

**SUTERS GOLD MEDAL SPORTS**  
**525 N SHERMAN AVE**  
**MADISON, WI 53704**

**WI UST** **U003461284**  
**N/A**

[Click here for full text details](#)

Relative:  
 Lower

**WI UST**  
 Fire Dept ID 1301



MAP FINDINGS

Map ID Direction Distance Elevation		Database(s)	EDR ID Number EPA ID Number
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<b>98</b> South 1/8-1/4 0.233 mi. 1231 ft.	<b>PRICE CNTY ROCK CREEK SITE</b> ROCK CREEK RD FLAMBEAU TN, WI	<b>WI SWF/LF</b> <b>WI SHWIMS</b>	<b>S105041680</b> <b>N/A</b>
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[Click here for full text details](#)

Relative:  
Lower

**WI SWF/LF**  
 Facility Status UNKNOWN  
 Activity Status PROPOSED  
 Facility ID 1774000

**WI SHWIMS**  
 FID 851036670  
 Status UNKNOWN

<b>S99</b> WSW 1/8-1/4 0.238 mi. 1256 ft.	<b>PAULS CLASSIC CLEANERS</b> 619 N SHERMAN AVE MAPLE BLUFF, WI 53704	<b>WI ERP</b> <b>WI CRS</b> <b>WI AUL</b> <b>WI DRYCLEANERS</b>	<b>S123274531</b> <b>N/A</b>
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[Click here for full text details](#)

Relative:  
Lower

**WI ERP**  
 Status CLOSED  
 Site Id 1164500  
 Facility ID 113153150

**WI CRS**  
 Facility ID 113153150

**WI AUL**  
 Status CLOSED  
 Site Id 1164500  
 Facid 113153150

**WI DRYCLEANERS**  
 Status CLOSED

<b>S100</b> WSW 1/8-1/4 0.238 mi. 1256 ft.	<b>PAULS CLASSIC CLEANERS</b> 619 N SHERMAN AVE MADISON, WI 53704	<b>RCRA-VSQG</b> <b>FINDS</b> <b>ECHO</b>	<b>1000291782</b> <b>WID981777634</b>
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[Click here for full text details](#)

Relative:  
Lower

**RCRA-VSQG**  
 EPA Id WID981777634

**FINDS**  
 Registry ID: 110005457415

**ECHO**



MAP FINDINGS

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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**PAULS CLASSIC CLEANERS (Continued)**

1000291782

Registry ID 110005457415

S101  
WSW  
1/8-1/4  
0.238 mi.  
1256 ft.

**PAULS CLASSIC CLEANERS**  
619 N SHERMAN AVE  
MAPLE BLUFF, WI 53704

WI SHWIMS S123274226  
N/A

[Click here for full text details](#)

Relative:  
Lower

**WI SHWIMS**  
FID 113153150  
Status OPERATING

R102  
South  
1/8-1/4  
0.240 mi.  
1268 ft.

**MADISON CTY DEMETRAL LF**  
6TH ST & PACKERS AVE  
MADISON, WI 53704

WI ERP S105041569  
WI SWF/LF N/A  
WI SHWIMS

[Click here for full text details](#)

Relative:  
Lower

**WI ERP**  
Status CLOSED  
Site Id 1773500  
Facility ID 113189560

**WI SWF/LF**  
Facility Status CLOSED  
Activity Status INACTIVE  
Facility ID 1773500

**WI SHWIMS**  
FID 113189560  
Status CLOSED

R103  
South  
1/8-1/4  
0.240 mi.  
1268 ft.

**MADISON CTY (DEMETRAL 1952-67)**  
6TH ST & PACKERS AVE  
MADISON, WI

WI WDS S101320791  
N/A

[Click here for full text details](#)

Relative:  
Lower

**WI WDS**  
Max Site Id 1773500  
Facility Id 113189560

[Click here for WDNR SHWIMS Link](#)



MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
104 ENE 1/8-1/4 0.241 mi. 1270 ft.	<b>COPPS #8178</b> 2502 SHOPKO DR MADISON, WI 53704  <a href="#">Click here for full text details</a>	WI SHWIMS	S110357307 N/A
Relative: Lower	<b>WI SHWIMS</b> FID 113377000 Status OPERATING		
P105 WSW 1/8-1/4 0.248 mi. 1310 ft.	<b>SATERNS STANDARD SERVICE</b> 484 N SHERMAN AVE MADISON, WI 53704  <a href="#">Click here for full text details</a>	WI UST	U004285510 N/A
Relative: Lower	<b>WI UST</b> Fire Dept ID 1301		
P106 WSW 1/8-1/4 0.248 mi. 1310 ft.	<b>AMOCO OIL CO</b> 484 N SHERMAN AVE MADISON, WI 53704  <a href="#">Click here for full text details</a>	WI UST	U004285509 N/A
Relative: Lower	<b>WI UST</b> Fire Dept ID 1301		
P107 WSW 1/8-1/4 0.248 mi. 1310 ft.	<b>AMOCO OIL CO</b> 484 N SHERMAN AVE MADISON, WI 53704  <a href="#">Click here for full text details</a>	WI SHWIMS WI LUST WI CRS WI AUL	S103697415 N/A
Relative: Lower	<b>WI SHWIMS</b> FID 113235760 Status UNKNOWN		
	<b>WI LUST</b> Facility Status CLOSED Site Id 2389400 Facility ID 113235760		
	<b>WI CRS</b> Site ID 2389400 Facility ID 113235760		
	<b>WI AUL</b> Status CLOSED Site Id 2389400		



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AMOCO OIL CO (Continued)**

**S103697415**

Facid 113235760

**T108**  
**WNW**  
1/4-1/2  
0.253 mi.  
1334 ft.

**POLLOCK AUTO BODY INC**  
1714 ROTH ST  
MADISON, WI 53704

**RCRA-VSQQ** 1000290172  
**WI SHWIMS** WID051218451  
**FINDS**  
**ECHO**  
**WI MANIFEST**

Relative:  
Higher

[Click here for full text details](#)

**RCRA-VSQQ**  
EPA Id WID051218451

**WI SHWIMS**  
FID 113186590  
Status OPERATING

**FINDS**  
Registry ID: 110005436475

**ECHO**  
Registry ID 110005436475

**WI MANIFEST**  
ACT Status I  
ACT Status A  
FID 113186590  
EPA ID WID051218451

**109**  
**WSW**  
1/4-1/2  
0.258 mi.  
1361 ft.

**KIRCH APPLIANCE INC**  
464 N SHERMAN AVE  
MADISON, WI 53704

**RCRA-VSQQ** 1004801404  
**WI SHWIMS** WIR000104745  
**FINDS**  
**ECHO**  
**WI MANIFEST**

Relative:  
Lower

[Click here for full text details](#)

**RCRA-VSQQ**  
EPA Id WIR000104745

**WI SHWIMS**  
FID 113272940  
Status OPERATING

**FINDS**  
Registry ID: 110012177072

**WI MANIFEST**  
ACT Status A  
ACT Status I  
FID 113272940



MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
	<b>KIRCH APPLIANCE INC (Continued)</b> EPA ID WIR000104745		<b>1004801404</b>
<b>S110</b> <b>WSW</b> 1/4-1/2 0.262 mi. 1381 ft.	<b>PRESENTIN PROPERTY</b> 524 N SHERMAN AVE MADISON, WI  <a href="#">Click here for full text details</a>	<b>WI LUST</b>	<b>S103340077</b> N/A
Relative: Lower	<b>WI LUST</b> Facility Status CLOSED Site Id 6923200 Facility ID NONE		
<b>U111</b> <b>West</b> 1/4-1/2 0.266 mi. 1403 ft.	<b>WALSH FAMILY PRACTICE CENTER</b> 1001 N SHERMAN AVE MADISON, WI 53704  <a href="#">Click here for full text details</a>	<b>WI SHWIMS</b>	<b>S108159181</b> N/A
Relative: Higher	<b>WI SHWIMS</b> FID 113301650 Status OPERATING		
<b>112</b> <b>West</b> 1/4-1/2 0.280 mi. 1479 ft.	<b>MAPLE BLUFF VIL</b> 18 OXFORD PL MAPLE BLUFF, WI 53704  <a href="#">Click here for full text details</a>	<b>WI SHWIMS</b>	<b>S108154403</b> N/A
Relative: Higher	<b>WI SHWIMS</b> FID 113117840 Status OPERATING		
<b>T113</b> <b>WNW</b> 1/4-1/2 0.280 mi. 1480 ft.	<b>SPEEDWAY 4090 (FORMER)</b> 1101 N SHERMAN MADISON, WI 53704  <a href="#">Click here for full text details</a>	<b>WI SHWIMS</b> <b>WI LUST</b> <b>WI CRS</b> <b>WI AUL</b> <b>WI SPILLS</b> RCRA NonGen / NLR <b>FINDS</b> <b>ECHO</b>	<b>1000850759</b> <b>WID988642450</b>
Relative: Higher	<b>WI SHWIMS</b> FID 113249620 Status OPERATING		
	<b>WI LUST</b> Facility Status CLOSED Site Id 2648200		



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SPEEDWAY 4090 (FORMER) (Continued)**

1000850759

Facility ID 113249620

**WI CRS**

Site ID 2648200

Facility ID 113249620

**WI AUL**

Status CLOSED

Site Id 2648200

Facid 113249620

**WI SPILLS**

Site Id 2648200

Status CLOSED

**RCRA NonGen / NLR**

EPA Id WID988642450

**FINDS**

Registry ID: 110005506229

T114  
WNW  
1/4-1/2  
0.291 mi.  
1534 ft.

**LAUNDRY LAND**  
1131 N SHERMAN AVE  
MADISON, WI 53704

WI ERP S108154011  
WI SHWIMS N/A  
WI AUL  
WI DRYCLEANERS

Relative:  
Higher

[Click here for full text details](#)

**WI ERP**

Status OPEN

Site Id 1519100

Facility ID 113216620

**WI SHWIMS**

FID 113216620

Status UNKNOWN

**WI AUL**

Status OPEN

Site Id 1519100

Facid 113216620



MAP FINDINGS

Map ID			EDR ID Number
Direction			EPA ID Number
Distance			
Elevation	Site	Database(s)	

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<b>U115</b> West 1/4-1/2 0.292 mi. 1544 ft.  Relative: Higher	<b>SHERMAN FOOD MART</b> 1010 N SHERMAN AVE MADISON, WI 53704  <a href="#">Click here for full text details</a>	<b>WI SHWIMS</b> <b>WI LUST</b> <b>WI CRS</b> <b>WI AUL</b> RCRA NonGen / NLR ECHO	1001484149 WIR000041830
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**WI SHWIMS**  
 FID 113314630  
 Status UNKNOWN

**WI LUST**  
 Facility Status CLOSED  
 Site Id 4018300  
 Facility ID 113314630

**WI CRS**  
 Facility ID 113314630

**WI AUL**  
 Status CLOSED  
 Site Id 4018300  
 Facid 113314630

**RCRA NonGen / NLR**  
 EPA Id WIR000041830

---

<b>V116</b> <b>WNW</b> 1/4-1/2 0.303 mi. 1601 ft.  Relative: Lower	<b>1102 N SHERMAN AVE</b> 1102 N SHERMAN AVE MADISON, WI 53716  <a href="#">Click here for full text details</a>	<b>US BROWNFIELDS</b>	1019910673 N/A
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**US BROWNFIELDS**  
 ACRES property ID 201122

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<b>V117</b> <b>WNW</b> 1/4-1/2 0.303 mi. 1601 ft.  Relative: Lower	<b>GRUENBERGS SERVICE CENTER INC</b> 1102 N SHERMAN AVE MADISON, WI 53704  <a href="#">Click here for full text details</a>	<b>WI ERP</b> <b>WI SHWIMS</b> <b>WI LUST</b> <b>WI CRS</b> <b>WI AUL</b> RCRA NonGen / NLR ECHO	1001226560 WIR000033225
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**WI ERP**  
 Status CLOSED  
 Site Id 6808400  
 Facility ID 113304950

**WI SHWIMS**



MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Site

Database(s)

EDR ID Number  
EPA ID Number

**GRUENBERGS SERVICE CENTER INC (Continued)**

1001226560

FID 113304950  
Status UNKNOWN

**WI LUST**

Facility Status CLOSED  
Site Id 6808400  
Facility ID 113304950

**WI CRS**

Site ID 6808400  
Facility ID 113304950

**WI AUL**

Status CLOSED  
Site Id 6808400  
Facid 113304950

**RCRA NonGen / NLR**

EPA Id WIR000033225

**W118  
NW  
1/4-1/2  
0.305 mi.  
1613 ft.**

**KLINKE CLEANERS  
1295 N SHERMAN  
MADISON, WI 53704**

**WI ERP  
WI SHWIMS  
WI DRYCLEANERS  
WI MANIFEST**

**S108153673  
N/A**

[Click here for full text details](#)

Relative:  
Higher

**WI ERP**

Status OPEN  
Site Id 1387000  
Facility ID 113197150

**WI SHWIMS**

FID 113197150  
Status OPERATING

**WI MANIFEST**

ACT Status I  
FID 113197150  
EPA ID WID988580726

**119  
SW  
1/4-1/2  
0.320 mi.  
1692 ft.**

**MIKES PLACE  
301 N SHERMAN AVE  
MADISON, WI**

**WI LUST  
WI CRS  
WI AUL**

**U003021969  
N/A**

[Click here for full text details](#)

Relative:  
Lower

**WI LUST**

Facility Status CLOSED



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MIKES PLACE (Continued)**

**U003021969**

Site Id 4622300  
Facility ID NONE

**WI AUL**

Status CLOSED  
Site Id 4622300  
Facid NONE

**W120  
NW  
1/4-1/2  
0.321 mi.  
1695 ft.**

**VALLEY BANK PROPERTY  
ABERG & SHERMAN AVE  
MADISON, WI**

**WI LUST S102451796  
N/A**

Relative:  
Higher

[Click here for full text details](#)

**WI LUST**

Facility Status CLOSED  
Site Id 3347000  
Facility ID NONE

**X121  
SSW  
1/4-1/2  
0.325 mi.  
1715 ft.**

**NATIONAL PROMOTIONS INC  
2310 PENNSYLVANIA AVE  
MADISON, WI 53704**

**WI SHWIMS 1000879935  
RCRA NonGen / NLR WID988639183  
ECHO**

Relative:  
Lower

[Click here for full text details](#)

**WI SHWIMS**

FID 113247420  
Status CLOSED

**RCRA NonGen / NLR**

EPA Id WID988639183

**122  
NNW  
1/4-1/2  
0.330 mi.  
1745 ft.**

**SHERMAN MIDDLE SCHOOL  
1610 RUSKIN STREET  
MADISON, WI 53704**

**WI SHWIMS S114399478  
WI ASBESTOS N/A  
WI TIER 2**

Relative:  
Higher

[Click here for full text details](#)

**WI SHWIMS**

FID 113423090  
Status OPERATING

**WI TIER 2**

Facility ID 3266  
Facility ID 81432



MAP FINDINGS

Map ID Direction Distance Elevation		Database(s)	EDR ID Number EPA ID Number
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123  
ENE  
1/4-1/2  
0.331 mi.  
1747 ft.

**SHOPKO STORE NO 034**  
2602 SHOPKO DR  
MADISON, WI 53704

**WI SHWIMS**  
**WI BROWNFIELDS**  
**WI ASBESTOS**  
**WI BRRTS**

**S108157478**  
**N/A**

[Click here for full text details](#)

Relative:  
Lower

**WI SHWIMS**  
FID 113264800  
Status OPERATING

**WI BROWNFIELDS**  
Status GEN PROP  
Facility ID 113264800  
Site Id 2925800

**WI BRRTS**  
Site Id 2925800  
Status NAR  
Status GEN PROP

[Click here for WDNR BRRTS Link](#)

X124  
SSW  
1/4-1/2  
0.343 mi.  
1810 ft.

**KNABE TOOL WORKS INC**  
2302 PENNSYLVANIA AVE  
MADISON, WI 53704

**WI SHWIMS**  
**RCRA NonGen / NLR**  
**FINDS**  
**ECHO**  
**WI MANIFEST**  
**WI NPDES**

**1004799445**  
**WIR000003434**

[Click here for full text details](#)

Relative:  
Lower

**WI SHWIMS**  
FID 113272500  
Status OPERATING

**RCRA NonGen / NLR**  
EPA Id WIR000003434

**FINDS**  
Registry ID: 110005509574

**WI MANIFEST**  
ACT Status A  
ACT Status I  
FID 113272500  
EPA ID WIR000003434

**WI NPDES**  
FIN 1959  
FID 113272500  
Status 6 - PERMIT COVERAGE GRANTED



MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
125 NW 1/4-1/2 0.379 mi. 2001 ft.	<b>SHERMAN SCHOOL</b> 1601 N SHERMAN AVE MADISON, WI  <a href="#">Click here for full text details</a>	WI LUST WI WRRSER	S101516490 N/A
Relative: Higher	<b>WI LUST</b> Facility Status CLOSED Site Id 3776700 Facility ID NONE		
Y126 SW 1/4-1/2 0.397 mi. 2098 ft.	<b>TONYS LITHO PROPERTY</b> 2249 SHERMAN AVE MADISON, WI  <a href="#">Click here for full text details</a>	WI LUST WI CRS WI AUL	S114852186 N/A
Relative: Lower	<b>WI LUST</b> Facility Status CLOSED Site Id 26539900 Facility ID NONE  <b>WI AUL</b> Status CLOSED Site Id 26539900 Facid NONE		
Y127 SW 1/4-1/2 0.422 mi. 2228 ft.	<b>FISH PROPERTY</b> 2237 SHERMAN AVE MADISON, WI  <a href="#">Click here for full text details</a>	WI ERP WI BROWNFIELDS WI BRRTS	S113928954 N/A
Relative: Lower	<b>WI ERP</b> Status CLOSED Site Id 26231900 Facility ID NONE  <b>WI BROWNFIELDS</b> Status GEN PROP Site Id 26231900  <b>WI BRRTS</b> Site Id 26231900 Status GEN PROP		



MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
128 WSW 1/4-1/2 0.439 mi. 2319 ft.	<b>BOCK PROPERTY</b> 11 CAMBRIDGE RD MADISON, WI  <a href="#">Click here for full text details</a>	WI LUST	S102454133 N/A
Relative: Lower	<b>WI LUST</b> Facility Status CLOSED Site Id 4011600 Facility ID NONE		
129 SSE 1/4-1/2 0.460 mi. 2430 ft.	<b>UW PRESS</b> 114 N MURRAY ST MADISON, WI  <a href="#">Click here for full text details</a>	WI LUST	S102452214 N/A
Relative: Higher	<b>WI LUST</b> Facility Status CLOSED Site Id 3476400 Facility ID NONE		
130 NNW 1/4-1/2 0.460 mi. 2431 ft.	<b>ZIMMER PROPERTY</b> 1813 SHERIDAN ST MADISON, WI  <a href="#">Click here for full text details</a>	WI LUST	S104397217 N/A
Relative: Higher	<b>WI LUST</b> Facility Status CLOSED Site Id 7410800 Facility ID NONE		
131 SSW 1/4-1/2 0.461 mi. 2434 ft.	<b>MADISON RAILYARD</b> 1890 E JOHNSON MADISON, WI 53700  <a href="#">Click here for full text details</a>	WI SHWIMS WI LUST RCRA NonGen / NLR ECHO	1004799850 WIR000017293
Relative: Lower	<b>WI SHWIMS</b> FID 113284490 Status OPERATING		
	<b>WI LUST</b> Facility Status CLOSED Site Id 3330000 Facility ID 113187140		
	<b>RCRA NonGen / NLR</b> EPA Id WIR000017293		



MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
132 WSW 1/4-1/2 0.484 mi. 2558 ft.	<b>STEGE PROPERTY</b> <b>82 CAMBRIDGE</b> <b>MAPLE BLUFF, WI</b>  <a href="#">Click here for full text details</a>	WI LUST	S101710072 N/A
Relative: Lower	<b>WI LUST</b> Facility Status CLOSED Site Id 4013000 Facility ID NONE		
133 WSW 1/4-1/2 0.487 mi. 2569 ft.	<b>SHOMBERG PROPERTY</b> <b>49 CAMBRIDGE RD</b> <b>MADISON, WI</b>  <a href="#">Click here for full text details</a>	WI LUST WI CRS WI AUL WI WRRSER	S101677495 N/A
Relative: Lower	<b>WI LUST</b> Facility Status CLOSED Site Id 3980000 Facility ID NONE  <b>WI AUL</b> Status CLOSED Site Id 3980000 Facid NONE		



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
WI	AG SPILLS	Agricultural Spill Cases	Department of Agriculture, Trade & Consumer P	09/11/2019	11/06/2019	01/15/2020
WI	AIRS	Air Permit Program Listing	Department of Natural Resources	10/24/2019	10/25/2019	12/13/2019
WI	ASBESTOS	Asbestos Notification Listing	Department of Natural Resources	08/26/2019	08/28/2019	11/08/2019
WI	AST	Tanks Database	Department of Agriculture, Trade & Consumer P	12/09/2019	12/11/2019	02/18/2020
WI	AUL	Deed Restriction at Closeout Sites	Department of Natural Resources	08/01/2019	09/30/2019	12/02/2019
WI	BEAP	Brownfields Environmental Assessment Program	Department of Natural Resources	12/31/2000	05/29/2001	06/29/2001
WI	BROWNFIELDS	Brownfields Site Locations Listing	Department of Natural Resources	08/01/2019	09/30/2019	12/02/2019
WI	BRTS	Bureau of Remediation & Redevelopment Tracking System	Department of Natural Resources	08/01/2019	09/30/2019	12/02/2019
WI	CDL	Clandestine Drug Lab Listing	Department of Justice	12/31/2016	03/19/2019	06/17/2019
WI	COAL ASH	Coal Ash Disposal Site Listing	Deaprtment of Natural Resources	06/24/2019	06/27/2019	09/03/2019
WI	CRS	Closed Remediation Sites	Department of Natural Resources	09/30/2019	09/30/2019	12/02/2019
WI	DRYCLEANERS	Five Star Recognition Program Sites	Department of Natural Resources	12/06/2019	12/09/2019	02/18/2020
WI	ERP	Environmental Repair Program Database	Department of Natural Resources	08/01/2019	09/30/2019	12/02/2019
WI	Financial Assurance 1	Financial Assurance Information Listing	Department of Natural Resources	11/15/2019	11/19/2019	01/24/2020
WI	Financial Assurance 2	Financial Assurance Information Listing	Department of Agriculture, Trade & Consumer P	09/20/2019	09/24/2019	11/26/2019
WI	Financial Assurance 3	Financial Assurance Information Listing	Department of Natural Resources	11/15/2019	11/19/2019	01/24/2020
WI	LAST	Leaking Aboveground Storage Tank Listing	Department of Natural Resources	08/01/2019	09/30/2019	12/02/2019
WI	LEAD	Lead Inspection Data	Department of Health & Family Services	12/13/2019	12/17/2019	02/24/2020
WI	LEAD CERT	Lead Safe Housing Registry	Department of Environmental & Occupation	12/11/2019	12/13/2019	02/24/2020
WI	LIENS	Environmental Liens Listing	Department of Natural Resources	08/01/2019	10/17/2019	12/10/2019
WI	LUST	Leaking Underground Storage Tank Database	Department of Natural Resources	08/01/2019	09/30/2019	12/02/2019
WI	NPDES	NPDES Permit Listing	Department of Natural Resources	11/18/2019	11/19/2019	01/24/2020
WI	PFAS	PFAS Contamination Site Location Listing	Department of Natural Resources	12/20/2019	12/23/2019	02/24/2020
WI	RGALF	Recovered Government Archive Solid Waste Facilities List	Department of Natural Resources	07/01/2013	01/13/2014	01/13/2014
WI	RGALUST	Recovered Government Archive Leaking Underground Storage Tan	Department of Natural Resources		07/01/2013	12/27/2013
WI	SHWIMS	Solid & Hazardous Waste Information Management System	Department of Natural Resources	12/18/2019	12/23/2019	02/25/2020
WI	SHWS	Hazard Ranking List	Department of Natural Resources	11/30/1994	02/10/1995	03/01/1995
WI	SPILLS	Spills Database	Department of Natural Resources	08/01/2019	09/30/2019	12/02/2019
WI	SPILLS 80	SPILLS80 data from FirstSearch	FirstSearch	03/31/2003	01/03/2013	03/01/2013
WI	SPILLS 90	SPILLS90 data from FirstSearch	FirstSearch	11/06/2012	01/03/2013	02/11/2013
WI	SWF/LF	List of Licensed Landfills	Department of Natural Resources	09/23/2019	09/24/2019	11/22/2019
WI	SWRCY	Recycling Center Listing	Solid & Hazardous Waste Education center	10/25/2019	10/25/2019	12/13/2019
WI	TIER 2	Tier 2 Facility Listing	Department of Natural Resources	12/31/2018	05/16/2019	07/31/2019
WI	UST	Registered Underground Storage Tanks	Department of Agriculture, Trade & Consumer P	12/09/2019	12/11/2019	02/18/2020
WI	VCP	Voluntary Party Liability Exemption Sites	Department of Natural Resources	08/01/2019	09/30/2019	12/02/2019
WI	WDS	Registry of Waste Disposal Sites	Department of Natural Resources	07/22/2013	10/03/2013	11/15/2013
WI	WI MANIFEST	Manifest Information	Department of Natural Resources	05/31/2018	06/19/2019	09/03/2019
WI	WRRSER	Wisconsin Remedial Response Site Evaluation Report	Department of Natural Resources	10/01/1995	01/02/1996	02/01/1996
US	2020 COR ACTION	2020 Corrective Action Program List	Environmental Protection Agency	09/30/2017	05/08/2018	07/20/2018
US	ABANDONED MINES	Abandoned Mines	Department of Interior	12/09/2019	12/11/2019	02/27/2020
US	BRS	Biennial Reporting System	EPANTIS	12/31/2015	02/22/2017	09/28/2017
US	COAL ASH DOE	Steam-Electric Plant Operation Data	Department of Energy	12/31/2018	12/04/2019	01/15/2020
US	COAL ASH EPA	Coal Combustion Residues Surface Impoundments List	Environmental Protection Agency	01/12/2017	03/05/2019	11/11/2019
US	CONSENT	Superfund (CERCLA) Consent Decrees	Department of Justice, Consent Decree Library	09/30/2019	10/09/2019	12/20/2019
US	CORRACTS	Corrective Action Report	EPA	12/16/2019	12/16/2019	12/20/2019
US	DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations	EPA, Region 9	01/12/2009	05/07/2009	09/21/2009
US	DOCKET HWC	Hazardous Waste Compliance Docket Listing	Environmental Protection Agency	05/31/2018	07/26/2018	10/05/2018



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	DOD	Department of Defense Sites	USGS	12/31/2005	11/10/2006	01/11/2007
US	DOT OPS	Incident and Accident Data	Department of Transportation, Office of Pipeli	10/01/2019	10/29/2019	01/15/2020
US	Delisted NPL	National Priority List Deletions	EPA	01/30/2020	02/05/2020	02/14/2020
US	ECHO	Enforcement & Compliance History Information	Environmental Protection Agency	10/06/2019	10/08/2019	01/02/2020
US	EDR Hist Auto	EDR Exclusive Historical Auto Stations	EDR, Inc.			
US	EDR Hist Cleaner	EDR Exclusive Historical Cleaners	EDR, Inc.			
US	EDR MGP	EDR Proprietary Manufactured Gas Plants	EDR, Inc.			
US	EPA WATCH LIST	EPA WATCH LIST	Environmental Protection Agency	08/30/2013	03/21/2014	06/17/2014
US	ERNS	Emergency Response Notification System	National Response Center, United States Coast	09/09/2019	09/09/2019	09/23/2019
US	FEDERAL FACILITY	Federal Facility Site Information listing	Environmental Protection Agency	04/03/2019	04/05/2019	05/14/2019
US	FEDLAND	Federal and Indian Lands	U.S. Geological Survey	04/02/2018	04/11/2018	11/06/2019
US	FEMA UST	Underground Storage Tank Listing	FEMA	08/27/2019	08/28/2019	11/11/2019
US	FINDS	Facility Index System/Facility Registry System	EPA	11/22/2019	12/04/2019	03/02/2020
US	FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA/Office of Prevention, Pesticides and Toxi	04/09/2009	04/16/2009	05/11/2009
US	FTTS INSP	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA	04/09/2009	04/16/2009	05/11/2009
US	FUDS	Formerly Used Defense Sites	U.S. Army Corps of Engineers	11/12/2019	11/19/2019	01/28/2020
US	FUELS PROGRAM	EPA Fuels Program Registered Listing	EPA	11/18/2019	11/19/2019	01/28/2020
US	FUSRAP	Formerly Utilized Sites Remedial Action Program	Department of Energy	08/08/2017	09/11/2018	09/14/2018
US	HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HIST FTTS INSP	FIFRA/TSCA Tracking System Inspection & Enforcement Case Lis	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HMIRS	Hazardous Materials Information Reporting System	U.S. Department of Transportation	12/05/2019	12/06/2019	02/14/2020
US	ICIS	Integrated Compliance Information System	Environmental Protection Agency	11/18/2016	11/23/2016	02/10/2017
US	IHS OPEN DUMPS	Open Dumps on Indian Land	Department of Health & Human Services, Indian	04/01/2014	08/06/2014	01/29/2015
US	INDIAN LUST R1	Leaking Underground Storage Tanks on Indian Land	EPA Region 1	10/01/2019	12/04/2019	02/10/2020
US	INDIAN LUST R10	Leaking Underground Storage Tanks on Indian Land	EPA Region 10	10/11/2019	12/04/2019	02/10/2020
US	INDIAN LUST R4	Leaking Underground Storage Tanks on Indian Land	EPA Region 4	10/10/2019	12/05/2019	02/10/2020
US	INDIAN LUST R5	Leaking Underground Storage Tanks on Indian Land	EPA, Region 5	10/01/2019	12/04/2019	02/10/2020
US	INDIAN LUST R6	Leaking Underground Storage Tanks on Indian Land	EPA Region 6	10/02/2019	12/04/2019	02/10/2020
US	INDIAN LUST R7	Leaking Underground Storage Tanks on Indian Land	EPA Region 7	10/15/2019	12/17/2019	02/10/2020
US	INDIAN LUST R8	Leaking Underground Storage Tanks on Indian Land	EPA Region 8	10/03/2019	12/04/2019	02/14/2020
US	INDIAN LUST R9	Leaking Underground Storage Tanks on Indian Land	Environmental Protection Agency	10/04/2019	12/04/2019	02/27/2020
US	INDIAN ODI	Report on the Status of Open Dumps on Indian Lands	Environmental Protection Agency	12/31/1998	12/03/2007	01/24/2008
US	INDIAN RESERV	Indian Reservations	USGS	12/31/2014	07/14/2015	01/10/2017
US	INDIAN UST R1	Underground Storage Tanks on Indian Land	EPA, Region 1	10/01/2019	12/04/2019	02/10/2020
US	INDIAN UST R10	Underground Storage Tanks on Indian Land	EPA Region 10	10/11/2019	12/04/2019	02/10/2020
US	INDIAN UST R4	Underground Storage Tanks on Indian Land	EPA Region 4	10/10/2019	12/05/2019	02/10/2020
US	INDIAN UST R5	Underground Storage Tanks on Indian Land	EPA Region 5	10/01/2019	12/04/2019	02/10/2020
US	INDIAN UST R6	Underground Storage Tanks on Indian Land	EPA Region 6	10/02/2019	12/04/2019	02/10/2020
US	INDIAN UST R7	Underground Storage Tanks on Indian Land	EPA Region 7	10/11/2019	12/04/2019	02/10/2020
US	INDIAN UST R8	Underground Storage Tanks on Indian Land	EPA Region 8	10/03/2019	12/04/2019	02/14/2020
US	INDIAN UST R9	Underground Storage Tanks on Indian Land	EPA Region 9	10/04/2019	12/04/2019	02/27/2020
US	INDIAN VCP R1	Voluntary Cleanup Priority Listing	EPA, Region 1	07/27/2015	09/29/2015	02/18/2016
US	INDIAN VCP R7	Voluntary Cleanup Priority Lisitng	EPA, Region 7	03/20/2008	04/22/2008	05/19/2008
US	LEAD SMELTER 1	Lead Smelter Sites	Environmental Protection Agency	01/30/2020	02/05/2020	02/14/2020
US	LEAD SMELTER 2	Lead Smelter Sites	American Journal of Public Health	04/05/2001	10/27/2010	12/02/2010
US	LIENS 2	CERCLA Lien Information	Environmental Protection Agency	01/30/2020	02/05/2020	02/14/2020
US	LUCIS	Land Use Control Information System	Department of the Navy	11/04/2019	11/13/2019	01/28/2020



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	MINES MRDS	Mineral Resources Data System	USGS	04/06/2018	10/21/2019	10/24/2019
US	MINES VIOLATIONS	MSHA Violation Assessment Data	DOL, Mine Safety & Health Admi	12/03/2019	12/03/2019	01/28/2020
US	MLTS	Material Licensing Tracking System	Nuclear Regulatory Commission	10/25/2019	10/25/2019	01/15/2020
US	NPL	National Priority List	EPA	01/30/2020	02/05/2020	02/14/2020
US	NPL LIENS	Federal Superfund Liens	EPA	10/15/1991	02/02/1994	03/30/1994
US	ODI	Open Dump Inventory	Environmental Protection Agency	06/30/1985	08/09/2004	09/17/2004
US	PADS	PCB Activity Database System	EPA	10/09/2019	10/11/2019	12/20/2019
US	PCB TRANSFORMER	PCB Transformer Registration Database	Environmental Protection Agency	09/13/2019	11/06/2019	02/10/2020
US	PRP	Potentially Responsible Parties	EPA	01/30/2020	02/06/2020	02/14/2020
US	Proposed NPL	Proposed National Priority List Sites	EPA	01/30/2020	02/05/2020	02/14/2020
US	RAATS	RCRA Administrative Action Tracking System	EPA	04/17/1995	07/03/1995	08/07/1995
US	RADINFO	Radiation Information Database	Environmental Protection Agency	07/01/2019	07/01/2019	09/23/2019
US	RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated	Environmental Protection Agency	12/16/2019	12/16/2019	12/20/2019
US	RCRA-LQG	RCRA - Large Quantity Generators	Environmental Protection Agency	12/16/2019	12/16/2019	12/20/2019
US	RCRA-SQG	RCRA - Small Quantity Generators	Environmental Protection Agency	12/16/2019	12/16/2019	12/20/2019
US	RCRA-TSDF	RCRA - Treatment, Storage and Disposal	Environmental Protection Agency	12/16/2019	12/16/2019	12/20/2019
US	RCRA-VSQG	RCRA - Very Small Quantity Generators (Formerly Conditionall	Environmental Protection Agency	12/16/2019	12/16/2019	12/20/2019
US	RMP	Risk Management Plans	Environmental Protection Agency	04/25/2019	05/02/2019	05/23/2019
US	ROD	Records Of Decision	EPA	01/30/2020	02/05/2020	02/14/2020
US	SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing	Environmental Protection Agency	01/01/2017	02/03/2017	04/07/2017
US	SEMS	Superfund Enterprise Management System	EPA	01/30/2020	02/05/2020	02/14/2020
US	SEMS-ARCHIVE	Superfund Enterprise Management System Archive	EPA	01/30/2020	02/05/2020	02/14/2020
US	SSTS	Section 7 Tracking Systems	EPA	05/01/2019	10/23/2019	01/15/2020
US	TRIS	Toxic Chemical Release Inventory System	EPA	12/31/2017	11/16/2018	11/21/2019
US	TSCA	Toxic Substances Control Act	EPA	12/31/2016	06/21/2017	01/05/2018
US	UMTRA	Uranium Mill Tailings Sites	Department of Energy	08/30/2019	11/15/2019	01/28/2020
US	US AIRS (AFS)	Aerometric Information Retrieval System Facility Subsystem (	EPA	10/12/2016	10/26/2016	02/03/2017
US	US AIRS MINOR	Air Facility System Data	EPA	10/12/2016	10/26/2016	02/03/2017
US	US BROWNFIELDS	A Listing of Brownfields Sites	Environmental Protection Agency	06/03/2019	06/04/2019	08/26/2019
US	US CDL	Clandestine Drug Labs	Drug Enforcement Administration	06/11/2019	06/13/2019	09/03/2019
US	US ENG CONTROLS	Engineering Controls Sites List	Environmental Protection Agency	11/22/2019	11/22/2019	01/28/2020
US	US FIN ASSUR	Financial Assurance Information	Environmental Protection Agency	12/16/2019	12/19/2019	02/27/2020
US	US HIST CDL	National Clandestine Laboratory Register	Drug Enforcement Administration	06/11/2019	06/13/2019	09/03/2019
US	US INST CONTROL	Sites with Institutional Controls	Environmental Protection Agency	11/22/2019	11/22/2019	01/28/2020
US	US MINES	Mines Master Index File	Department of Labor, Mine Safety and Health A	11/06/2019	11/25/2019	01/28/2020
US	US MINES 2	Ferrous and Nonferrous Metal Mines Database Listing	USGS	12/05/2005	02/29/2008	04/18/2008
US	US MINES 3	Active Mines & Mineral Plants Database Listing	USGS	04/14/2011	06/08/2011	09/13/2011
US	UXO	Unexploded Ordnance Sites	Department of Defense	12/31/2017	01/17/2019	04/01/2019



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
CT	CT MANIFEST	Hazardous Waste Manifest Data	Department of Energy & Environmental Protecti	05/14/2019	12/05/2019	02/03/2020
NJ	NJ MANIFEST	Manifest Information	Department of Environmental Protection	12/31/2018	04/10/2019	05/16/2019
NY	NY MANIFEST	Facility and Manifest Data	Department of Environmental Conservation	01/01/2019	05/01/2019	06/21/2019
PA	PA MANIFEST	Manifest Information	Department of Environmental Protection	06/30/2018	07/19/2019	09/10/2019
RI	RI MANIFEST	Manifest information	Department of Environmental Management	12/31/2018	10/02/2019	12/10/2019
VT	VT MANIFEST	Hazardous Waste Manifest Data	Department of Environmental Conservation	10/28/2019	10/29/2019	01/09/2020
US	AHA Hospitals	Sensitive Receptor: AHA Hospitals	American Hospital Association, Inc.			
US	Medical Centers	Sensitive Receptor: Medical Centers	Centers for Medicare & Medicaid Services			
US	Nursing Homes	Sensitive Receptor: Nursing Homes	National Institutes of Health			
US	Public Schools	Sensitive Receptor: Public Schools	National Center for Education Statistics			
US	Private Schools	Sensitive Receptor: Private Schools	National Center for Education Statistics			
WI	Daycare Centers	Sensitive Receptor: Day Care Directory	Department of Health & Family Services			
US	Flood Zones	100-year and 500-year flood zones	Emergency Management Agency (FEMA)			
US	NWI	National Wetlands Inventory	U.S. Fish and Wildlife Service			
US	Topographic Map		U.S. Geological Survey			
US	Oil/Gas Pipelines		Endeavor Business Media			
US	Electric Power Transmission Line Data		Endeavor Business Media			

### STREET AND ADDRESS INFORMATION

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## GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE ADDENDUM

### TARGET PROPERTY ADDRESS

910 MAYER ST  
910 MAYER ST  
MADISON, WI 53704

### TARGET PROPERTY COORDINATES

Latitude (North): 43.110272 - 43° 6' 36.98"  
Longitude (West): 89.356738 - 89° 21' 24.26"  
Universal Transverse Mercator: Zone 16  
UTM X (Meters): 308241.0  
UTM Y (Meters): 4775541.5  
Elevation: 859 ft. above sea level

### USGS TOPOGRAPHIC MAP

Target Property Map: 5954805 MADISON EAST, WI  
Version Date: 2013

Northeast Map: 5954797 DE FOREST, WI  
Version Date: 2013

Southwest Map: 5954807 MADISON WEST, WI  
Version Date: 2013

Northwest Map: 5953805 WAUNAKEE, WI  
Version Date: 2013

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.



# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

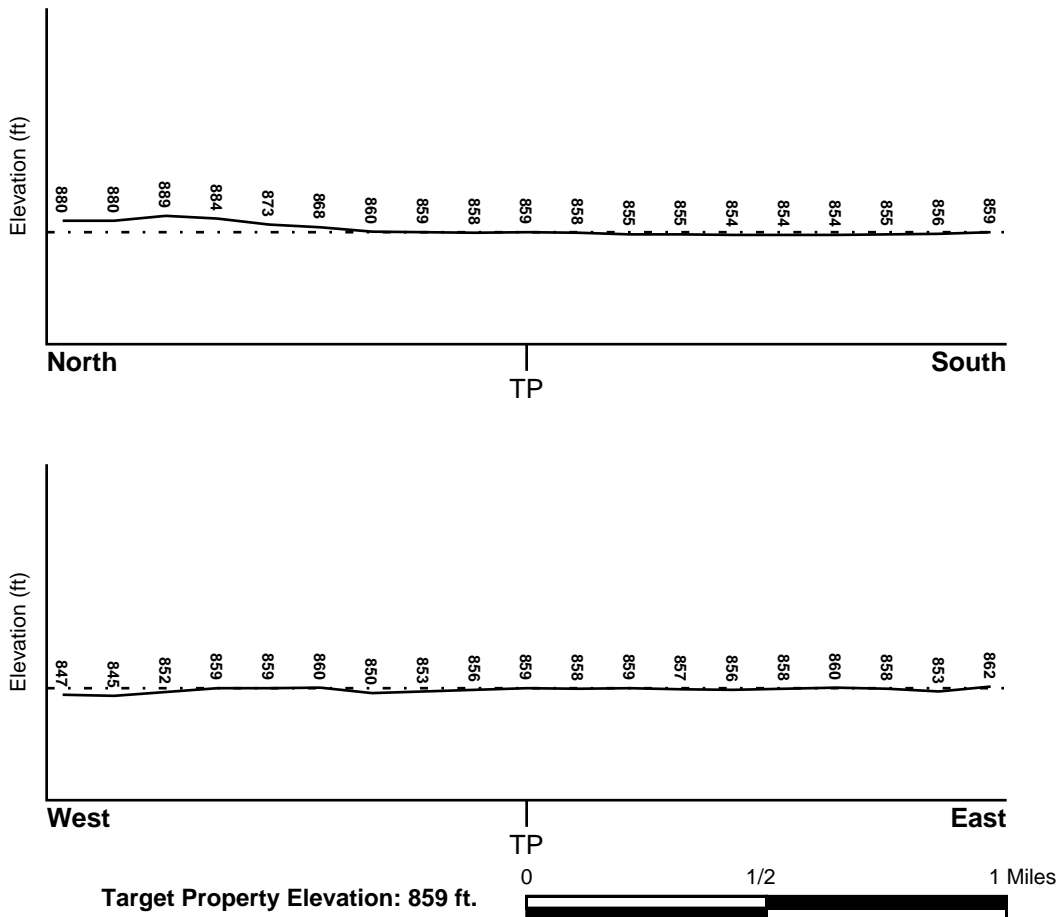
## TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General WSW

## SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.



# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

## FEMA FLOOD ZONE

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
55025C0426H	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
55025C0427H	FEMA FIRM Flood data
55025C0407G	FEMA FIRM Flood data

## NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
MADISON EAST	YES - refer to the Overview Map and Detail Map

## HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

### **Site-Specific Hydrogeological Data\*:**

Search Radius:	1.25 miles
Status:	Not found

## AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
6	1/8 - 1/4 Mile SE	Varies
9	1/4 - 1/2 Mile SE	Flat
10	1/4 - 1/2 Mile SSW	W
C11	1/4 - 1/2 Mile WNW	NE
C12	1/4 - 1/2 Mile WNW	N
D13	1/4 - 1/2 Mile SSW	Not Reported
14	1/4 - 1/2 Mile SW	ENE

\* ©1996 Site-specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
D15	1/2 - 1 Mile SSW	W
18	1/2 - 1 Mile SW	W
19	1/2 - 1 Mile WSW	Not Reported
G22	1/2 - 1 Mile SSW	Not Reported
23	1/2 - 1 Mile SSW	Not Reported
H24	1/2 - 1 Mile SE	SW
H25	1/2 - 1 Mile SE	SSW
G26	1/2 - 1 Mile SSW	Not Reported
I27	1/2 - 1 Mile SE	SW
I28	1/2 - 1 Mile SE	S
J29	1/2 - 1 Mile SSE	S, SW
I30	1/2 - 1 Mile SE	SW
J31	1/2 - 1 Mile SSE	WNW
K32	1/2 - 1 Mile SSW	SE
L33	1/2 - 1 Mile SW	NW
L34	1/2 - 1 Mile SW	N
M35	1/2 - 1 Mile ESE	Not Reported
K36	1/2 - 1 Mile SSW	SE
M38	1/2 - 1 Mile ESE	E
39	1/2 - 1 Mile ESE	E
40	1/2 - 1 Mile South	SE
41	1/2 - 1 Mile SSE	Not Reported
42	1/2 - 1 Mile North	SW
43	1/2 - 1 Mile SSW	NW
44	1/2 - 1 Mile South	SW
1G	1/2 - 1 Mile North	SW
2G	1/4 - 1/2 Mile WNW	N
3G	1/4 - 1/2 Mile WNW	NE
4G	1/8 - 1/4 Mile SE	Varies
5G	1/2 - 1 Mile WSW	Not Reported
6G	1/4 - 1/2 Mile SE	Flat
7G	1/4 - 1/2 Mile SW	ENE
8G	1/4 - 1/2 Mile SSW	W
9G	1/2 - 1 Mile ESE	E
10G	1/2 - 1 Mile ESE	E
11G	1/2 - 1 Mile ESE	Not Reported
12G	1/4 - 1/2 Mile SSW	Not Reported
13G	1/2 - 1 Mile SW	W
14G	1/2 - 1 Mile SE	SW
15G	1/2 - 1 Mile SSW	W
16G	1/2 - 1 Mile SE	S
17G	1/2 - 1 Mile SE	SW
18G	1/2 - 1 Mile SE	SW
19G	1/2 - 1 Mile SE	SSW
20G	1/2 - 1 Mile SSW	Not Reported
21G	1/2 - 1 Mile SW	NW
22G	1/2 - 1 Mile SW	N
23G	1/2 - 1 Mile SSE	S, SW
24G	1/2 - 1 Mile SSE	WNW
25G	1/2 - 1 Mile SSW	Not Reported
26G	1/2 - 1 Mile SSW	Not Reported
27G	1/2 - 1 Mile SSW	SE
28G	1/2 - 1 Mile SSW	SE
29G	1/2 - 1 Mile SSE	Not Reported
30G	1/2 - 1 Mile South	SE
31G	1/2 - 1 Mile SSW	NW



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
32G	1/2 - 1 Mile South	SW

For additional site information, refer to Physical Setting Source Map Findings.



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

### GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

#### **ROCK STRATIGRAPHIC UNIT**

Era:	Paleozoic
System:	Ordovician
Series:	Lower Ordovician (Canadian)
Code:	O1 ( <i>decoded above as Era, System &amp; Series</i> )

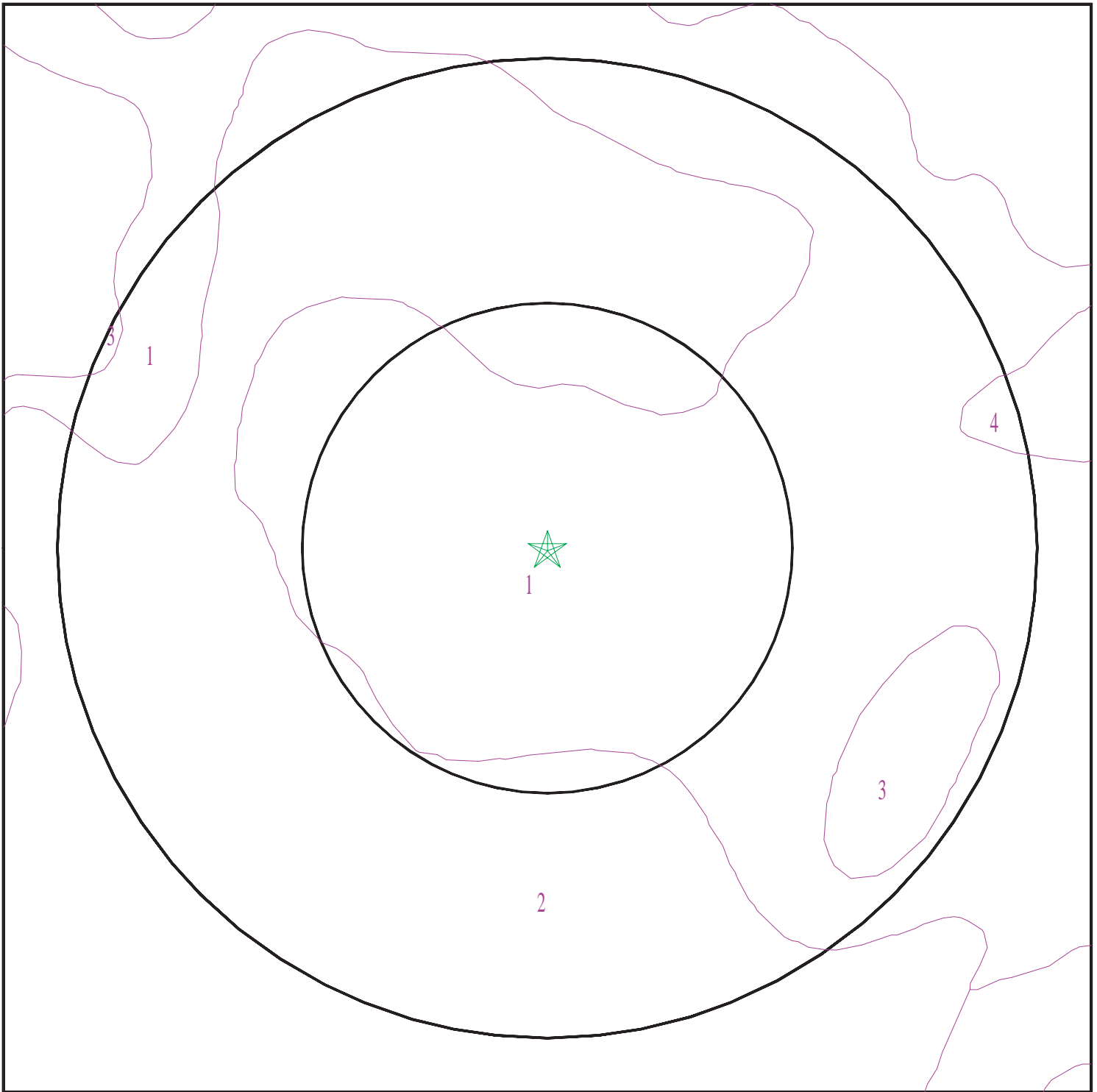
#### **GEOLOGIC AGE IDENTIFICATION**

Category: Stratified Sequence

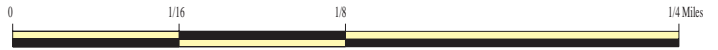
Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).



# SSURGO SOIL MAP - 5995086.2s



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water



SITE NAME: 910 Mayer St  
ADDRESS: 910 Mayer St  
          Madison WI 53704  
LAT/LONG: 43.110272 / 89.356738

CLIENT: Sigma Env. Services, Inc.  
CONTACT: Mairead Rauch  
INQUIRY #: 5995086.2s  
DATE: March 04, 2020 2:45 pm



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

#### Soil Map ID: 1

Soil Component Name: Virgil

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	9 inches	silt loam	Not reported	Not reported	Max: 141 Min: 141	Max: 8.4 Min: 6.1
2	9 inches	14 inches	silt loam	Not reported	Not reported	Max: 141 Min: 141	Max: 8.4 Min: 6.1
3	14 inches	51 inches	silty clay loam	Not reported	Not reported	Max: 141 Min: 141	Max: 8.4 Min: 6.1
4	51 inches	55 inches	sandy clay loam	Not reported	Not reported	Max: 141 Min: 141	Max: 8.4 Min: 6.1
5	55 inches	59 inches	sand and gravel	Not reported	Not reported	Max: 141 Min: 141	Max: 8.4 Min: 6.1

#### Soil Map ID: 2

Soil Component Name: Colwood

Soil Surface Texture: silt loam

Hydrologic Group: Class B/D - Drained/undrained hydrology class of soils that can be drained and are classified.

Soil Drainage Class: Poorly drained



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	9 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 8.4 Min: 7.4
2	9 inches	24 inches	loam	Not reported	Not reported	Max: 14 Min: 4	Max: 8.4 Min: 7.4
3	24 inches	59 inches	stratified fine sand to silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 8.4 Min: 7.4

### Soil Map ID: 3

Soil Component Name: Batavia

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	9 inches	silt loam	Not reported	Not reported	Max: 141 Min: 141	Max: 8.4 Min: 7.4



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	9 inches	44 inches	silty clay loam	Not reported	Not reported	Max: 141 Min: 141	Max: 8.4 Min: 7.4
3	44 inches	50 inches	gravelly clay loam	Not reported	Not reported	Max: 141 Min: 141	Max: 8.4 Min: 7.4
4	50 inches	59 inches	sand and gravel	Not reported	Not reported	Max: 141 Min: 141	Max: 8.4 Min: 7.4

### Soil Map ID: 4

Soil Component Name: Sable

Soil Surface Texture: silty clay loam

Hydrologic Group: Class B/D - Drained/undrained hydrology class of soils that can be drained and are classified.

Soil Drainage Class: Poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	18 inches	silty clay loam	Not reported	Not reported	Max: 14 Min: 4	Max: 8.4 Min: 6.6
2	18 inches	25 inches	silty clay loam	Not reported	Not reported	Max: 14 Min: 4	Max: 8.4 Min: 6.6
3	25 inches	42 inches	silty clay loam	Not reported	Not reported	Max: 14 Min: 4	Max: 8.4 Min: 6.6
4	42 inches	59 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 8.4 Min: 6.6



# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

## WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

## FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	USGS40001309937	0 - 1/8 Mile NW
A2	USGS40001329658	0 - 1/8 Mile SSW
A3	USGS40001309933	1/8 - 1/4 Mile SSW
4	USGS40001309927	1/8 - 1/4 Mile South
B5	USGS40001309967	1/8 - 1/4 Mile North
7	USGS40001309912	1/8 - 1/4 Mile South
B8	USGS40001309971	1/4 - 1/2 Mile North
E16	USGS40001310007	1/2 - 1 Mile North
E17	USGS40001329667	1/2 - 1 Mile North
F21	USGS40001310012	1/2 - 1 Mile NNW
45	USGS40001309869	1/2 - 1 Mile SW

## FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

## STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
F20	WI5000000015680	1/2 - 1 Mile NNW
37	WI5000000335849	1/2 - 1 Mile West

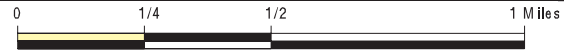


# PHYSICAL SETTING SOURCE MAP - 5995086.2s



- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data



SITE NAME: 910 Mayer St  
 ADDRESS: 910 Mayer St  
 Madison WI 53704  
 LAT/LONG: 43.110272 / 89.356738

CLIENT: Sigma Env. Services, Inc.  
 CONTACT: Mairead Rauch  
 INQUIRY #: 5995086.2s  
 DATE: March 04, 2020 2:45 pm



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID	Direction	Distance	Elevation	Database	EDR ID Number
1	NW	0 - 1/8 Mile	Lower	FED USGS	USGS40001309937
<a href="#">Click here for full text details</a>					
A2	SSW	0 - 1/8 Mile	Higher	FED USGS	USGS40001329658
<a href="#">Click here for full text details</a>					
A3	SSW	1/8 - 1/4 Mile	Lower	FED USGS	USGS40001309933
<a href="#">Click here for full text details</a>					
4	South	1/8 - 1/4 Mile	Lower	FED USGS	USGS40001309927
<a href="#">Click here for full text details</a>					
B5	North	1/8 - 1/4 Mile	Higher	FED USGS	USGS40001309967
<a href="#">Click here for full text details</a>					
6	SE	1/8 - 1/4 Mile	Higher	AQUIFLOW	44931
<a href="#">Click here for full text details</a>					
7	South	1/8 - 1/4 Mile	Lower	FED USGS	USGS40001309912
<a href="#">Click here for full text details</a>					
B8	North	1/4 - 1/2 Mile	Higher	FED USGS	USGS40001309971
<a href="#">Click here for full text details</a>					



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
9 SE 1/4 - 1/2 Mile Higher	<a href="#">Click here for full text details</a>	AQUIFLOW	45746
10 SSW 1/4 - 1/2 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	45398
C11 WNW 1/4 - 1/2 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	44998
C12 WNW 1/4 - 1/2 Mile Higher	<a href="#">Click here for full text details</a>	AQUIFLOW	44826
D13 SSW 1/4 - 1/2 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	45484
14 SW 1/4 - 1/2 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	44744
D15 SSW 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	44899
E16 North 1/2 - 1 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS40001310007
E17 North 1/2 - 1 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS40001329667



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
18 SW 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	44856
19 WSW 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	45013
F20 NNW 1/2 - 1 Mile Higher	<a href="#">Click here for full text details</a>	WI WELLS	WI5000000015680
F21 NNW 1/2 - 1 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS40001310012
G22 SSW 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	45416
23 SSW 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	44992
H24 SE 1/2 - 1 Mile Higher	<a href="#">Click here for full text details</a>	AQUIFLOW	45016
H25 SE 1/2 - 1 Mile Higher	<a href="#">Click here for full text details</a>	AQUIFLOW	44960
G26 SSW 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	44820



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
I27 SE 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	44966
I28 SE 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	45753
J29 SSE 1/2 - 1 Mile Higher	<a href="#">Click here for full text details</a>	AQUIFLOW	44745
I30 SE 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	44772
J31 SSE 1/2 - 1 Mile Higher	<a href="#">Click here for full text details</a>	AQUIFLOW	44959
K32 SSW 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	45331
L33 SW 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	44762
L34 SW 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	45000
M35 ESE 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	45552



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
K36 SSW 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	45697
37 West 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	WI WELLS	WI5000000335849
M38 ESE 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	44853
39 ESE 1/2 - 1 Mile Higher	<a href="#">Click here for full text details</a>	AQUIFLOW	45017
40 South 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	44741
41 SSE 1/2 - 1 Mile Higher	<a href="#">Click here for full text details</a>	AQUIFLOW	45412
42 North 1/2 - 1 Mile Higher	<a href="#">Click here for full text details</a>	AQUIFLOW	45524
43 SSW 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	45045
44 South 1/2 - 1 Mile Higher	<a href="#">Click here for full text details</a>	AQUIFLOW	45494



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
45 SW 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	FED USGS	USGS40001309869
1G North 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	45524
2G WNW 1/4 - 1/2 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	44826
3G WNW 1/4 - 1/2 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	44998
4G SE 1/8 - 1/4 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	44931
5G WSW 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	45013
6G SE 1/4 - 1/2 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	45746
7G SW 1/4 - 1/2 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	44744
8G SSW 1/4 - 1/2 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	45398



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
9G ESE 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	45017
10G ESE 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	44853
11G ESE 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	45552
12G SSW 1/4 - 1/2 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	45484
13G SW 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	44856
14G SE 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	44772
15G SSW 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	44899
16G SE 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	45753
17G SE 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	44966



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
18G SE 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	45016
19G SE 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	44960
20G SSW 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	44992
21G SW 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	44762
22G SW 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	45000
23G SSE 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	44745
24G SSE 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	44959
25G SSW 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	45416
26G SSW 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	44820



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
27G SSW 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	45331
28G SSW 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	45697
29G SSE 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	45412
30G South 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	44741
31G SSW 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	45045
32G South 1/2 - 1 Mile Lower	<a href="#">Click here for full text details</a>	AQUIFLOW	45494



# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

State Database: WI Radon

### Radon Test Results

Num Tests	# 4-10 pCi/L	# > 10 pCi/L	Avg pCi/L	Max pCi/L
341	77	26	3.9	30.0

Federal EPA Radon Zone for DANE County: 1

- Note: Zone 1 indoor average level > 4 pCi/L.  
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.  
 : Zone 3 indoor average level < 2 pCi/L.

---

Federal Area Radon Information for Zip Code: 53704

Number of sites tested: 9

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	Not Reported	Not Reported	Not Reported	Not Reported
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	3.078 pCi/L	89%	11%	0%



# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Source: U.S. Geological Survey

## HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

## HYDROGEOLOGIC INFORMATION

AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.



# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

### FEDERAL WATER WELLS

#### PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

#### PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

#### USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

### STATE RECORDS

#### Wisconsin Well Construction Report File

Source: Department of Natural Resources

Telephone: 608-266-0153

In the past, not all latitude/longitudes were accurate. Many were protracted from centroid (center of the quarter sections given in PLSS). The ones that were not accurate were removed from the well database.

## OTHER STATE DATABASE INFORMATION

### RADON

#### State Database: WI Radon

Source: Department of Health & Family Services

Telephone: 608-266-1865

Wisconsin Measurement Summary

#### Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

#### EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

### OTHER

#### Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

#### Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey



# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## STREET AND ADDRESS INFORMATION

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**APPENDIX F**

**BRRTS #02-13-580723  
Oscar Mayer Former Spice Room Building 43  
Remediation Technology Screening Report**



09 December 2019

Michael Schmoller  
Remediation and Redevelopment Program  
Wisconsin Department of Natural Resources (WDNR)  
3911 Fish Hatchery Rd.  
Fitchburg, WI 53711



Subject: Remediation Technology Screening  
Former Spice Room - BRRTS Activity # 02-13-580723  
910 Mayer Avenue  
Madison, Wisconsin

Dear Mr. Schmoller,

ERM completed additional site investigation activities and remedial technology screening for the 910 Mayer property located in Madison, Wisconsin. The scope of these activities was consistent with discussion with the Wisconsin Department of Natural Resources (WDNR) in a meeting on July 10, 2019. The WDNR verbally requested site investigation data including analytical results. In addition, the WDNR requested 910 Mayer, LLC complete a remedial technology screening to evaluate remedial alternatives for the former Spice Room (Spice Room) release incident. This letter is in response to the WDNR request. The Site is located in the city of Madison, WI as shown in Figure 1.

### **Additional Investigation**

The former Spice Room was located in Building 43. Based on discussions with the WDNR, ERM conducted an additional round of groundwater sampling at SR-MW-14, SR-MW-15, SR-MW-16A, and SR-MW-16B. Previous investigations includes soil and soil gas testing. Groundwater samples were submitted to Pace Analytical of Green Bay, Wisconsin and laboratory analytical results are provided as Attachment A. Laboratory analytical results were compared to WDNR criteria (as specified in WAC NR140) and an updated summary table for groundwater is provided as Table 1.

Concentrations of TCE in groundwater on August 29, 2019 were generally consistent with the concentrations detected in groundwater on May 9, 2019. Increases in cis-1,2 dichloroethylene concentrations were noted in SR-MW-14 and SR-MW-16B; however, concentrations of TCE in groundwater in August 2019 were all below the WAC NR140 Groundwater Enforcement Standard (ES).

ERM completed a gauging event of the groundwater monitoring wells and Demetral Landfill wells on August 30, 2019 to evaluate groundwater flow direction. Groundwater elevation contour maps for the shallow and intermediate aquifers are provided as Figure 2 and 3, respectively. Based upon these two contour maps, the groundwater flow direction for both the shallow and intermediate aquifer is to the south-southeast.



Based on investigations completed, the primary concern for the former Spice Room is concentrations of TCE in sub-slab samples that exceed WDNR sub-slab vapor criteria. Sub-slab sampling results are shown on Figure 4. Based on the investigations completed, the TCE appears to be present in shallow vadose zone fill materials that underlie the former Spice Room and Building 43. The extent of soil gas, soil, and groundwater impacts has been sufficiently defined to evaluate remedial technologies.

### Remedial Technology Screening

The remedial technology screening was conducted in general accordance with Chapter NR 722 of the Wisconsin Administrative Code (WAC), Standards for Selecting Remedial Actions. The remedial technology screening considered the soil vapor and unsaturated soil under the applicable scenarios. Based on the site investigation completed to date, the exposure pathways appropriate to the former Spice Room release primarily includes the vapor air pathway, and secondarily the soil-to-groundwater pathway and the groundwater ingestion pathway. Note that groundwater data does not suggest the soil-to-groundwater pathway is complete, likely due to the presence of the building which prevents leaching of affected soils.

The applicability of remedial technologies to address sub-slab vapors in the fill materials were evaluated. Table B1 included in Attachment B provides a decision matrix for considering appropriate remedial options for the former Spice Room.

The key findings of the remedial technology screening for shallow soils and sub-slab vapor are as follows:

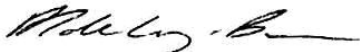
- Soil Vapor Extraction (SVE) was the only retained remedial option. Depending on system design, the SVE source area technology may require a complementary sub-slab depressurization system (SSDS) in distal areas to mitigate vapor intrusion risks.

Based on the results of the remedial technology screening the proposed next steps include:

- Prepare a conceptual design of the retained remedial option to develop understanding of the anticipated performance and costs of each retained option.
- Perform a pilot test to further evaluate the feasibility of sub-slab depressurization and SVE to meet remedial goals.
- Prepare a full-scale design based on the results of the conceptual design and pilot test.

910 Mayer and ERM propose to meet with the WDNR to discuss the results of the remedial technology screening and proposed next steps.

Yours sincerely,

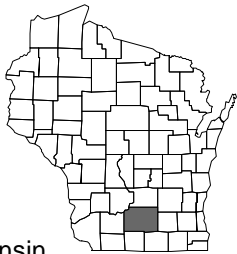


David de Courcy-Bower P.E.  
Partner

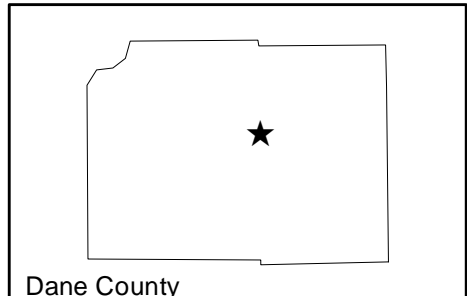


## FIGURES

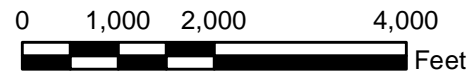




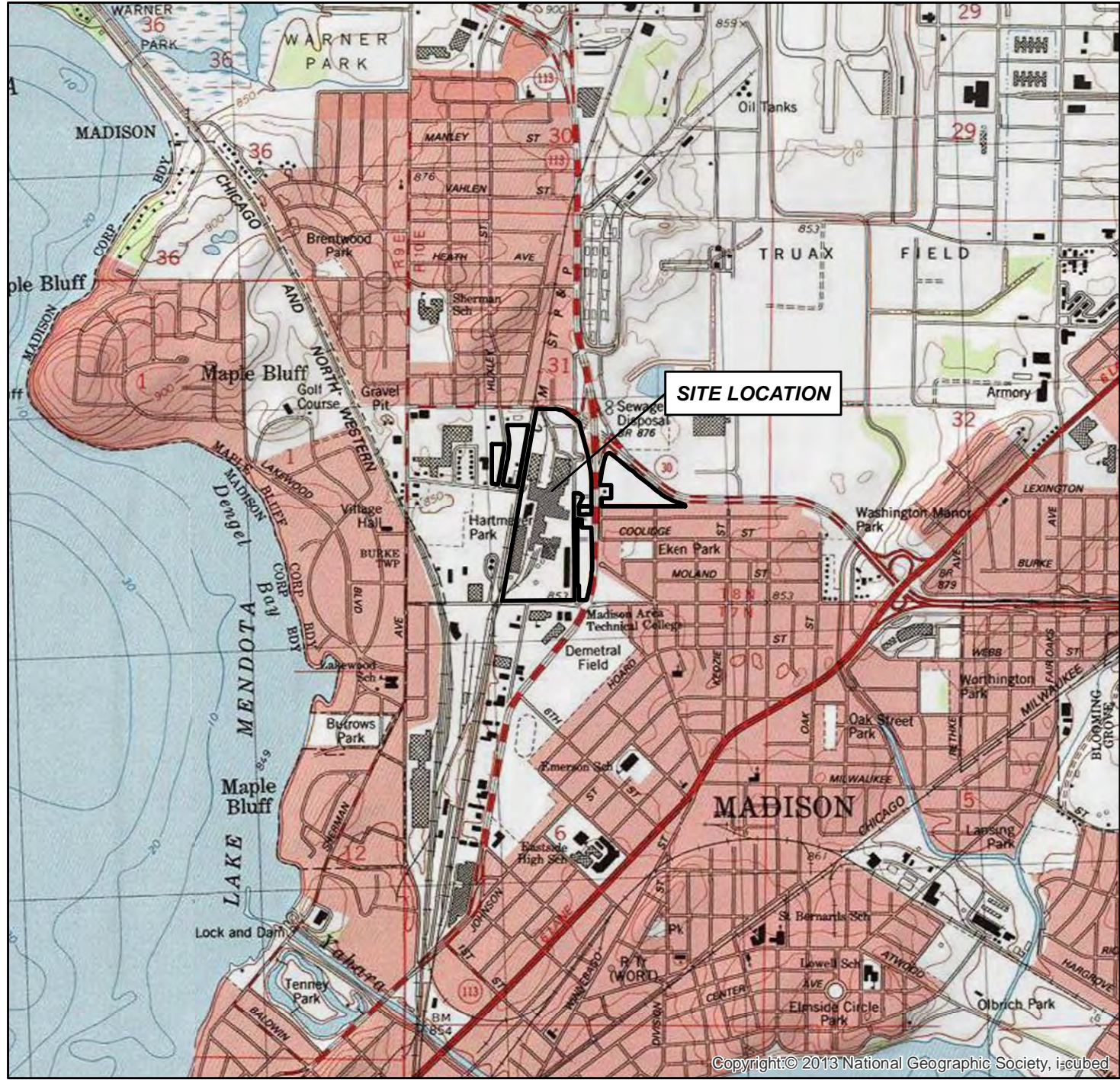
Wisconsin



Dane County



LAT. 41.11 LON. -89.356  
DANE COUNTY  
WISCONSIN



USGS 1:24K 7.5' Quadrangle:  
Madison East, WI

### SITE LOCATION MAP

**910 Mayer LLC**  
910 Mayer Avenue  
Madison  
Dane County, Wisconsin

GIS Review: CS  
CHK'D: DDCB  
0441161

Drawn By:  
SRV-9/27/2019

**Environmental Resources Management**

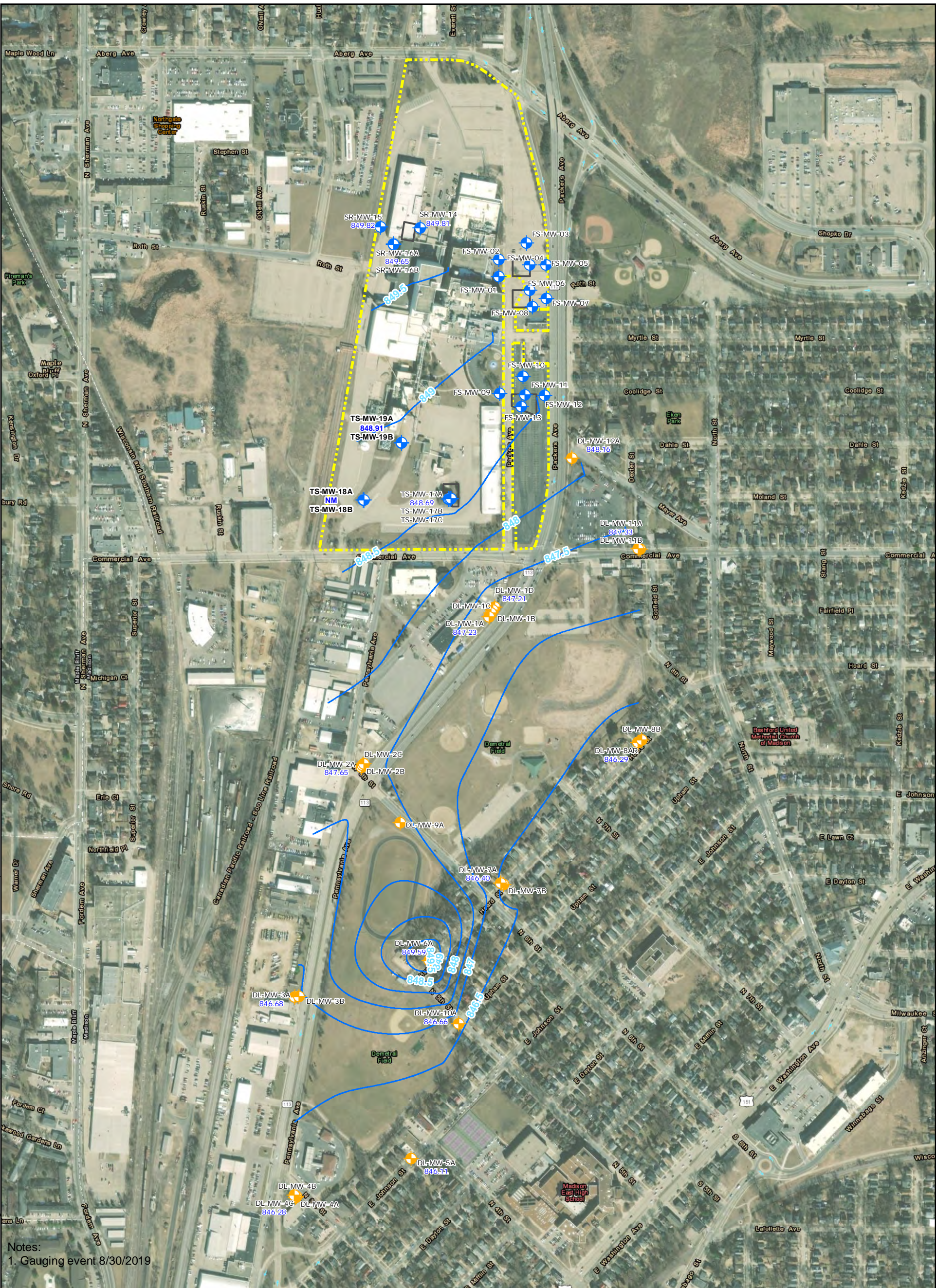
FIGURE 1

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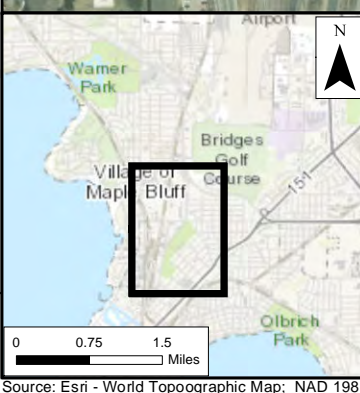
Copyright © 2013 National Geographic Society, i-cubed



FILE: J:\Projects\OSCAR\_MAYER\MADIS\_MXD\GroundwaterContours\Figure 10-ShallowGroundwaterContours.mxd | REVISED: 09/26/2019 | SCALE: 1:6,000 when printed at 11x17



Notes:  
1. Gauging event 8/30/2019



**Legend**

- Demetral Landfill Monitoring Well Location
- Monitoring Well Location
- Shallow Groundwater Contour (0.5 Ft. Interval)
- 585.24 Groundwater Elevation (Ft. AMSL)
- Historical Site Feature
- 910 Mayer Properties (Main Site)

**Figure 2**  
**Shallow Groundwater Contour Map**  
**August 2019**  
 910 Mayer LLC  
 910 Mayer Avenue  
 Madison, Wisconsin

Environmental Resources Management  
 www.erm.com

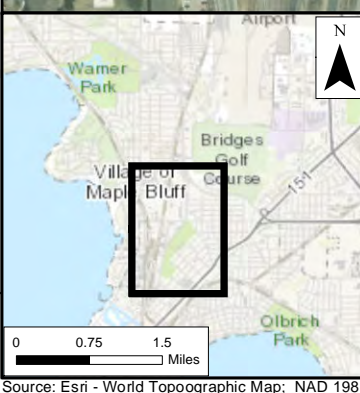
Source: Esri - World Topographic Map; NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet



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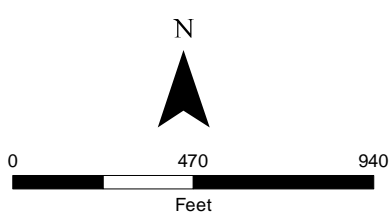
Notes:  
 1. Gauging event 8/30/2019  
 2. \* - Well not used in contouring



**Legend**

- Demetral Landfill Monitoring Well Location
- Monitoring Well Location
- Intermediate Groundwater Contour (0.5 Ft. Interval)
- Historical Site Feature
- 910 Mayer Properties (Main Site)

**585.24** Groundwater Elevation (Ft. AMSL)



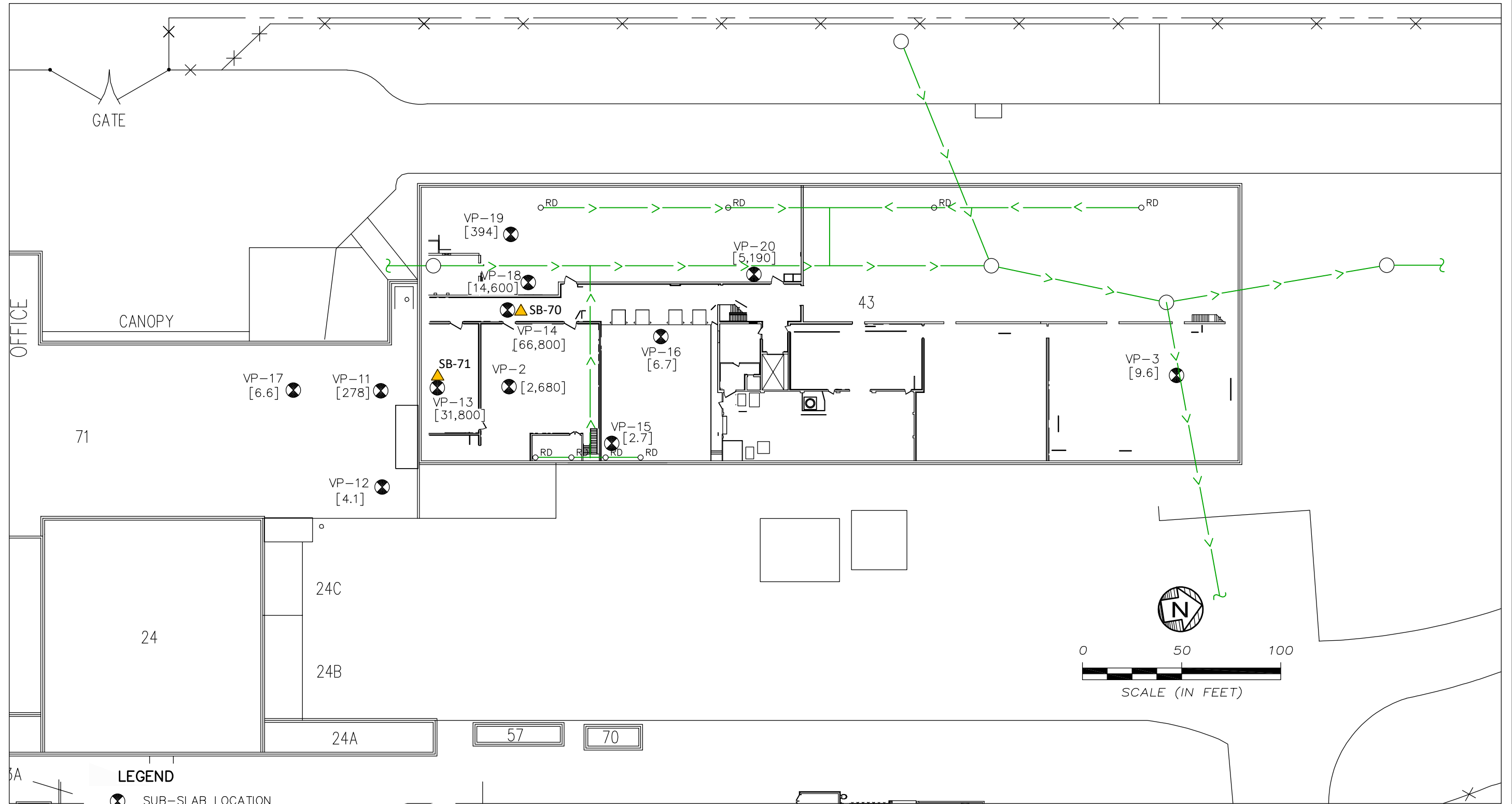
**Figure 3**  
**Intermediate Groundwater Contour Map**  
**August 2019**  
 910 Mayer LLC  
 910 Mayer Avenue  
 Madison, Wisconsin

Environmental Resources Management  
 www.erm.com






Source: Esri - World Topographic Map; NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet



# TCE SUB-SLAB SAMPLE RESULTS BUILDING 43 AND 71



**LEGEND**

-  SUB-SLAB LOCATION
- [927] TCE SOIL GAS RESULTS (MICROGRAMS PER CUBIC METER -  $\mu\text{g}/\text{m}^3$ )
-  STORM SEWER
-  STORM MANHOLE
-  ROOF DRAIN
-  SOIL BORING

Drawn By GML
CADD Review FGB
Date Drawn/Rev'd 8/14/17-3/5/19



**910 MAYER LLC**  
910 MAYER AVENUE  
MADISON, WISCONSIN

**Environmental Resources Management**

CHK'D RP
0441161
FIGURE 4

Q:\Team\DMV\IntfM-P1910 Mayer LLC\0441161\0441161-02.dwg, TCE SOIL GAS SAMPLE, 3/5/2019 11:30:25 AM, GML



## TABLES



TABLE 1 - Groundwater Sampling Results

BRRTS # 02-13-580721  
 SITE NAME: Oscar Mayer Facility  
 SITE ADDRESS: 910 Mayer Avenue Madison, WI 53704

Parameter	Unit	PAL	ES	Location ID	SR-MW-14	SR-MW-14	SR-MW-15	SR-MW-15	SR-MW-16A	SR-MW-16A
				Sample Type	N	N	N	N	N	N
				Sample Date	5/9/2019	8/29/2019	5/9/2019	8/29/2019	5/9/2019	8/29/2019
				Well Interval	3-18 ft	3-18 ft	5-20 ft	5-20 ft	8-18 ft	8-18 ft
<b>VOCs</b>										
1,1,1,2-Tetrachloroethane	ug/L	7	70		< 0.27	< 1.1	< 0.27	< 0.27	< 0.27	< 0.27
1,1,1-Trichloroethane	ug/L	40	200		< 0.24	< 0.98	< 0.24	< 0.24	< 0.24	< 0.24
1,1,2,2-Tetrachloroethane	ug/L	0.02	0.2		< 0.28	< 1.1	< 0.28	< 0.28	< 0.28	< 0.28
1,1,2-Trichloroethane	ug/L	0.5	5		< 0.55	< 2.2	< 0.55	< 0.55	< 0.55	< 0.55
1,1-Dichloroethane	ug/L	85	850		< 0.27	< 1.1	< 0.27	< 0.27	< 0.27	< 0.27
1,1-Dichloroethene	ug/L	0.7	7		< 0.24	< 0.98	< 0.24	< 0.24	< 0.24	< 0.24
1,1-Dichloropropene	ug/L	NS	NS		< 0.54	< 2.2	< 0.54	< 0.54	< 0.54	< 0.54
1,2,3-Trichlorobenzene	ug/L	NS	NS		< 0.63	< 2.5	< 0.63	< 0.63	< 0.63	< 0.63
1,2,3-Trichloropropane	ug/L	12	60		< 0.59	< 2.4	< 0.59	< 0.59	< 0.59	< 0.59
1,2,4-Trichlorobenzene	ug/L	14	70		< 0.95	< 3.8	< 0.95	< 0.95	< 0.95	< 0.95
1,2,4-Trimethylbenzene	ug/L	NS	NS		< 0.84	< 3.4	< 0.84	< 0.84	< 0.84	< 0.84
1,2-Dibromo-3-chloropropane	ug/L	0.02	0.2		< 1.8	< 7.1	< 1.8	< 1.8	< 1.8	< 1.8
1,2-Dichlorobenzene	ug/L	60	600		< 0.71	< 2.8	< 0.71	< 0.71	< 0.71	< 0.71
1,2-Dichloroethane	ug/L	0.5	5		< 0.28	< 1.1	< 0.28	< 0.28	< 0.28	< 0.28
1,2-Dichloropropane	ug/L	0.5	5		< 0.28	< 1.1	< 0.28	< 0.28	< 0.28	< 0.28
1,3,5-Trimethylbenzene	ug/L	NS	NS		< 0.87	< 3.5	< 0.87	< 0.87	< 0.87	< 0.87
1,3-Dichlorobenzene	ug/L	120	600		< 0.63	< 2.5	< 0.63	< 0.63	< 0.63	< 0.63
1,3-Dichloropropane	ug/L	NS	NS		< 0.83	< 3.3	< 0.83	< 0.83	< 0.83	< 0.83
1,4-Dichlorobenzene	ug/L	15	75		< 0.94	< 3.8	< 0.94	< 0.94	< 0.94	< 0.94
2,2-Dichloropropane	ug/L	NS	NS		< 2.3	< 9.1	< 2.3	< 2.3	< 2.3	< 2.3
4-Chlorotoluene	ug/L	NS	NS		< 0.76	< 3.0	< 0.76	< 0.76	< 0.76	< 0.76
4-Isopropyltoluene	ug/L	NS	NS		< 0.80	< 3.2	< 0.80	< 0.80	< 0.80	< 0.80
Benzene	ug/L	0.5	5		< 0.25	< 0.99	< 0.25	< 0.25	< 0.25	< 0.25
Bromobenzene	ug/L	NS	NS		< 0.24	< 0.96	< 0.24	< 0.24	< 0.24	< 0.24
Bromodichloromethane	ug/L	0.06	0.6		< 0.36	< 1.5	< 0.36	< 0.36	< 0.36	< 0.36
Bromoform	ug/L	0.44	4.4		< 4.0	< 15.9	< 4.0	< 4.0	< 4.0	< 4.0
Carbon tetrachloride	ug/L	0.5	5		< 0.17	< 0.66	< 0.17	< 0.17	< 0.17	< 0.17
Chlorobenzene	ug/L	20	100		< 0.71	< 2.8	< 0.71	< 0.71	< 0.71	< 0.71
Chlorobromomethane	ug/L	NS	NS		< 0.36	< 1.4	< 0.36	< 0.36	< 0.36	< 0.36
Chloroethane	ug/L	80	400		< 1.3	< 5.4	< 1.3	< 1.3	< 1.3	< 1.3
Chloroform	ug/L	0.6	6		< 1.3	< 5.1	< 1.3	< 1.3	< 1.3	< 1.3
cis-1,2-Dichloroethene	ug/L	7	70		22.4	<b>281</b>	2.3	0.50J	< 0.27	0.60J
cis-1,3-Dichloropropene	ug/L	NS	NS		< 3.6	< 14.5	< 3.6	< 3.6	< 3.6	< 3.6
Dibromochloromethane	ug/L	6	60		< 2.6	< 10.4	< 2.6	< 2.6	< 2.6	< 2.6
Dibromomethane	ug/L	NS	NS		< 0.94	< 3.7	< 0.94	< 0.94	< 0.94	< 0.94
Dichlorodifluoromethane (Freon 12)	ug/L	200	1000		< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50
Ethylbenzene	ug/L	140	700		< 0.22	< 0.87	< 0.22	< 0.22	< 0.22	< 0.22
Ethylene dibromide	ug/L	0.005	0.05		< 0.83	< 3.3	< 0.83	< 0.83	< 0.83	< 0.83
Hexachlorobutadiene	ug/L	NS	NS		< 1.2	< 4.7	< 1.2	< 1.2	< 1.2	< 1.2
Isopropyl ether	ug/L	NS	NS		< 1.9	< 7.6	< 1.9	< 1.9	< 1.9	< 1.9
Isopropylbenzene (Cumene)	ug/L	NS	NS		< 0.39	< 1.6	< 0.39	< 0.39	< 0.39	< 0.39
m,p-Xylenes	ug/L	NS	NS		< 0.47	< 1.9	< 0.47	< 0.47	< 0.47	< 0.47
Methyl bromide	ug/L	1	10		< 0.97	< 3.9	< 0.97	< 0.97	< 0.97	< 0.97
Methyl chloride	ug/L	3	30		< 2.2	< 8.8	< 2.2	< 2.2	< 2.2	< 2.2
Methyl tert-butyl ether	ug/L	12	60		< 1.2	< 5.0	< 1.2	< 1.2	< 1.2	< 1.2
Methylene chloride	ug/L	0.5	5		< 0.58	< 2.3	< 0.58	< 0.58	< 0.58	< 0.58
Naphthalene	ug/L	10	100		< 1.2	< 4.7	< 1.2	< 1.2	< 1.2	< 1.2
n-Butylbenzene	ug/L	NS	NS		< 0.71	< 2.8	< 0.71	< 0.71	< 0.71	< 0.71
n-Propylbenzene	ug/L	NS	NS		< 0.81	< 3.2	< 0.81	< 0.81	< 0.81	< 0.81
o-Chlorotoluene (2-chlorotoluene)	ug/L	NS	NS		< 0.93	< 3.7	< 0.93	< 0.93	< 0.93	< 0.93
o-Xylene	ug/L	NS	NS		< 0.26	< 1.0	< 0.26	< 0.26	< 0.26	< 0.26
sec-Butylbenzene	ug/L	NS	NS		< 0.85	< 3.4	< 0.85	< 0.85	< 0.85	< 0.85
Styrene	ug/L	10	100		< 0.47	< 1.9	< 0.47	< 0.47	< 0.47	< 0.47
tert-Butylbenzene	ug/L	NS	NS		< 0.30	< 1.2	< 0.30	< 0.30	< 0.30	< 0.30
Tetrachloroethene	ug/L	0.5	5		< 0.33	< 1.3	<b>11.5</b>	<b>8.7</b>	< 0.33	< 0.33
Toluene	ug/L	160	800		< 0.17	< 0.69	< 0.17	< 0.17	< 0.17	< 0.17
trans-1,2-Dichloroethene	ug/L	20	100		< 1.1	< 4.4	< 1.1	< 1.1	< 1.1	< 1.1
trans-1,3-Dichloropropene	ug/L	NS	NS		< 4.4	< 17.5	< 4.4	< 4.4	< 4.4	< 4.4
Trichloroethene	ug/L	0.5	5		< 0.26	< 1.0	1.1	0.61J	0.95J	2.2
Trichlorofluoromethane (Freon 11)	ug/L	698	3490		< 0.21	< 0.86	< 0.21	< 0.21	< 0.21	< 0.21
Vinyl chloride	ug/L	0.02	0.2		<b>51.3</b>	<b>68.6</b>	< 0.17	< 0.17	< 0.17	< 0.17

**Notes:**

Results reported in micrograms per liter (ug/L).

*Italicized* values exceed the Chapter NR140 Preventive Action Limit (PAL)

**Bold** values exceed the Chapter NR140 Enforcement Standard (ES)

NS = No established standard

J = Estimated concentration at or above the limit of detection and below the limit of quantitation.

N = Normal sample



TABLE 1 - Groundwater Sampling Results

BRRTS # 02-13-580721  
 SITE NAME: Oscar Mayer Facility  
 SITE ADDRESS: 910 Mayer Avenue Madison, WI 53704

Parameter	Unit	PAL	ES	Location ID	SR-MW-16B
				Sample Type	N
				Sample Date	5/9/2019
				Well Interval	39-49 ft
					SR-MW-16B
					N
					8/29/2019
					39-49 ft
<b>VOCs</b>					
1,1,1,2-Tetrachloroethane	ug/L	7	70	< 0.27	< 0.27
1,1,1-Trichloroethane	ug/L	40	200	< 0.24	< 0.24
1,1,2,2-Tetrachloroethane	ug/L	0.02	0.2	< 0.28	< 0.28
1,1,2-Trichloroethane	ug/L	0.5	5	< 0.55	< 0.55
1,1-Dichloroethane	ug/L	85	850	< 0.27	< 0.27
1,1-Dichloroethene	ug/L	0.7	7	0.32 J	< 0.24
1,1-Dichloropropene	ug/L	NS	NS	< 0.54	< 0.54
1,2,3-Trichlorobenzene	ug/L	NS	NS	< 0.63	< 0.63
1,2,3-Trichloropropane	ug/L	12	60	< 0.59	< 0.59
1,2,4-Trichlorobenzene	ug/L	14	70	< 0.95	< 0.95
1,2,4-Trimethylbenzene	ug/L	NS	NS	< 0.84	< 0.84
1,2-Dibromo-3-chloropropane	ug/L	0.02	0.2	< 1.8	< 1.8
1,2-Dichlorobenzene	ug/L	60	600	< 0.71	< 0.71
1,2-Dichloroethane	ug/L	0.5	5	<b>21.2</b>	<b>50.6</b>
1,2-Dichloropropane	ug/L	0.5	5	< 0.28	< 0.28
1,3,5-Trimethylbenzene	ug/L	NS	NS	< 0.87	< 0.87
1,3-Dichlorobenzene	ug/L	120	600	< 0.63	< 0.63
1,3-Dichloropropane	ug/L	NS	NS	< 0.83	< 0.83
1,4-Dichlorobenzene	ug/L	15	75	< 0.94	< 0.94
2,2-Dichloropropane	ug/L	NS	NS	< 2.3	< 2.3
4-Chlorotoluene	ug/L	NS	NS	< 0.76	< 0.76
4-Isopropyltoluene	ug/L	NS	NS	< 0.80	< 0.80
Benzene	ug/L	0.5	5	1.3	1.3
Bromobenzene	ug/L	NS	NS	< 0.24	< 0.24
Bromodichloromethane	ug/L	0.06	0.6	< 0.36	< 0.36
Bromoform	ug/L	0.44	4.4	< 4.0	< 4.0
Carbon tetrachloride	ug/L	0.5	5	< 0.17	< 0.17
Chlorobenzene	ug/L	20	100	< 0.71	< 0.71
Chlorobromomethane	ug/L	NS	NS	< 0.36	< 0.36
Chloroethane	ug/L	80	400	< 1.3	< 1.3
Chloroform	ug/L	0.6	6	< 1.3	< 1.3
cis-1,2-Dichloroethene	ug/L	7	70	44.7	<b>82.3</b>
cis-1,3-Dichloropropene	ug/L	NS	NS	< 3.6	< 3.6
Dibromochloromethane	ug/L	6	60	< 2.6	< 2.6
Dibromomethane	ug/L	NS	NS	< 0.94	< 0.94
Dichlorodifluoromethane (Freon 12)	ug/L	200	1000	< 0.50	< 0.50
Ethylbenzene	ug/L	140	700	< 0.22	< 0.22
Ethylene dibromide	ug/L	0.005	0.05	< 0.83	< 0.83
Hexachlorobutadiene	ug/L	NS	NS	< 1.2	< 1.2
Isopropyl ether	ug/L	NS	NS	< 1.9	< 1.9
Isopropylbenzene (Cumene)	ug/L	NS	NS	< 0.39	< 0.39
m,p-Xylenes	ug/L	NS	NS	< 0.47	< 0.47
Methyl bromide	ug/L	1	10	< 0.97	< 0.97
Methyl chloride	ug/L	3	30	< 2.2	< 2.2
Methyl tert-butyl ether	ug/L	12	60	< 1.2	< 1.2
Methylene chloride	ug/L	0.5	5	< 0.58	< 0.58
Naphthalene	ug/L	10	100	< 1.2	< 1.2
n-Butylbenzene	ug/L	NS	NS	< 0.71	< 0.71
n-Propylbenzene	ug/L	NS	NS	< 0.81	< 0.81
o-Chlorotoluene (2-chlorotoluene)	ug/L	NS	NS	< 0.93	< 0.93
o-Xylene	ug/L	NS	NS	< 0.26	< 0.26
sec-Butylbenzene	ug/L	NS	NS	< 0.85	< 0.85
Styrene	ug/L	10	100	< 0.47	< 0.47
tert-Butylbenzene	ug/L	NS	NS	< 0.30	< 0.30
Tetrachloroethene	ug/L	0.5	5	< 0.33	< 0.33
Toluene	ug/L	160	800	< 0.17	< 0.17
trans-1,2-Dichloroethene	ug/L	20	100	< 1.1	< 1.1
trans-1,3-Dichloropropene	ug/L	NS	NS	< 4.4	< 4.4
Trichloroethene	ug/L	0.5	5	0.66 J	0.70 J
Trichlorofluoromethane (Freon 11)	ug/L	698	3490	< 0.21	< 0.21
Vinyl chloride	ug/L	0.02	0.2	< 0.17	< 0.17

**Notes:**

Results reported in micrograms per liter (ug/L).

*Italicized* values exceed the Chapter NR140 Preventive Action Limit (PAL)

**Bold** values exceed the Chapter NR140 Enforcement Standard (ES)

NS = No established standard

J = Estimated concentration at or above the limit of detection and below the limit of quantitation.

N = Normal sample



## ATTACHMENT A

## LABORATORY ANALYTICAL RESULTS



September 05, 2019

Ryan Plath  
ERM, INC.  
700 W. Virginia Street  
Suite 601  
Milwaukee, WI 53204

RE: Project: 0441161 FORMER OSCAR MAYER  
Pace Project No.: 40194148

Dear Ryan Plath:

Enclosed are the analytical results for sample(s) received by the laboratory on August 31, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Dan Milewsky  
dan.milewsky@pacelabs.com  
(920)469-2436  
Project Manager

Enclosures

cc: David deCourcy-Bower, ERM, Inc.



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 0441161 FORMER OSCAR MAYER

Pace Project No.: 40194148

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### Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

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## SAMPLE SUMMARY

Project: 0441161 FORMER OSCAR MAYER

Pace Project No.: 40194148

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40194148001	SR-MW-16B-WG-20190829	Water	08/29/19 13:00	08/31/19 08:40
40194148002	SR-MW-14-WG-20190829	Water	08/29/19 09:25	08/31/19 08:40
40194148003	SR-MW-15-WG-20190829	Water	08/29/19 10:40	08/31/19 08:40
40194148004	TS-MW-18B-WG-20190829	Water	08/29/19 17:00	08/31/19 08:40
40194148005	SR-MW-16A-WG-20190829	Water	08/29/19 11:35	08/31/19 08:40
40194148006	TS-MW-18A-WG-20190829	Water	08/29/19 15:30	08/31/19 08:40
40194148007	TB-01-WQ-20190829	Water	08/29/19 11:30	08/31/19 08:40

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### SAMPLE ANALYTE COUNT

Project: 0441161 FORMER OSCAR MAYER  
Pace Project No.: 40194148

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40194148001	SR-MW-16B-WG-20190829	EPA 8260	SMT	64	PASI-G
40194148002	SR-MW-14-WG-20190829	EPA 8260	SMT	64	PASI-G
40194148003	SR-MW-15-WG-20190829	EPA 8260	SMT	64	PASI-G
40194148004	TS-MW-18B-WG-20190829	EPA 8260	SMT	64	PASI-G
40194148005	SR-MW-16A-WG-20190829	EPA 8260	SMT	64	PASI-G
40194148006	TS-MW-18A-WG-20190829	EPA 8260	SMT	64	PASI-G
40194148007	TB-01-WQ-20190829	EPA 8260	SMT	64	PASI-G

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0441161 FORMER OSCAR MAYER

Sample Project No.: 40194148

**Sample: SR-MW-16B-WG-20190829**    **Lab ID: 40194148001**    Collected: 08/29/19 13:00    Received: 08/31/19 08:40    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		09/04/19 14:38	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		09/04/19 14:38	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		09/04/19 14:38	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		09/04/19 14:38	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		09/04/19 14:38	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		09/04/19 14:38	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		09/04/19 14:38	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		09/04/19 14:38	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		09/04/19 14:38	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		09/04/19 14:38	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		09/04/19 14:38	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		09/04/19 14:38	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		09/04/19 14:38	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		09/04/19 14:38	95-50-1	
1,2-Dichloroethane	50.6	ug/L	1.0	0.28	1		09/04/19 14:38	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		09/04/19 14:38	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		09/04/19 14:38	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		09/04/19 14:38	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		09/04/19 14:38	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		09/04/19 14:38	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		09/04/19 14:38	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		09/04/19 14:38	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		09/04/19 14:38	106-43-4	
Benzene	1.3	ug/L	1.0	0.25	1		09/04/19 14:38	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		09/04/19 14:38	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		09/04/19 14:38	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		09/04/19 14:38	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		09/04/19 14:38	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		09/04/19 14:38	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		09/04/19 14:38	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		09/04/19 14:38	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		09/04/19 14:38	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		09/04/19 14:38	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		09/04/19 14:38	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		09/04/19 14:38	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		09/04/19 14:38	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		09/04/19 14:38	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		09/04/19 14:38	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		09/04/19 14:38	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		09/04/19 14:38	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		09/04/19 14:38	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		09/04/19 14:38	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		09/04/19 14:38	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		09/04/19 14:38	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		09/04/19 14:38	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		09/04/19 14:38	127-18-4	

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## ANALYTICAL RESULTS

Project: 0441161 FORMER OSCAR MAYER

Pace Project No.: 40194148

**Sample: SR-MW-16B-WG-20190829**    **Lab ID: 40194148001**    Collected: 08/29/19 13:00    Received: 08/31/19 08:40    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
Toluene	<0.17	ug/L	5.0	0.17	1		09/04/19 14:38	108-88-3	
Trichloroethene	<b>0.70J</b>	ug/L	1.0	0.26	1		09/04/19 14:38	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		09/04/19 14:38	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		09/04/19 14:38	75-01-4	
cis-1,2-Dichloroethene	<b>82.3</b>	ug/L	1.0	0.27	1		09/04/19 14:38	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		09/04/19 14:38	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		09/04/19 14:38	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		09/04/19 14:38	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		09/04/19 14:38	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		09/04/19 14:38	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		09/04/19 14:38	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		09/04/19 14:38	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		09/04/19 14:38	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		09/04/19 14:38	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		09/04/19 14:38	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	85	%	70-130		1		09/04/19 14:38	460-00-4	
Dibromofluoromethane (S)	122	%	70-130		1		09/04/19 14:38	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		09/04/19 14:38	2037-26-5	

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## ANALYTICAL RESULTS

Project: 0441161 FORMER OSCAR MAYER

Pace Project No.: 40194148

Sample: SR-MW-14-WG-20190829 Lab ID: 40194148002 Collected: 08/29/19 09:25 Received: 08/31/19 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<1.1	ug/L	4.0	1.1	4		09/04/19 16:59	630-20-6	
1,1,1-Trichloroethane	<0.98	ug/L	4.0	0.98	4		09/04/19 16:59	71-55-6	
1,1,2,2-Tetrachloroethane	<1.1	ug/L	4.0	1.1	4		09/04/19 16:59	79-34-5	
1,1,2-Trichloroethane	<2.2	ug/L	20.0	2.2	4		09/04/19 16:59	79-00-5	
1,1-Dichloroethane	<1.1	ug/L	4.0	1.1	4		09/04/19 16:59	75-34-3	
1,1-Dichloroethene	<0.98	ug/L	4.0	0.98	4		09/04/19 16:59	75-35-4	
1,1-Dichloropropene	<2.2	ug/L	7.2	2.2	4		09/04/19 16:59	563-58-6	
1,2,3-Trichlorobenzene	<2.5	ug/L	20.0	2.5	4		09/04/19 16:59	87-61-6	
1,2,3-Trichloropropane	<2.4	ug/L	20.0	2.4	4		09/04/19 16:59	96-18-4	
1,2,4-Trichlorobenzene	<3.8	ug/L	20.0	3.8	4		09/04/19 16:59	120-82-1	
1,2,4-Trimethylbenzene	<3.4	ug/L	11.2	3.4	4		09/04/19 16:59	95-63-6	
1,2-Dibromo-3-chloropropane	<7.1	ug/L	23.5	7.1	4		09/04/19 16:59	96-12-8	
1,2-Dibromoethane (EDB)	<3.3	ug/L	11.1	3.3	4		09/04/19 16:59	106-93-4	
1,2-Dichlorobenzene	<2.8	ug/L	9.4	2.8	4		09/04/19 16:59	95-50-1	
1,2-Dichloroethane	<1.1	ug/L	4.0	1.1	4		09/04/19 16:59	107-06-2	
1,2-Dichloropropane	<1.1	ug/L	4.0	1.1	4		09/04/19 16:59	78-87-5	
1,3,5-Trimethylbenzene	<3.5	ug/L	11.6	3.5	4		09/04/19 16:59	108-67-8	
1,3-Dichlorobenzene	<2.5	ug/L	8.4	2.5	4		09/04/19 16:59	541-73-1	
1,3-Dichloropropane	<3.3	ug/L	11.0	3.3	4		09/04/19 16:59	142-28-9	
1,4-Dichlorobenzene	<3.8	ug/L	12.6	3.8	4		09/04/19 16:59	106-46-7	
2,2-Dichloropropane	<9.1	ug/L	30.2	9.1	4		09/04/19 16:59	594-20-7	
2-Chlorotoluene	<3.7	ug/L	20.0	3.7	4		09/04/19 16:59	95-49-8	
4-Chlorotoluene	<3.0	ug/L	10.1	3.0	4		09/04/19 16:59	106-43-4	
Benzene	<0.99	ug/L	4.0	0.99	4		09/04/19 16:59	71-43-2	
Bromobenzene	<0.96	ug/L	4.0	0.96	4		09/04/19 16:59	108-86-1	
Bromochloromethane	<1.4	ug/L	20.0	1.4	4		09/04/19 16:59	74-97-5	
Bromodichloromethane	<1.5	ug/L	4.8	1.5	4		09/04/19 16:59	75-27-4	
Bromoform	<15.9	ug/L	53.0	15.9	4		09/04/19 16:59	75-25-2	
Bromomethane	<3.9	ug/L	20.0	3.9	4		09/04/19 16:59	74-83-9	
Carbon tetrachloride	<0.66	ug/L	4.0	0.66	4		09/04/19 16:59	56-23-5	
Chlorobenzene	<2.8	ug/L	9.5	2.8	4		09/04/19 16:59	108-90-7	
Chloroethane	<5.4	ug/L	20.0	5.4	4		09/04/19 16:59	75-00-3	
Chloroform	<5.1	ug/L	20.0	5.1	4		09/04/19 16:59	67-66-3	
Chloromethane	<8.8	ug/L	29.2	8.8	4		09/04/19 16:59	74-87-3	
Dibromochloromethane	<10.4	ug/L	34.7	10.4	4		09/04/19 16:59	124-48-1	
Dibromomethane	<3.7	ug/L	12.5	3.7	4		09/04/19 16:59	74-95-3	
Dichlorodifluoromethane	<2.0	ug/L	20.0	2.0	4		09/04/19 16:59	75-71-8	
Diisopropyl ether	<7.6	ug/L	25.2	7.6	4		09/04/19 16:59	108-20-3	
Ethylbenzene	<0.87	ug/L	4.0	0.87	4		09/04/19 16:59	100-41-4	
Hexachloro-1,3-butadiene	<4.7	ug/L	20.0	4.7	4		09/04/19 16:59	87-68-3	
Isopropylbenzene (Cumene)	<1.6	ug/L	20.0	1.6	4		09/04/19 16:59	98-82-8	
Methyl-tert-butyl ether	<5.0	ug/L	16.6	5.0	4		09/04/19 16:59	1634-04-4	
Methylene Chloride	<2.3	ug/L	20.0	2.3	4		09/04/19 16:59	75-09-2	
Naphthalene	<4.7	ug/L	20.0	4.7	4		09/04/19 16:59	91-20-3	
Styrene	<1.9	ug/L	6.2	1.9	4		09/04/19 16:59	100-42-5	
Tetrachloroethene	<1.3	ug/L	4.4	1.3	4		09/04/19 16:59	127-18-4	

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## ANALYTICAL RESULTS

Project: 0441161 FORMER OSCAR MAYER

Pace Project No.: 40194148

**Sample: SR-MW-14-WG-20190829**    **Lab ID: 40194148002**    Collected: 08/29/19 09:25    Received: 08/31/19 08:40    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Toluene	<0.69	ug/L	20.0	0.69	4		09/04/19 16:59	108-88-3	
Trichloroethene	<1.0	ug/L	4.0	1.0	4		09/04/19 16:59	79-01-6	
Trichlorofluoromethane	<0.86	ug/L	4.0	0.86	4		09/04/19 16:59	75-69-4	
Vinyl chloride	68.6	ug/L	4.0	0.70	4		09/04/19 16:59	75-01-4	
cis-1,2-Dichloroethene	281	ug/L	4.0	1.1	4		09/04/19 16:59	156-59-2	
cis-1,3-Dichloropropene	<14.5	ug/L	48.4	14.5	4		09/04/19 16:59	10061-01-5	
m&p-Xylene	<1.9	ug/L	8.0	1.9	4		09/04/19 16:59	179601-23-1	
n-Butylbenzene	<2.8	ug/L	9.4	2.8	4		09/04/19 16:59	104-51-8	
n-Propylbenzene	<3.2	ug/L	20.0	3.2	4		09/04/19 16:59	103-65-1	
o-Xylene	<1.0	ug/L	4.0	1.0	4		09/04/19 16:59	95-47-6	
p-Isopropyltoluene	<3.2	ug/L	10.7	3.2	4		09/04/19 16:59	99-87-6	
sec-Butylbenzene	<3.4	ug/L	20.0	3.4	4		09/04/19 16:59	135-98-8	
tert-Butylbenzene	<1.2	ug/L	4.1	1.2	4		09/04/19 16:59	98-06-6	
trans-1,2-Dichloroethene	<4.4	ug/L	14.5	4.4	4		09/04/19 16:59	156-60-5	
trans-1,3-Dichloropropene	<17.5	ug/L	58.3	17.5	4		09/04/19 16:59	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	85	%	70-130		4		09/04/19 16:59	460-00-4	
Dibromofluoromethane (S)	122	%	70-130		4		09/04/19 16:59	1868-53-7	
Toluene-d8 (S)	93	%	70-130		4		09/04/19 16:59	2037-26-5	

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## ANALYTICAL RESULTS

Project: 0441161 FORMER OSCAR MAYER

Pace Project No.: 40194148

**Sample: SR-MW-15-WG-20190829**    **Lab ID: 40194148003**    Collected: 08/29/19 10:40    Received: 08/31/19 08:40    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		09/04/19 15:00	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		09/04/19 15:00	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		09/04/19 15:00	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		09/04/19 15:00	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		09/04/19 15:00	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		09/04/19 15:00	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		09/04/19 15:00	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		09/04/19 15:00	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		09/04/19 15:00	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		09/04/19 15:00	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		09/04/19 15:00	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		09/04/19 15:00	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		09/04/19 15:00	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		09/04/19 15:00	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		09/04/19 15:00	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		09/04/19 15:00	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		09/04/19 15:00	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		09/04/19 15:00	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		09/04/19 15:00	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		09/04/19 15:00	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		09/04/19 15:00	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		09/04/19 15:00	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		09/04/19 15:00	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		09/04/19 15:00	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		09/04/19 15:00	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		09/04/19 15:00	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		09/04/19 15:00	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		09/04/19 15:00	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		09/04/19 15:00	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		09/04/19 15:00	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		09/04/19 15:00	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		09/04/19 15:00	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		09/04/19 15:00	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		09/04/19 15:00	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		09/04/19 15:00	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		09/04/19 15:00	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		09/04/19 15:00	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		09/04/19 15:00	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		09/04/19 15:00	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		09/04/19 15:00	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		09/04/19 15:00	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		09/04/19 15:00	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		09/04/19 15:00	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		09/04/19 15:00	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		09/04/19 15:00	100-42-5	
Tetrachloroethene	8.7	ug/L	1.1	0.33	1		09/04/19 15:00	127-18-4	

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### ANALYTICAL RESULTS

Project: 0441161 FORMER OSCAR MAYER

Pace Project No.: 40194148

**Sample: SR-MW-15-WG-20190829**    **Lab ID: 40194148003**    Collected: 08/29/19 10:40    Received: 08/31/19 08:40    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Toluene	<0.17	ug/L	5.0	0.17	1		09/04/19 15:00	108-88-3	
Trichloroethene	0.61J	ug/L	1.0	0.26	1		09/04/19 15:00	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		09/04/19 15:00	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		09/04/19 15:00	75-01-4	
cis-1,2-Dichloroethene	0.50J	ug/L	1.0	0.27	1		09/04/19 15:00	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		09/04/19 15:00	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		09/04/19 15:00	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		09/04/19 15:00	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		09/04/19 15:00	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		09/04/19 15:00	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		09/04/19 15:00	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		09/04/19 15:00	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		09/04/19 15:00	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		09/04/19 15:00	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		09/04/19 15:00	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	84	%	70-130		1		09/04/19 15:00	460-00-4	
Dibromofluoromethane (S)	123	%	70-130		1		09/04/19 15:00	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		09/04/19 15:00	2037-26-5	

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## ANALYTICAL RESULTS

Project: 0441161 FORMER OSCAR MAYER

Pace Project No.: 40194148

Sample: **TS-MW-18B-WG-20190829** Lab ID: **40194148004** Collected: 08/29/19 17:00 Received: 08/31/19 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		09/04/19 15:23	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		09/04/19 15:23	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		09/04/19 15:23	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		09/04/19 15:23	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		09/04/19 15:23	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		09/04/19 15:23	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		09/04/19 15:23	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		09/04/19 15:23	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		09/04/19 15:23	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		09/04/19 15:23	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		09/04/19 15:23	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		09/04/19 15:23	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		09/04/19 15:23	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		09/04/19 15:23	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		09/04/19 15:23	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		09/04/19 15:23	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		09/04/19 15:23	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		09/04/19 15:23	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		09/04/19 15:23	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		09/04/19 15:23	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		09/04/19 15:23	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		09/04/19 15:23	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		09/04/19 15:23	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		09/04/19 15:23	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		09/04/19 15:23	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		09/04/19 15:23	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		09/04/19 15:23	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		09/04/19 15:23	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		09/04/19 15:23	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		09/04/19 15:23	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		09/04/19 15:23	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		09/04/19 15:23	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		09/04/19 15:23	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		09/04/19 15:23	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		09/04/19 15:23	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		09/04/19 15:23	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		09/04/19 15:23	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		09/04/19 15:23	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		09/04/19 15:23	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		09/04/19 15:23	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		09/04/19 15:23	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		09/04/19 15:23	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		09/04/19 15:23	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		09/04/19 15:23	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		09/04/19 15:23	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		09/04/19 15:23	127-18-4	

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### ANALYTICAL RESULTS

Project: 0441161 FORMER OSCAR MAYER  
Pace Project No.: 40194148

**Sample: TS-MW-18B-WG-20190829**    **Lab ID: 40194148004**    Collected: 08/29/19 17:00    Received: 08/31/19 08:40    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
Toluene	<b>0.21J</b>	ug/L	5.0	0.17	1		09/04/19 15:23	108-88-3	
Trichloroethene	<b>&lt;0.26</b>	ug/L	1.0	0.26	1		09/04/19 15:23	79-01-6	
Trichlorofluoromethane	<b>&lt;0.21</b>	ug/L	1.0	0.21	1		09/04/19 15:23	75-69-4	
Vinyl chloride	<b>&lt;0.17</b>	ug/L	1.0	0.17	1		09/04/19 15:23	75-01-4	
cis-1,2-Dichloroethene	<b>&lt;0.27</b>	ug/L	1.0	0.27	1		09/04/19 15:23	156-59-2	
cis-1,3-Dichloropropene	<b>&lt;3.6</b>	ug/L	12.1	3.6	1		09/04/19 15:23	10061-01-5	
m&p-Xylene	<b>&lt;0.47</b>	ug/L	2.0	0.47	1		09/04/19 15:23	179601-23-1	
n-Butylbenzene	<b>&lt;0.71</b>	ug/L	2.4	0.71	1		09/04/19 15:23	104-51-8	
n-Propylbenzene	<b>&lt;0.81</b>	ug/L	5.0	0.81	1		09/04/19 15:23	103-65-1	
o-Xylene	<b>&lt;0.26</b>	ug/L	1.0	0.26	1		09/04/19 15:23	95-47-6	
p-Isopropyltoluene	<b>&lt;0.80</b>	ug/L	2.7	0.80	1		09/04/19 15:23	99-87-6	
sec-Butylbenzene	<b>&lt;0.85</b>	ug/L	5.0	0.85	1		09/04/19 15:23	135-98-8	
tert-Butylbenzene	<b>&lt;0.30</b>	ug/L	1.0	0.30	1		09/04/19 15:23	98-06-6	
trans-1,2-Dichloroethene	<b>&lt;1.1</b>	ug/L	3.6	1.1	1		09/04/19 15:23	156-60-5	
trans-1,3-Dichloropropene	<b>&lt;4.4</b>	ug/L	14.6	4.4	1		09/04/19 15:23	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	84	%	70-130		1		09/04/19 15:23	460-00-4	
Dibromofluoromethane (S)	123	%	70-130		1		09/04/19 15:23	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		09/04/19 15:23	2037-26-5	

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### ANALYTICAL RESULTS

Project: 0441161 FORMER OSCAR MAYER

Pace Project No.: 40194148

Sample: SR-MW-16A-WG-20190829 Lab ID: 40194148005 Collected: 08/29/19 11:35 Received: 08/31/19 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		09/04/19 15:51	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		09/04/19 15:51	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		09/04/19 15:51	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		09/04/19 15:51	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		09/04/19 15:51	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		09/04/19 15:51	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		09/04/19 15:51	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		09/04/19 15:51	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		09/04/19 15:51	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		09/04/19 15:51	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		09/04/19 15:51	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		09/04/19 15:51	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		09/04/19 15:51	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		09/04/19 15:51	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		09/04/19 15:51	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		09/04/19 15:51	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		09/04/19 15:51	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		09/04/19 15:51	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		09/04/19 15:51	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		09/04/19 15:51	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		09/04/19 15:51	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		09/04/19 15:51	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		09/04/19 15:51	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		09/04/19 15:51	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		09/04/19 15:51	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		09/04/19 15:51	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		09/04/19 15:51	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		09/04/19 15:51	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		09/04/19 15:51	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		09/04/19 15:51	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		09/04/19 15:51	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		09/04/19 15:51	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		09/04/19 15:51	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		09/04/19 15:51	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		09/04/19 15:51	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		09/04/19 15:51	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		09/04/19 15:51	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		09/04/19 15:51	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		09/04/19 15:51	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		09/04/19 15:51	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		09/04/19 15:51	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		09/04/19 15:51	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		09/04/19 15:51	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		09/04/19 15:51	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		09/04/19 15:51	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		09/04/19 15:51	127-18-4	

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### ANALYTICAL RESULTS

Project: 0441161 FORMER OSCAR MAYER

Pace Project No.: 40194148

**Sample: SR-MW-16A-WG-20190829**    **Lab ID: 40194148005**    Collected: 08/29/19 11:35    Received: 08/31/19 08:40    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Toluene	<0.17	ug/L	5.0	0.17	1		09/04/19 15:51	108-88-3	
Trichloroethene	2.2	ug/L	1.0	0.26	1		09/04/19 15:51	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		09/04/19 15:51	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		09/04/19 15:51	75-01-4	
cis-1,2-Dichloroethene	0.60J	ug/L	1.0	0.27	1		09/04/19 15:51	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		09/04/19 15:51	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		09/04/19 15:51	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		09/04/19 15:51	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		09/04/19 15:51	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		09/04/19 15:51	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		09/04/19 15:51	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		09/04/19 15:51	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		09/04/19 15:51	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		09/04/19 15:51	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		09/04/19 15:51	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	85	%	70-130		1		09/04/19 15:51	460-00-4	
Dibromofluoromethane (S)	124	%	70-130		1		09/04/19 15:51	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		09/04/19 15:51	2037-26-5	

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## ANALYTICAL RESULTS

Project: 0441161 FORMER OSCAR MAYER

Pace Project No.: 40194148

Sample: **TS-MW-18A-WG-20190829** Lab ID: **40194148006** Collected: 08/29/19 15:30 Received: 08/31/19 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		09/04/19 16:14	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		09/04/19 16:14	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		09/04/19 16:14	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		09/04/19 16:14	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		09/04/19 16:14	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		09/04/19 16:14	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		09/04/19 16:14	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		09/04/19 16:14	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		09/04/19 16:14	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		09/04/19 16:14	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		09/04/19 16:14	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		09/04/19 16:14	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		09/04/19 16:14	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		09/04/19 16:14	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		09/04/19 16:14	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		09/04/19 16:14	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		09/04/19 16:14	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		09/04/19 16:14	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		09/04/19 16:14	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		09/04/19 16:14	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		09/04/19 16:14	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		09/04/19 16:14	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		09/04/19 16:14	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		09/04/19 16:14	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		09/04/19 16:14	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		09/04/19 16:14	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		09/04/19 16:14	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		09/04/19 16:14	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		09/04/19 16:14	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		09/04/19 16:14	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		09/04/19 16:14	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		09/04/19 16:14	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		09/04/19 16:14	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		09/04/19 16:14	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		09/04/19 16:14	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		09/04/19 16:14	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		09/04/19 16:14	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		09/04/19 16:14	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		09/04/19 16:14	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		09/04/19 16:14	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		09/04/19 16:14	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		09/04/19 16:14	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		09/04/19 16:14	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		09/04/19 16:14	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		09/04/19 16:14	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		09/04/19 16:14	127-18-4	

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### ANALYTICAL RESULTS

Project: 0441161 FORMER OSCAR MAYER

Pace Project No.: 40194148

**Sample: TS-MW-18A-WG-20190829**    **Lab ID: 40194148006**    Collected: 08/29/19 15:30    Received: 08/31/19 08:40    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Toluene	<0.17	ug/L	5.0	0.17	1		09/04/19 16:14	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		09/04/19 16:14	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		09/04/19 16:14	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		09/04/19 16:14	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		09/04/19 16:14	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		09/04/19 16:14	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		09/04/19 16:14	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		09/04/19 16:14	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		09/04/19 16:14	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		09/04/19 16:14	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		09/04/19 16:14	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		09/04/19 16:14	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		09/04/19 16:14	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		09/04/19 16:14	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		09/04/19 16:14	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	84	%	70-130		1		09/04/19 16:14	460-00-4	
Dibromofluoromethane (S)	124	%	70-130		1		09/04/19 16:14	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		09/04/19 16:14	2037-26-5	

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### ANALYTICAL RESULTS

Project: 0441161 FORMER OSCAR MAYER

Pace Project No.: 40194148

**Sample: TB-01-WQ-20190829**      **Lab ID: 40194148007**      Collected: 08/29/19 11:30      Received: 08/31/19 08:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		09/04/19 12:41	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		09/04/19 12:41	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		09/04/19 12:41	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		09/04/19 12:41	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		09/04/19 12:41	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		09/04/19 12:41	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		09/04/19 12:41	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		09/04/19 12:41	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		09/04/19 12:41	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		09/04/19 12:41	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		09/04/19 12:41	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		09/04/19 12:41	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		09/04/19 12:41	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		09/04/19 12:41	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		09/04/19 12:41	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		09/04/19 12:41	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		09/04/19 12:41	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		09/04/19 12:41	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		09/04/19 12:41	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		09/04/19 12:41	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		09/04/19 12:41	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		09/04/19 12:41	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		09/04/19 12:41	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		09/04/19 12:41	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		09/04/19 12:41	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		09/04/19 12:41	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		09/04/19 12:41	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		09/04/19 12:41	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		09/04/19 12:41	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		09/04/19 12:41	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		09/04/19 12:41	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		09/04/19 12:41	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		09/04/19 12:41	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		09/04/19 12:41	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		09/04/19 12:41	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		09/04/19 12:41	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		09/04/19 12:41	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		09/04/19 12:41	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		09/04/19 12:41	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		09/04/19 12:41	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		09/04/19 12:41	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		09/04/19 12:41	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		09/04/19 12:41	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		09/04/19 12:41	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		09/04/19 12:41	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		09/04/19 12:41	127-18-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 0441161 FORMER OSCAR MAYER

Pace Project No.: 40194148

**Sample: TB-01-WQ-20190829**      **Lab ID: 40194148007**      Collected: 08/29/19 11:30      Received: 08/31/19 08:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
Toluene	<0.17	ug/L	5.0	0.17	1		09/04/19 12:41	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		09/04/19 12:41	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		09/04/19 12:41	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		09/04/19 12:41	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		09/04/19 12:41	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		09/04/19 12:41	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		09/04/19 12:41	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		09/04/19 12:41	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		09/04/19 12:41	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		09/04/19 12:41	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		09/04/19 12:41	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		09/04/19 12:41	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		09/04/19 12:41	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		09/04/19 12:41	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		09/04/19 12:41	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	85	%	70-130		1		09/04/19 12:41	460-00-4	
Dibromofluoromethane (S)	122	%	70-130		1		09/04/19 12:41	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		09/04/19 12:41	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 0441161 FORMER OSCAR MAYER

Pace Project No.: 40194148

QC Batch: 332580 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
 Associated Lab Samples: 40194148001, 40194148002, 40194148003, 40194148004, 40194148005, 40194148006, 40194148007

METHOD BLANK: 1930266 Matrix: Water  
 Associated Lab Samples: 40194148001, 40194148002, 40194148003, 40194148004, 40194148005, 40194148006, 40194148007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	09/04/19 10:00	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	09/04/19 10:00	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	09/04/19 10:00	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	09/04/19 10:00	
1,1-Dichloroethane	ug/L	<0.27	1.0	09/04/19 10:00	
1,1-Dichloroethene	ug/L	<0.24	1.0	09/04/19 10:00	
1,1-Dichloropropene	ug/L	<0.54	1.8	09/04/19 10:00	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	09/04/19 10:00	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	09/04/19 10:00	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	09/04/19 10:00	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	09/04/19 10:00	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	09/04/19 10:00	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	09/04/19 10:00	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	09/04/19 10:00	
1,2-Dichloroethane	ug/L	<0.28	1.0	09/04/19 10:00	
1,2-Dichloropropane	ug/L	<0.28	1.0	09/04/19 10:00	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	09/04/19 10:00	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	09/04/19 10:00	
1,3-Dichloropropane	ug/L	<0.83	2.8	09/04/19 10:00	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	09/04/19 10:00	
2,2-Dichloropropane	ug/L	<2.3	7.6	09/04/19 10:00	
2-Chlorotoluene	ug/L	<0.93	5.0	09/04/19 10:00	
4-Chlorotoluene	ug/L	<0.76	2.5	09/04/19 10:00	
Benzene	ug/L	<0.25	1.0	09/04/19 10:00	
Bromobenzene	ug/L	<0.24	1.0	09/04/19 10:00	
Bromochloromethane	ug/L	<0.36	5.0	09/04/19 10:00	
Bromodichloromethane	ug/L	<0.36	1.2	09/04/19 10:00	
Bromoform	ug/L	<4.0	13.2	09/04/19 10:00	
Bromomethane	ug/L	<0.97	5.0	09/04/19 10:00	
Carbon tetrachloride	ug/L	<0.17	1.0	09/04/19 10:00	
Chlorobenzene	ug/L	<0.71	2.4	09/04/19 10:00	
Chloroethane	ug/L	<1.3	5.0	09/04/19 10:00	
Chloroform	ug/L	<1.3	5.0	09/04/19 10:00	
Chloromethane	ug/L	<2.2	7.3	09/04/19 10:00	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	09/04/19 10:00	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	09/04/19 10:00	
Dibromochloromethane	ug/L	<2.6	8.7	09/04/19 10:00	
Dibromomethane	ug/L	<0.94	3.1	09/04/19 10:00	
Dichlorodifluoromethane	ug/L	<0.50	5.0	09/04/19 10:00	
Diisopropyl ether	ug/L	<1.9	6.3	09/04/19 10:00	
Ethylbenzene	ug/L	<0.22	1.0	09/04/19 10:00	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 0441161 FORMER OSCAR MAYER

Project No.: 40194148

METHOD BLANK: 1930266

Matrix: Water

Associated Lab Samples: 40194148001, 40194148002, 40194148003, 40194148004, 40194148005, 40194148006, 40194148007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	09/04/19 10:00	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	09/04/19 10:00	
m&p-Xylene	ug/L	<0.47	2.0	09/04/19 10:00	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	09/04/19 10:00	
Methylene Chloride	ug/L	<0.58	5.0	09/04/19 10:00	
n-Butylbenzene	ug/L	<0.71	2.4	09/04/19 10:00	
n-Propylbenzene	ug/L	<0.81	5.0	09/04/19 10:00	
Naphthalene	ug/L	<1.2	5.0	09/04/19 10:00	
o-Xylene	ug/L	<0.26	1.0	09/04/19 10:00	
p-Isopropyltoluene	ug/L	<0.80	2.7	09/04/19 10:00	
sec-Butylbenzene	ug/L	<0.85	5.0	09/04/19 10:00	
Styrene	ug/L	<0.47	1.6	09/04/19 10:00	
tert-Butylbenzene	ug/L	<0.30	1.0	09/04/19 10:00	
Tetrachloroethene	ug/L	<0.33	1.1	09/04/19 10:00	
Toluene	ug/L	<0.17	5.0	09/04/19 10:00	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	09/04/19 10:00	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	09/04/19 10:00	
Trichloroethene	ug/L	<0.26	1.0	09/04/19 10:00	
Trichlorofluoromethane	ug/L	<0.21	1.0	09/04/19 10:00	
Vinyl chloride	ug/L	<0.17	1.0	09/04/19 10:00	
4-Bromofluorobenzene (S)	%	85	70-130	09/04/19 10:00	
Dibromofluoromethane (S)	%	115	70-130	09/04/19 10:00	
Toluene-d8 (S)	%	95	70-130	09/04/19 10:00	

LABORATORY CONTROL SAMPLE: 1930267

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	55.1	110	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	46.7	93	70-130	
1,1,2-Trichloroethane	ug/L	50	56.9	114	70-130	
1,1-Dichloroethane	ug/L	50	48.9	98	73-150	
1,1-Dichloroethene	ug/L	50	49.8	100	73-138	
1,2,4-Trichlorobenzene	ug/L	50	43.4	87	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	34.5	69	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	50.7	101	70-130	
1,2-Dichlorobenzene	ug/L	50	48.5	97	70-130	
1,2-Dichloroethane	ug/L	50	52.9	106	75-140	
1,2-Dichloropropane	ug/L	50	64.7	129	73-135	
1,3-Dichlorobenzene	ug/L	50	47.3	95	70-130	
1,4-Dichlorobenzene	ug/L	50	52.4	105	70-130	
Benzene	ug/L	50	56.9	114	70-130	
Bromodichloromethane	ug/L	50	60.1	120	70-130	
Bromoform	ug/L	50	46.9	94	68-129	
Bromomethane	ug/L	50	40.5	81	18-159	

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### QUALITY CONTROL DATA

Project: 0441161 FORMER OSCAR MAYER

Pace Project No.: 40194148

LABORATORY CONTROL SAMPLE: 1930267

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	57.7	115	70-130	
Chlorobenzene	ug/L	50	58.2	116	70-130	
Chloroethane	ug/L	50	42.0	84	53-147	
Chloroform	ug/L	50	55.7	111	74-136	
Chloromethane	ug/L	50	26.4	53	29-115	
cis-1,2-Dichloroethene	ug/L	50	60.8	122	70-130	
cis-1,3-Dichloropropene	ug/L	50	49.2	98	70-130	
Dibromochloromethane	ug/L	50	52.0	104	70-130	
Dichlorodifluoromethane	ug/L	50	26.6	53	10-130	
Ethylbenzene	ug/L	50	57.0	114	80-124	
Isopropylbenzene (Cumene)	ug/L	50	57.2	114	70-130	
m&p-Xylene	ug/L	100	120	120	70-130	
Methyl-tert-butyl ether	ug/L	50	41.2	82	54-137	
Methylene Chloride	ug/L	50	49.9	100	73-138	
o-Xylene	ug/L	50	55.7	111	70-130	
Styrene	ug/L	50	59.5	119	70-130	
Tetrachloroethene	ug/L	50	60.9	122	70-130	
Toluene	ug/L	50	58.7	117	80-126	
trans-1,2-Dichloroethene	ug/L	50	50.1	100	73-145	
trans-1,3-Dichloropropene	ug/L	50	43.3	87	70-130	
Trichloroethene	ug/L	50	61.4	123	70-130	
Trichlorofluoromethane	ug/L	50	56.3	113	76-147	
Vinyl chloride	ug/L	50	37.2	74	51-120	
4-Bromofluorobenzene (S)	%			106	70-130	
Dibromofluoromethane (S)	%			103	70-130	
Toluene-d8 (S)	%			97	70-130	

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## QUALIFIERS

Project: 0441161 FORMER OSCAR MAYER

Pace Project No.: 40194148

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

TNI - The NELAC Institute.

### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 0441161 FORMER OSCAR MAYER

Pace Project No.: 40194148

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40194148001	SR-MW-16B-WG-20190829	EPA 8260	332580		
40194148002	SR-MW-14-WG-20190829	EPA 8260	332580		
40194148003	SR-MW-15-WG-20190829	EPA 8260	332580		
40194148004	TS-MW-18B-WG-20190829	EPA 8260	332580		
40194148005	SR-MW-16A-WG-20190829	EPA 8260	332580		
40194148006	TS-MW-18A-WG-20190829	EPA 8260	332580		
40194148007	TB-01-WQ-20190829	EPA 8260	332580		

### REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: **ERM**  
 Branch/Location: **Milwaukee**  
 Project Contact: **Ryan Plath**  
 Phone: **847-848-4500**  
 Project Number: **0441161**  
 Project Name: **Former Oscar Mayer**  
 Project State: **WI**  
 Sampled By (Print): **DF**  
 Sampled By (Sign): *[Signature]*  
 PO #: \_\_\_\_\_ Regulatory Program: **WDNR**



UPPER MIDWEST REGION  
 MN: 612-607-1700 WI: 920-469-2436

40194148

### CHAIN OF CUSTODY

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

FILTERED?  
(YES/NO)  
 PRESERVATION  
(CODE)\*

Y/N	Pick Letter	Analyses Requested																		
	B	VOCs by 8260B																		

Quote #: \_\_\_\_\_  
 Mail To Contact: \_\_\_\_\_  
 Mail To Company: \_\_\_\_\_  
 Mail To Address: \_\_\_\_\_  
 Invoice To Contact: **ERM Northern Division**  
 Invoice To Company: **accounts payable@erm.com**  
 Invoice To Address: **erm.com**  
**Ryan.plath@erm.com**  
 Invoice To Phone: \_\_\_\_\_

Data Package Options (billable)  
 EPA Level III  
 EPA Level IV

MS/MSD  
 On your sample (billable)  
 NOT needed on your sample

Matrix Codes  
 A = Air W = Water  
 B = Biota DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 O = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Y/N	Pick Letter	Analyses Requested
		DATE	TIME				
001	SR-MW-16B-W6-20190829	8/29/19	1300	GW		X	
002	SR-MW-14-W6-20190829	8/29/19	925	GW		X	
003	SR-MW-15-W6-20190829	8/29/19	1040	GW		X	
004	TS-MW-18B-W6-20190829	8/29/19	1700	GW		X	
005	SR-MW-16A-W6-20190829	8/29/19	1135	GW		X	
006	TS-MW-18A-W6-20190829	8/29/19	1530	GW		X	
007	TB-OI-WQ-20190829	8/29/19	1130	W		X	

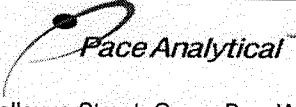
CLIENT COMMENTS: \_\_\_\_\_  
 LAB COMMENTS (Lab Use Only): **JTB**  
 Profile #: \_\_\_\_\_

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed: _____	Relinquished By: <i>[Signature]</i> Date/Time: <b>8/30/2019 1336</b>	Received By: <i>[Signature]</i> Date/Time: <b>8/30/19 1336</b>	PACE Project No. <b>40194148</b>
Transmit Prelim Rush Results by (complete what you want): _____	Relinquished By: <i>[Signature]</i> Date/Time: <b>08-30-19 1334</b>	Received By: _____ Date/Time: _____	
Email #1: <b>Ryan.plath@erm.com</b>	Relinquished By: <i>[Signature]</i> Date/Time: <b>8/27/19 8:40</b>	Received By: <i>[Signature]</i> Date/Time: <b>8/27/19 8:40</b>	
Email #2: <b>Dhand.deconvicbawer@erm.com</b>	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	
Telephone: <b>847-848-4500</b>	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	Receipt Temp = <b>20.1</b> °C
Fax: _____	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	Sample Receipt pH <b>OK / Adjusted</b>
Samples on HOLD are subject to special pricing and release of liability	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	Cooler Custody Seal <b>Present / Not Present</b> Intact / Not Intact








 1241 Bellevue Street, Green Bay, WI 54302	Document Name: <b>Sample Condition Upon Receipt (SCUR)</b>	Document Revised: 25Apr2018
	Document No.: <b>F-GB-C-031-Rev.07</b>	Issuing Authority: Pace Green Bay Quality Office

### Sample Condition Upon Receipt Form (SCUR)

**Client Name:** FRM  
**Courier:**  CS Logistics  Fed Ex  Speedee  UPS  Walco  
 Client  Pace Other: \_\_\_\_\_

Project #: \_\_\_\_\_

WO#: 40194148



40194148

**Tracking #:** 1776.083019

**Custody Seal on Cooler/Box Present:**  yes  no    **Seals intact:**  yes  no

**Custody Seal on Samples Present:**  yes  no    **Seals intact:**  yes  no

**Packing Material:**  Bubble Wrap  Bubble Bags  None  Other

**Thermometer Used** SR - N/A    **Type of Ice:**  Wet  Blue Dry None     Samples on ice, cooling process has begun

**Cooler Temperature**    Uncorr: 100    ICorr: \_\_\_\_\_

**Temp Blank Present:**  yes  no    **Biological Tissue is Frozen:**  yes  no

**Person examining contents:**  
**Date:** 8/31/19  
**Initials:** FR

Temp should be above freezing to 6°C.  
 Biota Samples may be received at ≤ 0°C.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
<b>Short Hold Time Analysis (&lt;72hr):</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
<b>Rush Turn Around Time Requested:</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No    MS/MSD: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis    Matrix: <u>W</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____		

**Client Notification/ Resolution:** \_\_\_\_\_    If checked, see attached form for additional comments

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

**Project Manager Review:** AC for DM    **Date:** 8/31/19



## **ATTACHMENT B**

## **REMEDIAL TECHNOLOGY SCREENING TABLE**






Table B1 - Soil Vapor Mitigation

**Objective:** Address concentrations of Trichloroethylene (TCE), detected in sub-slab soil gas samples in the former spice room located in Building 43. TCE was detected at concentrations exceeding the Wisconsin Department of Natural Resources (WDNR) sub-slab soil gas screening criteria for industrial properties.

		Soil Vapor Extraction (SVE)		Excavation and Sub-Slab Depressurization System	
<b>Description</b>		Installation of a blower or vacuum pump connected to extraction wells screened in the unsaturated zone to remove contaminants for treatment, if necessary, or directly discharge to the atmosphere. Based on the area of vacuum influence established during the design, complementary low-vacuum system (sub-slab depressurization system or SSDS) may be required in distal areas to mitigate vapor intrusion risks.		Remove Source Area soil for off-site disposal and backfill excavation. To address vapor intrusion risk beyond Source Area, install sub-slab depressurization system (SSDS). SSDS technology is similar to SVE but at a much lower vacuum, intended to maintain slight negative pressure beneath floor to mitigate vapor intrusion risks.	
<b>Targeted Area</b>		Source Area between upper and lower floor slabs and soil gas that has migrated beyond the Source Area		Source Area between upper and lower floor slabs and soil gas that has migrated beyond the Source Area	
<b>Effectiveness</b>	<b>Treatment Mechanism</b>	No treatment, just mass removal mechanism; however, off-gas treatment may be required based on air permitting evaluation	1	Physical removal of contamination throughout source area (excavation) and soil gas vapors from SSDS are exhausted to atmosphere	1
	<b>Certainty</b>	High - established technology for target compounds	3	High - source removed with excavation, vapors with SSDS	3
	<b>Long Term Effectiveness</b>	High - aggressive source removal	3	High (aggressive source removal and long-term operation of SSDS)	3
<b>Implementability</b>	<b>Constructability</b>	Relatively simple construction; characteristics of vadose zone fill material may affect even distribution of air flow	3	Target areas are below and nearby currently constructed buildings, and associated utilities; SSDS however is constructible.	-1
	<b>Long Term Maintenance</b>	System will require operation and maintenance (O&M) for duration	1	None for soil excavation, low for SSDS	3
	<b>Other</b>	Treatment of off-gas, if required, significantly increases cost and O&M requirement.	3	Will require demolition of existing structure, or movement of existing utilities.	-1
<b>Stakeholder &amp; Regulatory Considerations</b>		Familiar technology accepted by regulators and stakeholders.		Familiar technology accepted by regulators and stakeholders.	
<b>Data Gaps</b>		Pilot test required to determine vacuum radius of influence and for system design.		Significant pre design fieldwork, investigation, and planning to complete excavation in and around existing buildings, support structures, and associated utilities	
<b>Estimated Remediation Timeframe</b>		1-2 years		< 1 year (soil); 10+ years (SSDS)	
<b>Estimated Cost</b>	<b>Capital</b>	Moderate	1	High	-1
	<b>Annual O&amp;M</b>	Moderate (depending on air treatment requirements)	1	Low	3
<b>Retained Remedy?</b>		<b>Yes</b>		<b>No</b>	
		<b>23</b>		<b>13</b>	

Notes:

<b>Rank:</b>	<b>Cost:</b>
 Favorable (Score +3)	<\$100k
 Some uncertainty/limitations (Score +1)	\$100k - \$500k
 Unfavorable (Score -1)	>\$500k



**APPENDIX G**

**BRRTS #02-13-000895**

**Oscar Mayer Inc.**

**Site File Selections**





July 27, 2006

Mr. Mike Schmoller  
Wisconsin Department of Natural Resources  
3911 Fish Hatchery Road  
Fitchburg, WI 53711

**SUBJECT: Closure Request  
Oscar Mayer Foods – Groundwater Project  
910 Mayer Avenue, Madison, Wisconsin  
WDNR BRRTS I.D. #02-13-000895  
BT² Project #1912**



Dear Mike:

On behalf of Kraft Foods Global, Inc. (doing business as Oscar Mayer Foods), BT² requests that the Wisconsin Department of Natural Resources grant case closure for the Oscar Mayer Foods groundwater study site, located at 910 Mayer Avenue, Madison, Wisconsin. Vinyl chloride remains above the NR 140 enforcement standard at one monitoring well (MW1) and the adjacent piezometer (PZ1). Groundwater sampling results indicate the contaminant concentrations are decreasing. The vinyl chloride groundwater contamination is limited in extent and is within the boundaries of the property, and production wells at the facility are either abandoned or are used as backup water supply for firefighting. No source of chlorinated solvents was detected in soil.

We are requesting case closure under NR 726.05(2)(b), with a groundwater Geographic Information System (GIS) site registration. Consistent with NR 749, a check for \$1,000 is attached for the \$750 WDNR review fee and the \$250 groundwater GIS fee.

Please contact us at (608) 224-2830 if you have any questions about the attached case Closure Request.

Sincerely,  
BT², Inc.

John B. Tweddale, P.G.  
Principal, Hydrogeologist

John Mason, P.G.  
Hydrogeologist

Enclosures: Case Summary and Close Out Request Form with Attachments A through I  
Check for \$1,000

cc: Mr. Robert Sherman, Kraft Foods (CD-ROM)  
Mr. Bob Dougherty, Kraft/Oscar Mayer Foods (CD-ROM)  
Ms. Lisa Krogman, Environ (CD-ROM)  
Mr. Jeffrey Srulovitz, Kraft Foods (CD-ROM)  
Mr. Phil McAndrew, Kraft Foods (CD-ROM)

E:\1912\Reports\Schmoller\_M\_WDNR\_Closure\_Request\_060727\_rpt.doc





State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor  
Scott Hassett, Secretary  
Lloyd L. Eagan, Regional Director

South Central Region Headquarters  
3911 Fish Hatchery Road  
Fitchburg, Wisconsin 53711-5397  
Telephone 608-275-3266  
FAX 608-275-3338  
TDD 608-275-3231

August 1, 2006

File Ref: 02-13-000895

Mr. Robert Sherman  
Oscar Mayer Foods  
Division of Kraft Foods Global, Inc.  
910 Mayer Avenue  
Madison WI 53704-4287

SUBJECT: Receipt of Site Closure: **Oscar Mayer Inc. 910 Mayer Ave. Madison WI**

Dear Mr. Sherman:

On July 31, 2006 the Department of Natural Resources received your request for site closure.

Section NR 726.07, Wisconsin Administrative Code, requires the Department to respond within 30 days after receipt of a request for case closure providing an estimated date by which the department intends to issue a determination on case closure.

This letter serves as written acknowledgment of your request for closure. Based on current Department workloads, your closure request will likely be reviewed within 1 to 2 months. NOTE: This is only an estimate; changes in workload may cause unforeseen delays in the review process. The Department will make every effort to review requests in a timely manner.

If you have any questions, please call me at the number listed below.

Sincerely,

Wendy Weihemuller, Program Assistant  
Remediation & Redevelopment  
Telephone: (608) 275-3212

cc: → File  
John Tweddale BT2 Inc. 2830 Dairy Dr. Madison WI 53718-6751





**Closure Request  
Oscar Mayer Foods - Groundwater Project  
910 Mayer Avenue  
Madison, Wisconsin**

**July 2006**

**Prepared For:**

**Kraft Foods Global, Inc.  
910 Mayer Avenue  
Madison, Wisconsin 53704-4287**

**Prepared By:**

**BT<sup>2</sup>, Inc.  
2830 Dairy Drive  
Madison, Wisconsin 53718-6751**

**BT<sup>2</sup> Project #1912**

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

  
Signature

Hydrogeologist \_\_\_\_\_  
Title

July 27, 2005 \_\_\_\_\_  
Date





WDNR BRRTS CASE # 02 - 13 - 000895

WDNR SITE NAME: Oscar Mayer – Groundwater Project

**WISCONSIN DEPARTMENT OF NATURAL RESOURCES**  
**Bureau for Remediation and Redevelopment**

This form is intended to provide instructions and a list of information that must be submitted for evaluation for case closure, each time a request is made. The closure of a case means that the Department has determined that no further response is required at that time based on the information that has been submitted to the Department.

**NOTICE: Completion of this form is mandatory for applications for case closure pursuant to ch. 292, Wis. Stats. and ch. NR 726, Wis. Adm. Code, including cases closed under ch. NR 746 and ch. NR 726. The Department will not consider, or act upon your application, unless all applicable sections are completed on this form and the closure fee and any other applicable fees, required under ch. NR 749, Wis. Adm. Code, Table 1 are included. It is not the Department's intention to use any personally identifiable information from this form for any purpose other than reviewing close out requests and determining the need for additional response action. The Department may provide this information to requesters as required by Wisconsin's Open Records law [ss. 19.31 - 19.39, Wis. Stats.].**

In order to expedite the closure process, provide a complete and accurate closure package according to the following instructions, each time a closure decision is requested:

- Submit the Case Summary and Close Out Form and the required attachments as a stand-alone, **unbound** package. Include all information requested per section, as appropriate to the site, in the order shown. Include all attachments per section, as appropriate. Do not attach previously submitted reports. Correctly reference any reports in the case summary, as applicable.
- Include fees with this package at the time it is submitted to the department in order for the application to be considered complete.
- Specify your selected closure option.
- Include all **GIS Registry information** (in Section I) as a stand-alone document (*do not refer to materials in other attachments*). Include copies of all **off-source property and ROW notifications**.
- Place a √ (attached) or NA (not applicable) in the blank next to each attachment, in each section.
- Include a draft of the deed document with the close out application, if a **deed restriction** or **deed notice** is required as a condition of closure of the selected remedy. Include a maintenance plan, if it is required in the deed instrument.
- **Maps for the GIS Registry may not be larger than 8.5 x 14 inches**, unless maps are submitted in electronic form in portable document format (pdf) readable by the Adobe Acrobat Reader. For electronic document submittal requirements, see <http://www.dnr.wi.gov/org/aw/rr/archives/pubs/RR690.pdf>.
- Prepare maps according to the applicable portions of ss. NR 716.15(2)(h)1 and 726.05(3)(a)4.d. Prepare visual aids, including maps, plans, drawings, cross sections, fence diagrams, tables and photographs according to s. NR 716.15(2)(h)1. – 4.
- **Use a bold font** on information of importance on tables, maps and figures. A **bold font (for ES exceedances)** and *italics (for PALs)* are preferred when differentiation is necessary. **Please do not use shading or highlights** on any of the analytical tables (per s. NR 726.05(3)) and maps as the shading obscures the information that is scanned for inclusion in the GIS Registry.
- Put multiple tables submitted for contaminated media data (eg. pre- and post-remedial data) in chronological order. Include the level of detection for results which are below the detection level (i.e. do not just list as no detect (ND)). Summaries of all data should include information collected by previous consultants. Do not submit lab data sheets unless these have not been submitted in a previous report. Tabulate all data required in s. NR 716.15(2)(g)3 in the format required in s. NR 716.15(2)(h)3.
- Document free product recovery estimates as required in s. NR 708.15, if applicable.



WDNR BRRTS CASE # 02 - 13 - 000895

WDNR SITE NAME: Oscar Mayer – Groundwater Project

**Section A: Case History and Closure Pathway Selected**

**ATTACHMENTS:**

- A brief site summary including results of all investigative activities, interim and remedial actions taken, a description of any residual soil and/or groundwater contamination and their locations, a description of any other media affected, and a description of how actual and potential impacts to receptors have been addressed.
- Site location map on USGS topographic base map.
- Site map including buildings, utilities, property lines of source property and impacted non-source properties, ground cover and supply wells. *These maps may be combined. A copy of the map(s) from Section I, #5 may be used.*
- Verification of the zoning for affected properties.

**INFORMATION NEEDED:**

1. Site Name Oscar Mayer – Groundwater Study  
 Street Address: 910 Mayer Avenue  
 City/Zip Code: Madison, WI 53704-4287
2. BRRTS #: 02-13-000895
3. DNR FID #: \_\_\_\_\_ PECFA Claim#: \_\_\_\_\_
4. Responsible Party Name Oscar Mayer Foods Division of Kraft Foods Global, Inc.  
 Mailing Address: 910 Mayer Avenue City/Zip Code: Madison, WI 53704-4287  
 Phone number: (608) 285-3176 Contact Person: Mr. Robert Sherman
5. Date of Incident/Discovery: Feb. 22, 1984 Contaminant Type(s): cis- 1,2- dichloroethene and vinyl chloride
6. Quantity Released: Unknown
7. Land Use:  
 Current: \_\_\_\_\_ Residential \_\_\_\_\_ Commercial  Industrial \_\_\_\_\_ Other  
 If other, specify: \_\_\_\_\_  
 Planned Post Remediation: \_\_\_\_\_ Residential \_\_\_\_\_ Commercial  Industrial \_\_\_\_\_ Other  
 If other, specify: \_\_\_\_\_
8. Is a zoning change required? \_\_\_\_\_ Y  N  
 If so, has it been completed for post remedial land use? \_\_\_\_\_ Y \_\_\_\_\_ N
9. Approx 54 Acres ready for use (The total area in acres of all adjacent tax parcels owned by the same entity on the site where the contamination originated, rounding fractions to nearest .5 acre and noting >100 acres for acreages above 100 acres. For multiple discharges that are cleaned up concurrently, count the acres once.)
10. Geographic Coordinates (meters/ WTM83/91) E 572,415 N 293,517
11. Method Used to Obtain Geographic Coordinates:  
 \_\_\_\_\_ On-site using GPS equipment, converted or projected into WTM83/91 coordinates  
 Used RR GIS Registry web site to get WTM83/91 coordinates  
 \_\_\_\_\_ Other (specify): \_\_\_\_\_
13. \*Groundwater Contamination Remaining (>ES):  
 On Source Property  Y \_\_\_\_\_ N  
 Off Source Property \_\_\_\_\_ Y  N
13. \*Residual Soil Contamination > Generic or Site-Specific RCL:  
 On Source Property \_\_\_\_\_ Y  N  
 Off Source Property \_\_\_\_\_ Y  N
14. Contamination in Right of Way: \_\_\_\_\_ Y  N
15. Closure Pathway Selected: check all that apply

<u>CLOSURE via NR 726</u>	
Soil	Groundwater
<input checked="" type="checkbox"/> < s. NR 720.09/720.11 Generic RCLs	_____ < s. NR 140.10 Table 1 & Table 2 Values
_____ s. NR 720.19(2) Soil Performance Standards	_____ s. NR 140.28(2) PAL Exemption
_____ s. NR 720.19(4) Groundwater Pathway	<input checked="" type="checkbox"/> s. NR 726.05(2)(b), ≥ES Natural Attenuation
_____ s. NR 720.19(5) Direct Contact	
_____ s. NR 720.19(6) Other Pathways	



WDNR BRRTS CASE # 02 - 13 - 000895

WDNR SITE NAME: Oscar Mayer – Groundwater Project

<u>CLOSURE via NR 746 and NR 726</u>	
<u>Petroleum Storage Tank Soil Options for Closure:</u>	
<u>    </u> s. NR 746.07 Requirements Met-Post Investigation	
<u>    </u> s. NR 746.08 Requirements Met-Post Remed.	
<u>Petroleum Storage Tank GW Options for Closure:</u>	<u>Petroleum Storage Tank GW Options for Closure:</u>
<u>Within Permeable Material:</u>	<u>Within Low Permeability Material:</u>
<u>    </u> s. NR 746.07(3) ≥PAL <ES, Post Investigation	<u>    </u> s. NR 746.07(2), Post Investigation
<u>    </u> s. NR746.07(4) >ES, Post Investigation	<u>    </u> s. NR 746.08(2), Post Remediation
<u>    </u> s. NR 746.08(3) ≥ PAL, <ES, Post Remediation	
<u>    </u> s. NR 746.08(4) >ES, Post Remediation	

**Section B: Receptor Summary**

ATTACHMENTS:

- NA Notification(s) regarding contamination in ROW
- NA Notification(s) to off-source property owners regarding sampling results

INFORMATION NEEDED:

1. Identify all pre-remedial actual receptors, the assessed risk and their locations (e.g., both on- and off-site utility corridors, basements or sumps of nearby buildings, direct contact threat from soil, water supplies, surface waters, sediments, vapors, etc.) For definitions, refer to s. NR 700.03 (47), Wis. Adm. Code.  
No completed exposure pathways have been identified on or off the source property. See Sections A and G for further discussion of exposure pathways.

2. Have the remedial actions addressed the potential or actual impacts to these receptors?  
  X  Y (Details in the case history summary (Section A)).  
     N If no, please identify the nature of the remaining risk and the receptor at risk, if any:

**Section C: Soil Investigation Information**

ATTACHMENTS:

- X   Complete soil data summary table of field screening and laboratory analytical results, including all detects, regardless of ch. NR 720 standards, with dates, sample locations, depths and detection limits. Identify exceedances.
- X   Map(s) of all pre-remedial soil sampling locations: depicting all soil sample locations relative to site facilities. Note in bold font those sample locations that exceed ch. NR 720 RCLs (including free product location) and delineate the extent of contamination.
- X   Pre-remedial geologic cross-sections; including geology, source location(s), extent of soil and groundwater contamination, free product location/depth, soil sample locations, water table elevation, and bedrock elevation, if encountered.

INFORMATION NEEDED:

1. Extent Defined?   X  Y      N If not, explain why. \_\_\_\_\_
2. Soil Type(s):   Fill, peat, silt, clay, and sand
3. Depth of Contamination: Top:   None observed   Bottom: \_\_\_\_\_
4. Type of Bedrock:   Sandstone   Depth to Bedrock:   255 feet



WDNR BRRTS CASE # 02 - 13 - 000895

WDNR SITE NAME: Oscar Mayer - Groundwater Project

5. Is Any Contaminated Soil (Unsaturated or Saturated) in Contact With the Bedrock?  Y  X  N  
6. Measurable Free Product?  Y  X  N Depth/Location: \_\_\_\_\_

**Section D: Soil Remediation Information**

ATTACHMENTS:

- NA Map showing remediated area (for example, excavation limits or area influenced by SVE) and locations of post-remediation soil samples (if any). This map should show the locations and extent of residual soil contamination exceeding ch. NR 720 RCLs. These samples should be noted in bold font. *A copy of the map(s) from Section I, #10, may be used.*
- NA Soil disposal documentation
- NA NR 720.19 analysis, assumptions and calculations for site specific RCLs (SSRCLs) , with justification
- NA Calculations and results of EPA Soil Screening Level Model.
- See Post-remedial cross-section(s) with post remedial soil sampling results, if soil removal or treatment has occurred. Identify sample results and depths. *A copy of the cross-section(s) from Section I, #11, may be used or you may refer to the cross-section(s) in Section E, as appropriate.*
- C-4 & C-5 \_\_\_\_\_ see Section E

INFORMATION NEEDED:

1. Remedial Action Completed?  NA  Y  N No Remediation performed.
2. Were immediate or interim actions conducted?  Y  X  N If yes, what action was taken?  
\_\_\_\_\_
3. Brief description of remedial action taken:  
No source area identified and no soil remediation performed.
4. Were soils excavated?  Y  X  N  
Quantity: \_\_\_\_\_ Disposal Method: \_\_\_\_\_
5. Final Confirmation Sample Collection Methods:  
\_\_\_\_\_
6. Final Soil/Drill Cuttings Disposal Location: 3 drums of PZ1 soil cuttings disposed at Waste Management of Wisconsin - Valley Trail Facility, Berlin, WI
7. Estimated volume and depth of in situ soils exceeding ch. NR 720 Table RCLs or Site Specific RCLs:  
Not Applicable. Soil contamination not identified.
8. Estimated volume and depth of in situ soils exceeding ch. NR 746 Table 1 or Table 2 or Site Specific RCLs (*underground petroleum tank systems, as defined in ch. NR 746 only*):  
\_\_\_\_\_
9. s. NR 720.19 Analysis?  Y  X  N  
 Performance Standard -NR 720.19(2)  
 SSRCL - NR 720.19(3) and (4),(5) or ( 6)
10. If the remedy includes a Soil Performance Standard, what type?  X not applicable  
 Cap  Soil  Building  Natural Attenuation of Groundwater  Other  
Specify other: \_\_\_\_\_
11. Will the maintenance of the SPS be consistent with the planned post remediation land use?  
 Y  N If no, please explain: \_\_\_\_\_
12. Is the EPA Soil Screening Level Model used as justification for closure of sites with residual contaminated soils?  
 Y  N Are the input numbers used:  Site Specific , or  WI Defaults?

**Section E: Groundwater Information**

ATTACHMENTS:

- X Table identifying all contaminants, summarizing all pre- and post-remediation groundwater analytical results, with sample collection dates (*prepared in accordance with guidance document RR-628*)
- X Groundwater sample location map showing the site facilities and all monitoring wells, sumps, extraction wells, and potable and non-potable wells.



WDNR BRRTS CASE # 02 - 13 - 000895 WDNR SITE NAME: Oscar Mayer - Groundwater Project

- X Isoconcentration map(s) when included as part of the site investigation or map(s) of the horizontal extent of contamination based on most recent data. *A copy of the map(s) from Section I, #7, may be used.*
- X A map showing groundwater flow direction(s) and summarizing the maximum variation in flow direction. *Multiple maps may be used. A copy of the map(s) from Section I, #9, may be used.*
- X A table summarizing all groundwater elevations, with dates, and top and bottom elevations of well screens. *(Wells are to be referenced to national geodetic survey datum, as per NR 141.065(2)).*
- X Graphs and statistical analyses which demonstrate the dynamics of the groundwater plume, for sites requesting closure using natural attenuation that meet the criteria s. NR 726.05(2)(b) or of s. NR 746 (permeable soils). *Refer to WDNR publication RR-614 for guidance.*
- X Geologic cross-sections showing extent of residual soil and/or groundwater contamination, as applicable. *A copy of the cross-section(s) from Section I, #11 may be used.*

**INFORMATION NEEDED:**

1. Extent of Contamination Defined? X Y      N      N/A
2. Remedial Action Completed? X Y      N      N/A  
 Brief Description of Remedial Action Taken: Natural attenuation.

---

3. Depth(s) to Groundwater approx 4 to 7 feet bgs Flow Direction(s): West, South on most recent event (April 14, 2005)
4. Field Analyses?      Y X N  
 Lab Analyses Y Y      N
5. 12 # of Sampling Rounds (note: some wells sampled fewer, see Table E-1)  
6 # of Sampling Points  
6 # NR 141 Monitoring Wells Sampled  
0 # Temporary GW Sampling Points Sampled  
0 # Recovery Sumps Sampled  
0 # Municipal Wells Sampled  
0 # Private Wells Sampled
6. Was DNR notified of substances in groundwater without standards: X Y      N      N/A  
 If yes, how many? 1 What substances? Chlorobenzene

---

7. Preventive Action Limit currently exceeded? X Y      N If yes, identify location(s) MW1 and PZ1

---

8. Enforcement Standard currently exceeded? X Y      N If yes, identify location(s) MW1 and PZ1

---

9. Measurable free product detected?      Y X N Pre-remediation  
     Y X N Post-remediation
10. Was free product remediated?      Y      N  
 Method:       
 Purge water or free product-groundwater mixture disposal method? Purge water was disposed to Oscar Mayer waste water treatment plant.

---

11. Potable wells within 1200 feet of site?      Y X N  
 Have they been sampled?      Y      N  
 Oscar Mayer's production wells 004 and 006 are not in use and are used as backup for firefighting. Other production wells 002, 003, and 005 have been Type (i.e. municipal, private, etc.)? abandoned.  
 [NOTE: Include wells on groundwater well location map ]

---

12. Has DNR been provided with all results of private well sampling?      Y      N
13. Have well owners/occupants been notified of results? (Sec. B Attachments)      Y      N  
 (Results also need to be sent to the DNR Water Supply Specialist)

**Section F: Other Contaminated Media Information:**

ATTACHMENTS:



WDNR BRRTS CASE # 02 - 13 - 000895

WDNR SITE NAME: Oscar Mayer – Groundwater Project

NA Table of analytical results for all contaminants for media other than soil or groundwater  
INFORMATION NEEDED:

1. Have other media been impacted (either on-site or off-site e.g. sediment, utilities, air)? Y N  
Briefly describe type and extent of **all** contamination found in media other than soil or groundwater:  
\_\_\_\_\_
2. Remedial action completed? Y N N/A  
Brief description of action taken: \_\_\_\_\_
3. # of Post Remedial Sample Rounds: \_\_\_\_\_  
# of Sampling Points: \_\_\_\_\_  
Field Analyses? Y N  
Lab Analyses? Y N

**Section G: Associated Site Closure Information:**

ATTACHMENTS:

- NA Construction documentation or as-built report for any constructed remedial action or portion of, or interim action specified in s. NR 724.02(1), in accordance with s. NR 724.15.
- NA Maps and photos documenting the cap area, and/or integrity of the cap, with date.
- NA Description of any soil performance standard cover system used, including a description of how it meets the requirement to be protective until residual contaminant concentrations no longer pose a threat to public health, safety, welfare or the environment, per s. NR 720.19(2), s. NR 722.09(2) and (3).
- NA Maintenance plan with deed restriction for performance standard remedy. (per ss. NR 720.19(2) and 724.13(2))

INFORMATION NEEDED:

1. Enforcement actions closed out? Y N X N/A
2. Permits closed out? Y N X NA
3. Describe how the following pathways are protected:
  - a) Direct Contact Pathway: No soil contamination has been identified in the vicinity of MW1 or PZ1.
  - b) Groundwater: The area where vinyl chloride has been detected is well defined, and the only permanent monitoring wells with NR 140 ES exceedances are at MW1 and PZ1 (see Figure (E-2)). The plume boundary is stable and there are decreasing concentrations with depth. There is no threat to any drinking water supply, and natural attenuation processes are reducing the residual contaminant mass.
  - c) Other: \_\_\_\_\_

**H: Proposed Institutional Controls:** (See Pub. RR-606)

ATTACHMENTS:

- X RR GIS Registry of Closed Remediation Sites (Attachment H-1 pdf on CD)
  - \_\_\_\_\_ Soil
  - X \_\_\_\_\_ Groundwater
  - \_\_\_\_\_ Both
- NA Draft deed document (Contact your DNR project manager for a template or guidance.)  
Type: \_\_\_\_\_ Deed Restriction  
\_\_\_\_\_ Deed Notice  
\_\_\_\_\_ Maintenance Agreement  
\_\_\_\_\_ Other: \_\_\_\_\_



WDNR BRRTS CASE # 02 - 13 - 000895

WDNR SITE NAME: Oscar Mayer – Groundwater Project

**I. Required GIS Registry Information:** Provide the following information, as a separate, stand-alone attachment, in the order specified.

**1. Copy(s) of most recent deed**, including legal description(s), for all affected properties within or partially within the contaminated site boundary. (NOTE: If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.)

**2. A copy of certified survey map(s)**, as required by s. NR 716.15(2)(j)2., or the relevant section of the recorded plat map for those properties where the legal description in the most recent deed refers to a certified survey map or a recorded plat map (lots on subdivided or platted property (e.g., lot 2 of xyz subdivision).

**3. The parcel identification number** (if county uses them) for each property within the contaminated site boundaries. Include the address of each property within the contaminated site boundary (regardless of whether parcel id # exists). **Geographic position** data for each property (meters in WTM83/91 projection) in compliance with the requirements of s. NR 716.15 (2)(k), unless this information was previously submitted to the agency with administrative authority for the site as part of the site investigation report, or unless the agency with administrative authority has directed that the responsible party does not need to provide geographic position data for a specific site.

**4. A site location map** which outlines all properties within the contaminated site boundaries on a U.S.G.S. topographic map or plat map in sufficient detail to permit the easy location of all parcels. If groundwater standards are exceeded, the map must also include the location of all municipal and potable wells within 1200 feet of the site. (If only one property, combine with map required in next item #5.)

**5. A map of contaminated properties within the site boundary** showing buildings, roads, property boundaries, contaminant sources, utility lines, monitoring wells and potable wells. This map shall also show the location of all contaminated public streets, and highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination exceeding ch. NR 140 enforcement standards, and/or in relation to the boundaries of soil contamination exceeding generic or site-specific residual contaminant levels as determined under s. NR 720.09, 720.11 and 720.19.

**6. A table of the most recent analytical results**, with sample collection dates from all monitoring wells, and any potable wells for which samples have been collected for groundwater, and/or showing results for all contaminants found in pre-remedial sampling and in the most recent soil sampling event, for soils (without shading or crosshatching). Note occurrence of free product.

**7. A groundwater isoconcentration map**, if required as part of the site investigation (SI), of the contaminated properties within the site boundaries. The map must include the areal extent of groundwater contamination exceeding PALS and the areal extent of groundwater contamination exceeding ESs, groundwater flow direction(s) based on the most recent data, and sample collection dates. **If an isoconcentration map was not required** as part of the SI, substitute a map showing the horizontal extent of contamination, based on the most recent data. Note free product location(s).

**8. A table of the previous 4 water level elevation measurements from all monitoring wells**, at a minimum, with the date measurements were made, is to be included. If present, note free product elevation and thickness on the table.

**9. A groundwater flow direction map** representative of groundwater movement at the site. If the flow direction varies by more than 20° over the history of the site, 2 groundwater flow maps showing the maximum variation in flow direction are to be submitted. *Prepare maps according to the applicable portions of ss. NR 716.15(2)(g)5-8 and 716.15(2)(h)1-2.*

**10. For sites closing with residual soil contamination, include a map showing the location of all soil samples** and a single contour showing the horizontal extent of each area of contiguous residual soil contamination that exceeds generic or site specific residual contaminant levels.

**11. A geologic cross section**, if required as part of the SI, showing vertical extent and location of residual soil contamination exceeding generic or site specific RCLs and residual groundwater contamination, source extent and location, isoconcentrations for all groundwater contaminants that exceed PALS that remain when closure is requested; water table and piezometric elevations, and the location and elevation of geologic units, bedrock, and confining units, if any.

**12. A statement signed by the responsible party**, which states that he or she believes that the legal description has been attached for each property that is within, or partially within, the contaminated site boundary. (The purpose of this requirement is that a legal description for each of the contaminated properties has been submitted. The RP is not required to attest to the accuracy of the attached legal descriptions.)



WDNR BRRTS CASE # 02 - 13 - 000895

WDNR SITE NAME: Oscar Mayer - Groundwater Project

NA 13. A copy of the letters sent by the RP to all owners of properties with groundwater exceeding ESs as required by s. NR 726.05(3)(a)4.g. Letters sent to off-source properties must contain standard provisions in Appendix A of ch. NR 726. (*Off source properties are listed separately on the GIS Registry with a link to the source property.*) If the source property is owned by someone other than the person who is applying for case closure, a copy of the letter notifying the current owner of the source property that case closure has been requested should also be included.

NA 14. A copy of all written notifications provided to the city/village/municipal/state agency or other entity responsible for maintenance of a public street or highway or railroad right-of-way, within or partially within the boundaries of the contaminated site, for contamination exceeding groundwater ESs and/or soil exceeding generic or site specific RCLs.

NA 15. A list of addresses for all off-source properties affected by residual soil or groundwater contamination exceeding applicable standards.

I certify that, to the best of my knowledge, the information presented on and attached to this form is true and accurate. This recommendation for case closure is based upon all available data as of July 27, 2006 (date). I have read the Case Summary and Close Out Form instructions and all required information has been included.

Form Completed By:  July 27, 2006  
(Signature) (Date)

- \$750.00 Closeout Review Fee Attached
- \$250.00 GIS Registry Maintenance Fee Attached (GW)
- \$200.00 GIS Registry Maintenance Fee Attached (Soil)

Printed Name: John B. Tweddale, P.G.

Company Name: BT<sup>2</sup>, Inc.

Email address: jtweddale@bt2inc.com

If not site owner, relationship to site owner: Environmental consultant

Address: 2830 Dairy Drive City/Zip Code Madison 53718-6751

Telephone Number: ( 608 ) 224-2830 FAX Number: ( 608 ) 224-2839

Environmental Consultant (if different than above): \_\_\_\_\_

Address: \_\_\_\_\_ City/Zip Code \_\_\_\_\_

Telephone Number: ( \_\_\_\_\_ ) \_\_\_\_\_ FAX Number: ( \_\_\_\_\_ ) \_\_\_\_\_



WDNR BRRTS CASE # 02 - 13 - 000895

WDNR SITE NAME: Oscar Mayer - Groundwater Project

**FOR DEPARTMENT USE ONLY**

PROJECT MANAGER: \_\_\_\_\_ Date Reviewed: \_\_\_\_\_

Approved  Denied  Sent to Committee

CLOSURE COMMITTEE DECISION ON CLOSURE:

FIRST COMMITTEE REVIEW DATE: \_\_\_\_\_  Approved  Denied

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Signature)

**COMMITTEE RECOMMENDATION:**

\_\_\_\_\_ **Closure Approved With:**

- \_\_\_\_\_ No Restrictions
- \_\_\_\_\_ Listing on GIS Registry due to Groundwater impacts
- \_\_\_\_\_ Listing on GIS Registry due to Soil impacts
- \_\_\_\_\_ Zoning Verification
- \_\_\_\_\_ Deed Restriction
- \_\_\_\_\_ Deed Notice
- \_\_\_\_\_ Site Specific Close Out Letter
- \_\_\_\_\_ Well Abandonment Documentation
- \_\_\_\_\_ Soil Disposal Documentation
- \_\_\_\_\_ NR 140 Exemption For: \_\_\_\_\_
- \_\_\_\_\_ VPLE Insurance needed
- \_\_\_\_\_ Other Conditions/Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_ **Closure Denied, Needs More:**

- \_\_\_\_\_ Investigation
- \_\_\_\_\_ Groundwater Monitoring
- \_\_\_\_\_ Soil Remediation
- \_\_\_\_\_ Groundwater Remediation
- \_\_\_\_\_ Documentation of Soil Landspreading or Biopile Destiny
- \_\_\_\_\_ Specific Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



WDNR BRRTS CASE # 02 - 13 - 000895

WDNR SITE NAME: Oscar Mayer - Groundwater Project

**FOR DEPARTMENT USE ONLY**

PROJECT MANAGER: \_\_\_\_\_ Date Reviewed: \_\_\_\_\_

( ) Approved ( ) Denied ( ) Sent to Committee

CLOSURE COMMITTEE DECISION ON CLOSURE:

SECOND COMMITTEE REVIEW DATE: \_\_\_\_\_ ( ) Approved ( ) Denied

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Signature)

**COMMITTEE RECOMMENDATION:**

\_\_\_\_\_ **Closure Approved With:**

- \_\_\_\_\_ No Restrictions
- \_\_\_\_\_ Listing on GIS Registry due to Groundwater impacts
- \_\_\_\_\_ Listing on GIS Registry due to Soil impacts
- \_\_\_\_\_ Zoning Verification
- \_\_\_\_\_ Deed Restriction
- \_\_\_\_\_ Deed Notice
- \_\_\_\_\_ Site Specific Close Out Letter
- \_\_\_\_\_ Well Abandonment Documentation
- \_\_\_\_\_ Soil Disposal Documentation
- \_\_\_\_\_ NR 140 Exemption For: \_\_\_\_\_
- \_\_\_\_\_ VPLE Insurance needed \_\_\_\_\_
- \_\_\_\_\_ Other Conditions/Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_ **Closure Denied, Needs More:**

- \_\_\_\_\_ Investigation
- \_\_\_\_\_ Groundwater Monitoring
- \_\_\_\_\_ Soil Remediation
- \_\_\_\_\_ Groundwater Remediation
- \_\_\_\_\_ Documentation of Soil Landspreading or Biopile Destiny
- \_\_\_\_\_ Specific Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



## **ATTACHMENT A**

### **Case History and Closure Pathway Selected Attachments**

- A-1 Closure Request Summary (Narrative)
- A-2 Site Location Map
- A-3 Groundwater Project Area Map
- A-4 Verification of Zoning for Affected Property



## ATTACHMENT A-1

### Closure Request Summary

Oscar Mayer Foods – Groundwater Project  
910 Mayer Avenue, Madison, Wisconsin

This is a request for closure for the Oscar Mayer Foods groundwater project, located at 910 Mayer Avenue, Madison, Wisconsin (**Figures A-2 and A-3**). This section of the closure request summarizes the project background, site geology and hydrogeology, results of a soil investigation and groundwater investigation, and justification for case closure.

#### Background

##### Investigation by Conestoga Rovers & Associates in 1994

The Oscar Mayer groundwater project relates to the historical detection of trichloroethene (TCE) and tetrachloroethene (PCE) in production wells (high-capacity pumping wells) installed in bedrock at the facility. In response to these detections, Oscar Mayer hired Conestoga Rovers & Associates (CRA) in 1994 to investigate the source of the chlorinated solvents. CRA installed soil borings SB1 through SB11, and groundwater monitoring wells MW1 through MW9 (**Figures A-3 and C-2**). CRA prepared the “Phase I Hydrogeologic Investigation Report” (CRA, 1994a) and a supplemental August 1994 report (CRA, 1994b). The soil borings were installed near MW1 at the north end of the facility, where 1,2-dichloroethene (1,2-DCE) and vinyl chloride had been detected in the shallow groundwater (**Figure A-3**). No on-site source area was found at the soil borings.

##### Conditional Approval Tasks - Piezometer Installation and Groundwater Monitoring by BT<sup>2</sup>

In 1997 and 1999, BT<sup>2</sup> sampled one or more of the CRA monitoring wells to provide updated groundwater data for Oscar Mayer. In 2001, Oscar Mayer requested revised regulatory designations for the on-site production wells, as part of a plan to reduce overall plant water use, and increase city water use. The Wisconsin Department of Natural Resources (WDNR) sent the March 22, 2001, “Conditional Approval of the Water Supply System,” and Oscar Mayer hired BT<sup>2</sup> to complete certain tasks outlined in Conditional Approval. The tasks included locating and repairing monitoring wells; installing a new piezometer (PZ1) and sampling the wells and piezometer. The WDNR received the following documents in the early months of the project:

- Proposal to Conduct a Groundwater Investigation (BT<sup>2</sup>, 2001a)
- Location and Current Condition of Oscar Mayer Wells (BT<sup>2</sup>, 2001b)
- Findings of Piezometer Installation Activities and Groundwater Monitoring Sample Results (BT<sup>2</sup>, 2001c)
- Monitoring Well Sampling Results—July 2001 (BT<sup>2</sup>, 2001d)
- Production Well and Reservoir Sampling Results—June 2001 (BT<sup>2</sup>, 2001e)

Between July 2001 and April 2005, BT<sup>2</sup> sampled the “facility monitoring wells” (MW1, MW2, MW3, MW6, MW7, PZ1, and underground storage tank-area well MW24) on a semiannual basis, and submitted paper and electronic data reports to the WDNR after each event. During the most recent (April 2005) sampling event, vinyl chloride concentrations were 14 µg/l in the MW1 groundwater sample, and 0.58 µg/l in the PZ1 sample, as compared to the enforcement standard of 0.2 µg/l.



## ATTACHMENT A-1

### Closure Request Summary (Continued)

#### Oscar Mayer Production Well Pumping Discontinued

Oscar Mayer discontinued regular, on-site production well pumping in early December 2004, and all plant production water now comes from municipal wells. Two production wells (002 and 005) were abandoned, and the remaining two wells (004 and 006) are being maintained for backup fire control. In early 2005, WDNR clarified that quarterly sampling of the remaining wells and reservoir was a remaining requirement under the Conditional Approval. WDNR reversed this decision with "Revision Number 5" to the Conditional Approval, dated September 1, 2005. This WDNR letter released Oscar Mayer from further groundwater sampling from the production wells or the monitoring wells.

#### **Geology and Hydrogeology**

Soil beneath the site typically consists of 3 to 8 feet of sand fill, overlying approximately 1 to 2 feet of brown peat or organic silt. Beneath the organic-rich soil is 3 to 5 feet of silty clay or silt, underlain by predominantly sandy sediments. The depth to the sand unit is approximately 10 to 13 feet below ground surface (bgs) (**Figures C-4 and C-5**).

Oscar Mayer production well 005 (abandoned) is located approximately 600 feet northwest of the MW1 and PZ1 well nest. The geologic log for the well indicates that 40 foot-thick of clay or silt occurs from 60 to 100 feet below ground surface (bgs) and a 65 foot-thick clay layer occurs from a depth of 150 to 215 feet bgs. Below the clay are sand, gravel, and thin clay layers that extend to a depth of 255 feet. Mount Simon (Cambrian) sandstone occurs at a depth of approximately 255 to the bottom of well 005 at 405 feet bgs (**Figure C-3**).

The depth to groundwater is 5 to 8 feet bgs in the vicinity of MW1 (**Table E-5**). Shallow groundwater flow potential is generally toward the west, but appeared to be toward the south during the most recent groundwater-sampling event (April 21, 2005). The water table map for October 12, 2004 is shown on **Figure E-3**, and the water table map for April 14, 2005 is shown on **Figure E-4**. The horizontal hydraulic gradient was low (approximately 0.001 to 0.002) in the vicinity of MW1/PZ1 during those dates. Low, downward hydraulic gradients have been observed at the MW1/PZ1 well nest. On April 14, 2005, the downward vertical gradient at the MW1/PZ1 well nest was 0.04.

Municipal wells in the area are used to obtain water from the sandstone aquifer, which is the primary water supply source in the Madison area. The locations of municipal wells #3, #7, #8, and #15 in east Madison are shown on **Figure A-2**. The nearest municipal well to Oscar Mayer is well #7, located at 1709 North Sherman Avenue, approximately 3,000 feet north-northwest of the Oscar Mayer site. Madison Water Utility Department, municipal (potable) water is supplied to the Oscar Mayer facility and surrounding area. According to Mr. Dennis Cawley, of the City of Madison Water Utility, there are no active private, commercial, or municipal wells operated for potable use within a 1,200-foot radius of the site (oral commun., March 10, 2006).

#### **Soil Investigation Summary**

Site investigation soil sampling data collected by CRA at 11 soil borings in 1994 did not indicate there was a source of soil contamination in the vicinity of MW1 (CRA, 1994b). The soil boring locations are shown in **Figure C-2**. **Table C-1** summarizes the soil analytical results.



## ATTACHMENT A-1

### Closure Request Summary (Continued)

#### Groundwater Contamination

Vinyl chloride has been detected at a concentration greater than the NR 140 ES in groundwater samples collected from MW1 and PZ1 (**Table E-1**). Monitoring well locations are shown on the map on **Figure E-2**.

As shown on **Figure E-2**, the vinyl chloride contaminant plume is limited to a small portion of the site near MW1/PZ1. Vinyl chloride concentrations also decrease with depth at the MW1/PZ1 well nest.

#### Groundwater Remediation by Natural Attenuation

Groundwater monitoring has been conducted from 1997 to 2005. Low concentrations of "nitrate plus nitrite," and high concentrations of manganese at MW1 suggest that nitrate and manganese reduction (natural attenuation processes) are occurring (**Table E-8**). Mann-Kendall statistical tests show that the concentrations of cis-1,2-DCE and vinyl chloride have decreased in concentration at MW1, and vinyl chloride concentrations have also decreased at PZ1 (**Tables E-6** and **E-7**, respectively).

#### Risk to Actual or Potential Receptors

Potable groundwater supplies are not at risk from the groundwater contamination at the Oscar Mayer groundwater study area. The plume of impacted groundwater is not expanding, and groundwater beneath and in the vicinity of the site is not used for drinking water.

It is unlikely that impacted, shallow groundwater from the groundwater study area has the potential to impact the Cambrian Mt. Simon sandstone aquifer. The unconsolidated sediments overlying the bedrock aquifer are approximately 255 to 310 feet thick and contain a 65- to 170-foot-thick silt and clay layer that limits the downward flow of shallow groundwater (**Figure C-3**).

During the period of decreased pumping from the on-site production wells (2002 to 2004), water level data were collected at both Oscar Mayer and Demetral Field to the southeast. These studies showed that water levels in the shallow sand and gravel aquifer are strongly influenced by recharge from precipitation and snowmelt. Pumping changes at the Oscar Mayer production wells, however, did not appear to directly affect water levels in the shallow monitoring wells. In the vicinity of the Oscar Mayer facility, there appears to be limited hydraulic connection between the water table aquifer and the bedrock aquifer.

#### Justification for Closure

Within the groundwater study area at the Oscar Mayer facility, a source of contamination was not detected in soils, and subsequent groundwater monitoring indicate that groundwater impacts are not a risk to the environment or human health. The groundwater plume is decreasing and potable groundwater supplies are not at risk. We therefore request that the WDNR close the Oscar Mayer groundwater study area case with registration on the Geographic Information System (GIS) Web site due to the residual groundwater impacts.



## ATTACHMENT A-1

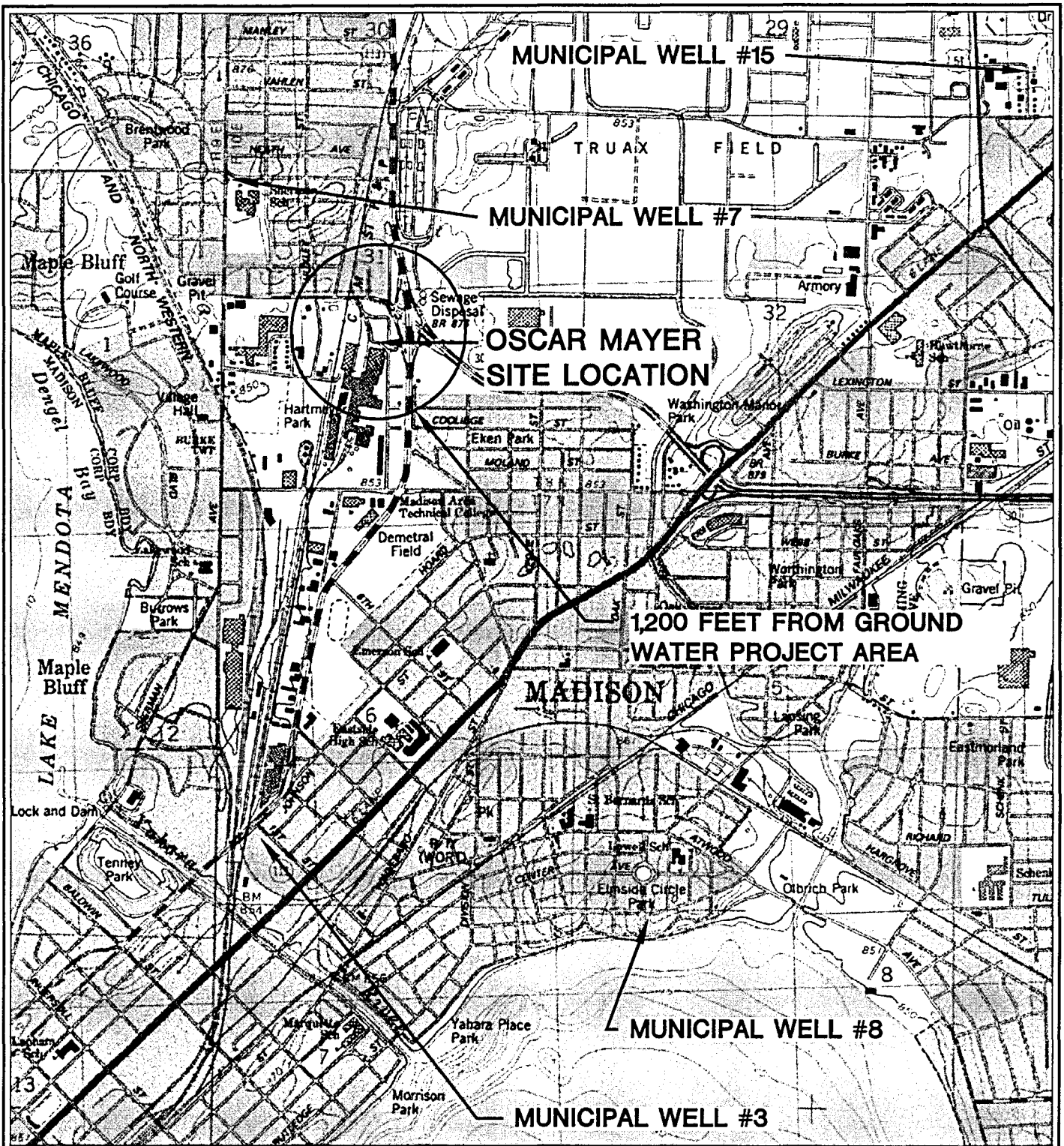
### Closure Request Summary (Continued)

#### Previously Submitted Reports and Select Correspondence

- BT<sup>2</sup>, Inc. (BT<sup>2</sup>), 2001a, "Proposal to Conduct a Groundwater Investigation," Kraft Foods Inc., Oscar Mayer Division, 910 Mayer Avenue, Madison, Wisconsin: Madison, WI, April 30, 2001.
- BT<sup>2</sup>, 2001b, "Location and Current Condition of Oscar Mayer Monitoring Wells," Kraft Foods Inc., Oscar Mayer Division, 910 Mayer Avenue, Madison, Wisconsin: Madison, WI, May 30, 2001.
- BT<sup>2</sup>, 2001c, "Findings of Piezometer Installation Activities and Groundwater Monitoring Sample Results," Kraft Foods Inc., Oscar Mayer Division, 910 Mayer Avenue, Madison, Wisconsin: Madison, WI, August 30, 2001.
- BT<sup>2</sup>, 2001d, "Monitoring Well Sampling Results—July 2001," Kraft Foods Inc., Oscar Mayer Division, 910 Mayer Avenue, Madison, Wisconsin: Madison, WI, October 3, 2001.
- BT<sup>2</sup>, 2001e, "Production Well and Reservoir Sampling Results—June 2001," Kraft Foods Inc., Oscar Mayer Division, 910 Mayer Avenue, Madison, Wisconsin: Madison, WI, October 10, 2001.
- CRA, 1994a, "Phase I Hydrogeologic Investigation Report" Oscar Mayer Foods Corporation, Madison, Wisconsin: by Conestoga-Rovers & Associates, ref. 4190(2), July 1994.
- CRA, 1994b, "Supplemental Soil Boring Program, Phase I Hydrogeologic Investigation" Oscar Mayer Facility, Madison, Wisconsin: by Conestoga-Rovers & Associates, ref. 4190-10, August 9, 1994.

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MADISON EAST QUADRANGLE  
 WISCONSIN-DANE CO.  
 7.5 MINUTE SERIES (TOPOGRAPHIC)  
 SE/4 MADISON 15' QUADRANGLE  
 1983  
 SCALE: 1" = 2,000'



PROJECT NO. 1912
DRAWN BY: KP
CHECKED BY: JM
APPROVED BY:
DRAWN: 01/08/97
REVISED: 02/20/06

**FIGURE A-2**  
**SITE LOCATION MAP**  
**OSCAR MAYER FOODS**  
**910 MAYER AVENUE**  
**MADISON, WISCONSIN**





NOTES:

1. BASE MAP PROVIDED BY OSCAR MAYER AND MAY NOT EXACTLY REPRESENT EXISTING PROPERTY LAYOUT.
2. PROPERTY LINES AND WTM-91 COORDINATE LOCATIONS ARE APPROXIMATE.
3. MAP SHOWS MONITORING WELLS AND EXTENT OF IMPACT ASSOCIATED WITH GROUNDWATER PROJECT AREA ONLY.
4. PRODUCTION WELLS 004 AND 006 ARE ONLY BACK-UP WATER SUPPLY FOR FIRE FIGHTING USE.

HARTMEYER ARENA

ABOVEGROUND FUEL OIL STORAGE TANK  
FORMER ABOVEGROUND FUEL OIL STORAGE TANK

PARKING LOT (ASPHALT)

PARKING LOT (ASPHALT)

HUXLEY STREET (CONCRETE)

PRODUCTION WELL 005 (ABANDONED)

572144,292887

572284,293683

ASPHALT DRIVEWAY

PRODUCTION WELL 002 (ABANDONED)

MW5

MW4

MW3

MW2

GROUNDWATER PROJECT AREA

GROUNDWATER FLOW DIRECTION

PRODUCTION WELL 006

ASPHALT DRIVEWAY

MW1 PZ1

PARKING LOT (ASPHALT)

572454,293625

LEGEND

- APPROXIMATE EXTENT WHERE GROUNDWATER EXCEEDS NR 140 ENFORCEMENT STANDARDS FOR VINYL CHLORIDE
- WELL ABANDONED
- ⊕ PIEZOMETER
- ⊙ MONITORING WELL
- ▲ WTM-91 COORDINATE

PRODUCTION WELL 004

COMMERCIAL AVENUE

MW6

572400,293055

MAYER AVENUE (CONCRETE)

PARKING LOT (ASPHALT)

MW8

PETROLEUM UST LOCATIONS

572445,292887

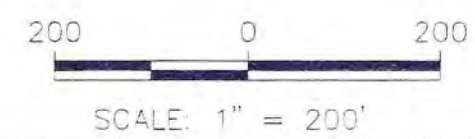
PARKING LOT (ASPHALT)

PACKERS AVENUE ST# 113 (CONCRETE)

APPROXIMATE PROPERTY BOUNDARY  
PARCEL #: 0810-313-0101-3

FIGURE A-3  
GROUNDWATER PROJECT AREA MAP  
OSCAR MAYER FOODS  
910 MAYER AVENUE  
MADISON, WISCONSIN

PROJECT NO. 1912
DRAWN BY: KP/WK
CHECKED BY: JM
APPROVED BY:
DRAWN: 11/18/97
REVISED: 03/15/06





## Figure A-4 Verification of Zoning for Affected Property

**Parcel Data for:**

**Parcel Number:**  
0810-313-0101-3

**Parcel (situs) Address:**  
910 Mayer Ave

**Owner's Name(s):**  
OSCAR MAYER FOODS CORP  
% KRAFT GENERAL FOODS

**Owner's Address:**  
THREE LAKES DR  
NORTHFIELD, IL 60093

**Lot Size (Sq Ft):**  
2,365,700

**Assessed By State - Previous Year Assessment:**  
Land: \$1,975,700  
Improvements: \$16,414,600  
Total: \$18,390,300

**Parcel Class:**  
INDUSTRIAL

**Parcel Use:**  
MANUFACTURING

**Predominant Land Use:**  
Meat packing - manufacturing.

**Zoning and Description:**  
C3 - Highway Commercial  
M2 - General Manufacture

**School District:** Madison  
**Elem. School:** Emerson  
**Middle School:** Sherman  
**High School:** East

**City of Madison - GeoSpatial Information System**

Map	Parcel Number	Parcel Address	Owner's Name	Detailed Report
	0810-313-	910	OSCAR MAYER FOODS CORP %	



**ATTACHMENT B**

**Receptor Summary Attachments**

(None Needed)



## **ATTACHMENT C**

### **Soil Investigation Information Attachments**

- C-1 Summary of Detected Constituents in Soil (Table)
- C-2 Soil Boring Location Map
- C-3 Generalized Geologic Cross Section
- C-4 Geologic Cross Section Location Map
- C-5 Geologic Cross Section A-A'



Table C-1

SUMMARY OF DETECTED CONSTITUENTS IN SOILS  
OSCAR MAYER FOODS CORPORATION  
MADISON, WISCONSIN  
JUNE 29 AND 30, 1994

<i>Analyte</i>	<i>Concentrations in µg/kg</i> <sup>1</sup>						
	<i>SB-1</i>	<i>SB-2</i>	<i>SB-3</i>	<i>SB-4</i>	<i>SB-5</i>	<i>SB-6</i>	<i>SB-7</i>
Methylene Chloride	ND(5.0)	ND(5.0) <sup>2</sup>	ND(5.3)	ND(5.0)	ND(5.0)UJ <sup>3</sup>	ND(5.0)UJ	ND(5.0)
Acetone	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)UJ	ND(50)UJ	ND(50)
Carbon disulfide	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)UJ	ND(5.0)UJ	ND(5.0)
2-Butanone	ND(50)	3.3J <sup>4</sup>	2.8J	ND(50)	2.4J	ND(5.0)UJ	4.5J
Trichloroethene	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)UJ	2.7J	ND(5.0)
Toluene	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)UJ	ND(5.0)UJ	ND(5.0)
Ethylbenzene	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)UJ	ND(5.0)UJ	ND(5.0)
Xylenes, Total	ND(5.0)	ND(5.0)	11	ND(5.0)	ND(5.0)UJ	ND(5.0)UJ	ND(5.0)

*Conestoga-Rovers (1994 b)*



Table C-1 (continued)

SUMMARY OF DETECTED CONSTITUENTS IN SOILS  
OSCAR MAYER FOODS CORPORATION  
MADISON, WISCONSIN  
JUNE 29 AND 30, 1994

<i>Analyte</i>	<i>Concentrations in µg/kg</i>				<i>Rinsate Blank (µg/L)</i> <sup>5</sup>
	<i>SB-8</i>	<i>SB-9</i>	<i>SB-10</i>	<i>SB-11</i>	
Methylene Chloride	ND(8.7)UJ	ND(5.0)	ND(5.0)UJ	ND(5.0)UJ	2.6J
Acetone	ND(50)UJ	ND(50)	ND(50)UJ	ND(190)UJ	13J
Carbon disulfide	2.3J	ND(5.0)	ND(5.0)UJ	ND(5.0)UJ	ND(5.0)
2-Butanone	3.2J	ND(50)	16J	59J	ND(50)
Trichloroethene	ND(5.0)UJ	ND(5.0)	ND(5.0)UJ	ND(5.0)UJ	ND(5.0)
Toluene	3.1J	ND(5.0)	ND(5.0)UJ	ND(5.0)UJ	ND(5.0)
Ethylbenzene	2.2J	ND(5.0)	ND(5.0)UJ	ND(5.0)UJ	ND(5.0)
Xylenes, Total	5.7J	ND(5.0)	ND(5.0)UJ	ND(5.0)UJ	ND(5.0)

<sup>1</sup> µg/kg - microgram per kilogram

<sup>2</sup> ND(5.0) - Not detected at detection limit shown in parentheses

<sup>3</sup> ND(5.0)UJ - Qualified data; outside surrogate recovery criteria

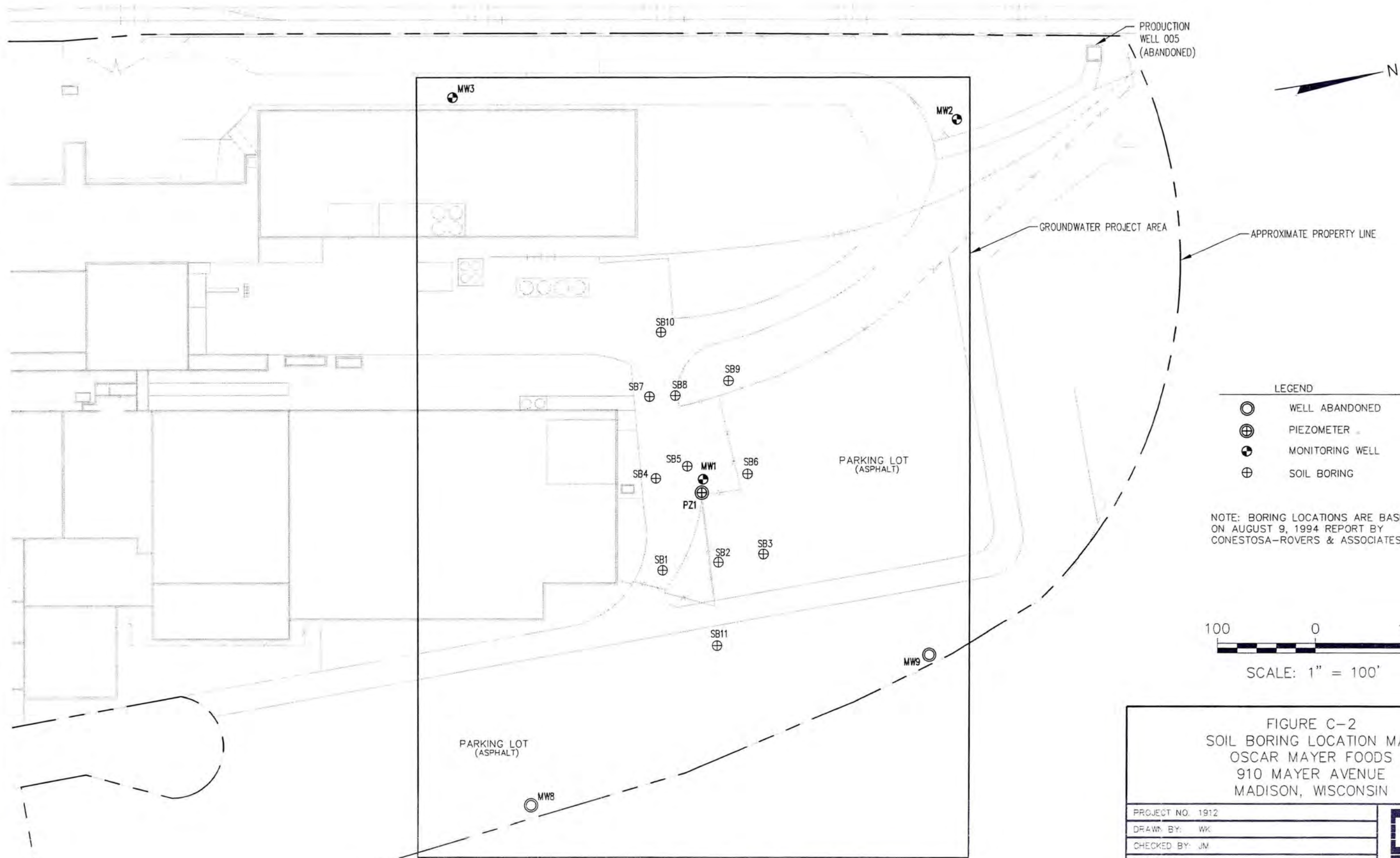
<sup>4</sup> J - Estimated value below quantitation limit

<sup>5</sup> µg/L - microgram per liter

*Conestoga - Rovers (1994b)*



I:\1912\Figures\General\SOIL BORING LOCATION.dwg, 3/16/2006 10:42:34 AM







PRODUCTION WELL 005 (ABANDONED)



GROUNDWATER PROJECT AREA

APPROXIMATE PROPERTY LINE

LEGEND

-  WELL ABANDONED
-  PIEZOMETER
-  MONITORING WELL
-  SOIL BORING

NOTE: BORING LOCATIONS ARE BASED ON AUGUST 9, 1994 REPORT BY CONESTOSA-ROVERS & ASSOCIATES.



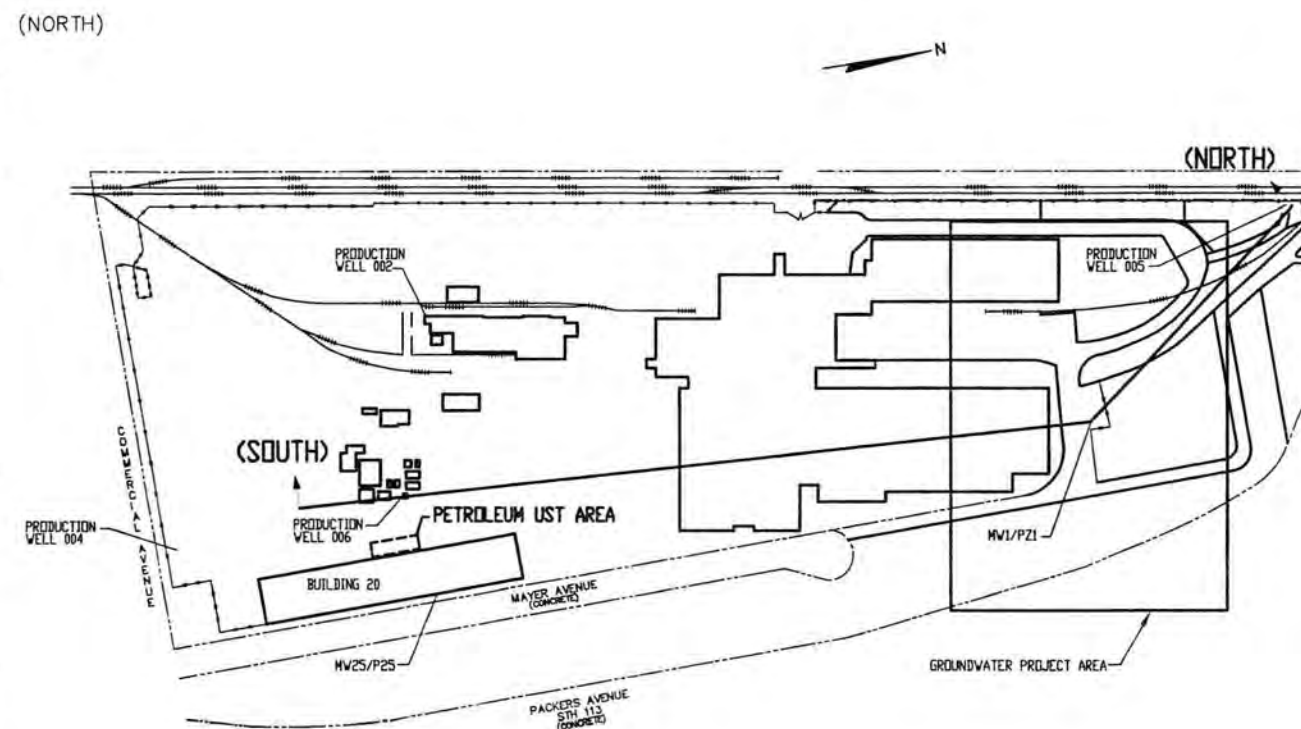
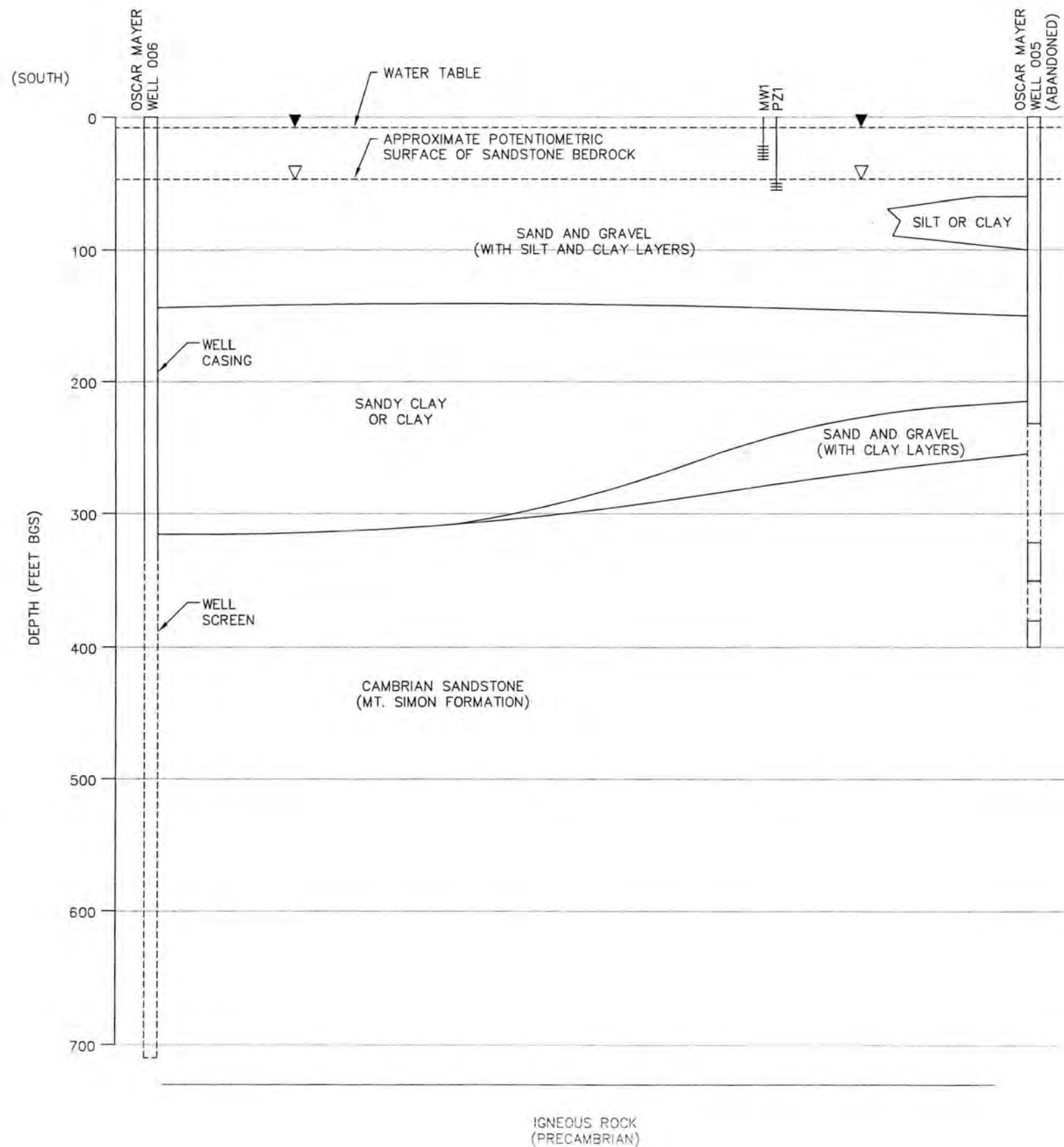
SCALE: 1" = 100'

FIGURE C-2  
 SOIL BORING LOCATION MAP  
 OSCAR MAYER FOODS  
 910 MAYER AVENUE  
 MADISON, WISCONSIN

PROJECT NO. 1912
DRAWN BY: WK
CHECKED BY: JM
APPROVED BY:
DRAWN: 02/21/06
REVISED: 03/15/06







CROSS SECTION LOCATION  
NOT TO SCALE

NOTES:

1. ALL OSCAR MAYER PRODUCTION WELLS ARE ABANDONED EXCEPT FOR 004 AND 006. WELLS 004 AND 006 ARE ONLY BACK-UP WATER SUPPLY FOR FIRE FIGHTING USE.

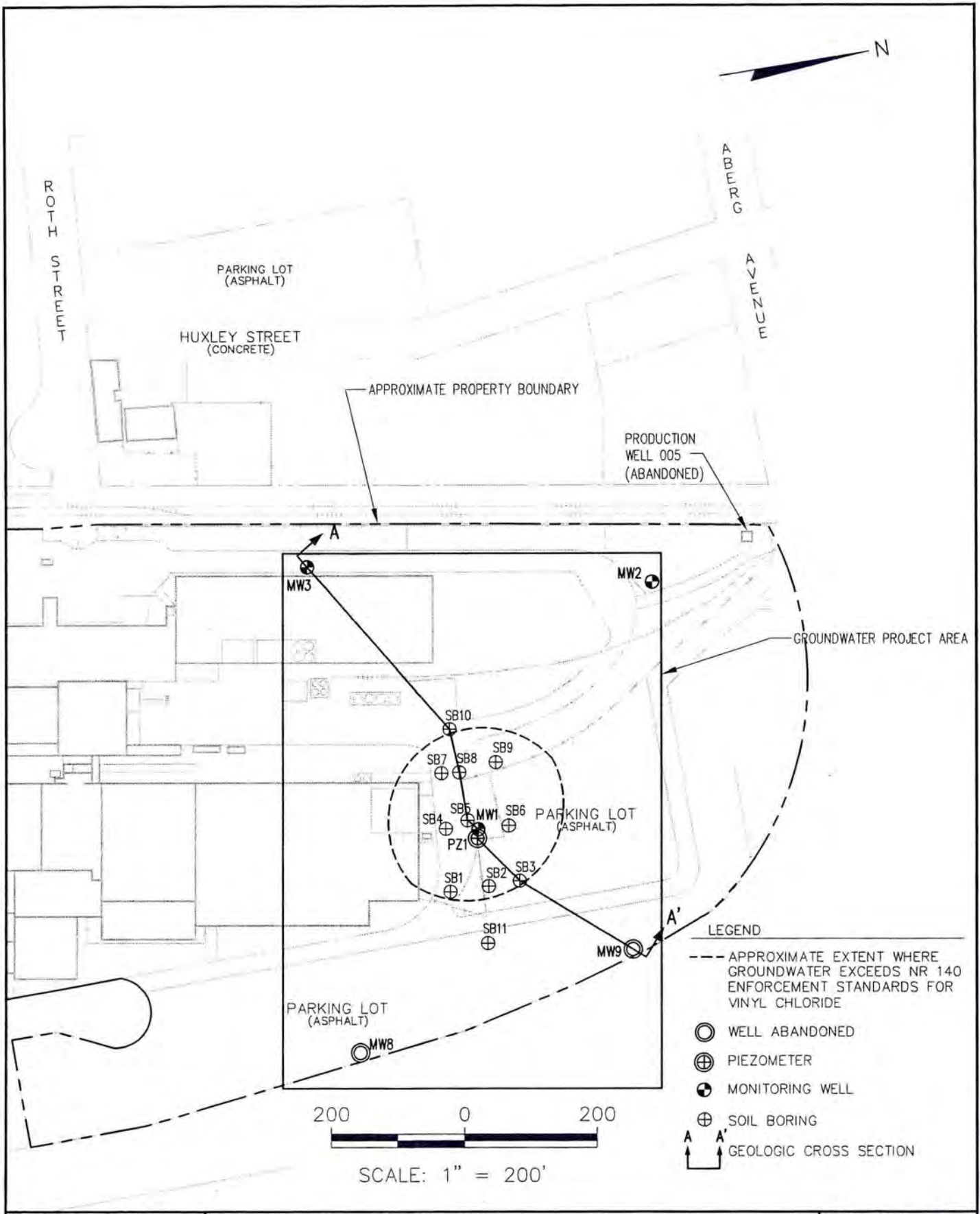
0 300  
HORIZONTAL SCALE: 1" = 300'  
VERTICAL SCALE: 1" = 100'  
VERTICAL EXAGGERATION = 3X

FIGURE C-3  
GENERALIZED GEOLOGIC CROSS SECTION  
OSCAR MAYER FOODS  
910 MAYER AVENUE  
MADISON, WISCONSIN

PROJECT NO. 1061  
DRAWN BY: KP  
CHECKED BY: JM  
APPROVED BY:  
DRAWN: 12/12/97  
REVISED: 05/10/06







PROJECT NO. 1912
DRAWN BY: WK
CHECKED BY:
APPROVED BY:
DRAWN: 02/21/06
REVISED: 03/15/06

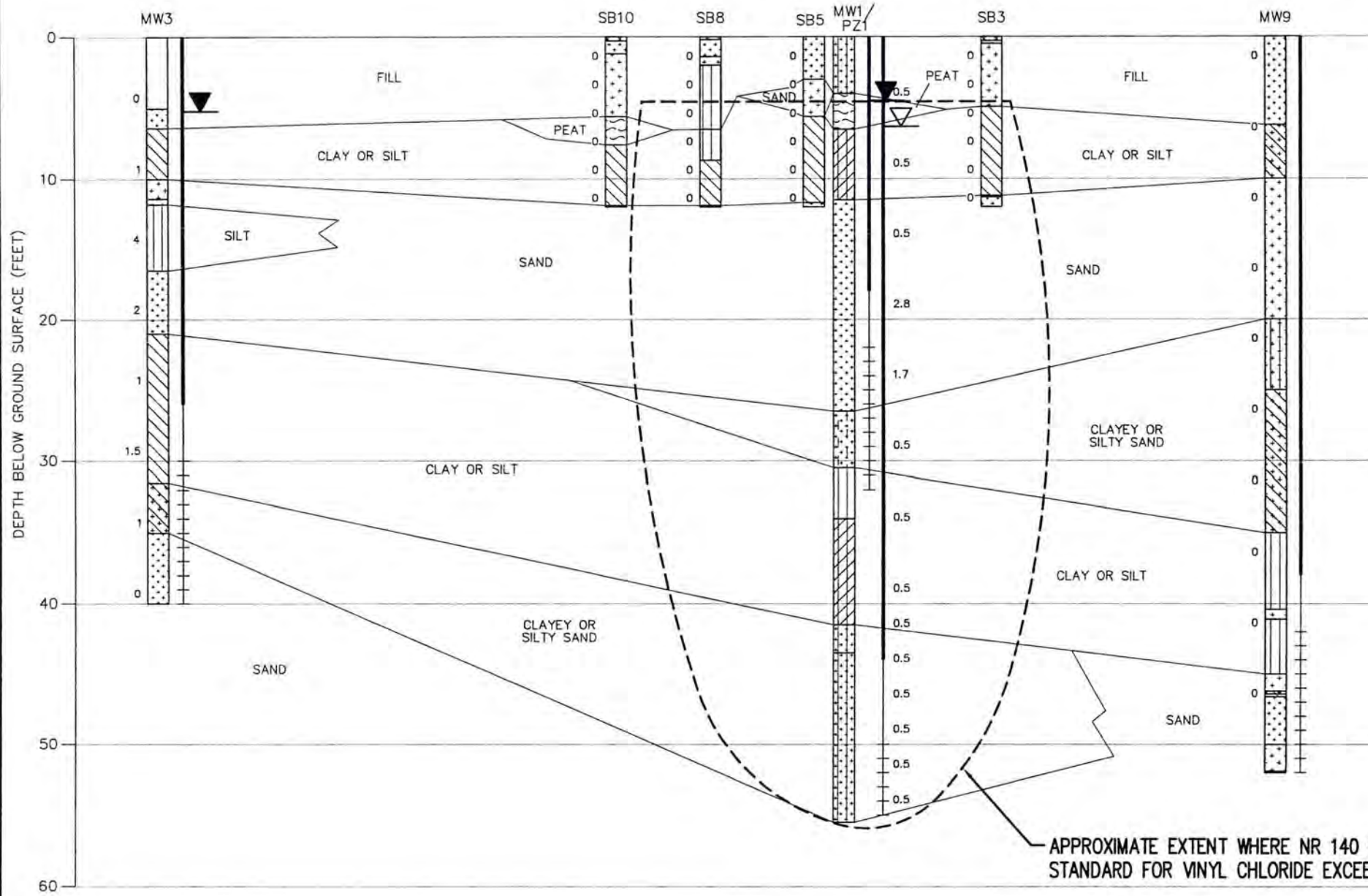
FIGURE C-4  
 GEOLOGICAL CROSS SECTION LOCATION MAP  
 OSCAR MAYER FOODS  
 910 MAYER AVENUE  
 MADISON, WISCONSIN





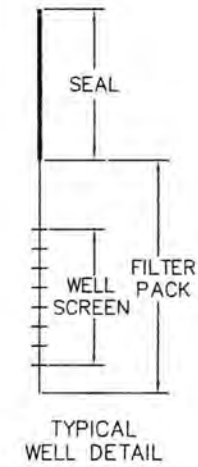
A  
(WEST)

A'  
(EAST)



LEGEND

- BLIND DRILLED. NO SAMPLES COLLECTED.
- FILL.
- SAND, WELL GRADED, LITTLE OR NO FINES (SW).
- SAND, POORLY GRADED, LITTLE OR NO FINES (SP).
- SILT (ML).
- LEAN CLAY (CL).
- SILTY SAND (SM).
- CLAYEY SAND (SC).
- SILTY CLAY (CL-ML).
- PEAT (PT).
- PHOTO-IONIZATION DETECTOR READING (ppm)
- GEOLOGIC CONTACT
- WATER LEVEL AT MW1 AND MW3 ON APRIL 14, 2005
- WATER LEVEL AT PZ1 ON APRIL 14, 2005



HORIZONTAL SCALE: 1" = 100'  
 VERTICAL SCALE: 1" = 10'  
 VERTICAL EXAGGERATION = 10X

FIGURE C-5  
 GEOLOGIC CROSS SECTION A-A'  
 OSCAR MAYER FOODS  
 910 MAYER AVENUE  
 MADISON, WISCONSIN

PROJECT NO. 1912  
 DRAWN BY: WK  
 CHECKED BY: JM  
 APPROVED BY:  
 DRAWN: 02/27/06  
 REVISED: 05/10/06





## **ATTACHMENT E**

### **Groundwater Information Attachments**

- E-1 Groundwater Analytical Results Summary (Table)
- E-2 Groundwater Contamination Extent (Map)
- E-3 Water Level Elevation Map – October 16, 2003
- E-4 Water Level Elevation Map – April 14, 2005
- E-5 Water Level Summary
- E-6 Mann Kendall Statistical Test for MW1
- E-7 Mann Kendall Statistical Test for PZ1
- E-8 Natural Attenuation Parameter Results (Table)



**Table E-1**  
**Groundwater Analytical Results Summary**  
**Oscar Mayer / BT<sup>2</sup> Project #1912**  
(Results are in µg/l)

Monitoring Well	Date	Lab Notes	TCE	cis-1,2-DCE	trans-1,2-DCE	Total 1,2-DCE	1,1-DCE	Vinyl Chloride	1,1,1-TCA	1,2-DCA	1,1-DCA
MW1	02/16/94	--	<10	NA	NA	320	<10	90	<10	<10	<10
	03/16/94	--	<7.1	NA	NA	210	<7.1	68	<7.1	<7.1	<7.1
	04/11/94	--	<7.2	NA	NA	220	<7.2	78	<7.2	<7.2	<7.2
	06/10/97	(4), (24)	<0.20	65	0.5	65.5	<0.40	13	<0.30	<0.20	<0.20
	12/14/99	(25)	<0.50	58	0.78	58.78	<0.50	22	<0.50	<0.50	<0.50
	07/12/01	(1)	0.36	130	2.8	132.8	0.61	79	<0.20	<0.20	<0.10
	05/15/02	(2), (3)	0.28	77	1.8	78.8	0.61	71	<0.28	<0.22	<0.15
	10/30/02	--	<0.68	64	1.2	65.2	<0.82	36	<0.44	<0.48	<0.34
	04/01/03	(6)	<0.40	65	1.6	66.6	<0.40	40	<0.30	<0.30	<0.30
	10/15/03	(6)	<0.40	44	1.4	45.4	<0.40	32	<0.30	<0.30	<0.30
	04/21/04	(4), (6)	<0.30	42	1.1	43.1	<0.30	27	<0.50	<0.40	<0.50
	10/12/04	--	<0.15	<0.25	<0.50	<0.75	<0.30	4.2	<0.50	<0.40	<0.50
04/14/05	(23)	<0.15	7.8	<0.60	7.8	<0.50	14	<0.60	<0.50	<0.50	
MW1 Dup	02/16/94	--	<10	NA	NA	350	<10	110	<10	<10	<10
	06/10/97	--	<0.20	70	<0.20	70	<0.40	11	<0.30	<0.20	<0.20
	12/14/99	(25)	<0.50	64	0.84	64.84	<0.50	30	<0.50	<0.50	<0.50
	07/12/01	(2)	0.21	100	1.6	101.6	0.41	64	<0.20	<0.20	<0.10
	10/30/02	--	<0.68	70	1.6	71.6	<0.82	43	<0.44	<0.48	<0.34
	04/01/03	(5)	<0.40	63	1.5	64.5	<0.40	40	<0.30	<0.30	<0.30
	10/15/03	(6), (7)	<0.40	42	1.4	43.4	<0.40	33	<0.30	<0.30	<0.30
	04/21/04	(4), (6)	<0.30	40	1.1	41.1	<0.30	29	<0.50	<0.40	<0.50
	10/12/04	(8)	<0.15	<0.25	<0.50	<0.75	<0.30	4.4	<0.50	<0.40	<0.50
04/14/05	(23)	<0.15	7.8	<0.60	7.8	<0.50	13	<0.60	<0.50	<0.50	



**Table E-1**  
**Groundwater Analytical Results Summary**  
**Oscar Mayer / BT<sup>2</sup> Project #1912**  
(Results are in µg/l)

Monitoring Well	Date	Lab Notes	TCE	cis-1,2-DCE	trans-1,2-DCE	Total 1,2-DCE	1,1-DCE	Vinyl Chloride	1,1,1-TCA	1,2-DCA	1,1-DCA
MW2	03/16/94	--	<5.0	NA	NA	<5.0	<5.0	<10	<5.0	<5.0	<5.0
	04/11/94	--	<5.0	NA	NA	<5.0	<5.0	<10	<5.0	<5.0	<5.0
	06/10/97	--	<0.20	<0.20	<0.20	<0.40	<0.40	<0.30	<0.30	<0.20	<0.20
	07/12/01	(6)	<0.20	<0.20	<0.10	<0.30	<0.20	<0.10	<0.20	<0.20	<0.10
	05/15/02	--	<0.27	<0.28	<0.40	<0.68	<0.23	<0.18	<0.28	<0.22	<0.15
	10/29/02	--	<0.34	<0.19	<0.25	<0.44	<0.41	<0.22	<0.22	<0.24	<0.17
	04/01/03	--	<0.40	<0.30	<0.40	<0.70	<0.40	<0.40	<0.30	<0.30	<0.30
	10/15/03	--	<0.40	<0.30	<0.40	<0.70	<0.40	<0.40	<0.30	<0.30	<0.30
	04/21/04	--	<0.30	<0.25	<0.50	<0.75	<0.30	<0.12	<0.50	<0.40	<0.50
	10/12/04	--	<0.15	<0.25	<0.50	<0.75	<0.30	<0.12	<0.50	<0.40	<0.50
04/14/05	(23)	<0.15	<0.60	<0.60	<1.20	<0.50	<0.12	<0.60	<0.50	<0.50	
MW3	02/16/94	(27)	<6.2	NA	NA	<b>190</b>	<6.2	<b>6.6</b>	<6.2	<6.2	<6.2
	03/16/94	--	<5.0	NA	NA	10	<5.0	<10	<5.0	<5.0	<5.0
	04/11/94	(28)	<5.0	NA	NA	2.2	<5.0	<10	<5.0	<5.0	<5.0
	06/10/97	--	<0.20	4.5	<0.20	4.5	<0.40	<0.30	<0.30	<0.20	<0.20
	07/12/01	(9)	<0.20	5.3	<0.10	5.3	<0.20	<0.10	<0.20	<0.20	<0.10
	05/15/02	--	<0.27	3	<0.40	3	<0.23	<0.18	<0.28	<0.22	<0.15
	10/29/02	--	<0.34	3.5	<0.25	3.5	<0.41	<0.22	<0.22	<0.24	<0.17
	04/01/03	(10)	<0.40	3.5	<0.40	3.5	<0.40	<b>0.43</b>	<0.30	<0.30	<0.30
	10/15/03	(11)	<0.40	0.67	<0.40	0.67	<0.40	<0.40	<0.30	<0.30	<0.30
	04/21/04	--	<0.30	4.5	<0.50	4.5	<0.30	<0.12	<0.50	<0.40	<0.50
10/12/04	--	<0.15	<0.25	<0.50	<0.75	<0.30	<0.12	<0.50	<0.40	<0.50	
04/14/05	(23)	<0.15	<0.60	<0.60	<1.20	<0.50	<0.12	<0.60	<0.50	<0.50	
MW4	02/16/94	(26)	3.8	NA	NA	140	<5.0	<b>75</b>	<5.0	3.8	<5.0
	03/16/94	--	<5.0	NA	NA	30	<5.0	<b>14</b>	<5.0	<5.0	<5.0
	04/11/94	(27)	<5.0	NA	NA	14	<5.0	<b>8.1</b>	<5.0	<5.0	<5.0
MW4 Dup	03/16/94	--	<5.0	NA	NA	31	<5.0	<b>14</b>	<5.0	<5.0	<5.0



**Table E-1**  
**Groundwater Analytical Results Summary**  
**Oscar Mayer / BT<sup>2</sup> Project #1912**  
(Results are in µg/l)

Monitoring Well	Date	Lab Notes	TCE	cis-1,2-DCE	trans-1,2-DCE	Total 1,2-DCE	1,1-DCE	Vinyl Chloride	1,1,1-TCA	1,2-DCA	1,1-DCA
MW5	03/16/94	(28)	<5.0	NA	NA	3.0	<5.0	<10	5.2	<5.0	22
	04/11/94	(29)	<5.0	NA	NA	2.2	<5.0	<10	3.8	<5.0	20
MW6	03/16/94	--	<5.0	NA	NA	<5.0	<5.0	<10	<5.0	<5.0	<5.0
	04/11/94	--	<5.0	NA	NA	<5.0	<5.0	<10	<5.0	<5.0	<5.0
	06/10/97	--	<0.20	<0.20	<0.20	<0.40	<0.40	<0.30	<0.30	<0.20	<0.20
	07/12/01	--	<0.20	<0.20	<0.10	<0.30	<0.20	<0.10	<0.20	<0.20	<0.10
	05/15/02	--	<0.27	<0.28	<0.40	<0.68	<0.23	<0.18	<0.28	<0.22	<0.15
	10/29/02	--	<0.34	<0.19	<0.25	<0.44	<0.41	<0.22	<0.22	<0.24	<0.17
	04/01/03	--	<0.40	<0.30	<0.40	<0.70	<0.40	<0.40	<0.30	<0.30	<0.30
	10/15/03	--	<0.40	<0.30	<0.40	<0.70	<0.40	<0.40	<0.30	<0.30	<0.30
	04/21/04	--	<0.30	<0.25	<0.50	<0.75	<0.30	<0.12	<0.50	<0.50	<0.50
	10/12/04	--	<0.15	<0.25	<0.50	<0.75	<0.30	<0.12	<0.50	<0.40	<0.50
	04/14/05	(23)	<0.15	<0.60	<0.60	<1.20	<0.50	<0.12	<0.60	<0.50	<0.50
MW7	06/10/97	--	<0.20	<0.20	<0.20	<0.40	<0.40	<0.30	<0.30	<0.20	<0.20
	07/12/01	--	<0.20	<0.20	<0.10	<0.30	<0.20	<0.10	<0.20	<0.20	<0.10
	05/15/02	--	<0.27	<0.28	<0.40	<0.68	<0.23	<0.18	<0.28	<0.22	<0.15
	10/29/02	--	<0.34	<0.19	<0.25	<0.44	<0.41	<0.22	<0.22	<0.24	<0.17
	04/01/03	(12)	<0.40	<0.30	<0.40	<0.70	<0.40	<0.40	<0.30	<0.30	<0.30
	10/15/03	(13)	<0.40	<0.30	<0.40	<0.70	<0.40	<0.40	<0.30	<0.30	<0.30
	04/21/04	--	<0.30	<0.25	<0.50	<0.75	<0.30	<0.12	<0.50	<0.40	<0.50
	05/05/94	--	<5.0	NA	NA	<5.0	<5.0	<10	<5.0	<5.0	<5.0
	10/12/04	--	<0.15	<0.25	<0.50	<0.75	<0.30	<0.12	<0.50	<0.40	<0.50
04/14/05	(23)	<0.15	<0.60	<0.60	<1.20	<0.50	<0.12	<0.60	<0.50	<0.50	
MW8	05/05/94	--	<5.0	NA	NA	<5.0	<5.0	<10	<5.0	<5.0	<5.0
	06/10/97	--	<0.20	<0.20	<0.20	<0.40	<0.40	<0.30	<0.30	<0.20	<0.20
MW9	05/05/94	--	<5.0	NA	NA	<5.0	<5.0	<10	<5.0	<5.0	<5.0
MW9 Dup	05/05/94	--	<5.0	NA	NA	<5.0	<5.0	<10	<5.0	<5.0	<5.0



**Table E-1**  
**Groundwater Analytical Results Summary**  
**Oscar Mayer / BT<sup>2</sup> Project #1912**  
(Results are in µg/l)

Monitoring Well	Date	Lab Notes	TCE	cis-1,2-DCE	trans-1,2-DCE	Total 1,2-DCE	1,1-DCE	Vinyl Chloride	1,1,1-TCA	1,2-DCA	1,1-DCA
PZ1	07/12/01	(18)	<0.20	5.4	0.17	5.57	<0.20	5	<0.20	<0.20	<0.10
	05/15/02	(19)	<0.27	4	<0.40	4	<0.23	5.4	<0.28	<0.22	<0.15
	10/30/02	(19)	<0.34	4.4	0.25	4.65	<0.41	4.9	<0.22	<0.24	<0.17
	04/01/03	(19)	<0.40	5.4	<0.40	5.4	<0.40	4.6	<0.30	<0.30	<0.30
	10/15/03	--	<0.40	5.8	<0.40	5.8	<0.40	5.8	<0.30	<0.30	<0.30
	04/21/04	--	<0.30	4.7	<0.50	4.7	<0.30	4.4	<0.50	<0.40	<0.50
	10/12/04	--	<0.15	1.4	<0.50	1.4	<0.30	0.39	<0.50	<0.40	<0.50
	04/14/05	(23)	<0.15	0.82*	<0.60	0.82	<0.50	0.58	<0.60	<0.50	<0.50
PZ1 Dup	05/15/02	(19)	<0.27	4.1	<0.40	4.1	<0.23	5.3	<0.28	<0.22	<0.15
Field Blank	07/12/01	(20)	<0.20	<0.20	<0.10	<0.30	<0.20	<0.10	<0.20	<0.20	<0.10
Trip Blank	02/16/94	--	<5.0	NA	NA	<5.0	<5.0	<10	<5.0	<5.0	<5.0
	03/16/94	--	<5.0	NA	NA	<5.0	<5.0	<10	<5.0	<5.0	<5.0
	04/11/94	--	<5.0	NA	NA	<5.0	<5.0	<10	<5.0	<5.0	<5.0
	05/05/94	--	<5.0	NA	NA	<5.0	<5.0	<10	<5.0	<5.0	<5.0
	06/10/97	--	<0.20	<0.20	<0.20	<0.40	<0.40	<0.30	<0.30	<0.20	<0.20
	12/14/99	--	<0.25	<0.25	<0.25	<0.50	<0.25	<0.25	<0.25	<0.25	<0.25
	07/12/01	(21)	<0.20	<0.20	<0.10	<0.30	<0.20	<0.10	<0.20	<0.20	<0.10
	05/15/02	--	<0.27	<0.28	<0.40	<0.68	<0.23	<0.18	<0.28	<0.22	<0.15
	10/29/02	--	<0.34	<0.19	<0.25	<0.44	<0.41	<0.22	<0.22	<0.24	<0.17
	10/30/02	--	<0.34	<0.19	<0.25	<0.44	<0.41	<0.22	<0.22	<0.24	<0.17
	04/01/03	(21)	<0.40	<0.30	<0.40	<0.70	<0.40	<0.40	<0.30	<0.30	<0.30
	10/15/03	(21), (22)	<0.40	<0.30	<0.40	<0.70	<0.40	<0.40	<0.30	<0.30	<0.30
	04/21/04	--	<0.30	<0.25	<0.50	<0.75	<0.30	<0.12	<0.50	<0.40	<0.50
	10/12/04	--	<0.15	<0.25	<0.50	<0.75	<0.30	<0.12	<0.50	<0.40	<0.50
04/14/05	(23)	<0.15	<0.60	<0.60	<1.20	<0.50	<0.12	<0.60	<0.50	<0.50	
NR 140 Enforcement Standard (ES)			5	70	100	NE	7	0.2	200	5	850
NR 140 Preventive Action Limit (PAL)			0.5	7	20	NE	0.7	0.02	40	0.5	85



**Table E-1**  
**Groundwater Analytical Results Summary**  
**Oscar Mayer / BT<sup>2</sup> Project #1912**

**ABBREVIATIONS:**

µg/l = micrograms per liter  
TCE = trichloroethene  
VOC = volatile organic compound

DCE = dichloroethene  
TMBs = 1,2,4- and 1,3,5-Trimethylbenzene  
NA = Not analyzed

DCA = dichloroethane  
NE = not established

**NOTE:**

**Bold** values meet or exceed NR 140 enforcement standards. **Bold** values for Total 1,2-DCE exceed the sum of the NR 140 ES for cis- and trans-1,2-DCE.

\*Indicates value between LOD and LOQ.

**LABORATORY NOTES:**

- (1) Chloromethane and TCE analyses – Values are in between LOD and LOQ.
- (2) TCE analysis – Value is in between LOD and LOQ.
- (3) 1,1-DCE analysis – Value is in between LOD and LOQ.
- (4) trans-1,2-DCE analysis – Value is in between LOD and LOQ.
- (5) Benzene analysis – Value is in between LOD and LOQ. This sample contained Bromomethane with a result of 0.77 µg/l and the value is in between LOD and LOQ.
- (6) Benzene analysis – Value is in between LOD and LOQ.
- (7) Chloromethane analysis – Value is in between LOD and LOQ.
- (8) 14 µg/l of acetone detected in the MW1 Dup sample. VOCs 8260 comments: Suspected acetone laboratory contamination.
- (9) Xylenes analyses – Values are in between LOD and LOQ.
- (10) Vinyl Chloride & o-Xylene analyses – Values are in between LOD and LOQ.
- (11) cis-1,2-DCE analysis – Value is in between LOD and LOQ.
- (12) Ethylbenzene & m&p-Xylene analyses – Values are in between LOD and LOQ.
- (13) M&p-xylene analysis – Value is in between LOD and LOQ.
- (14) 2-Chlorotoluene analysis – Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
- (15) Naphthalene – Analyte averaged calibration criteria within acceptable limits.
- (16) 1,2-DCA and isopropylbenzene analyses – Values are in between LOD and LOQ.
- (17) 140 µg/l of methylene chloride detected in the MW24 sample. VOCs 8260 comments: Suspected methylene chloride laboratory contamination.  
Methylene chloride value is between LOD and LOQ.
- (18) Benzene; trans-1,2-DCE; toluene; and o-xylene analyses – Values are in between LOD and LOQ.
- (19) o-Xylene analysis – Value is in between LOD and LOQ.
- (20) Naphthalene and 1,3,5-TMB analyses – Values are in between LOD and LOQ. Benzene and toluene analyses - Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
- (21) Toluene analysis – Value is in between LOD and LOQ.
- (22) 1,1,1,2,2-Tetrachloroethane analysis – Laboratory Control Sample outside acceptance limits.
- (23) Methylene chloride was detected in the sample and in the associated Method Blank.
- (24) Vinyl chloride analysis - Estimated value, exceeded criteria for percent difference on calibration check standard (>15%).
- (25) Methylene chloride analysis - Common lab solvent and contaminant.



**Table E-1**  
**Groundwater Analytical Results Summary**  
**Oscar Mayer / BT<sup>2</sup> Project #1912**

- (26) 1,2-Dichloroethane and trichloroethene analysis - Estimated value (detected), but below quantitation limit.
- (27) Vinyl chloride analysis - Estimated value (detected), but below quantitation limit.
- (28) Total 1,2-Dichloroethene analysis - Estimated value (detected), but below quantitation limit.
- (29) Total 1,2-Dichloroethene and 1,1,1-trichloroethane analyses - Estimated value (detected), but below quantitation limit.

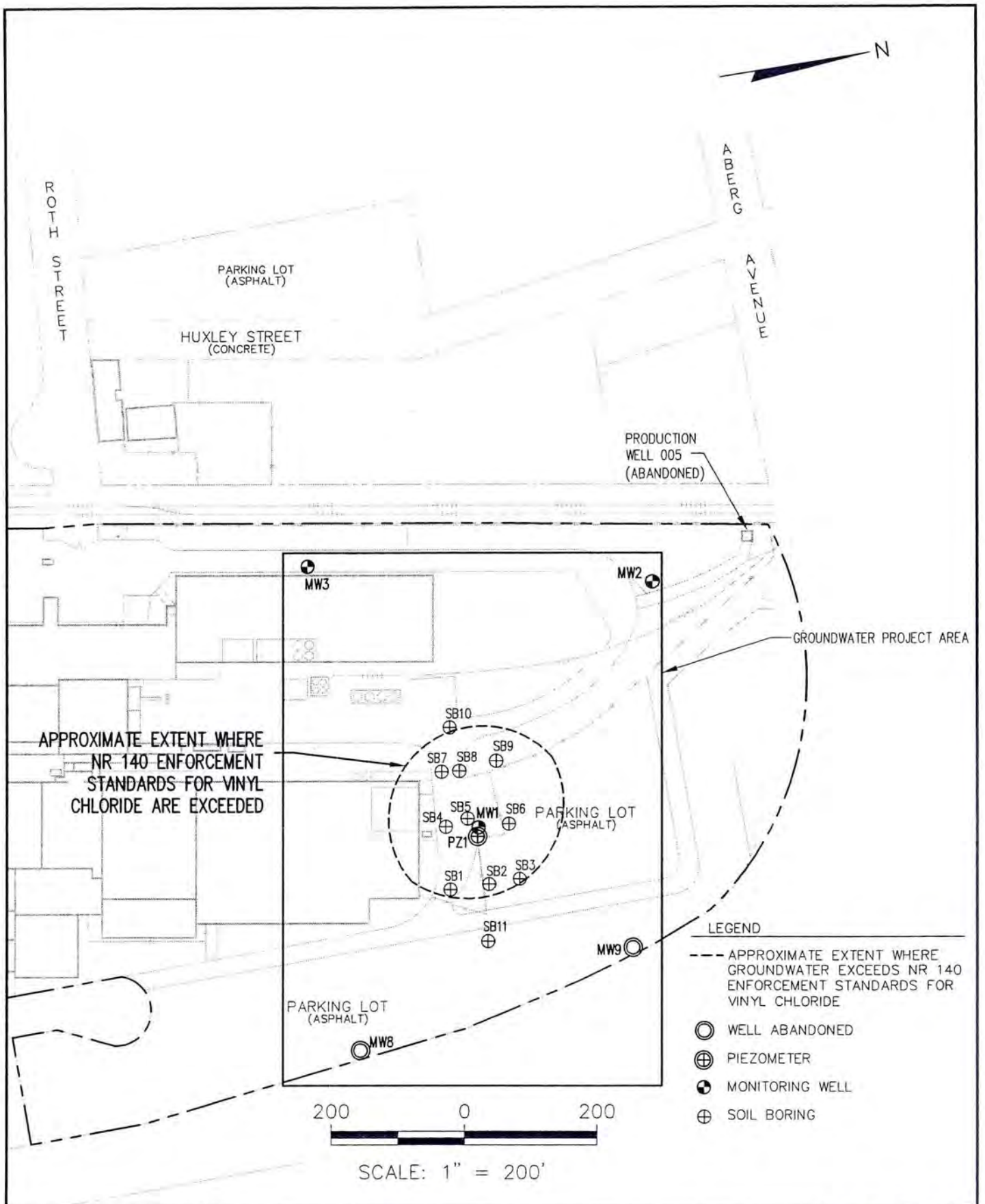
By: LMH 8/13/01

Rev. by: JSP 6/20/02, TLR 12/02/02, JSP 4/24/03; LMH 11/6/03; LMH 5/26/04; LMH 11/9/04; JSN 4/28/05; LMH 2/21/06

Checked: JMM 11/13/03; JMM 6/11/04; JMM 11/11/04; TLR 2/22/06

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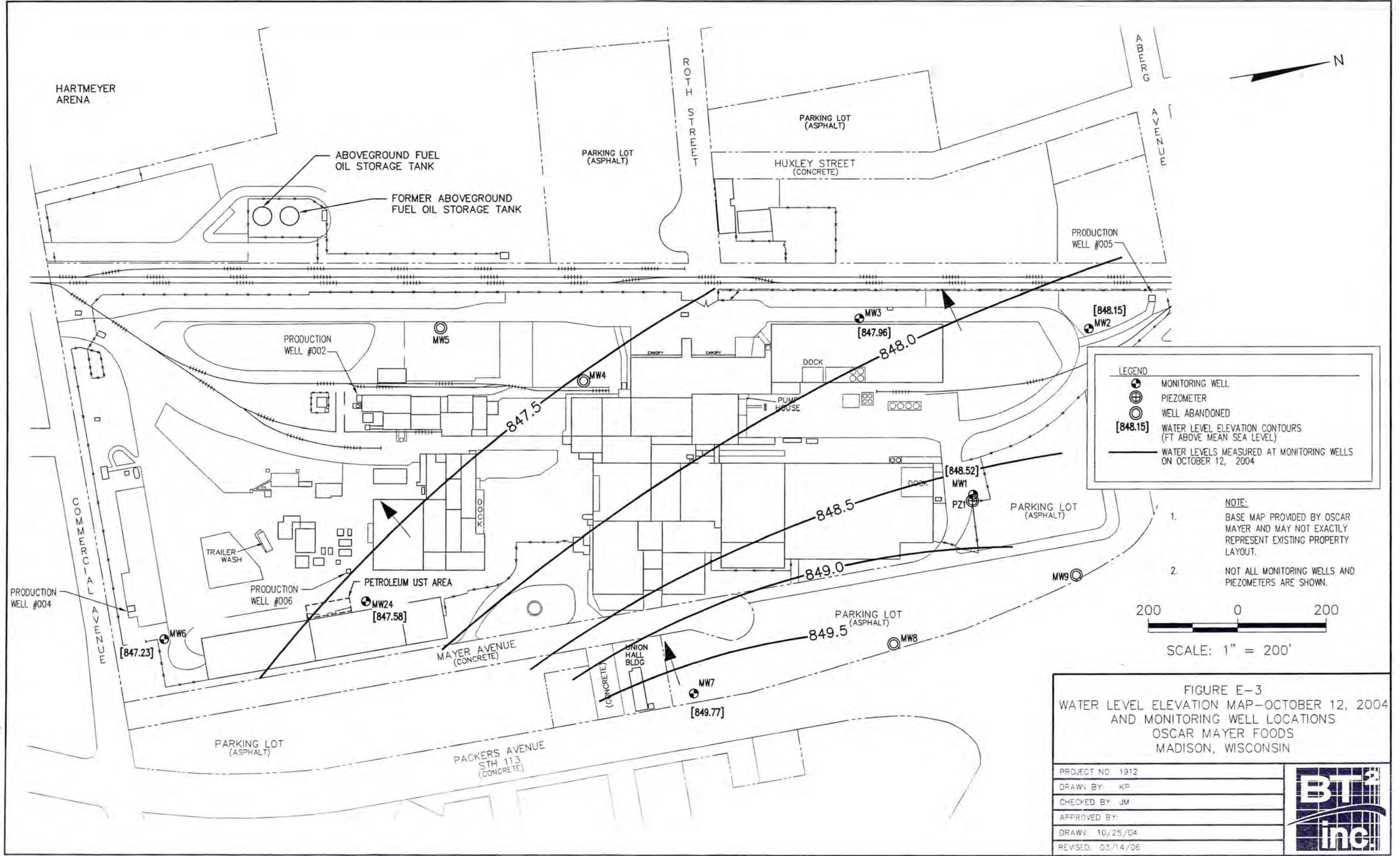


PROJECT NO. 1912
DRAWN BY: WK
CHECKED BY: JM
APPROVED BY:
DRAWN: 02/21/06
REVISED: 03/15/06

FIGURE E-2  
 GROUNDWATER CONTAMINATION EXTENT MAP  
 OSCAR MAYER FOODS  
 910 MAYER AVENUE  
 MADISON, WISCONSIN



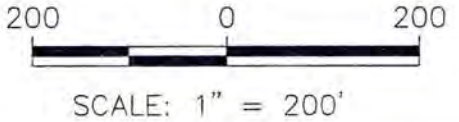




**LEGEND**

- MONITORING WELL
- PIEZOMETER
- WELL ABANDONED
- [848.15] WATER LEVEL ELEVATION CONTOURS (FT ABOVE MEAN SEA LEVEL)
- WATER LEVELS MEASURED AT MONITORING WELLS ON OCTOBER 12, 2004

- NOTE:**
1. BASE MAP PROVIDED BY OSCAR MAYER AND MAY NOT EXACTLY REPRESENT EXISTING PROPERTY LAYOUT.
  2. NOT ALL MONITORING WELLS AND PIEZOMETERS ARE SHOWN.



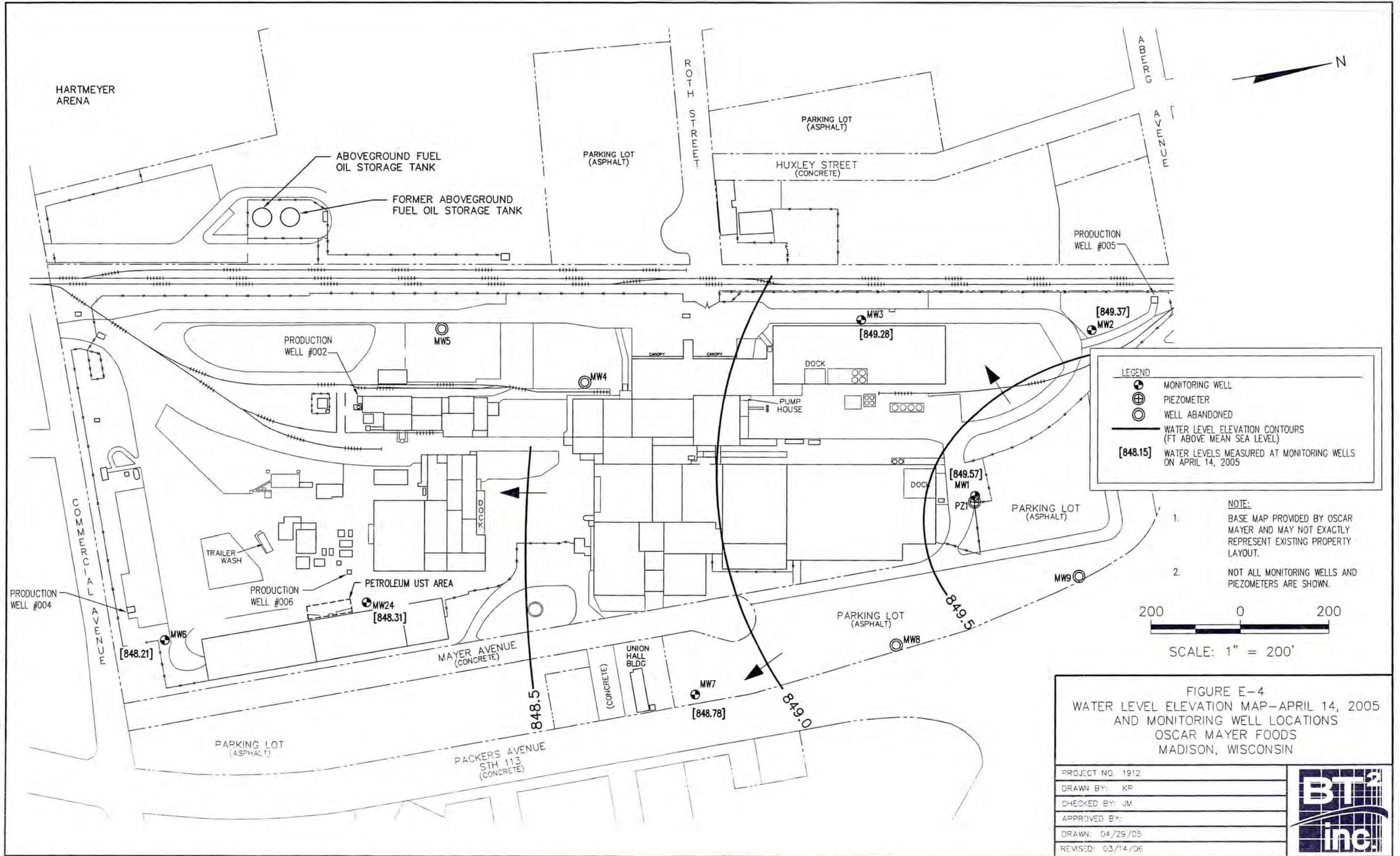
**FIGURE E-3**  
**WATER LEVEL ELEVATION MAP—OCTOBER 12, 2004**  
**AND MONITORING WELL LOCATIONS**  
**OSCAR MAYER FOODS**  
**MADISON, WISCONSIN**

PROJECT NO:	1312
DRAWN BY:	KP
CHECKED BY:	JM
APPROVED BY:	
DRAWN:	10/25/04
REVISED:	03/14/06



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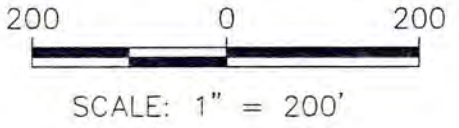




**LEGEND**

- MONITORING WELL
- PIEZOMETER
- WELL ABANDONED
- WATER LEVEL ELEVATION CONTOURS (FT ABOVE MEAN SEA LEVEL)
- WATER LEVELS MEASURED AT MONITORING WELLS ON APRIL 14, 2005

- NOTE:**
1. BASE MAP PROVIDED BY OSCAR MAYER AND MAY NOT EXACTLY REPRESENT EXISTING PROPERTY LAYOUT.
  2. NOT ALL MONITORING WELLS AND PIEZOMETERS ARE SHOWN.



**FIGURE E-4**  
**WATER LEVEL ELEVATION MAP-APRIL 14, 2005**  
**AND MONITORING WELL LOCATIONS**  
**OSCAR MAYER FOODS**  
**MADISON, WISCONSIN**

PROJECT NO.	1912
DRAWN BY:	KP
CHECKED BY:	JM
APPROVED BY:	
DRAWN:	04/29/05
REVISED:	03/14/06

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**Table E-5**  
**Water Level Summary**  
**Oscar Mayer / BT- Squared Project #1912**

Raw Data	Depth to Water in feet below top of well casing						
	MW1	MW2	MW3	MW6	MW7	MW24	PZ1
<b>Measurement Date</b>							
12-Jul-01	7.05	15.08	8.23	9.67	7.35	6.11	7.73
15-May-02	5.80	13.75	6.99	8.94	6.28	5.45	6.35
28-Oct-02	7.91	15.49	8.74	10.74	7.99	7.36	7.93
01-Apr-03	8.09	15.61	8.78	10.72	8.39	7.46	8.28
15-Oct-03	7.95	15.43	8.57	10.72	8.52	7.38	8.11
21-Apr-04	5.01	12.52	5.85	8.46	5.57	5.08	5.37
12-Oct-04	5.30	12.60	6.24	9.23	4.62	5.83	5.58
14-Apr-05	4.25	11.38	4.92	8.25	5.61	5.10	4.98

Well Number	Ground Water Elevation in feet above mean sea level (amsl)						
	MW1	MW2	MW3	MW6	MW7	MW24	PZ1
<b>Top of Casing Elevation (feet amsl)</b> (1)	853.82	860.75	854.20	856.46	854.39	853.41	853.50
<b>Measurement Date</b>							
12-Jul-01	846.77	845.67	845.97	846.79	847.04	847.30	845.77
15-May-02	848.02	847.00	847.21	847.52	848.11	847.96	847.15
28-Oct-02	845.91	845.26	845.46	845.72	846.40	846.05	845.57
01-Apr-03	845.73	845.14	845.42	845.74	846.00	845.95	845.22
15-Oct-03	845.87	845.32	845.63	845.74	845.87	846.03	845.39
21-Apr-04	848.81	848.23	848.35	848.00	848.82	848.33	848.13
12-Oct-04	848.52	848.15	847.96	847.23	849.77	847.58	847.92
14-Apr-05	849.57	849.37	849.28	848.21	848.78	848.31	848.52

**ABBREVIATIONS:**

NM = not measured

**NOTES:**

(1) Survey of the monitoring wells was performed on October 3, 2001, by Keith Notbohm Land Surveying, Inc.

By: JM

Checked: JSN 5/3/05



**State of Wisconsin  
Department of Natural Resources  
Remediation and Redevelopment Program**

**Table E-6**

**Mann-Kendall Statistical Test  
Form 4400-215 (2/2001)**

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

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

Site Name : KRAFT Foods, Oscar Mayer Division      BRRTS No. = 02-13-000895      Well Number = MW1

Event Number	Compound -> Sampling Date (most recent last)	cis-1,2-DCE Concentration (leave blank if no data)	vinyl chloride Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	12-Jul-01	130.00	79.00				
2	15-May-02	77.00	71.00				
3	30-Oct-02	64.00	36.00				
4	1-Apr-03	65.00	40.00				
5	15-Oct-03	44.00	32.00				
6	21-Apr-04	42.00	27.00				
7	12-Oct-04	0.25	4.20				
8	14-Apr-05	7.80	14.00				
9							
10							

Mann Kendall Statistic (S) =	-24.0	-24.0	0.0	0.0	0.0	0.0
Number of Rounds (n) =	8	8	0	0	0	0
Average =	53.76	37.90	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Standard Deviation =	41.045	25.783	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Coefficient of Variation(CV)=	0.764	0.680	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Error Check, Blank if No Errors Detected			n<4	n<4	n<4	n<4
Trend ≥ 80% Confidence Level	DECREASING	DECREASING	n<4	n<4	n<4	n<4
Trend ≥ 90% Confidence Level	DECREASING	DECREASING	n<4	n<4	n<4	n<4
Stability Test, If No Trend Exists at 80% Confidence Level	NA	NA	n<4	n<4	n<4	n<4

Data Entry By = RE      Date = 12-Jan-06      Checked By = JMM



**State of Wisconsin  
Department of Natural Resources**

**Table E-7**

**Mann-Kendall Statistical Test  
Form 4400-215 (2/2001)**

**Remediation and Redevelopment Program**

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

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

Site Name : KRAFT Foods, Oscar Mayer Division      BRRTS No. = 02-13-000895      Well Number = PZ1

Event Number	Compound -> Sampling Date (most recent last)	vinyl chloride Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	12-Jul-01	5.00					
2	15-May-02	5.40					
3	30-Oct-02	4.90					
4	1-Apr-03	4.60					
5	15-Oct-03	5.80					
6	21-Apr-04	4.40					
7	12-Oct-04	0.39					
8	14-Apr-05	0.58					
9							
10							

Mann Kendall Statistic (S) =	-16.0	0.0	0.0	0.0	0.0	0.0
Number of Rounds (n) =	8	0	0	0	0	0
Average =	3.88	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Standard Deviation =	2.143	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Coefficient of Variation(CV)=	0.552	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Error Check, Blank if No Errors Detected		n<4	n<4	n<4	n<4	n<4
Trend ≥ 80% Confidence Level	<b>DECREASING</b>	n<4	n<4	n<4	n<4	n<4
Trend ≥ 90% Confidence Level	<b>DECREASING</b>	n<4	n<4	n<4	n<4	n<4
Stability Test, If No Trend Exists at 80% Confidence Level	NA	n<4	n<4	n<4	n<4	n<4

Data Entry By = RE      Date = 12-Jan-06      Checked By = JMM



**Table E-8**  
**Natural Attenuation Parameter Results**  
**Oscar Mayer / BT<sup>2</sup> Project #1912**  
(Results are in mg/l, unless noted otherwise)

Monitoring Well	Date	Lab Notes	Field pH (standard units)	Nitrate	Sulfate	Dissolved Manganese (µg/l)
MW1	7/12/2001	--	6.69	0.10*	110	380
	5/15/2002	(1)	6.79	<0.11	87	465
	10/29/2002	--	7.35	<0.11	100	490
	4/1/2003	--	6.77	<0.060	95	466
	10/15/2003	(2)	6.69	0.097*	130	457
	4/21/2004	--	6.79	0.090*	83	547
	10/12/2004	--	8.81	<0.060	0.891*	310
	4/14/2005	--	7.37	0.11*	8.7	230
MW2	7/12/2001	--	6.74	<0.10	140	472
	5/15/2002	--	6.88	<0.11	130	442
	10/29/2002	--	6.8	<0.11	130	394
	4/1/2003	(3)	6.89	0.062	140	376
	10/15/2003	(2)	6.54	0.095*	130	422
	4/21/2004	--	6.98	0.065*	120	436
	10/12/2004	--	8.55	0.111*	10.7	49
	4/14/2005	(5)	6.8	0.090*	150	436
MW3	7/12/2001	--	7.32	<0.10	28	9.3
	5/15/2002	--	7.57	<0.11	23	6.9
	10/29/2002	--	7.72	<0.11	20	11.7
	4/1/2003	--	7.83	<0.060	12	12.7
	10/15/2003	(2)	7.39	0.093*	18	14.8
	4/21/2004	--	7.79	<0.060	15	2.8*
	10/12/2004	--	8.09	<0.060	2.74	60.6
	4/14/2005	--	7.34	0.093*	7.7	4.2
MW6	7/12/2001	--	6.6	0.10*	3.5	72.9
	5/15/2002	--	6.77	<0.11	<0.64	66.7
	10/29/2002	--	6.65	<0.11	1.2	53.2
	4/1/2003	--	6.78	<0.060	1.5*	40
	10/15/2003	(2)	6.84	0.099*	5.9	39.8
	4/21/2004	--	7.05	0.079*	11	33.8
	10/12/2004	--	6.99	0.127*	8.26	45.4
	4/14/2005	(4)	6.93	0.096*	5.1	33.2
MW7	7/12/2001	--	7.48	<0.10	5.2	166
	5/15/2002	(3)	7.69	<0.11	2.3	180
	10/29/2002	--	7.49	<0.11	3.4	182
	4/1/2003	--	7.14	<0.060	4	191
	10/15/2003	(2)	7.02	0.16*	3.4	216
	4/21/2004	--	7.29	<0.060	3.9	232
	10/12/2004	--	7.6	0.127*	0.897*	86.4
	4/14/2005	(4)	7.26	0.25	0.98*	156



**Table E-8**  
**Natural Attenuation Parameter Results**  
**Oscar Mayer / BT<sup>2</sup> Project #1912**  
(Results are in mg/l, unless noted otherwise)

Monitoring Well	Date	Lab Notes	Field pH (standard units)	Nitrate	Sulfate	Dissolved Manganese (µg/l)
MW24	7/12/2001	--	6.41	0.21*	16	6,700
	5/15/2002	--	6.55	<0.11	15	5,420
	10/30/2002	--	7.46	<0.11	3.9	1,870
	4/1/2003	--	6.63	0.064*	1.2*	2,210
	10/15/2003	(2)	6.56	<0.060	1.8*	1,910
	4/21/2004	--	6.81	<0.060	<0.74	2,440
	10/12/2004	--	6.69	<0.060	2.49*	3,080
	4/14/2005	--	6.39	<0.040	4.3	3,140
PZ1	7/12/2001	--	6.95	<0.10	280	23.4
	5/15/2002	--	7	<0.11	240	19.9
	10/30/2002	--	7.69	<0.11	240	21
	4/1/2003	(3)	7.1	0.077	270	19.2
	10/15/2003	(2)	6.99	0.098*	270	21.6
	4/21/2004	--	7.12	0.063*	270	16.9
	10/12/2004	--	7.02	0.172*	154	141
	4/14/2005	--	6.87	0.19	270	49.1
NR 140 Enforcement Standards (ES)			NE	1	250	50
NR 140 Preventive Action Limits (PAL)			NE	0.2	125	25

**ABBREVIATIONS:**

NE = Not Established

LOD = Limit of Detection

LOQ = Limit of Quantitation

**NOTE:**

The NR 140 ES and PAL for manganese and sulfate are from Table 2 – Public Welfare Groundwater Quality Standards.

**LABORATORY NOTES:**

\* = Value is in between LOD and LOQ.

- (1) Nitrate analysis – Holding time exceeded.
- (2) Nitrate analysis – Analyte detected in associated Method Blank. Conductivity measurements were made on preserved (cooled to 4°C) groundwater samples two to eight hours after sample collection using temperature-compensated conductivity meter.
- (3) Nitrate and sulfate analysis – Matrix Spike and/or Matrix Spike Duplicate recovery outside acceptable limits.
- (4) Nitrate Nitrogen analysis - Analyte detected in associated Method Blank.

By: LMH 8/13/01

Rev. by: JSP 4/24/03; LMH 11/6/03; LMH 11/17/03; LMH 5/26/04; LMH 11/9/04; reformat by LMH 2/21/06

Checked by: JMM 11/17/03; JMM 6/8/04; JMM 5/25/05; TLR 2/21/06

I:\1912\Tables\[Natural\_Attenuation\_Table\_E-8.xls]Sheet1



**ATTACHMENT F**

**Other Contaminated Media Information Attachments**

(None Needed)



## **ATTACHMENT I**

### **Required GIS Registry Information**

Copy(s) of Most Recent Deed  
Parcel Identification Number  
0810-313-0101-3

Geographic Position WTM-91 Coordinates  
X=572,413  
Y=293,511

Site Location Map  
Groundwater Project Area Map  
Groundwater Analytical Results Summary (Table)  
Summary of Detected Constituents in Soil (Table)  
Groundwater Analytical Results Summary (Table)  
Groundwater Contamination Extent Map  
Water Level Summary (Table)  
Water Level Elevation Map – October 12, 2004  
Water Level Elevation Map – April 14, 2005  
Soil Boring Location Map  
Generalized Geologic Cross Section  
Geologic Cross Section Location Map  
Geologic Cross Section A-A'  
Responsible Party Statement



NOTES:

1. BASE MAP PROVIDED BY OSCAR MAYER AND MAY NOT EXACTLY REPRESENT EXISTING PROPERTY LAYOUT.
2. PROPERTY LINES AND WTM-91 COORDINATE LOCATIONS ARE APPROXIMATE.
3. MAP SHOWS MONITORING WELLS AND EXTENT OF IMPACT ASSOCIATED WITH GROUNDWATER PROJECT AREA ONLY.
4. PRODUCTION WELLS 004 AND 006 ARE ONLY BACK-UP WATER SUPPLY FOR FIRE FIGHTING USE.

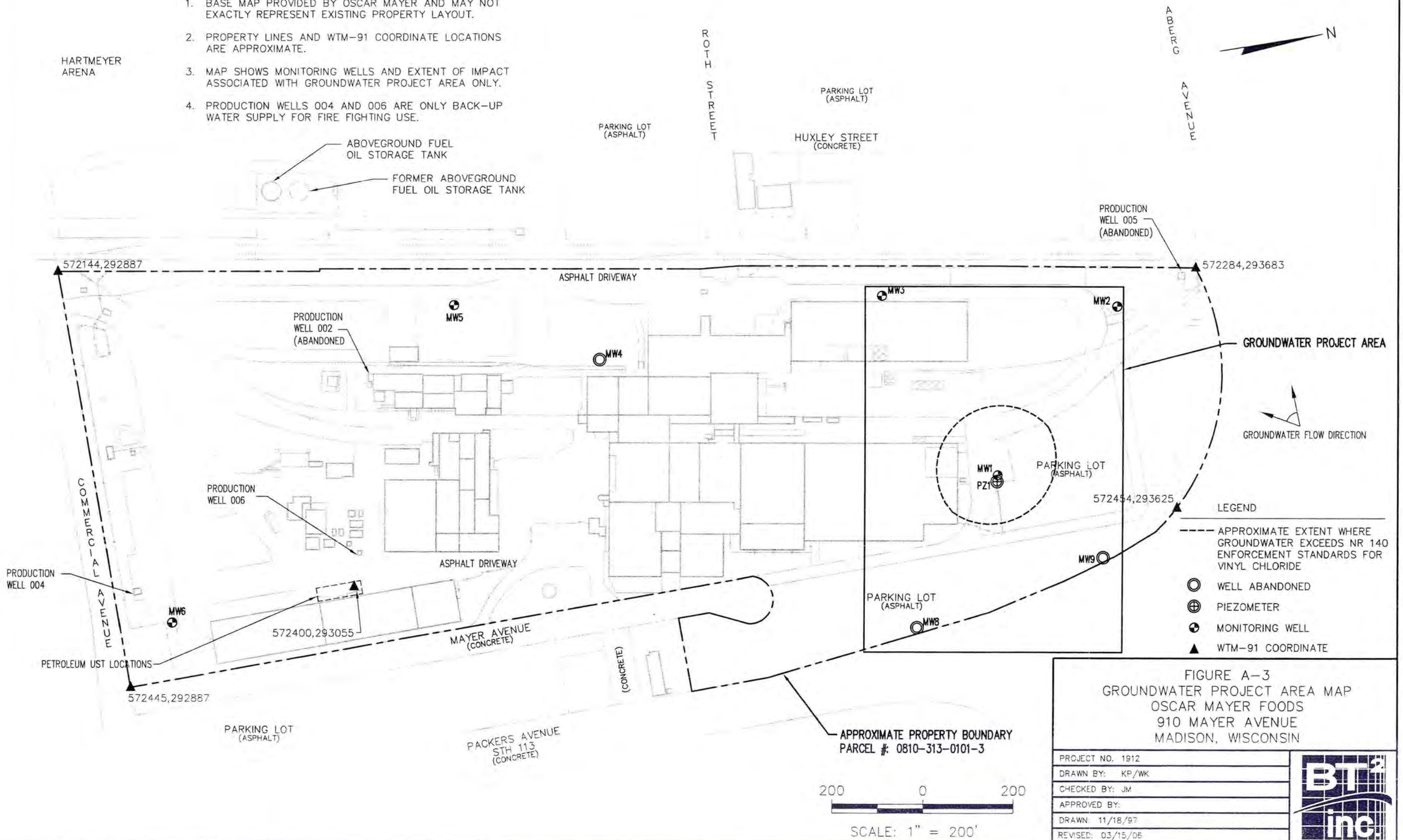
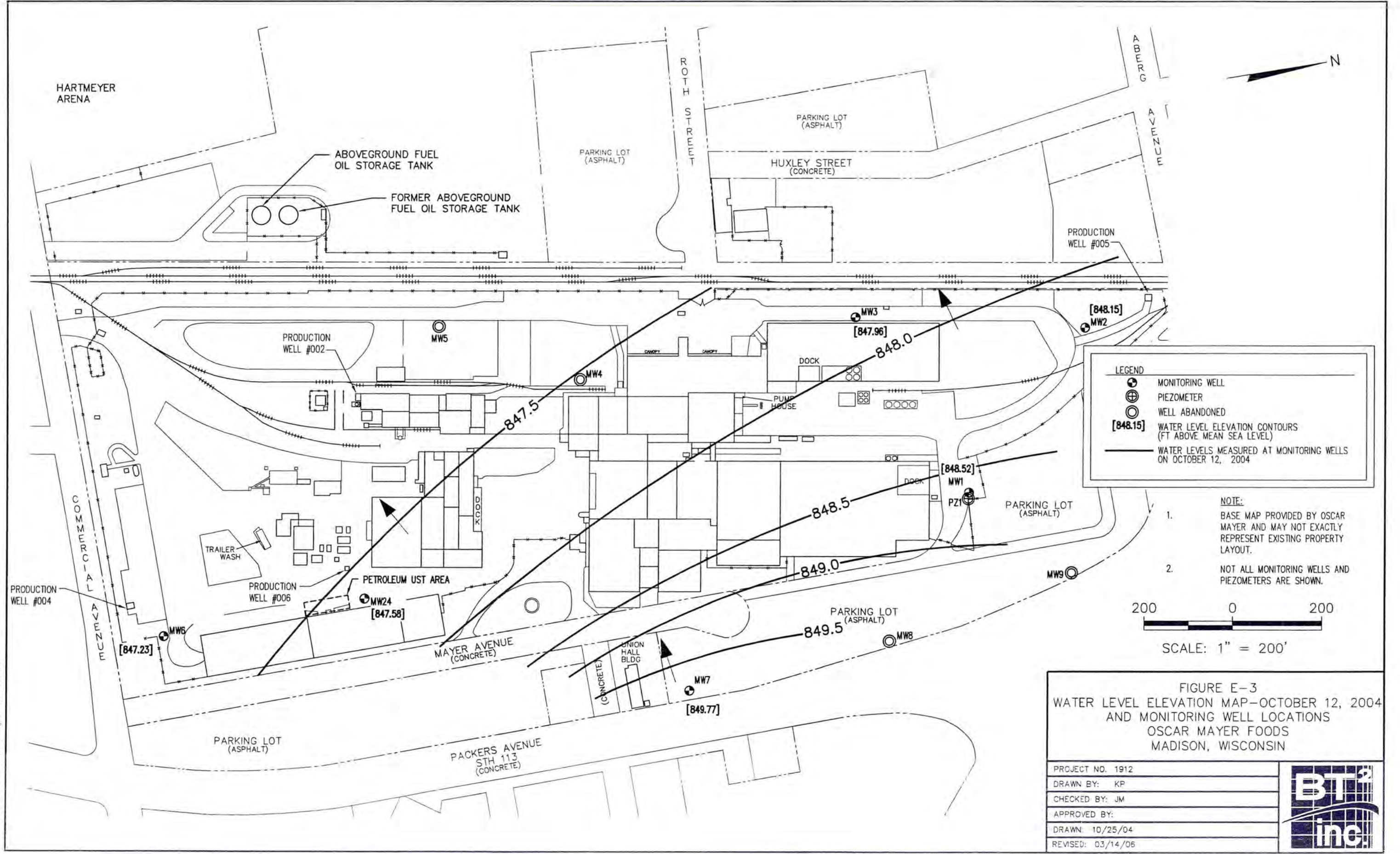


FIGURE A-3  
GROUNDWATER PROJECT AREA MAP  
OSCAR MAYER FOODS  
910 MAYER AVENUE  
MADISON, WISCONSIN

PROJECT NO. 1912
DRAWN BY: KP/WK
CHECKED BY: JM
APPROVED BY:
DRAWN: 11/18/97
REVISED: 03/15/06



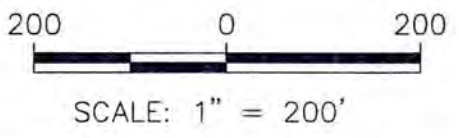




**LEGEND**

- MONITORING WELL
- PIEZOMETER
- WELL ABANDONED
- [848.15] WATER LEVEL ELEVATION CONTOURS (FT ABOVE MEAN SEA LEVEL)
- WATER LEVELS MEASURED AT MONITORING WELLS ON OCTOBER 12, 2004

- NOTE:**
1. BASE MAP PROVIDED BY OSCAR MAYER AND MAY NOT EXACTLY REPRESENT EXISTING PROPERTY LAYOUT.
  2. NOT ALL MONITORING WELLS AND PIEZOMETERS ARE SHOWN.



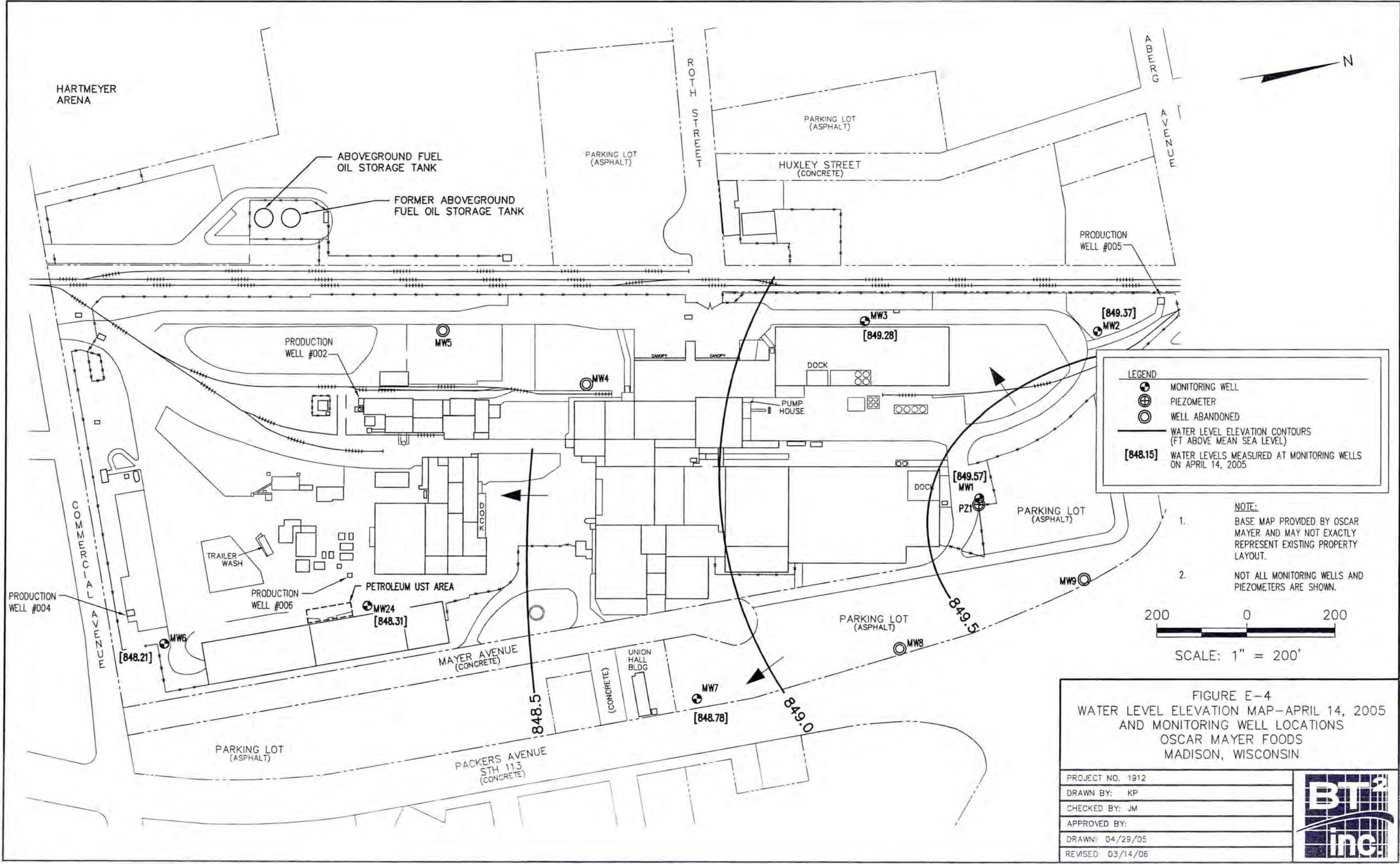
**FIGURE E-3**  
**WATER LEVEL ELEVATION MAP-OCTOBER 12, 2004**  
**AND MONITORING WELL LOCATIONS**  
**OSCAR MAYER FOODS**  
**MADISON, WISCONSIN**

PROJECT NO. 1912
DRAWN BY: KP
CHECKED BY: JM
APPROVED BY:
DRAWN: 10/25/04
REVISED: 03/14/06



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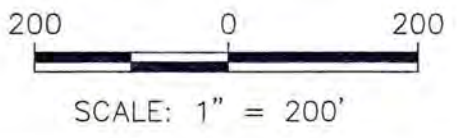




**LEGEND**


- MONITORING WELL
- PIEZOMETER
- WELL ABANDONED
- WATER LEVEL ELEVATION CONTOURS (FT ABOVE MEAN SEA LEVEL)
- [848.15]** WATER LEVELS MEASURED AT MONITORING WELLS ON APRIL 14, 2005

- NOTE:**
1. BASE MAP PROVIDED BY OSCAR MAYER AND MAY NOT EXACTLY REPRESENT EXISTING PROPERTY LAYOUT.
  2. NOT ALL MONITORING WELLS AND PIEZOMETERS ARE SHOWN.



**FIGURE E-4**  
**WATER LEVEL ELEVATION MAP-APRIL 14, 2005**  
**AND MONITORING WELL LOCATIONS**  
**OSCAR MAYER FOODS**  
**MADISON, WISCONSIN**

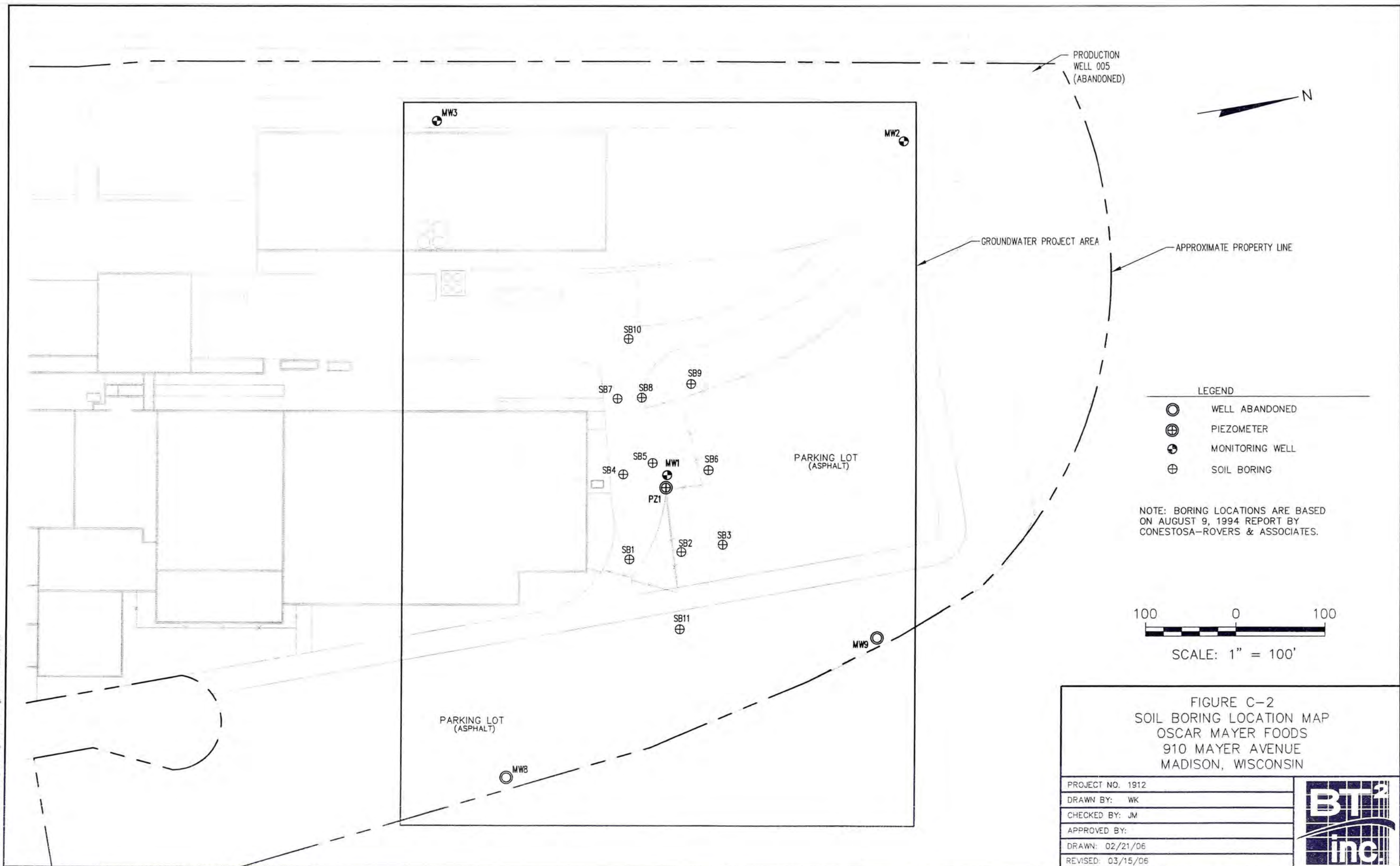
PROJECT NO. 1912
DRAWN BY: KP
CHECKED BY: JM
APPROVED BY:
DRAWN: 04/29/05
REVISED: 03/14/06



I:\1912\figures\General\WELL\_APRIL05.dwg, 7/20/2006 12:24:58 PM



L:\1912\Figures\General\SOIL BORING\_LOCATION.dwg, 7/26/2006 12:17:34 PM







PRODUCTION WELL 005 (ABANDONED)



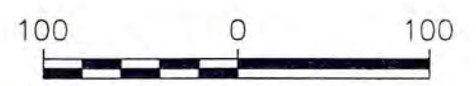
GROUNDWATER PROJECT AREA

APPROXIMATE PROPERTY LINE

LEGEND

-  WELL ABANDONED
-  PIEZOMETER
-  MONITORING WELL
-  SOIL BORING

NOTE: BORING LOCATIONS ARE BASED ON AUGUST 9, 1994 REPORT BY CONESTOSA-ROVERS & ASSOCIATES.



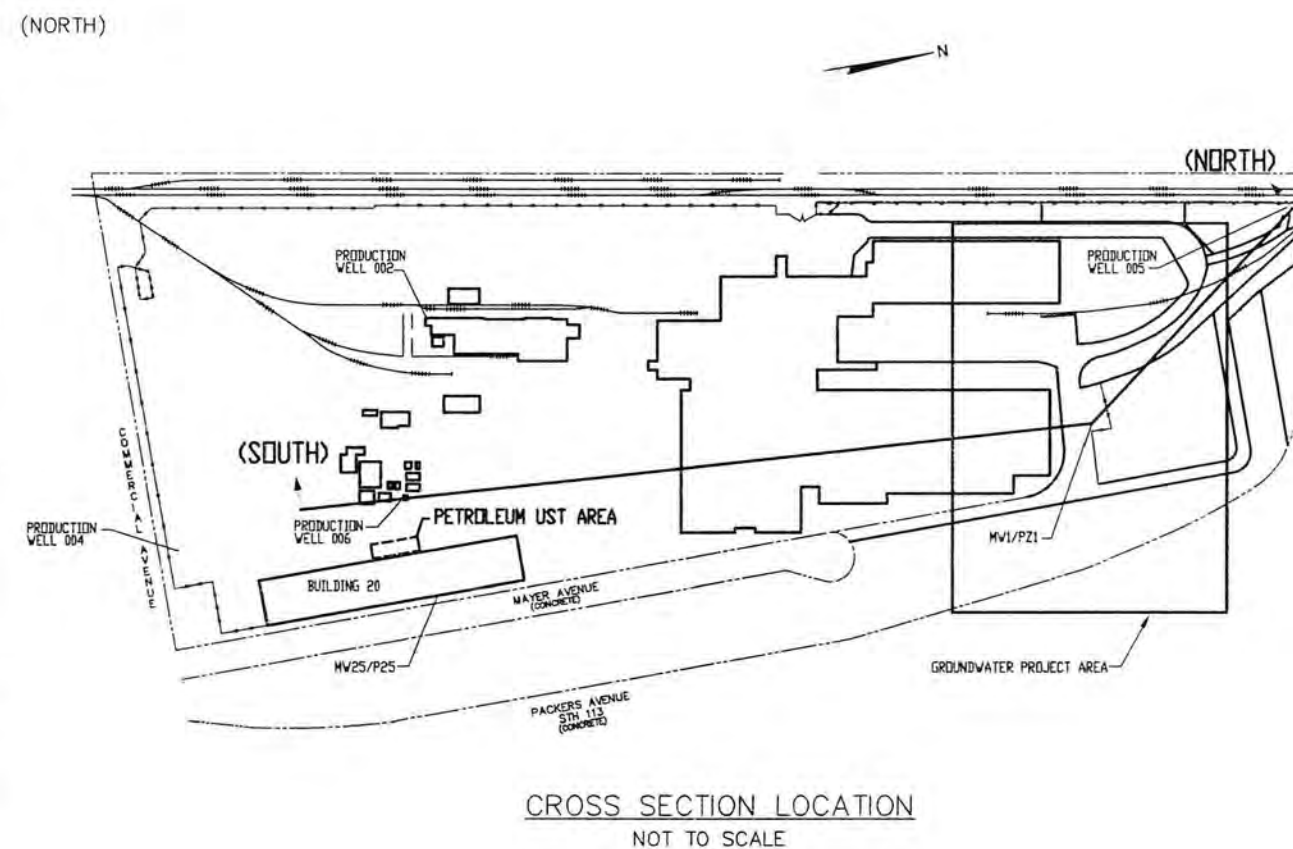
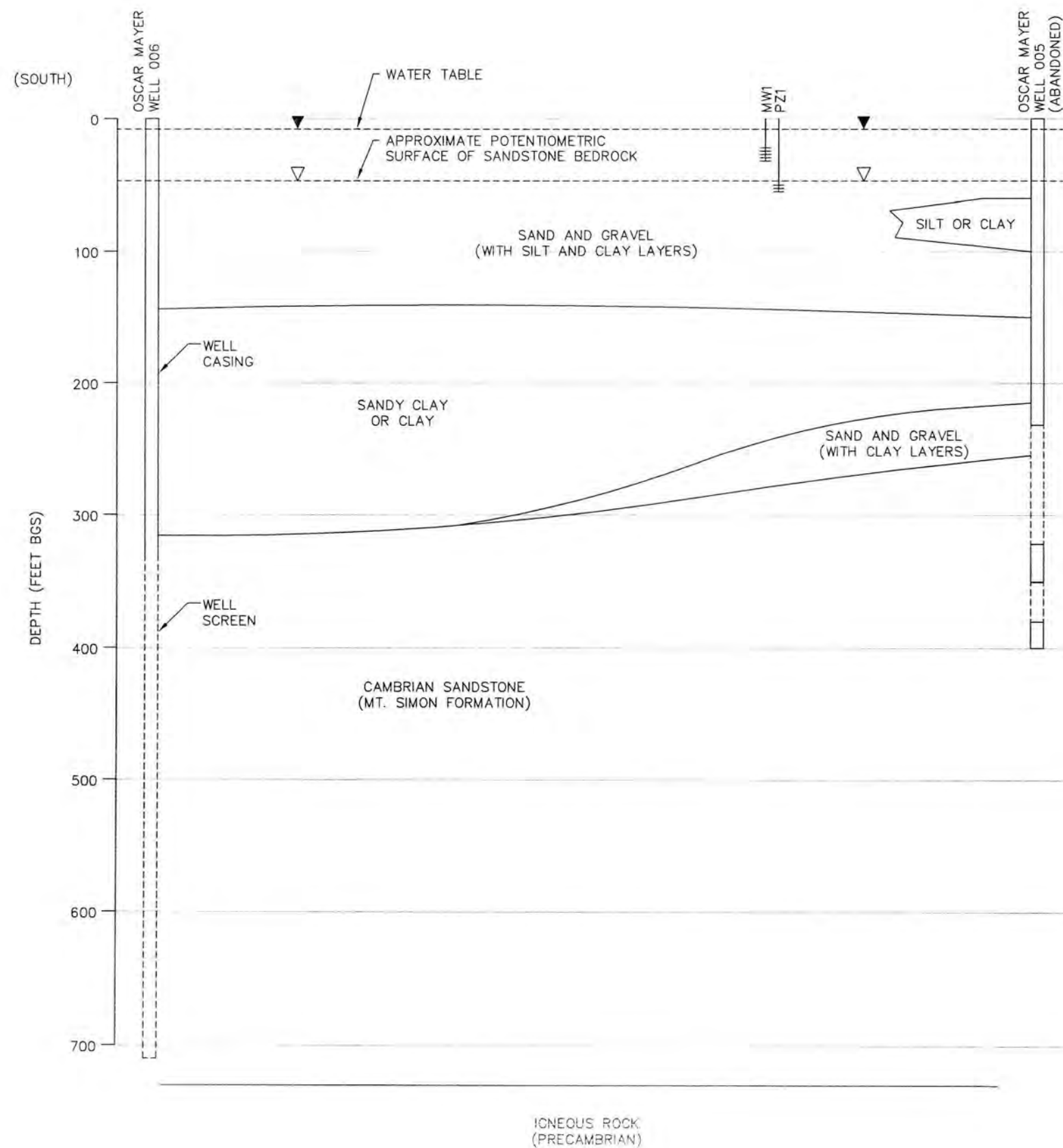
SCALE: 1" = 100'

FIGURE C-2  
 SOIL BORING LOCATION MAP  
 OSCAR MAYER FOODS  
 910 MAYER AVENUE  
 MADISON, WISCONSIN

PROJECT NO. 1912
DRAWN BY: WK
CHECKED BY: JM
APPROVED BY:
DRAWN: 02/21/06
REVISED: 03/15/06







NOTES:

1. ALL OSCAR MAYER PRODUCTION WELLS ARE ABANDONED EXCEPT FOR 004 AND 006. WELLS 004 AND 006 ARE ONLY BACK-UP WATER SUPPLY FOR FIRE FIGHTING USE.

FIGURE C-3  
GENERALIZED GEOLOGIC CROSS SECTION  
OSCAR MAYER FOODS  
910 MAYER AVENUE  
MADISON, WISCONSIN

PROJECT NO. 1061

DRAWN BY: KP

CHECKED BY: JM

APPROVED BY:

DRAWN: 12/12/97

REVISED: 05/10/06



0 300  
HORIZONTAL SCALE: 1" = 300'  
VERTICAL SCALE: 1" = 100'  
VERTICAL EXAGGERATION = 3X







NOTES:

1. BASE MAP PROVIDED BY OSCAR MAYER AND MAY NOT EXACTLY REPRESENT EXISTING PROPERTY LAYOUT.
2. PROPERTY LINES AND WTM-91 COORDINATE LOCATIONS ARE APPROXIMATE.
3. MAP SHOWS MONITORING WELLS AND EXTENT OF IMPACT ASSOCIATED WITH GROUNDWATER PROJECT AREA ONLY.
4. PRODUCTION WELLS 004 AND 006 ARE ONLY BACK-UP WATER SUPPLY FOR FIRE FIGHTING USE.

HARTMEYER ARENA

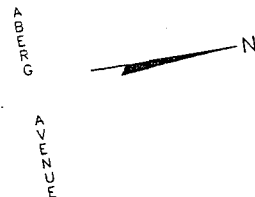
PARKING LOT (ASPHALT)

PARKING LOT (ASPHALT)

HUXLEY STREET (CONCRETE)

ABOVEGROUND FUEL OIL STORAGE TANK

FORMER ABOVEGROUND FUEL OIL STORAGE TANK



ROTH STREET

COMMERCIAL AVENUE

572144,292887

572284,293683

ASPHALT DRIVEWAY

PRODUCTION WELL 002 (ABANDONED)

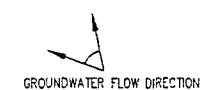
MWS

MW4

MWS

MW2

GROUNDWATER PROJECT AREA



PRODUCTION WELL 006

ASPHALT DRIVEWAY

MW1 PZI

PARKING LOT (ASPHALT)

572454,293625

LEGEND

- APPROXIMATE EXTENT WHERE GROUNDWATER EXCEEDS NR 140 ENFORCEMENT STANDARDS FOR VINYL CHLORIDE
- WELL ABANDONED
- ⊕ PIEZOMETER
- ⊙ MONITORING WELL
- ▲ WTM-91 COORDINATE

PRODUCTION WELL 004

MWS

572400,293055

MAYER AVENUE (CONCRETE)

PARKING LOT (ASPHALT)

MWS

MWS

PETROLEUM UST LOCATIONS

572445,292887

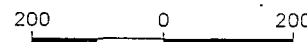
PARKING LOT (ASPHALT)

PACKERS AVENUE STH 113 (CONCRETE)

APPROXIMATE PROPERTY BOUNDARY  
PARCEL #: 0810-313-0101-3

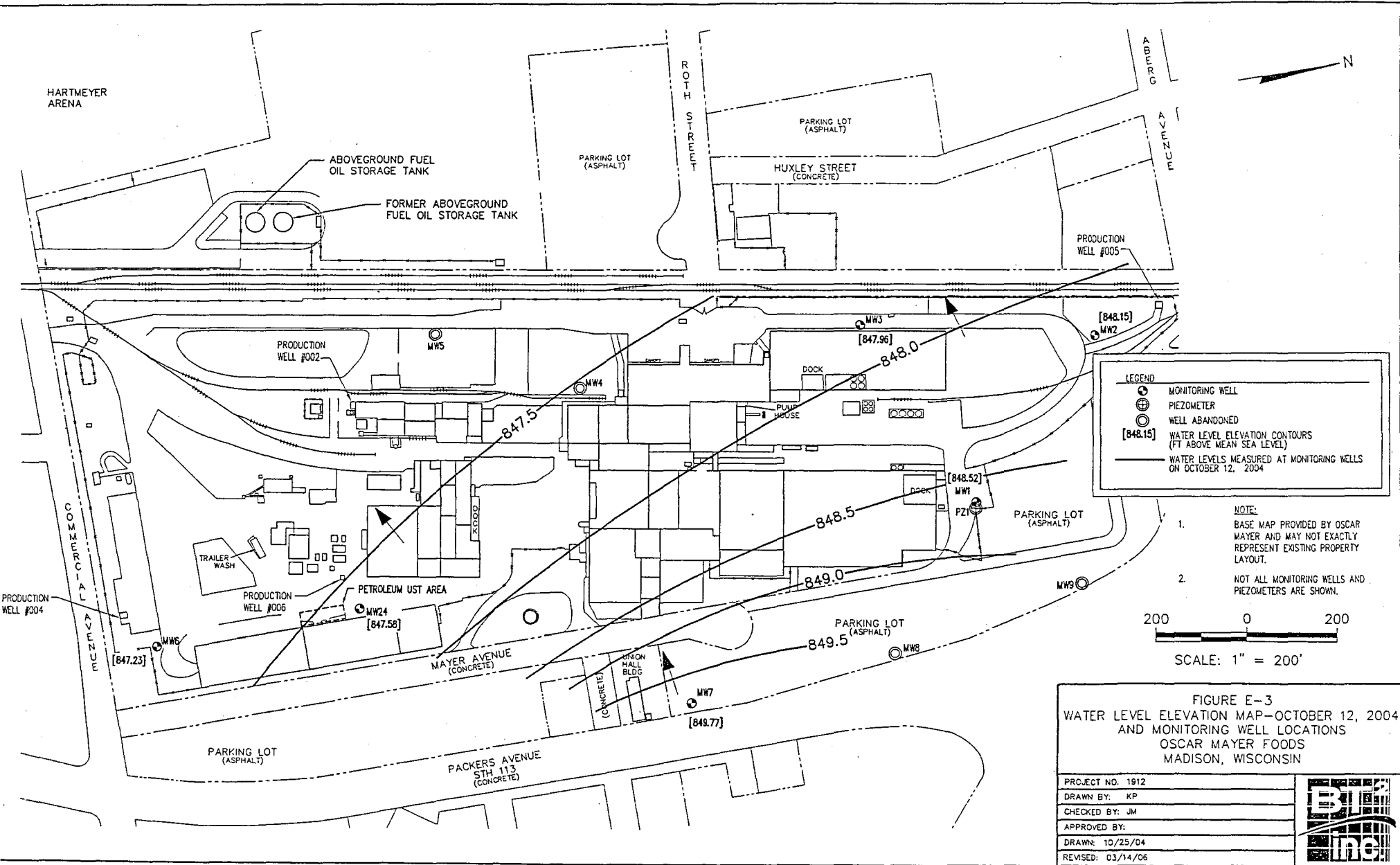
FIGURE A-3  
GROUNDWATER PROJECT AREA MAP  
OSCAR MAYER FOODS  
910 MAYER AVENUE  
MADISON, WISCONSIN

PROJECT NO.	1912
DRAWN BY:	KP/WK
CHECKED BY:	JM
APPROVED BY:	
DRAWN:	11/18/97
REVISED:	03/15/06



SCALE: 1" = 200'

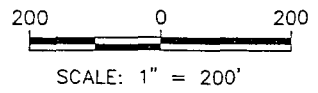




**LEGEND**

- MONITORING WELL
- PIEZOMETER
- WELL ABANDONED
- WATER LEVEL ELEVATION CONTOURS (FT ABOVE MEAN SEA LEVEL)
- WATER LEVELS MEASURED AT MONITORING WELLS ON OCTOBER 12, 2004

- NOTE:**
1. BASE MAP PROVIDED BY OSCAR MAYER AND MAY NOT EXACTLY REPRESENT EXISTING PROPERTY LAYOUT.
  2. NOT ALL MONITORING WELLS AND PIEZOMETERS ARE SHOWN.

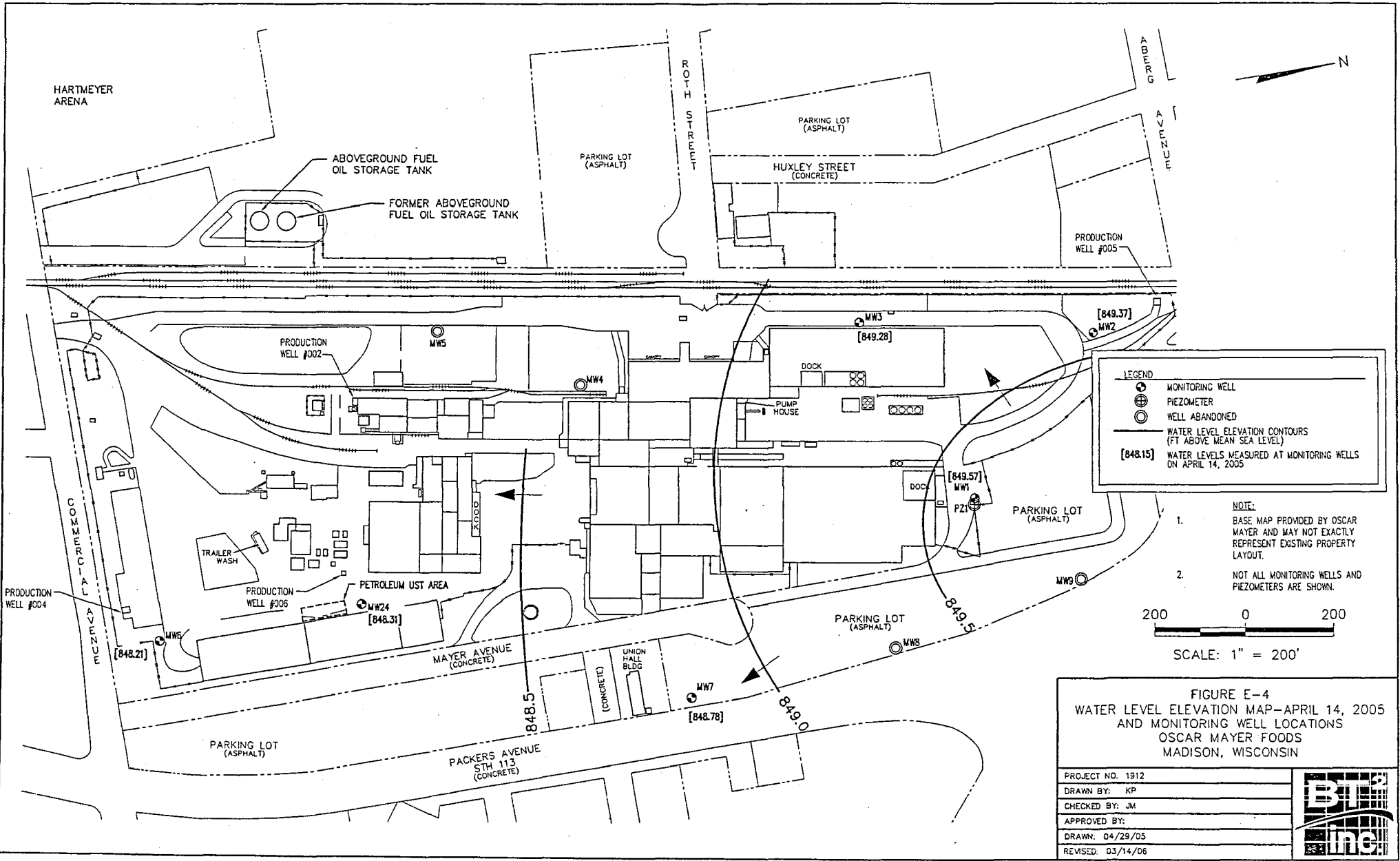


**FIGURE E-3**  
**WATER LEVEL ELEVATION MAP—OCTOBER 12, 2004**  
**AND MONITORING WELL LOCATIONS**  
**OSCAR MAYER FOODS**  
**MADISON, WISCONSIN**

PROJECT NO. 1912
DRAWN BY: KP
CHECKED BY: JM
APPROVED BY:
DRAWN: 10/25/04
REVISED: 03/14/06



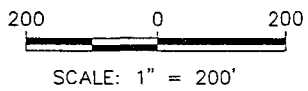




**LEGEND**

- MONITORING WELL
- ⊕ PIEZOMETER
- ⊙ WELL ABANDONED
- WATER LEVEL ELEVATION CONTOURS (FT ABOVE MEAN SEA LEVEL)
- [848.15] WATER LEVELS MEASURED AT MONITORING WELLS ON APRIL 14, 2005

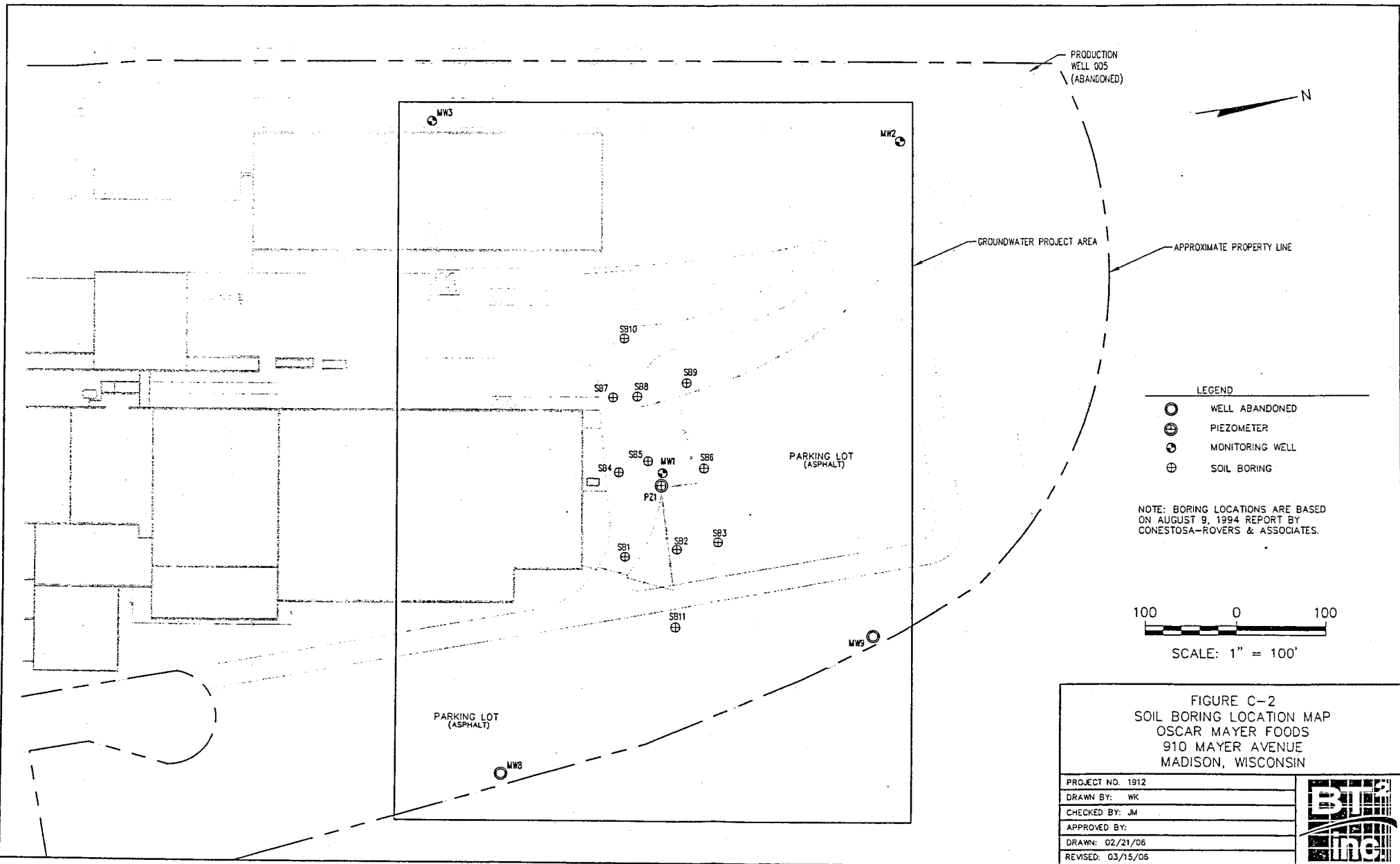
- NOTE:**
1. BASE MAP PROVIDED BY OSCAR MAYER AND MAY NOT EXACTLY REPRESENT EXISTING PROPERTY LAYOUT.
  2. NOT ALL MONITORING WELLS AND PIEZOMETERS ARE SHOWN.



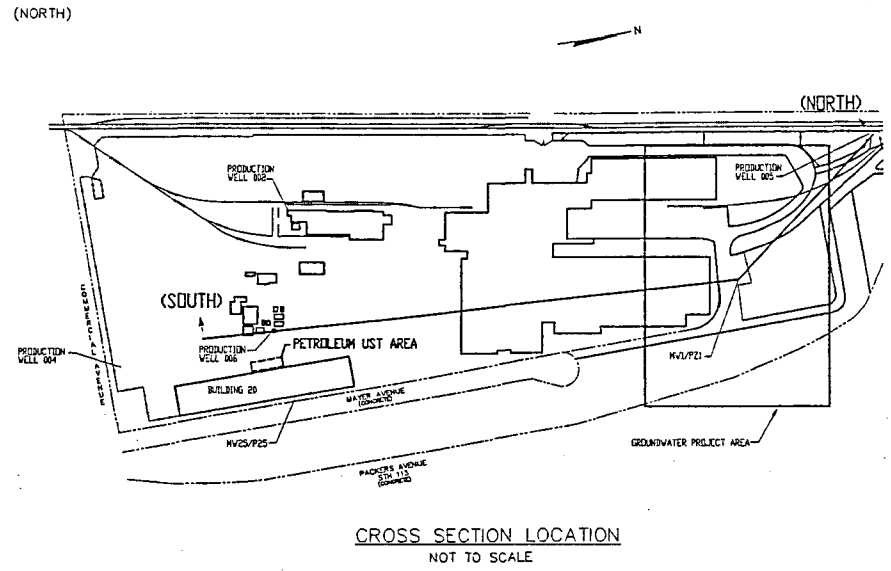
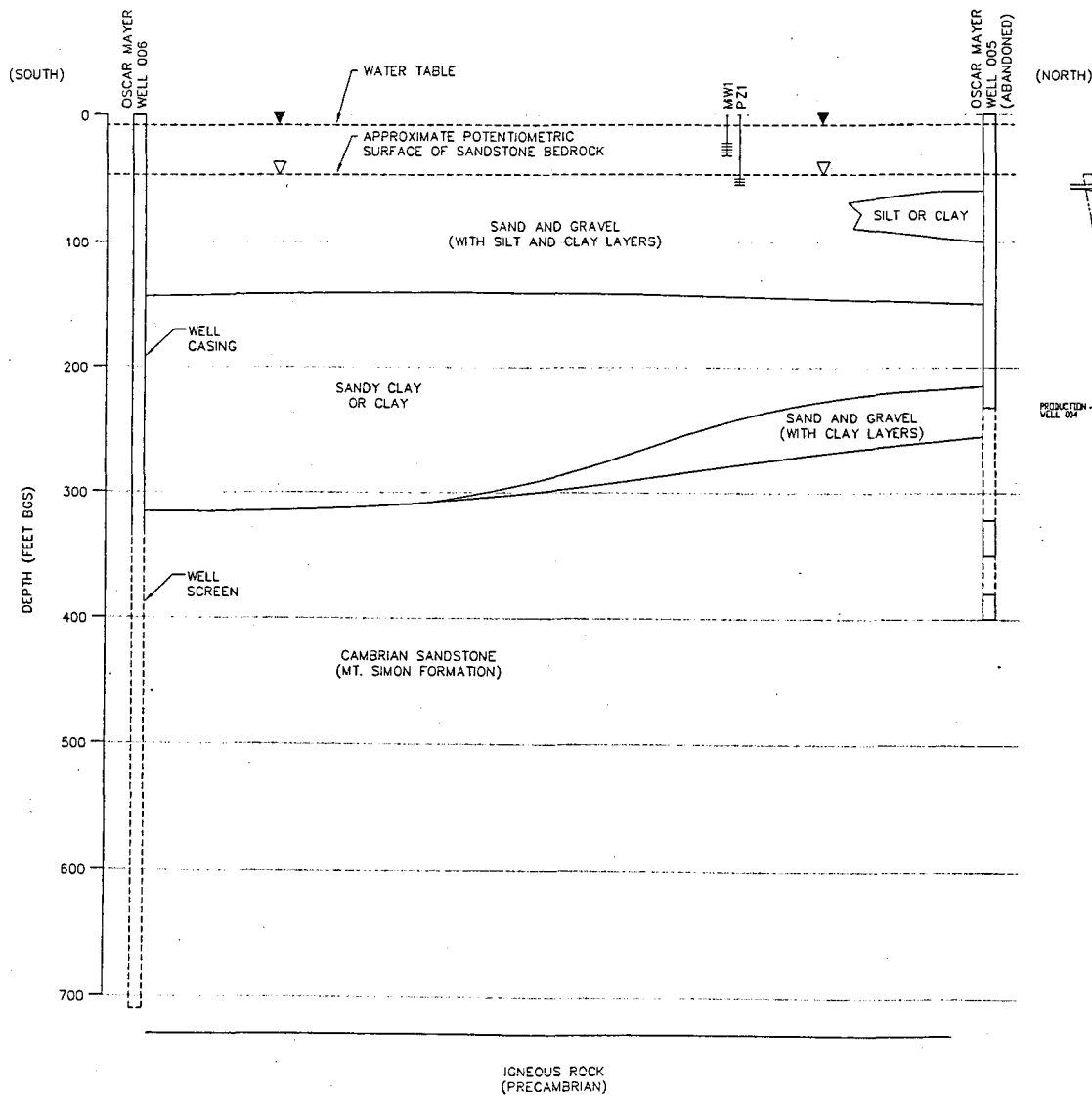
**FIGURE E-4**  
**WATER LEVEL ELEVATION MAP-APRIL 14, 2005**  
**AND MONITORING WELL LOCATIONS**  
**OSCAR MAYER FOODS**  
**MADISON, WISCONSIN**

PROJECT NO. 1912	
DRAWN BY: KP	
CHECKED BY: JM	
APPROVED BY:	
DRAWN: 04/29/05	
REVISED: 03/14/06	










- NOTES:
1. ALL OSCAR MAYER PRODUCTION WELLS ARE ABANDONED EXCEPT FOR 004 AND 006. WELLS 004 AND 006 ARE ONLY BACK-UP WATER SUPPLY FOR FIRE FIGHTING USE.

**FIGURE C-3**  
**GENERALIZED GEOLOGIC CROSS SECTION**  
**OSCAR MAYER FOODS**  
**910 MAYER AVENUE**  
**MADISON, WISCONSIN**

PROJECT NO.	1061
DRAWN BY:	KP
CHECKED BY:	JM
APPROVED BY:	
DRAWN:	12/12/97
REVISED:	05/10/06

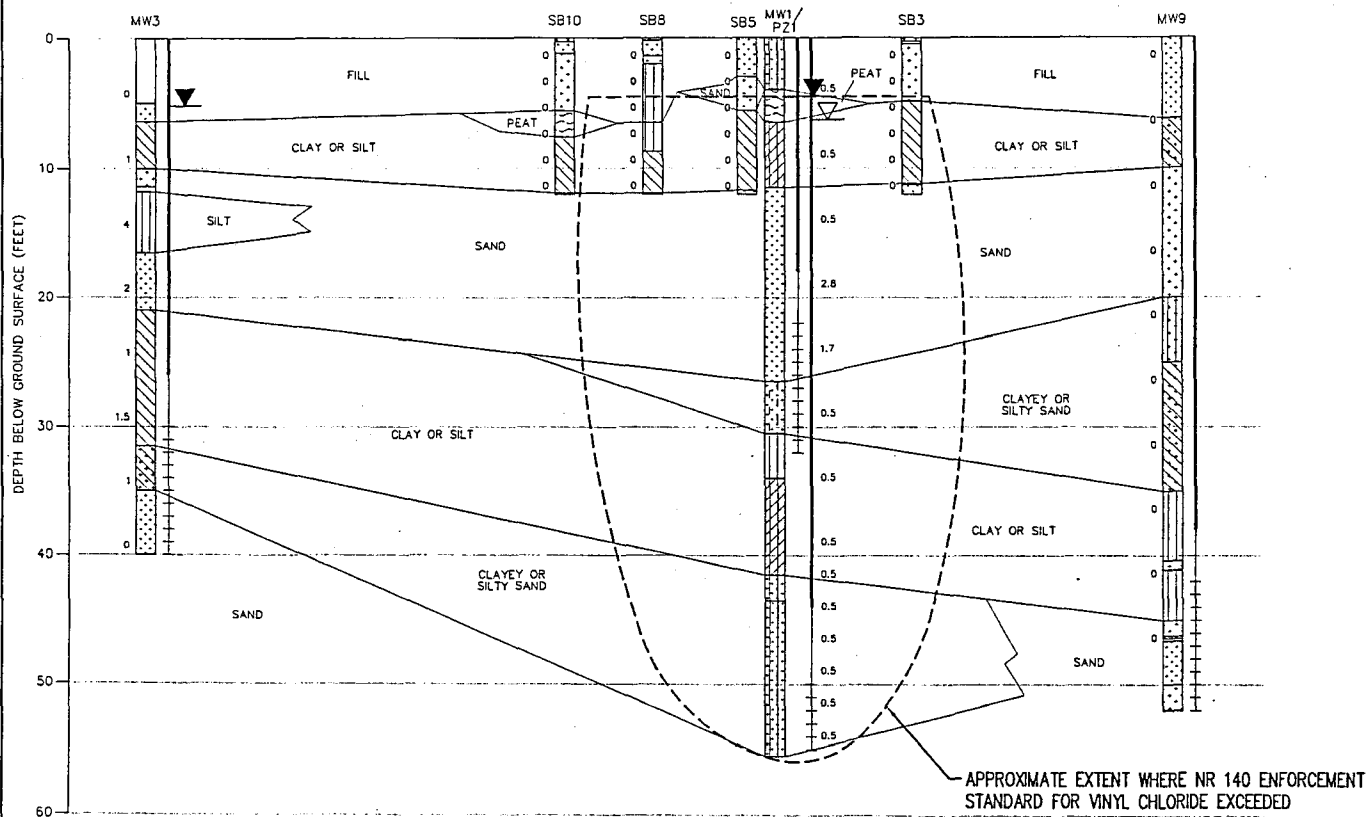


0 300  
 HORIZONTAL SCALE: 1" = 300'  
 VERTICAL SCALE: 1" = 100'  
 VERTICAL EXAGGERATION = 3X



A  
(WEST)

A'  
(EAST)



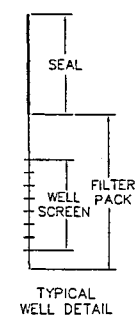
LEGEND

- BLIND DRILLED. NO SAMPLES COLLECTED.
- FILL.
- SAND, WELL GRADED, LITTLE OR NO FINES (SW).
- SAND, POORLY GRADED, LITTLE OR NO FINES (SP).
- SILT (ML).
- LEAN CLAY (CL).
- SILTY SAND (SM).
- CLAYEY SAND (SC).
- SILTY CLAY (CL-ML).
- PEAT (PT).

25 PHOTO-IONIZATION DETECTOR READING (ppm)

GEOLOGIC CONTACT

- WATER LEVEL AT MW1 AND MW3 ON APRIL 14, 2005
- WATER LEVEL AT PZ1 ON APRIL 14, 2005



HORIZONTAL SCALE: 1" = 100'  
 VERTICAL SCALE: 1" = 10'  
 VERTICAL EXAGGERATION = 10X

APPROXIMATE EXTENT WHERE NR 140 ENFORCEMENT STANDARD FOR VINYL CHLORIDE EXCEEDED

FIGURE C-5  
 GEOLOGIC CROSS SECTION A-A'  
 OSCAR MAYER FOODS  
 910 MAYER AVENUE  
 MADISON, WISCONSIN

PROJECT NO.	1912
DRAWN BY:	WK
CHECKED BY:	JM
APPROVED BY:	
DRAWN:	02/27/06
REVISED:	05/10/06





## CORRESPONDENCE/MEMORANDUM

DATE: August 29, 2006

FILE REF: 02-13-000895

TO: Closure Committee

FROM: Dino Tsoris

SUBJECT: Closure Request, Groundwater Project, Oscar Mayer, 910 Mayer Ave., Madison, WI  
**Closure Date:** July 31, 2006  
**Priority:** Chlorinated Solvents & Bedrock Contamination  
**Acres for Reuse:** 54 acres

**Background:** In 1994, chlorinated compounds were detected in the production wells for Oscar Mayer, Inc. The depth of the production wells ranges from ~400-700 ft BGS with casing depths a minimum of ~270 ft BGS. An environmental site investigation was performed to determine the extent of contamination and the potential source of the chlorinated solvent contaminants.

While not addressed in the 1994 investigation or the 2006 closure request, a spill of chlorinated solvents from a former drum storage area is noteworthy for this closure request. A release of chlorinated solvents was identified in the drum storage area in 1986. In late 1987 and early 1988, approximately 110 cubic yards of contaminated soil was excavated from the area and treated on site. Chlorinated compounds detected in shallow soil samples (1.5-2.0' - 3-4' BGS) identified PCE at concentrations of 400 & 610 ppb. The excavation extended to a depth of ~7.5 ft BGS. Other detected compounds included TCE and 1,2-Dichloroethylene. Soil confirmation samples were only field screened; no samples were collected for laboratory analysis. No groundwater monitoring was conducted in this area. The exact location of the excavation is difficult to identify but appears to be west of Building 28 (Warehouse B) and the Guard House (32B) closest monitoring well may be several hundred feet from the source area.

**Geology-** Nine groundwater monitoring wells were installed on the property. The highest levels of chlorinated solvents found in the groundwater were identified in groundwater collected from MW-1 & PZ-1. Subsequently, 11 soil borings were installed to determine if there was a potential source in proximity of MW-1 & PZ-1. Groundwater is present at five to eight feet BGS, groundwater flow direction is to the west, with the most recent flow direction measured to the south.

**Investigation Results** - No identified source of chlorinated solvent contamination was identified during the 1994 investigation, however, additional investigative activities as recommended in the 1994 report were not conducted. Residual groundwater contamination remains in the unconsolidated aquifer, primarily vinyl chloride at MW-1 & PZ-1 at 14.0 ppb and 0.58 respectively. No source area was identified in the soils in proximity of MW-1/PZ-1. The residual vinyl chloride is likely a recalcitrant breakdown product of other chlorinated compounds.

Oscar Mayer production wells #4 and #6 are not in use and remain as backup for fire control. Production wells #2, #3 and #5 have been abandoned.

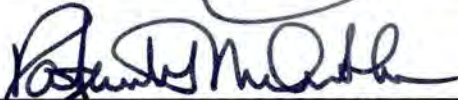
It appears that the chlorinated plume has stabilized and receded. The source of the chlorinated solvents has not been identified, off-site, potentials mentioned are Truax, Demetral, or on-site potential is the drum

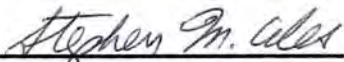


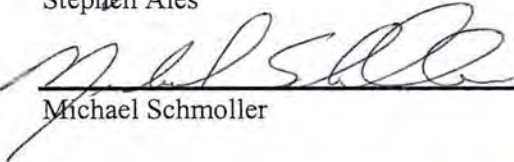
storage area or other unknown areas.

Oscar Mayer is requesting closure with a groundwater GIS listing.

Closure  Approved  Denied

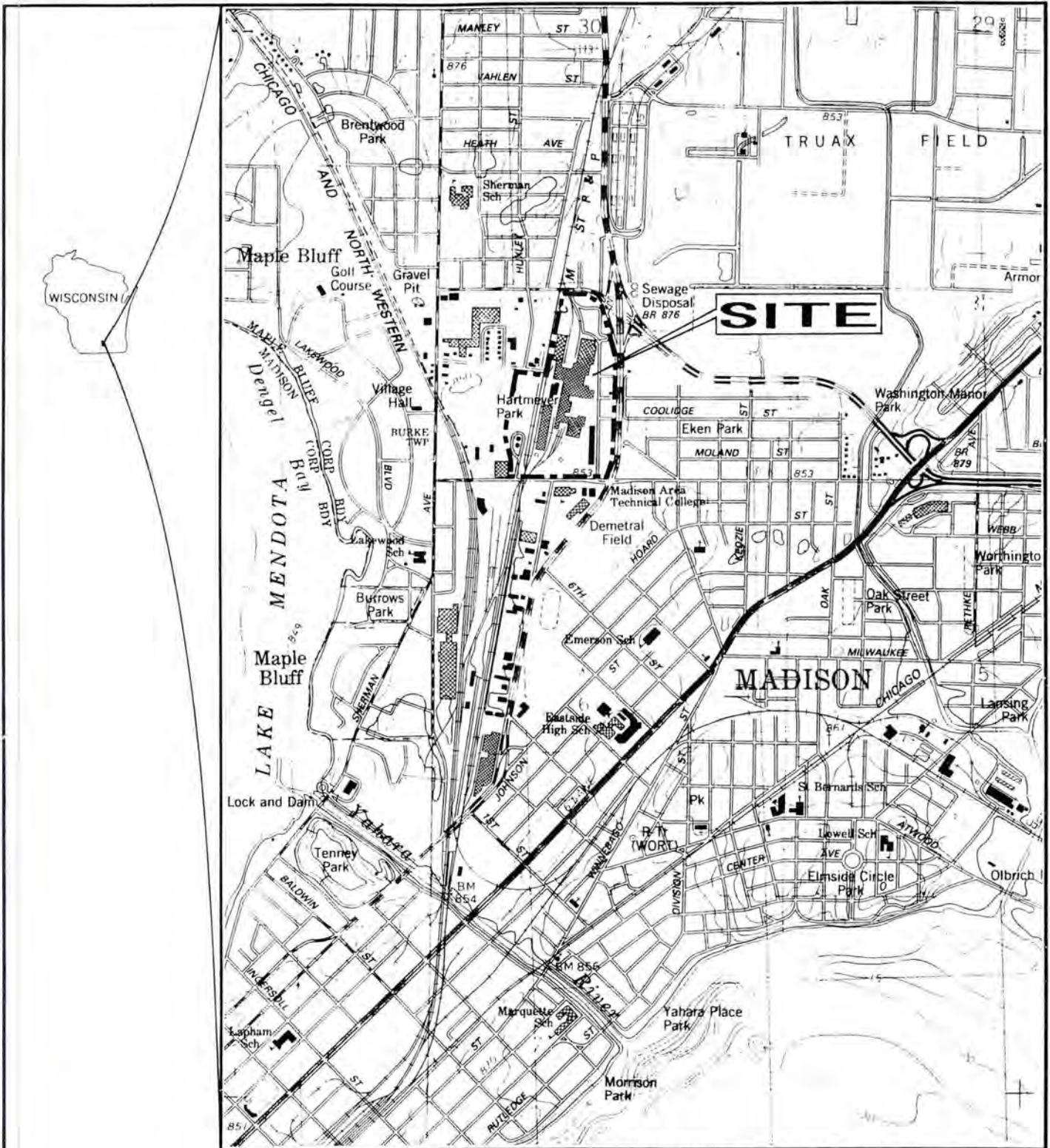
  
Patrick McCutcheon 8/30/06  
Date

  
Stephen Ales 8/30/06  
Date

  
Michael Schmoller 8/30/06  
Date

w/ GWEIS listing





SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE, MADISON EAST, WI, 1983

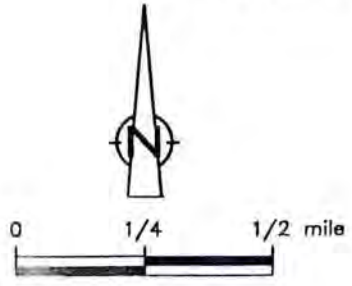
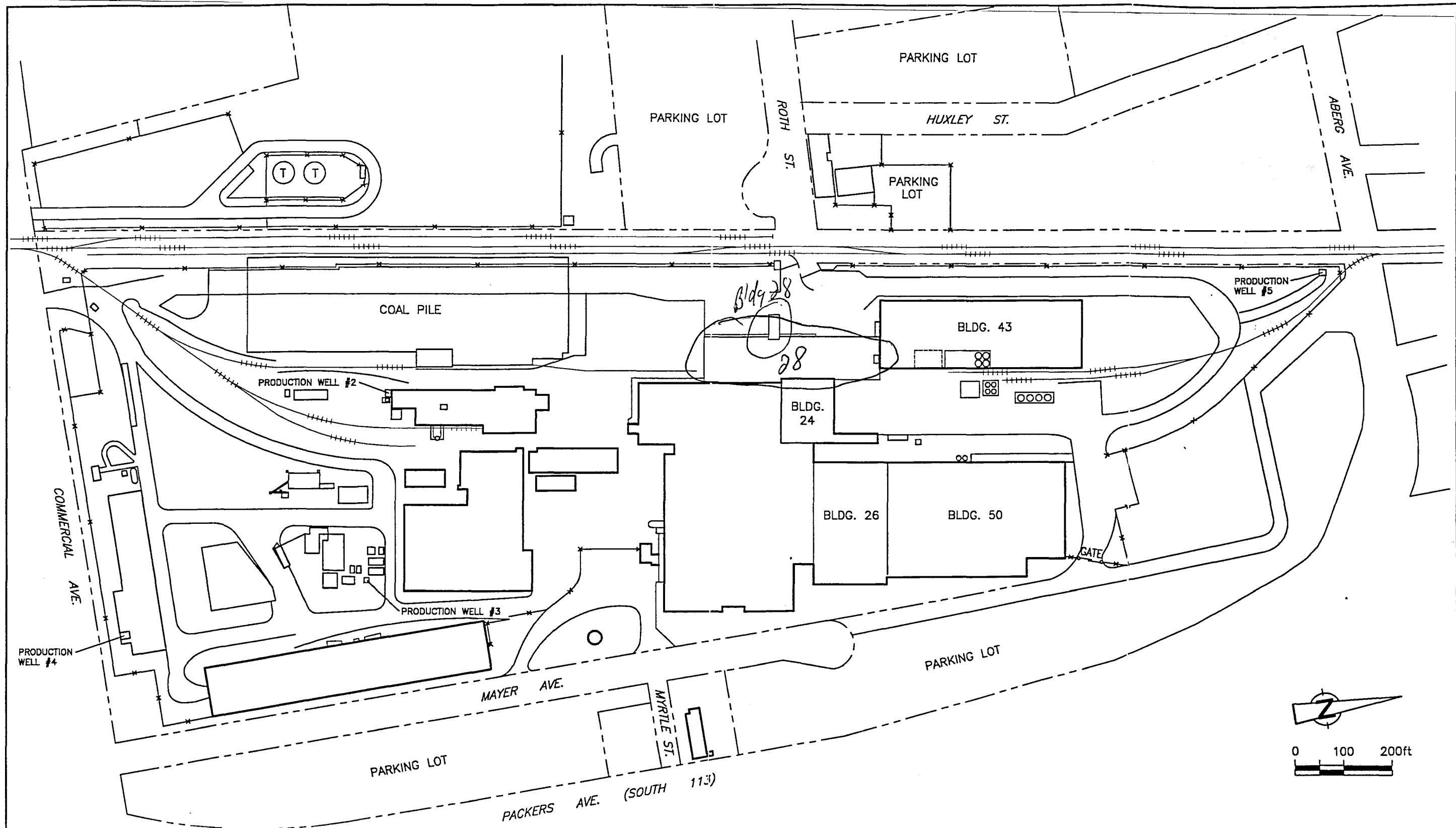


figure 1  
**SITE LOCATION**  
**OSCAR MAYER FACILITY**  
*Madison, Wisconsin*

**CRA**

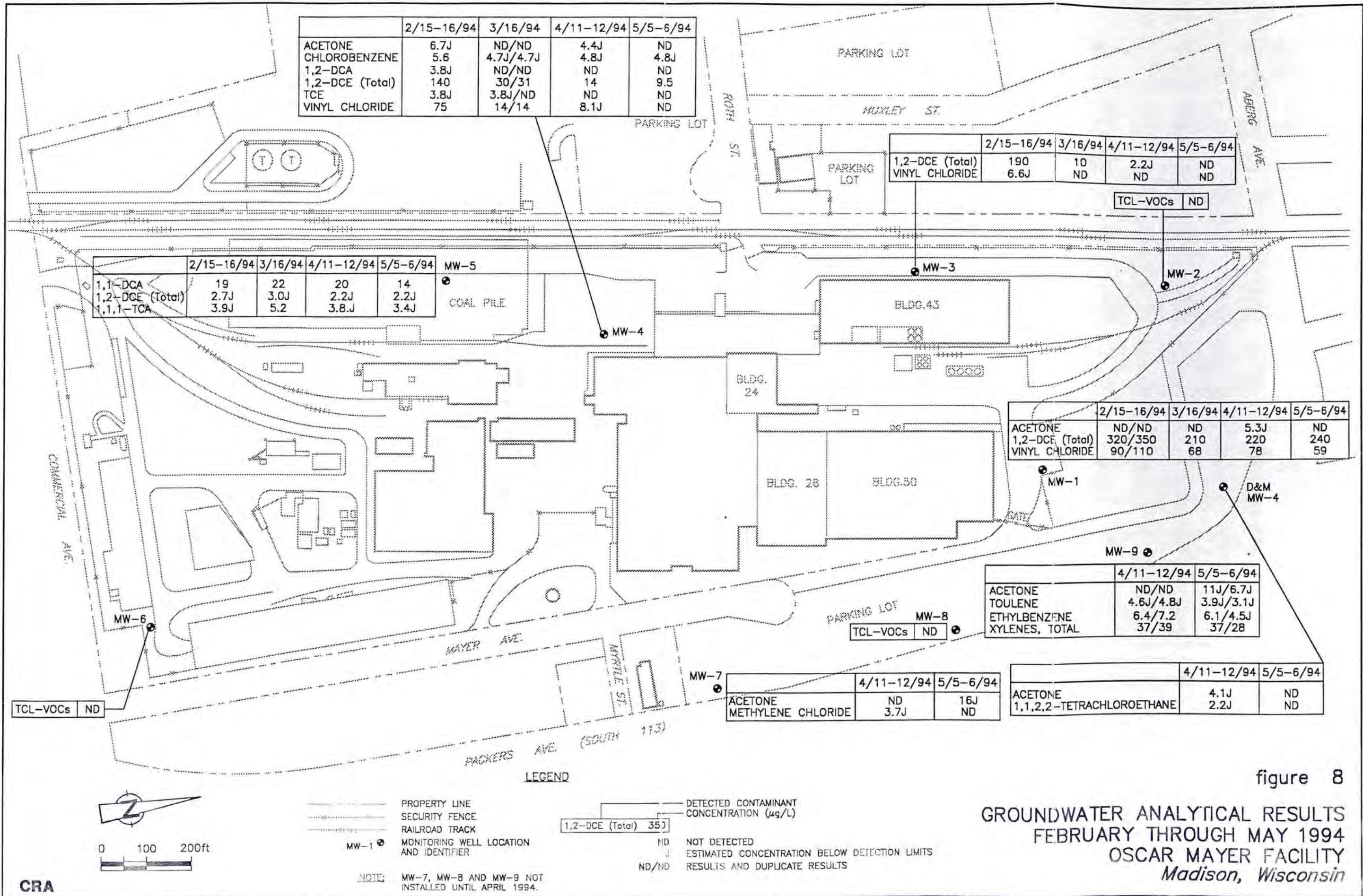




- LEGEND**
- — — — — PROPERTY LINE
  - \* — \* — SECURITY FENCE
  - + + + + — RAILROAD TRACK

figure 2  
 SITE PLAN  
 OSCAR MAYER FACILITY  
 Madison, Wisconsin





	2/15-16/94	3/16/94	4/11-12/94	5/5-6/94
ACETONE	6.7J	ND/ND	4.4J	ND
CHLOROBENZENE	5.6	4.7J/4.7J	4.8J	4.8J
1,2-DCA	3.8J	ND/ND	ND	ND
1,2-DCE (Total)	140	30/31	14	9.5
TCE	3.8J	3.8J/ND	ND	ND
VINYL CHLORIDE	75	14/14	8.1J	ND

	2/15-16/94	3/16/94	4/11-12/94	5/5-6/94
1,2-DCE (Total)	190	10	2.2J	ND
VINYL CHLORIDE	6.6J	ND	ND	ND

TCL-VOCs ND

	2/15-16/94	3/16/94	4/11-12/94	5/5-6/94
1,1-DCA	19	22	20	14
1,2-DCE (Total)	2.7J	3.0J	2.2J	2.2J
1,1,1-TCA	3.9J	5.2	3.8.J	3.4J

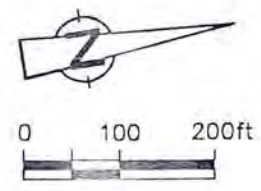
	2/15-16/94	3/16/94	4/11-12/94	5/5-6/94
ACETONE	ND/ND	ND	5.3J	ND
1,2-DCE (Total)	320/350	210	220	240
VINYL CHLORIDE	90/110	68	78	59

	4/11-12/94	5/5-6/94
ACETONE	ND/ND	11J/6.7J
TOULENE	4.6J/4.8J	3.9J/3.1J
ETHYLBENZENE	6.4/7.2	6.1/4.5J
XYLENES, TOTAL	37/39	37/28

	4/11-12/94	5/5-6/94
ACETONE	ND	16J
METHYLENE CHLORIDE	3.7J	ND

	4/11-12/94	5/5-6/94
ACETONE	4.1J	ND
1,1,2,2-TETRACHLOROETHANE	2.2J	ND

LEGEND



- PROPERTY LINE
- - - SECURITY FENCE
- RAILROAD TRACK
- MW-1 ● MONITORING WELL LOCATION AND IDENTIFIER

- 1,2-DCE (Total) 35J
- ND NOT DETECTED
- J ESTIMATED CONCENTRATION BELOW DETECTION LIMITS
- ND/ND RESULTS AND DUPLICATE RESULTS

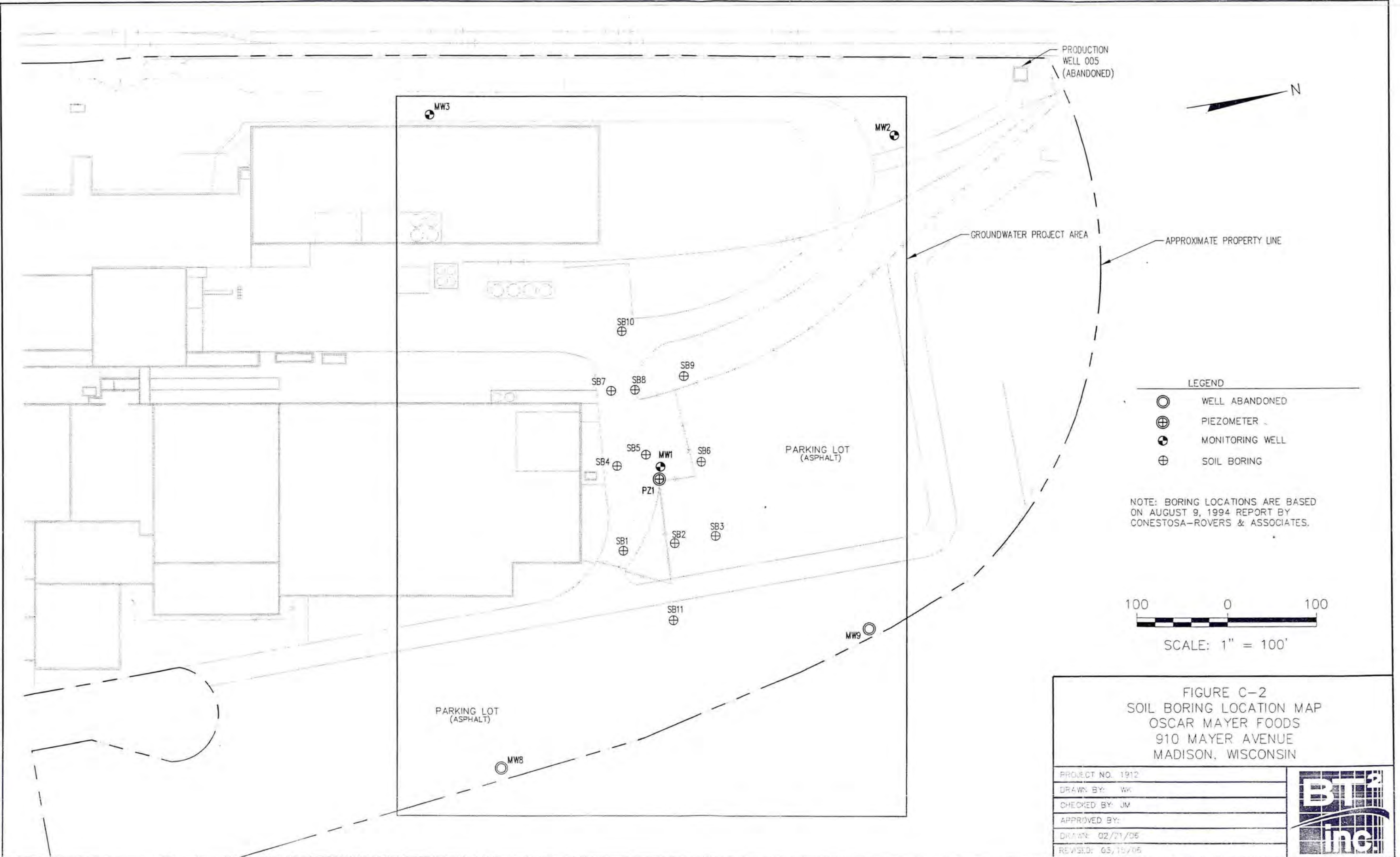
NOTE: MW-7, MW-8 AND MW-9 NOT INSTALLED UNTIL APRIL 1994.

CRA

figure 8  
GROUNDWATER ANALYTICAL RESULTS  
FEBRUARY THROUGH MAY 1994  
OSCAR MAYER FACILITY  
Madison, Wisconsin



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LEGEND

- ● WELL ABANDONED
- ⊕ PIEZOMETER
- ⊕ ● MONITORING WELL
- ⊕ SOIL BORING

NOTE: BORING LOCATIONS ARE BASED ON AUGUST 9, 1994 REPORT BY CONESTOSA-ROVERS & ASSOCIATES.

100 0 100

SCALE: 1" = 100'

FIGURE C-2  
SOIL BORING LOCATION MAP  
OSCAR MAYER FOODS  
910 MAYER AVENUE  
MADISON, WISCONSIN

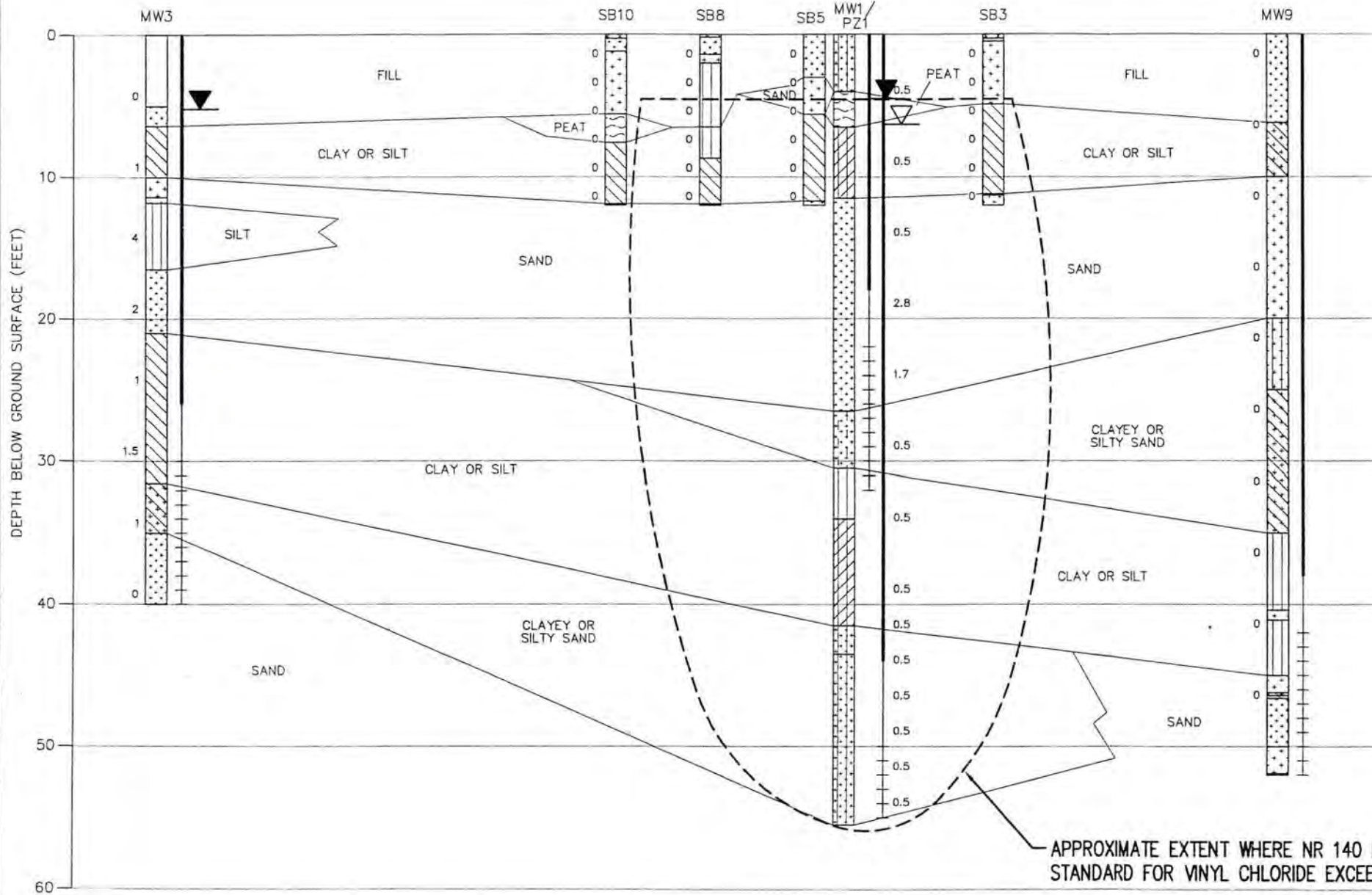
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APPROVED BY:
DRAWN: 02/21/06
REVISED: 05/15/06





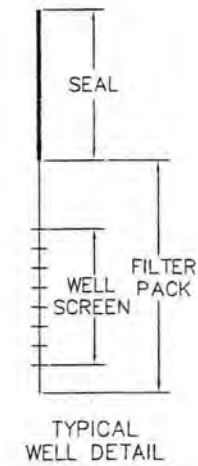
A  
(WEST)

A'  
(EAST)



LEGEND

- BLIND DRILLED, NO SAMPLES COLLECTED.
- FILL.
- SAND, WELL GRADED, LITTLE OR NO FINES (SW).
- SAND, POORLY GRADED, LITTLE OR NO FINES (SP).
- SILT (ML).
- LEAN CLAY (CL).
- SILTY SAND (SM).
- CLAYEY SAND (SC).
- SILTY CLAY (CL-ML).
- PEAT (PT).
- 25 PHOTO-IONIZATION DETECTOR READING (ppm)
- GEOLOGIC CONTACT
- WATER LEVEL AT MW1 AND MW3 ON APRIL 14, 2005
- WATER LEVEL AT PZ1 ON APRIL 14, 2005



HORIZONTAL SCALE: 1" = 100'  
 VERTICAL SCALE: 1" = 10'  
 VERTICAL EXAGGERATION = 10X

APPROXIMATE EXTENT WHERE NR 140 ENFORCEMENT STANDARD FOR VINYL CHLORIDE EXCEEDED

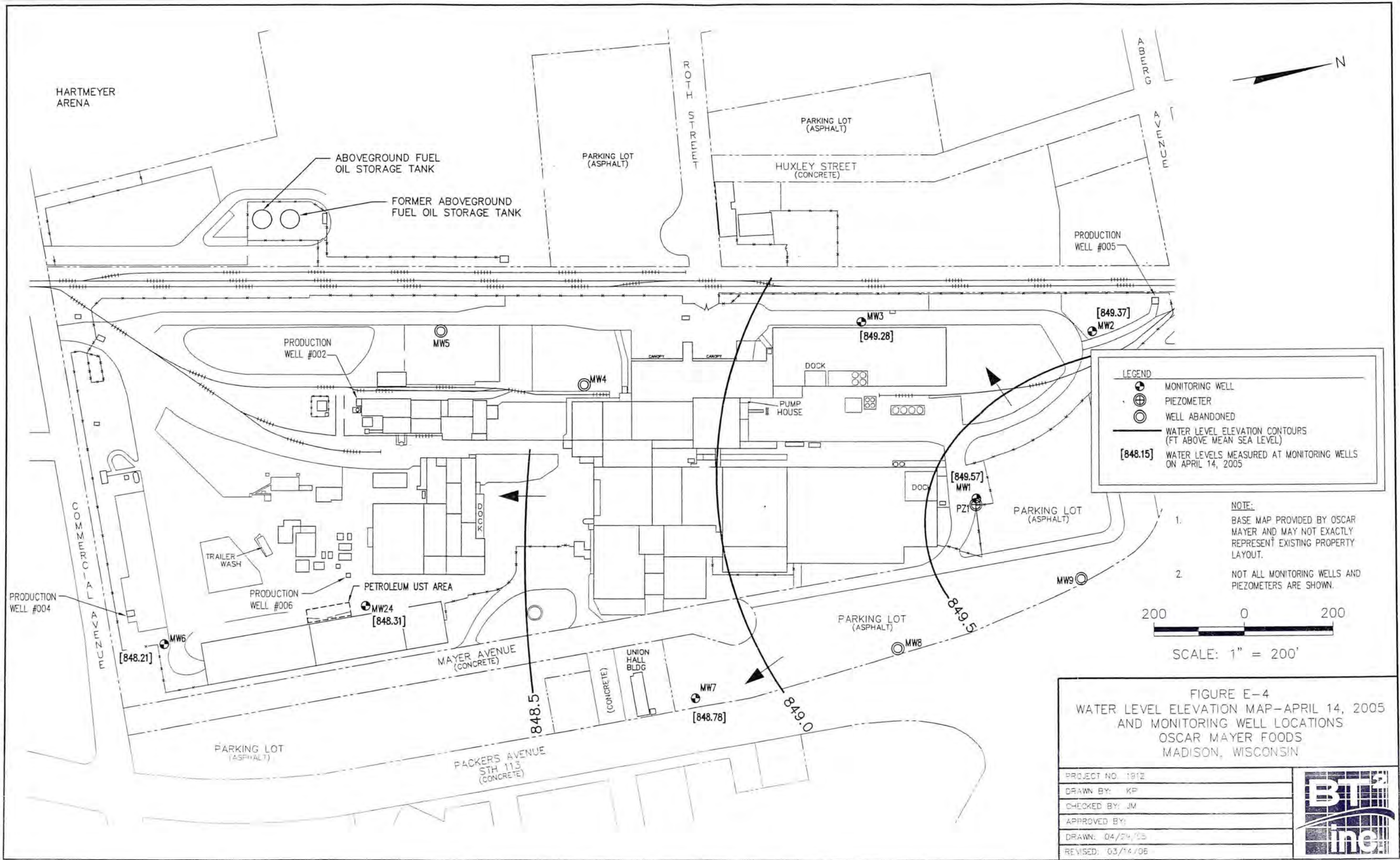
FIGURE C-5  
 GEOLOGIC CROSS SECTION A-A'  
 OSCAR MAYER FOODS  
 910 MAYER AVENUE  
 MADISON, WISCONSIN

PROJECT NO:	1912
DRAWN BY:	WK
CHECKED BY:	JM
APPROVED BY:	
DRAWN:	02/27/05
REVISED:	05/10/06



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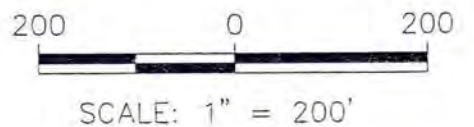




**LEGEND**

- MONITORING WELL
- PIEZOMETER
- WELL ABANDONED
- WATER LEVEL ELEVATION CONTOURS (FT ABOVE MEAN SEA LEVEL)
- [848.15]** WATER LEVELS MEASURED AT MONITORING WELLS ON APRIL 14, 2005

- NOTE:**
1. BASE MAP PROVIDED BY OSCAR MAYER AND MAY NOT EXACTLY REPRESENT EXISTING PROPERTY LAYOUT.
  2. NOT ALL MONITORING WELLS AND PIEZOMETERS ARE SHOWN.

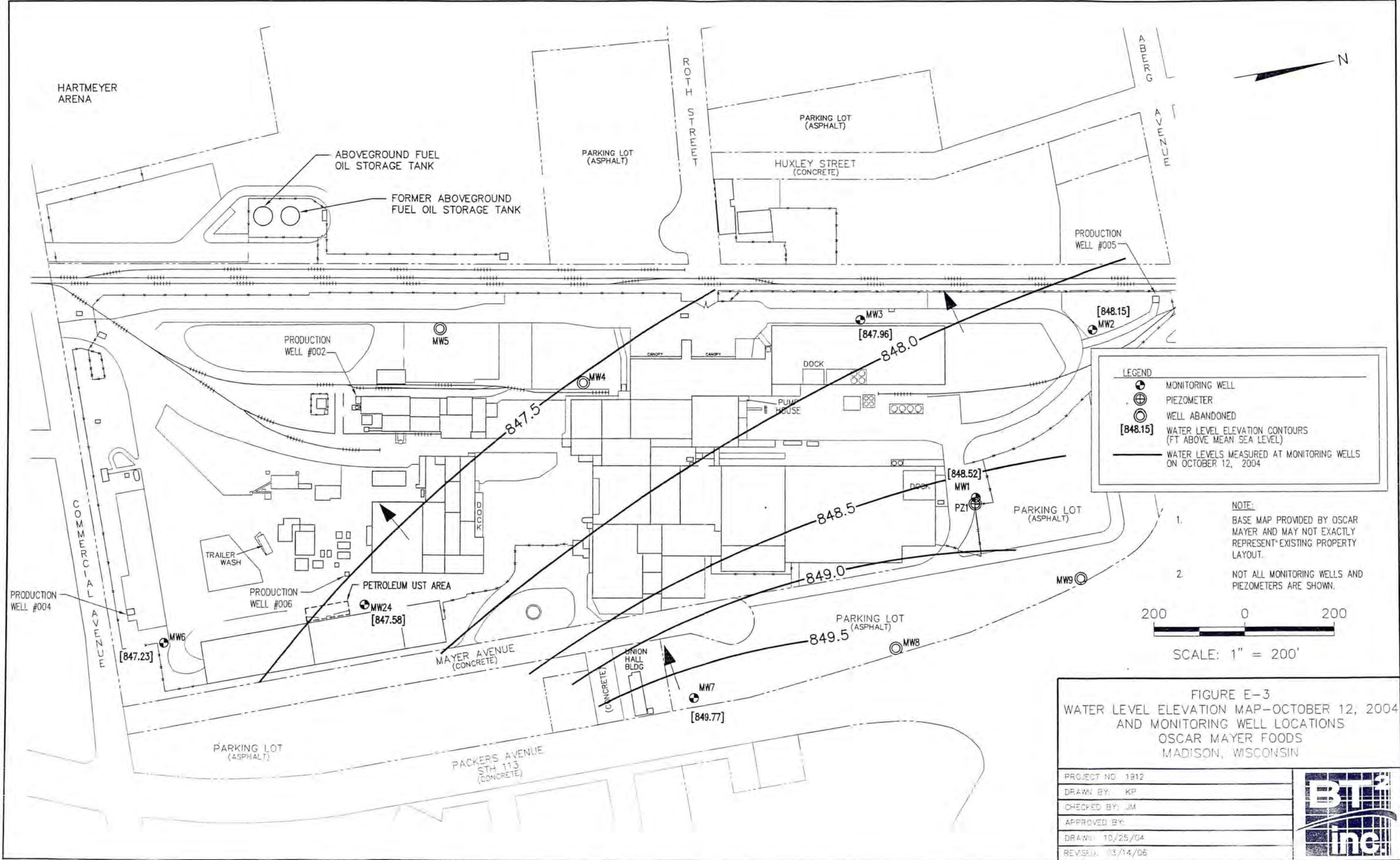


**FIGURE E-4**  
**WATER LEVEL ELEVATION MAP-APRIL 14, 2005**  
**AND MONITORING WELL LOCATIONS**  
**OSCAR MAYER FOODS**  
**MADISON, WISCONSIN**

PROJECT NO. 1912	
DRAWN BY: KP	
CHECKED BY: JM	
APPROVED BY:	
DRAWN: 04/24/05	
REVISED: 03/14/06	

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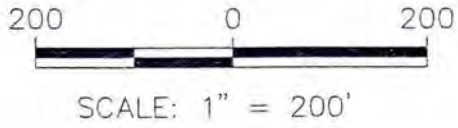




**LEGEND**

- MONITORING WELL
- PIEZOMETER
- WELL ABANDONED
- [848.15] WATER LEVEL ELEVATION CONTOURS (FT ABOVE MEAN SEA LEVEL)
- WATER LEVELS MEASURED AT MONITORING WELLS ON OCTOBER 12, 2004

- NOTE:**
1. BASE MAP PROVIDED BY OSCAR MAYER AND MAY NOT EXACTLY REPRESENT EXISTING PROPERTY LAYOUT.
  2. NOT ALL MONITORING WELLS AND PIEZOMETERS ARE SHOWN.



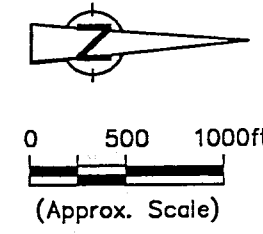
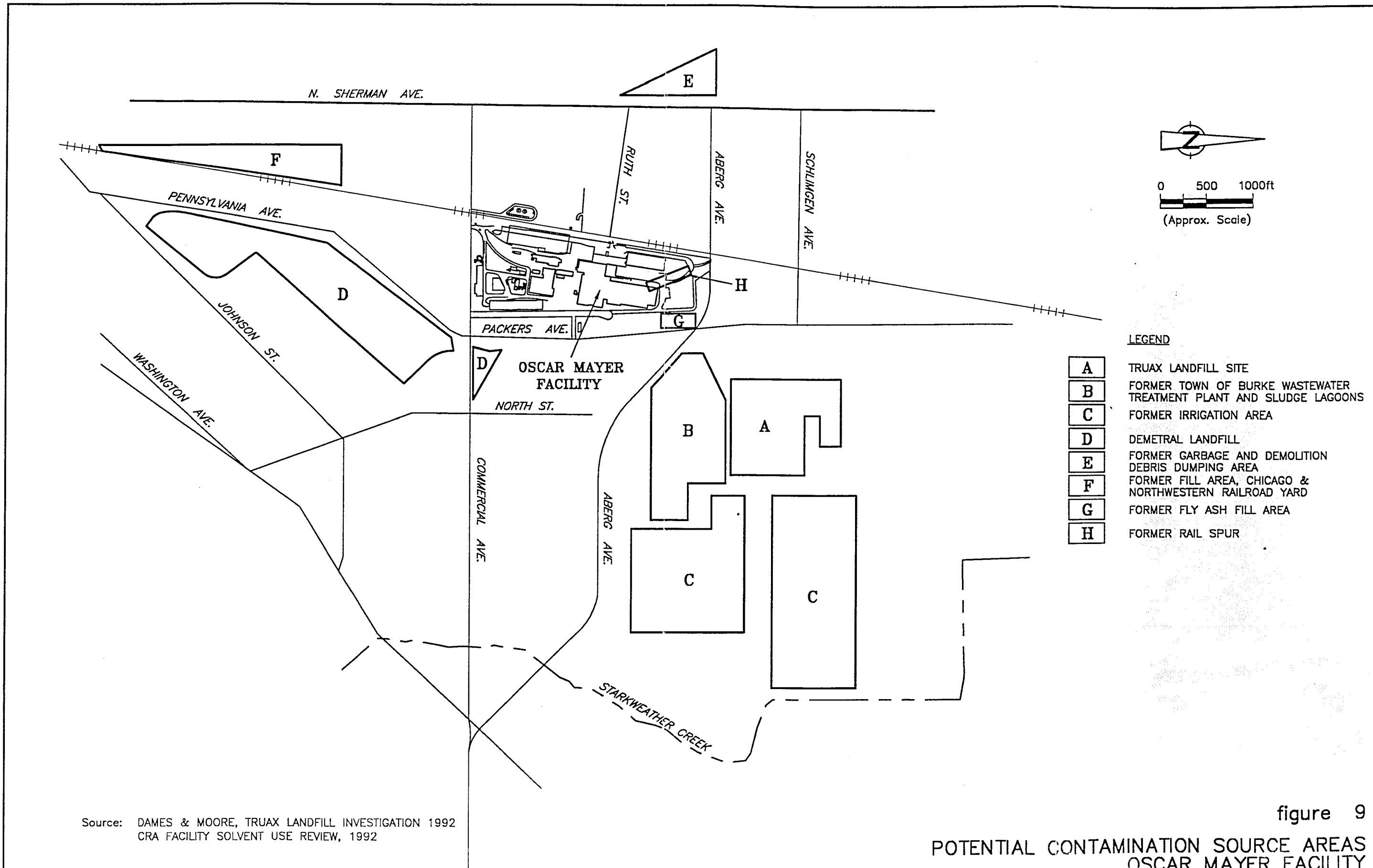
**FIGURE E-3**  
**WATER LEVEL ELEVATION MAP-OCTOBER 12, 2004**  
**AND MONITORING WELL LOCATIONS**  
**OSCAR MAYER FOODS**  
**MADISON, WISCONSIN**

PROJECT NO.	1912
DRAWN BY:	KP
CHECKED BY:	JM
APPROVED BY:	
DRAWN:	10/25/04
REVISED:	03/14/06



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**LEGEND**

- A** TRUAX LANDFILL SITE
- B** FORMER TOWN OF BURKE WASTEWATER TREATMENT PLANT AND SLUDGE LAGOONS
- C** FORMER IRRIGATION AREA
- D** DEMETRAL LANDFILL
- E** FORMER GARBAGE AND DEMOLITION DEBRIS DUMPING AREA
- F** FORMER FILL AREA, CHICAGO & NORTHWESTERN RAILROAD YARD
- G** FORMER FLY ASH FILL AREA
- H** FORMER RAIL SPUR

Source: DAMES & MOORE, TRUAX LANDFILL INVESTIGATION 1992  
 CRA FACILITY SOLVENT USE REVIEW, 1992

figure 9  
 POTENTIAL CONTAMINATION SOURCE AREAS  
 OSCAR MAYER FACILITY  
 Madison, Wisconsin

**CRA**



Table C-1

SUMMARY OF DETECTED CONSTITUENTS IN SOILS  
OSCAR MAYER FOODS CORPORATION  
MADISON, WISCONSIN  
JUNE 29 AND 30, 1994

Analyte	Concentrations in $\mu\text{g}/\text{kg}$ <sup>1</sup>						
	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7
Methylene Chloride	ND(5.0)	ND(5.0) <sup>2</sup>	ND(5.3)	ND(5.0)	ND(5.0)UJ <sup>3</sup>	ND(5.0)UJ	ND(5.0)
Acetone	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)UJ	ND(50)UJ	ND(50)
Carbon disulfide	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)UJ	ND(5.0)UJ	ND(5.0)
2-Butanone	ND(50)	3.3J <sup>4</sup>	2.8J	ND(50)	2.4J	ND(5.0)UJ	4.5J
Trichloroethene	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)UJ	2.7J	ND(5.0)
Toluene	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)UJ	ND(5.0)UJ	ND(5.0)
Ethylbenzene	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)UJ	ND(5.0)UJ	ND(5.0)
Xylenes, Total	ND(5.0)	ND(5.0)	11	ND(5.0)	ND(5.0)UJ	ND(5.0)UJ	ND(5.0)

*Conestoga-Rovers (1994 b)*



Table C-1 (continued)

SUMMARY OF DETECTED CONSTITUENTS IN SOILS  
OSCAR MAYER FOODS CORPORATION  
MADISON, WISCONSIN  
JUNE 29 AND 30, 1994

Analyte	Concentrations in $\mu\text{g}/\text{kg}$					Rinsate Blank ( $\mu\text{g}/\text{L}$ ) <sup>5</sup>
	SB-8	SB-9	SB-10	SB-11		
Methylene Chloride	ND(8.7)UJ	ND(5.0)	ND(5.0)UJ	ND(5.0)UJ		2.6J
Acetone	ND(50)UJ	ND(50)	ND(50)UJ	ND(190)UJ		13J
Carbon disulfide	2.3J	ND(5.0)	ND(5.0)UJ	ND(5.0)UJ		ND(5.0)
2-Butanone	3.2J	ND(50)	16J	59J		ND(50)
Trichloroethene	ND(5.0)UJ	ND(5.0)	ND(5.0)UJ	ND(5.0)UJ		ND(5.0)
Toluene	3.1J	ND(5.0)	ND(5.0)UJ	ND(5.0)UJ		ND(5.0)
Ethylbenzene	2.2J	ND(5.0)	ND(5.0)UJ	ND(5.0)UJ		ND(5.0)
Xylenes, Total	5.7J	ND(5.0)	ND(5.0)UJ	ND(5.0)UJ		ND(5.0)

<sup>1</sup>  $\mu\text{g}/\text{kg}$  - microgram per kilogram

<sup>2</sup> ND(5.0) - Not detected at detection limit shown in parentheses

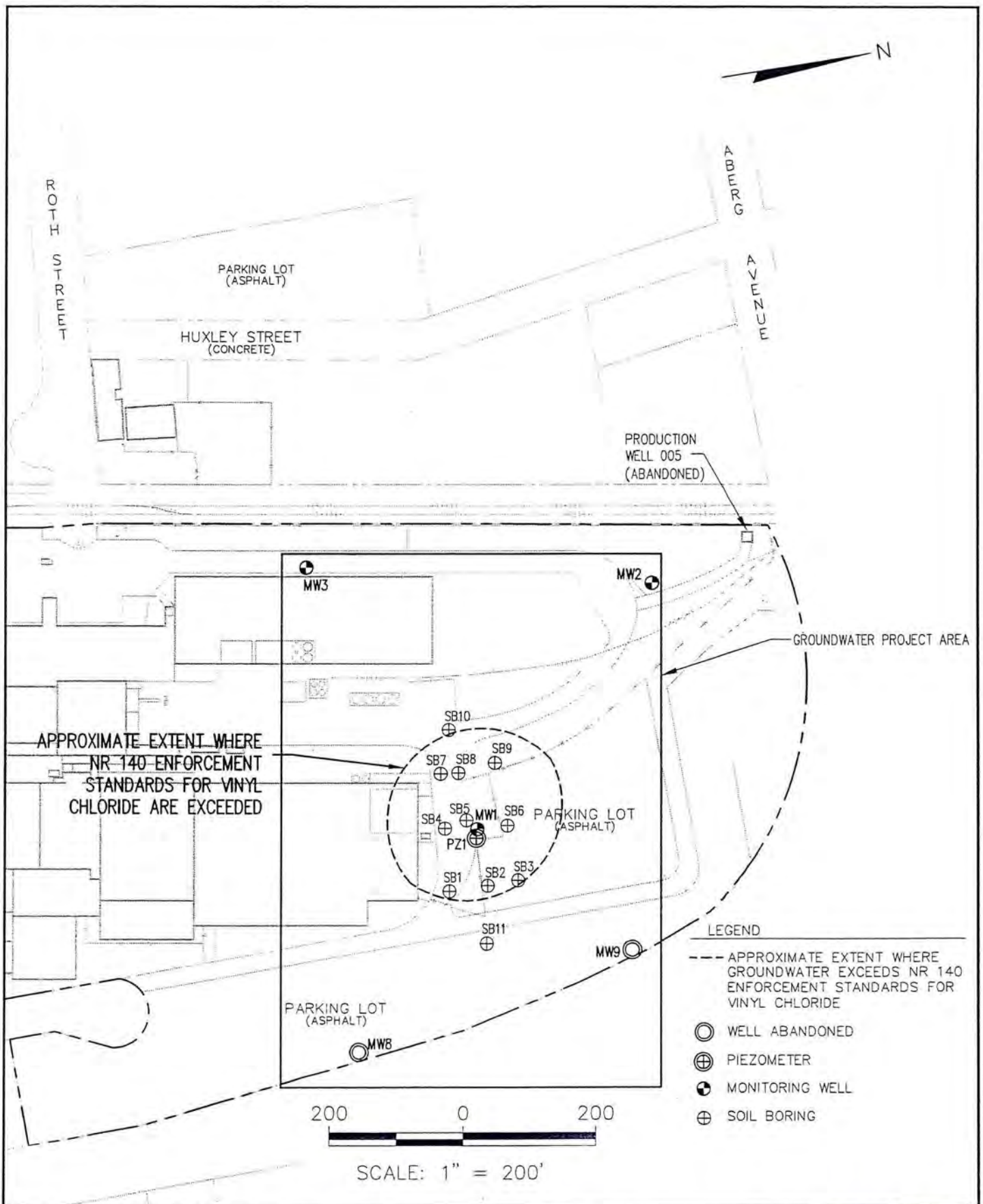
<sup>3</sup> ND(5.0)UJ - Qualified data; outside surrogate recovery criteria

<sup>4</sup> J - Estimated value below quantitation limit

<sup>5</sup>  $\mu\text{g}/\text{L}$  - microgram per liter

*Conestoga - Rivers (1994b)*





PROJECT NO. 1912
DRAWN BY: WK
CHECKED BY: JM
APPROVED BY:
DRAWN: 02/21/06
REVISED: 03/15/06

**FIGURE E-2**  
**GROUNDWATER CONTAMINATION EXTENT MAP**  
**OSCAR MAYER FOODS**  
**910 MAYER AVENUE**  
**MADISON, WISCONSIN**





the  
 is waiting  
 in the area

17 66

**MADISON, WI**

**TYPE OF CONTACT**

FIELD INSPECT

CONFERENCE

**FACILITY STATUS**

TREATMENT

STORAGE

DISPOSAL

TRANSPORTER (1)

GENERATOR-LAND

**REGULATORY STATUS**

THIS IS A C...

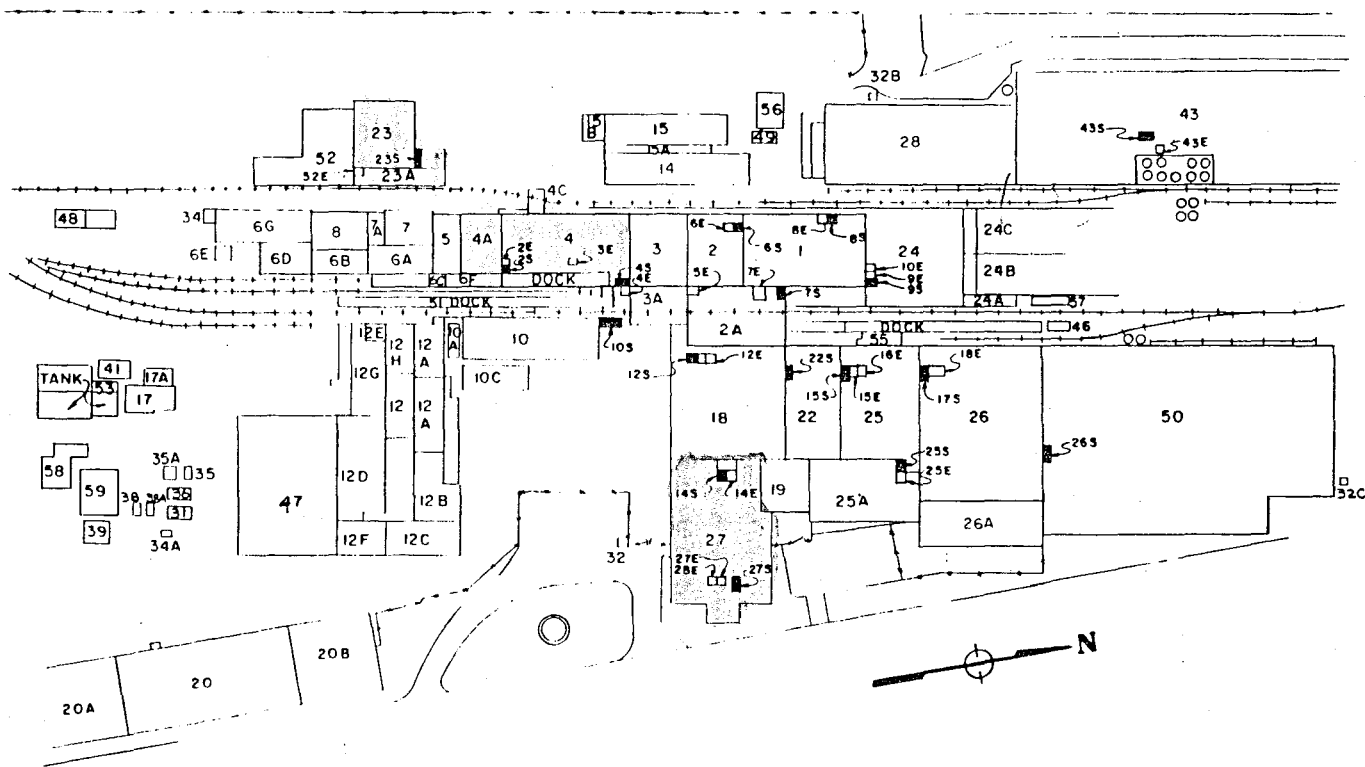
**EVALUATION**

1. COMPLIANCE

2. SAMPLING

3. RECORD REVIEW

4. GROUND MONITORING



**COMMENTS:**

NO.	DESCRIPTION	DATE
1	EXP. TYPZ COCS	
1	X	11
1	X	11

# OSCAR MAYER & CO. BUILDINGS

- |                               |                                |                                 |
|-------------------------------|--------------------------------|---------------------------------|
| 1. COOLER BUILDING            | 15. STITCHING ROOM & JEEP SHOP | 35. TRANSFORMER BUILDING        |
| 2. COOLER BUILDING            | 15A. OILER ROOM                | 35A. SUB STATION #28            |
| 2A. COOLER BUILDING ADDITIONS | 15B. BARREL WASHER             | 36. PAINT SHOP                  |
| 3. COOLER BUILDING            | 17. SEWAGE TREATMENT PLANT     | 37. STORAGE                     |
| 3A. BEEF COOLER BUILDING      | 17A. SEWAGE TREATMENT PLANT    | 38. STORAGE SHED                |
| 4. STORAGE                    | 18. MANUFACTURING BUILDING     | 38A. STORAGE                    |
| 4A. OLD INEDIBLE              | 19. SMOKEHOUSES                | 39. RESEARCH BUILDING           |
| 4C. ROSIN ROOM                | 20. GARAGE                     | 39A. STORAGE                    |
| 5. ENGINE ROOM NO. 1          | 20A. GARAGE                    | 41. GREASE RECOVERY             |
| 6A. GENERATING PLANT          | 20B. MACHINE SHOP              | 43. SPICE & PLASTICS            |
| 6B. BOILER HOUSE NO.4         | 22. MANUFACTURING BUILDING     | 45. SEWAGE PUMP STATION         |
| 6C. POWER PLANT OFFICE        | 23. NEW INEDIBLE               | 46. CORNSYRUP STORAGE(EXISTING) |







TABLE 1 - VOC CONCENTRATIONS IN SOIL SAMPLES (uG/KG)

<u>Parameter</u>	<u>Sample/Depth</u>									
	<u>1-2 3-4'</u>	<u>1-5 8-9.5'</u>	<u>2-3 5-6'</u>	<u>2-5 9.5-10'</u>	<u>3-3 5.5-6'</u>	<u>3-6 11.5-12'</u>	<u>4-4 7.5-8.0'</u>	<u>5-1 1.5-2.0'</u>	<u>5-3 5.5-6.0'</u>	<u>5-4 7.5-8.0'</u>
Benzene	4.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.6
Toluene	1.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.0	5.5
Xylenes	130	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15
Methylene Chloride	7.8	< 1.0	< 1.0	< 1.0	2.1	2.6	< 1.0	< 1.0	3.8	3.3
Vinyl Chloride	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2- Dichloroethylene	< 1.0	< 1.0	< 1.0	< 1.0	74	< 1.0	< 1.0	120	< 1.0	28
Trichloroethylene	1.4	< 1.0	< 1.0	< 1.0	33	< 1.0	< 1.0	120	7.5	1.4
Tetrachloroethylene	400	1.4	< 1.0	< 1.0	76	< 1.0	< 1.0	610	< 1.0	25





AREA B-5 EXCAVATION



REMEDIATION PAD



TABLE 1

HISTORIC TCE AND PCE LEVELS IN MADISON PLANT PRODUCTION WELLS  
OSCAR MAYER FOODS CORPORATION  
MADISON, WISCONSIN

Date	#2 Well		#3 Well		#4 Well		#5 Well		Reservoir	
	TCE <sup>1</sup>	PCE <sup>2</sup>	TCE	PCE	TCE	PCE	TCE	PCE	TCE	PCE
07/30/86	4.6	BDL <sup>3</sup>	NT <sup>4</sup>	NT	NT	NT	2.1	10	NT	NT
10/21/87	2.4	BDL	13.5	0.01	BDL	BDL	1.37	6.56	NT	NT
12/08/87	4.7	BDL	15.0	1.6	NT	NT	2.6	18	NT	NT
05/16/89	1.5	BDL	NT	NT	NT	NT	NT	NT	NT	NT
08/28/89	1.8	BDL	12.0	1.3	BDL	BDL	3.0	12	NT	NT
12/04/89	2.4	BDL	17.0	1.2	BDL	BDL	2.1	11	NT	NT
03/16/90	4.4	BDL	13.0	1.7	1.9	BDL	3.6	14	4.1	2.4
06/11/90	NT	NT	13.0	1.6	0.64	BDL	2.4	14	3.0	2.4
07/19/90	NT	NT	16.4	0.71	1.89	BDL	5.64	37.9	4.15	2.56
06/10/91	2.04	BDL	10.5	2.43	BDL	BDL	3.05	8.85	2.64	1.73
09/09/91	2.2	BDL	8.8	2.5	BDL	BDL	3.2	7.6	2.7	1.2
12/10/91	2.8	BDL	9.8	1.6	1.0	BDL	3.9	9.1	2.8	2.0
03/30/92	3.3	BDL	6.9	1.3	BDL	BDL	3.5	7.9	2.5	1.2
07/01/92	2.2	BDL	7.7	1.3	BDL	BDL	2.7	5.2	2.4	1.0
12/17/92	2.2	BDL	10.0	1.8	BDL	BDL	4.0	6.6	4.1	1.3
03/16/93	BDL	BDL	5.8	1.1	BDL	BDL	2.0	BDL	NT	NT
06/30/93	2.3	BDL	6.3	1.2	BDL	BDL	2.3	3.1	2.0	BDL
10/11/93	1.7	1.6	4.7	1.7	NT	NT	2	3.4	1.9	1.6
12/30/93	2.5	1.5	5.6	1.6	BDL	BDL	2.4	3.6	2	1.6

<sup>1</sup> TCE - trichloroethene (ppb)

<sup>2</sup> PCE - tetrachloroethene (ppb)

<sup>3</sup> BDL - Below Detection Limit

<sup>4</sup> NT - No Test

Wisconsin Enforcement Standard for trichloroethene = 5.0 ppb

Wisconsin Preventive Action Limit for trichloroethene = 0.18 ppb

Wisconsin Enforcement Standard for tetrachloroethene = 1.0 ppb

Wisconsin Preventive Action Limit for tetrachloroethene = 0.1 ppb

License: 4065

OSCAR MAYER FOODS CORP

FID: 113004650

South Central Region

County: Dane

```

*****
Point ID  Point Name      WUWN      Point Type      Point Status      Gradient      Enf Std
  205      OM-005      BE403      Private Well-NonPotable      Active
*****

```

\*\*\*Parm: 34475 TETRACHLOROETHYLENE IN WHOLE WATER SAMPLE (UG/L)

Indicator PAL: .5 Enf Std: 5

Sample Date	Dup #	Analysis Method	Result	Qualifier	Units	LOD	LOQ	Rep Lim	QC1	QC2	QC3
07/19/1990	1	NOT REPORTED	1.7 (P)		ug/L						
10/21/1991	1	NOT REPORTED	6.7 (E)		ug/L						
12/10/1991	1	NOT REPORTED	8.5 (E)		ug/L						
03/24/1992	1	NOT REPORTED	7 (E)		ug/L						
06/24/1992	1	NOT REPORTED	6.2 (E)		ug/L						
09/21/1992	1	NOT REPORTED	5.8 (E)		ug/L						
12/07/1992	1	NOT REPORTED	4.5 (P)		ug/L						
01/19/1993	1	NOT REPORTED	6.7 (E)		ug/L			0.03			
03/09/1993	1	NOT REPORTED	4.7 (P)		ug/L						
06/09/1993	1	NOT REPORTED	6.2 (E)		ug/L						
09/22/1993	1	NOT REPORTED	5.2 (E)		ug/L						
12/16/1993	1	NOT REPORTED	4.6 (P)		ug/L						
06/14/1994	1	NOT REPORTED	2 (P)		ug/L						
09/28/2000	1	SW846 8260	3.4 (P)		ug/L	0.41	1.3	0.41	M	M	M
06/26/2001	1	EPA 524.2	1.1 (P)		ug/L	0.20	0.74		M	M	M
09/25/2001	1	SW846 8260B	2.5 (P)		ug/L	0.41	1.3	0.41	M	M	M
09/26/2001	1	EPA 524.2	2.6 (P)		ug/L	.20	.74		M	M	M
12/11/2001	1	EPA 524.2	2.3 (P)		ug/L	.20	.74		M	M	M
04/17/2002	1	EPA 524.2	3.7 (P)		ug/L	0.2	0.74		M	M	M
06/25/2002	1	EPA 524.2	5 (P)		ug/L	0.2	0.74		M	M	M
09/19/2002	1	EPA 524.2	4.2 (P)		ug/L	0.34	1.1		M	M	M
12/10/2002	1	EPA 524.2	4.9 (P)		ug/L	0.68	2.2		M	M	M



**APPENDIX H**

**Freight Elevator #43 Hydraulic Oil Release  
No Further Action Request**



*New Oscar Mayer Logo*

## Environmental Engineering and Science

March 3, 1999

Ms. Marilyn Jahnke  
WDNR - South Central Region  
3911 Fish Hatchery Road  
Fitchburg, WI 53711



SUBJECT: Freight Elevator #43 Hydraulic Oil Release  
Non-Emergency Immediate Action Report and  
**Request for No Further Action**  
Oscar Mayer Foods Facility  
910 Mayer Avenue, Madison, WI  
BT<sup>2</sup> Project #1285  
**WDNR UID#: None Assigned**

Dear Ms. Jahnke:

This letter with attachments describes the results of a non-emergency immediate action conducted under NR 708.05(3), following the release of hydraulic oil from freight elevator #43, located at the Oscar Mayer Foods processing plant located at 910 Mayer Avenue in Madison, Wisconsin (**Figure 1**). An estimated 46 percent of approximately 140 gallons of hydraulic oil was recovered during response actions to an oil release. It is unlikely that residual oil-impacted soil and groundwater beneath Building 43 pose a threat to the environment or human health. Therefore, we are requesting a written determination of no further action by the Wisconsin Department of Natural Resources (WDNR) under NR 708.09(1). Consistent with NR 749, a \$250 review fee check is enclosed.

The following describes the release, oil recovery and remediation efforts, and conclusions of the action taken place to reduce the environmental effects of the release.

### Release Notification

On October 22, 1998, the freight elevator #43 malfunctioned and a release of hydraulic oil occurred. Mr. Jim Laarman, Oscar Mayer Senior Plant Engineer, notified the WDNR of the release by calling the WDNR Emergency Hotline number on October 22, 1998. The emergency hotline personnel indicated to Mr. Laarman that they would be notifying Mr. Ted Amman of the WDNR South Central Region office of the release. Mr. Laarman later made a follow-up call to Mr. Ted Amman and left a voice mail message describing the release (Mr. Laarman, oral communication, February 2, 1999).

### Release Description

Building 43 is located near the northwest corner of the Oscar Mayer food processing plant, and the freight elevator is located near the east side of Building 43 (**Figure 2**). The elevator room and hydraulic cylinder are shown on **Photos 1 and 2** (see attached).

The release occurred near the base of a hydraulic steel cylinder beneath the elevator. As shown in **Figure 3**, the hydraulic cylinder was located within 15-inch inner-diameter steel casing that extended



approximately 23.5 feet below ground surface (bgs). The annulus between the casing and the cylinder was filled with sand.

The volume of the oil reservoir and piping leading to the hydraulic cylinder was approximately 140 gallons. Following the malfunction of the elevator and release of the oil, the reservoir was empty. Therefore the maximum estimated volume of oil that was released was approximately 140 gallons.

### **Oil Recovery and Remediation**

During the removal and replacement of the elevator system, Oscar Mayer personnel took action to recover the lost oil. Between November 4 and November 11, 1998, BT<sup>2</sup> personnel made visits to the freight elevator site and documented the amount of oil recovered. Prior to the removal of the hydraulic cylinder, approximately 60 gallons of oil was removed by Dischler Services. The oil was contained in steel drums, and was disposed of by Jacobus Environmental Services. The cylinder removed from the casing was approximately 15 feet long. According to Mr. Jim Ness (oral communication, November 11, 1998), elevator maintenance worker for Oscar Mayer, a 1/4-inch diameter hole was observed 1.5 feet up from the base of the hydraulic cylinder. The release likely occurred from the hole.

Following the removal of the cylinder, BT<sup>2</sup> personnel measured a 0.3-foot oil layer (approximately 3 gallons) floating on water within the steel casing. The oil was at a depth of approximately 4 feet beneath the elevator room floor. This is the approximate depth of the water table (approximately 10 feet bgs). Approximately 5 feet of water separated the oil from solid material in the casing. The solid material was likely the sand that had been in place between the former cylinder and casing.

On November 11, 1998, oil, water, and saturated soil were evacuated from the casing by Dischler Services using a vacuum truck. The vacuum operation is shown in **Photo 3**. The material was contained in 6 steel drums (**Photo 4**). BT<sup>2</sup> measured the contents of the drums, and obtained composite soil and water samples. The drums contained approximately 170 gallons of water and 16 cubic feet of saturated soil. The soil was primarily light gray silt. Laboratory analyses indicated that the composite water sample obtained from the drum contained 2,000 mg/l of diesel range organics (DRO). A composite sample of the soil contained 12,100 mg/kg of DRO. The laboratory results are attached. The amount of DRO detected in the soil and water indicates that approximately 4 additional gallons of oil was recovered before the steel casing was removed.

The evacuation of the soil beneath the casing caused subsidence of the ground around the top of the casing. Within a 1.5-foot radius around the steel casing, large cracks in the soil extended 2 to 4 feet below the elevator room floor. Additional removal of material may have resulted in damage to the freight elevator structure.

Following evacuation of the casing, the casing was removed. The casing was 18 feet long. Holes or cracks were not observed in the casing. The casing did not have a bottom. A casing bottom was not required at the time of installation in 1972 (Mr. Laarman, oral communication, February 3, 1999). Following the removal of the casing, a new freight elevator system was installed.

### **Conclusions**

The malfunction of the freight elevator #43 resulted in the release of up to approximately 140 gallons of hydraulic oil. Efforts to remove the oil and recover impacted soil and groundwater in the vicinity of the release resulted in the recovery of approximately 64 gallons of oil (46 percent recovery). Oil that could not be recovered may have entered saturated soils beneath the elevator room at a depth of approximately 13 feet below the water table. Soil recovered during the evacuation of the casing indicated that the saturated soil that may be impacted is primarily silt.

Ms. Marilyn Jahnke, WDNR  
March 3, 1999  
Page 3

It is unlikely that the oil that remains will result in adverse effects to the environment. The release occurred beneath the floor of a large industrial building, approximately 170 feet east of the west property boundary. The nearest body of water is Lake Mendota, located approximately 3,500 feet to the east of the facility.

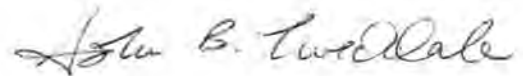
Water used for human consumption will not be adversely impacted by this release. The Oscar Mayer facility obtains water from production wells #2, #4, and #5. The water is used for non-contact cooling and boiler make-up water, and the production wells are not certified as potable wells (Mr. Laarman, oral communication, February 3, 1999). As shown on **Figure 1**, City of Madison municipal wells are beyond a 1,200-foot radius of the release area. The nearest well is municipal well #7, located approximately 2,900 feet west-northwest of the site.

A non-emergency immediate action was conducted to contain and remove a hydraulic oil release and the impacted soil and groundwater. Hydraulic oil was recovered to the extent practicable. Additional environmental work such as a site investigation is not warranted, due to the low toxicity and mobility of the hydraulic oil release, and because the release occurred beneath the floor inside an active food processing facility. Therefore, we request a written determination of no further action by the WDNR. If you have any questions about this letter, please contact us at BT<sup>2</sup> at (608) 224-2830.

Sincerely,  
**BT<sup>2</sup>, Inc.**



**John Mason, P.G.**  
**Hydrogeologist**



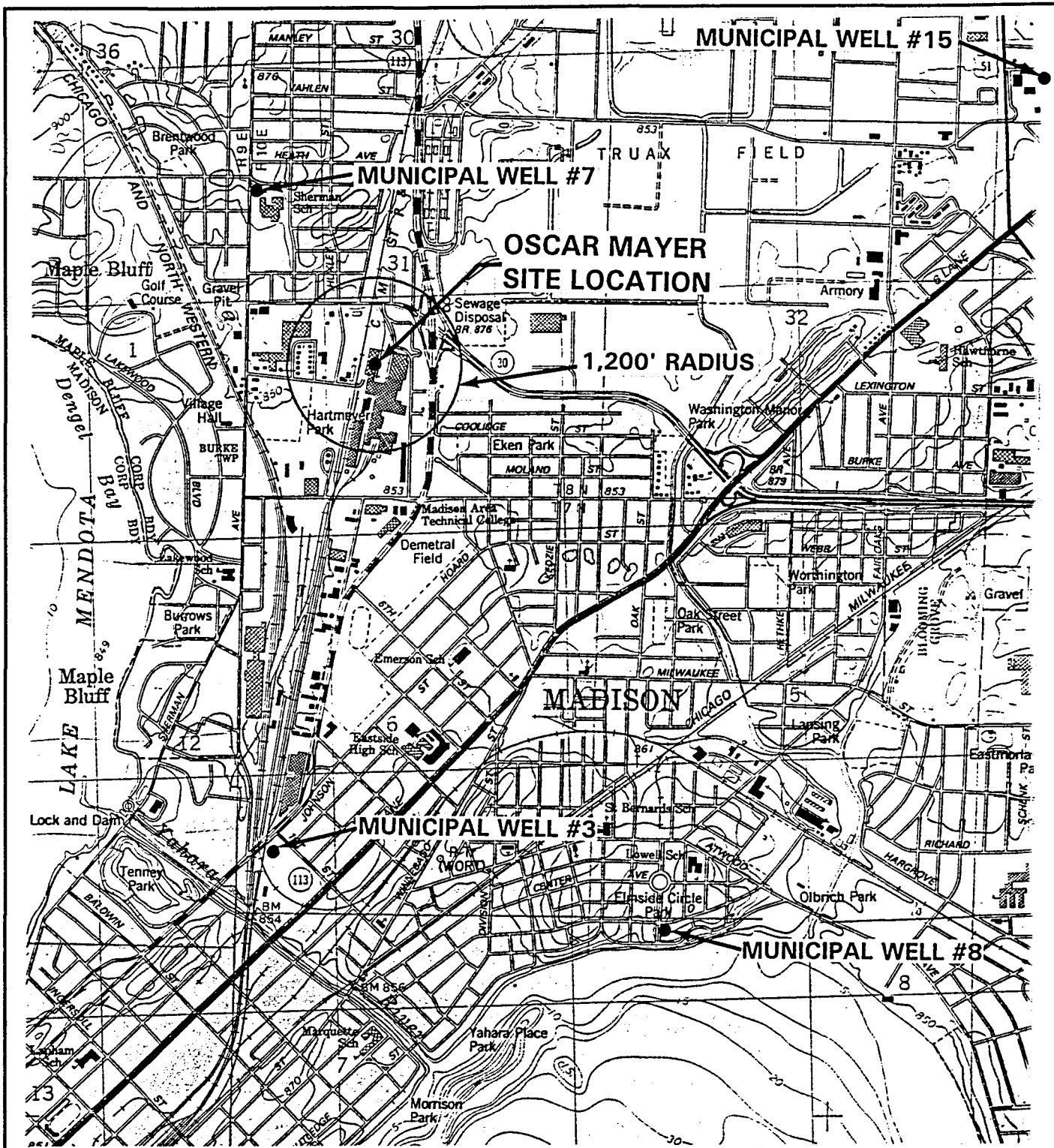
**John B. Tweddale, P.G.**  
**Senior Project Manager**

Attachments: Figures 1 - 3  
Photographs 1 - 4  
Analytical Laboratory Report

cc: Mr. Jim Laarman, Oscar Mayer

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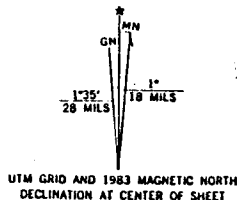


**MADISON EAST, WIS.**

SE/4 MADISON 15' QUADRANGLE  
43089-A3-TF-024

1983

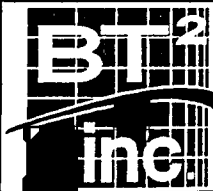
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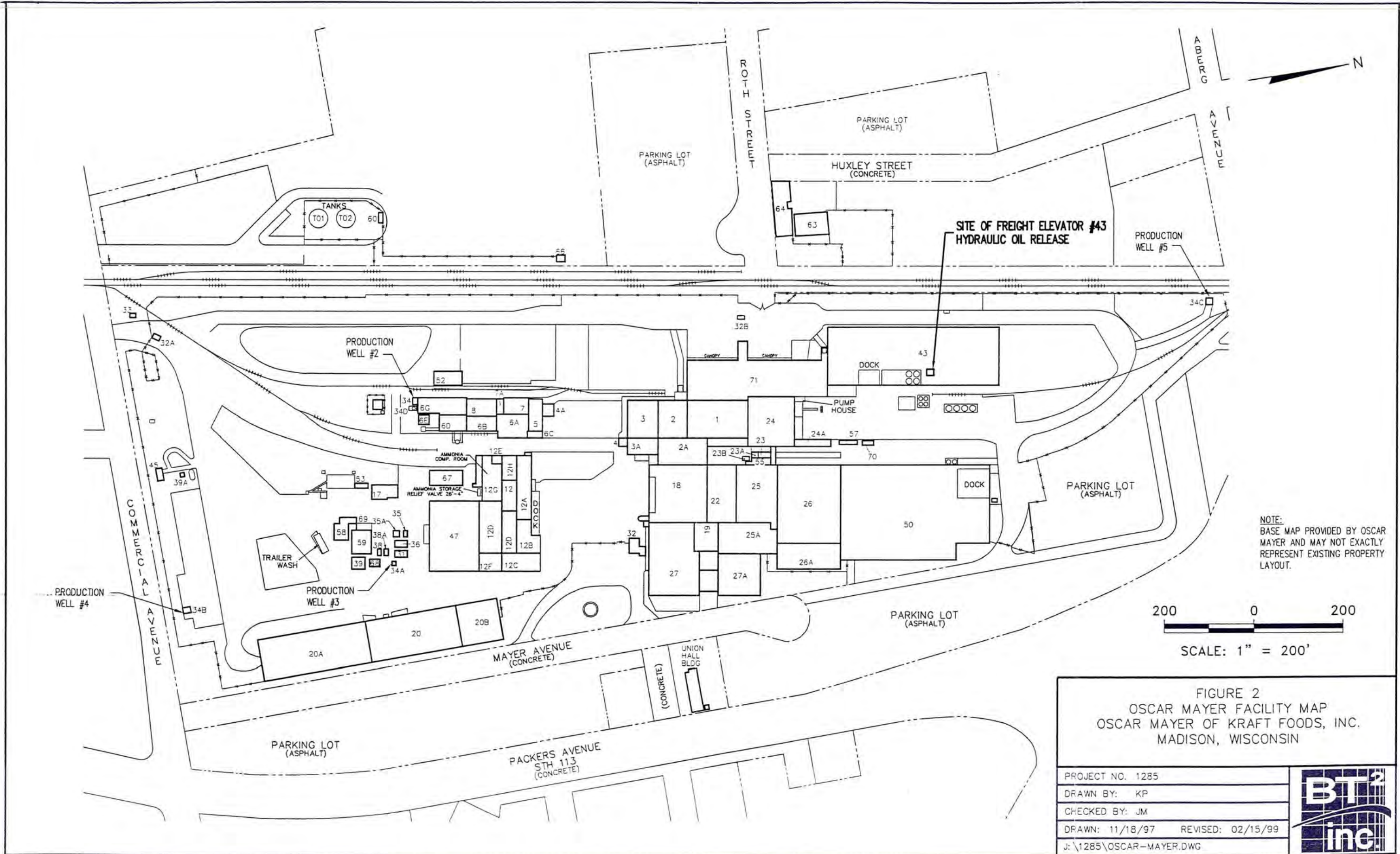


QUADRANGLE LOCATION

PROJECT NO. 1285
DRAWN BY: KP
CHECKED BY: JM
DRAWN: 02/15/99
SCALE: 1" = 2,000'

FIGURE 1  
SITE LOCATION MAP  
OSCAR MAYER OF KRAFT FOODS, INC.  
910 MAYER AVENUE  
MADISON, WISCONSIN





NOTE:  
 BASE MAP PROVIDED BY OSCAR  
 MAYER AND MAY NOT EXACTLY  
 REPRESENT EXISTING PROPERTY  
 LAYOUT.

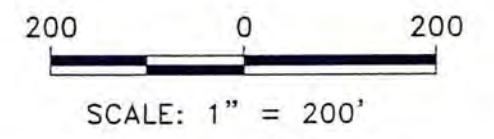
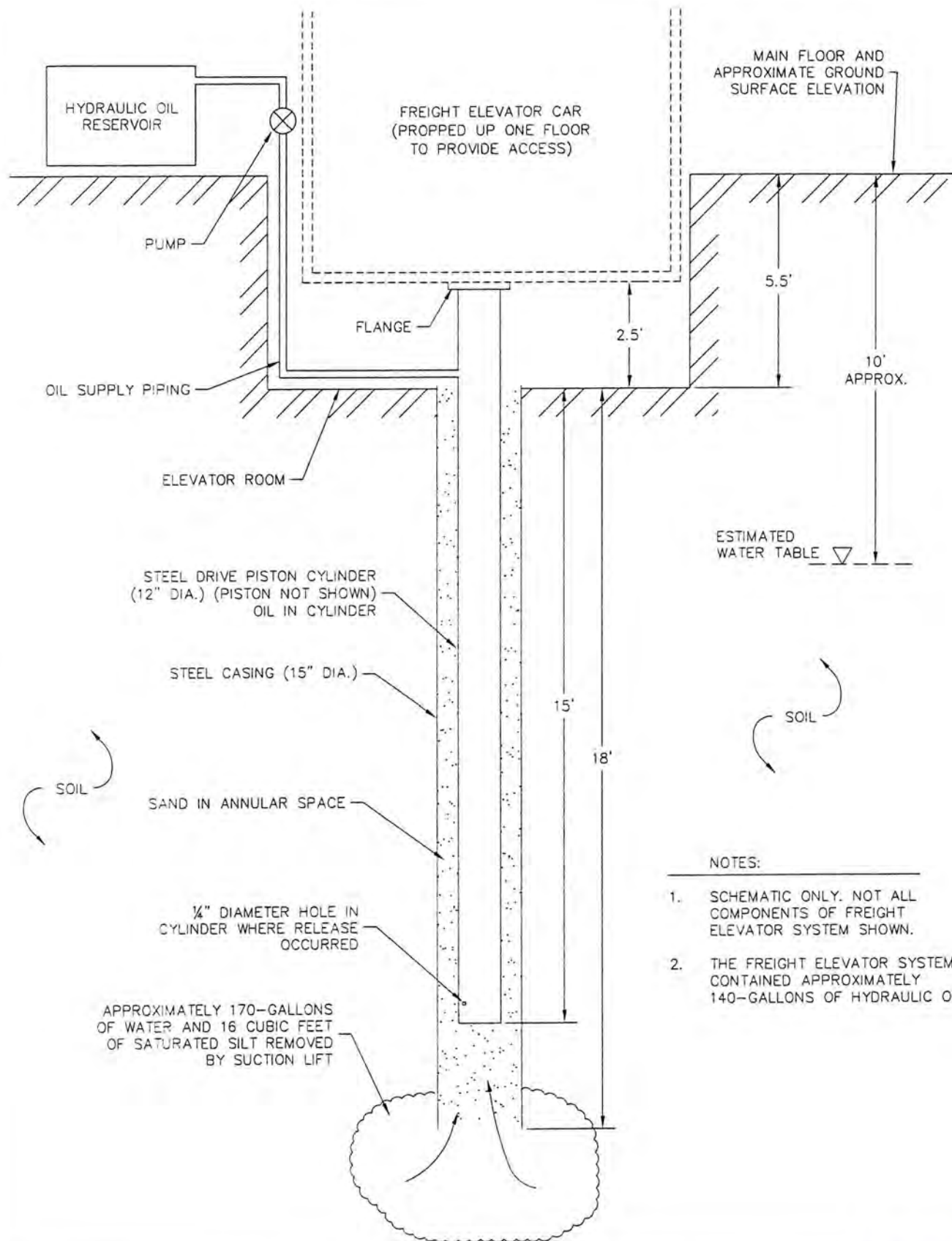


FIGURE 2  
 OSCAR MAYER FACILITY MAP  
 OSCAR MAYER OF KRAFT FOODS, INC.  
 MADISON, WISCONSIN

PROJECT NO. 1285
DRAWN BY: KP
CHECKED BY: JM
DRAWN: 11/18/97    REVISED: 02/15/99
J:\1285\OSCAR-MAYER.DWG





NOTES:

1. SCHEMATIC ONLY. NOT ALL COMPONENTS OF FREIGHT ELEVATOR SYSTEM SHOWN.
2. THE FREIGHT ELEVATOR SYSTEM CONTAINED APPROXIMATELY 140-GALLONS OF HYDRAULIC OIL.

PROJECT NO. 1285
DRAWN BY: KP
CHECKED BY: JM
DRAWN: 02/15/99
SCALE: NOT TO SCALE

FIGURE 3  
SCHEMATIC OF FREIGHT ELEVATOR #43  
OSCAR MAYER OF KRAFT FOODS, INC.  
910 MAYER AVENUE  
MADISON, WISCONSIN





Oscar Mayer Freight Elevator #43  
BT<sup>2</sup> Project #1285



Photograph 1 Freight elevator room



Photograph 2 Hydraulic cylinder at base of freight elevator room.



Oscar Mayer Freight Elevator #43  
BT<sup>2</sup> Project #1285



Photograph 3 Evacuation of from casing using vacuum truck hose.



Photograph 4 Six drums of soil and water removed from casing using vacuum truck.

**APPENDIX I**

**BRRTS #02-13-580722  
Oscar Mayer Former Filling Station East  
Site Investigation Workplan**





*Prepared For:*

*910 Mayer LLC*

**Site Investigation Work Plan -  
Former Filling Stations (Revised)**  
Former Oscar Mayer Facility,  
Madison, Wisconsin  
BRRTS Activity # 02-13-580722

October 2018

Environmental Resources Management  
700 West Virginia Street  
Suite 601  
Milwaukee, Wisconsin 53204

*Prepared for: 910 Mayer LLC*

***Site Investigation Work Plan – Former  
Filling Stations***

*Former Oscar Mayer Facility,  
Madison, Wisconsin*

*October 2018*

*Project Number: 0441161*



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*Partner in Charge*



---

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Environmental Resources Management, Inc. (ERM), on behalf of 910 Mayer LLC (the “Client”), prepared this work plan to further investigate soil and groundwater conditions at the former Oscar Mayer facility (“the Site”) located at 910 Mayer Ave in Madison, Wisconsin (Figure 1). The work plan has been prepared to satisfy the requirements of the Wisconsin Administrative Code (WAC) Section NR 716.09 Site Investigation Work Plan. The Wisconsin Department of Natural Resources (WDNR or the “Department”) requires that a work plan be prepared and submitted to the Department prior to initiation of investigation activities. The site investigation will be initiated within 90 days of submittal or within 60 days of receiving Department comments.

ERM performed a Phase II ESA on behalf of 910 Mayer LLC in connection with its diligence activities in connection with its potential acquisition of the property. The Phase II included 63 soil borings, numerous soil and groundwater samples, and 16 sub-slab vapor samples. ERM disclosed the results of the Phase II investigation to 910 Mayer LLC, who forwarded them to Kraft Heinz Food Company (“Kraft Heinz”) the property owner at the time. Kraft Heinz shared the results with Ramboll-Environ, who, on behalf of Kraft Heinz, reported three notifications of release to the WDNR on October 19, 2017. 910 Mayer LLC purchased the property on October 18, 2017. Subsequently, ERM followed up with the WDNR and became aware that the WDNR had not received the three notifications due to the size of the electronic notifications. Therefore, ERM forwarded the three notifications of release to the WDNR on November 29, 2016. 910 Mayer LLC had previously informed the WDNR in a letter dated October 30, 2017 that they had acquired the Site, effective October 18, 2017.

The first of three notifications of release reported to the WDNR related to concentrations of volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), and lead detected in soil and/or groundwater above WDNR criteria in soil borings installed in the vicinity of three former filling stations located in the East parking lot (activity number 02-13-580722). The second notification of release related to concentrations of chlorinated volatile organic compounds (CVOCs), primarily 1,2-dichloroethane (ethylene dichloride), PAHs, arsenic and lead in soil and/or groundwater above WDNR criteria in the vicinity of the former ethylene dichloride above ground storage tanks (ASTs) located in the unpaved grassy area south of Building 59 (activity number 02-13-580721). The third notification of release related to concentrations of CVOCs detected in sub-slab soil gas samples collected in and around the former spice room located in Building 43 (activity number 02-13-580723).

This work plan specifically focuses on releases associated with the three former filling stations (activity number 02-13-580722).

## 2.0 *PROJECT BACKGROUND*

### 2.1 *SITE LOCATION, CONTACTS, AND DESCRIPTION*

The Site is located at 910 Mayer Avenue in Madison, Wisconsin. The Site is located in the NE ¼ of the SW ¼ of Section 31, Township 08 North, Range 10 East in Dane County, Wisconsin. The location of the Site is shown on Figure 1, developed from the United States Geological Survey (USGS) 7.5-minute quadrangle for Madison East dated 1983.

The following contact information is provided for the facility and environmental consultant:

Facility Representatives: Marc Esrig  
910 Mayer LLC  
15 Reservoir Road  
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914.614.1800  
[mesrig@reichbros.com](mailto:mesrig@reichbros.com)

Environmental Consultant: David de Courcy-Bower  
Environmental Resources Management, Inc.  
700 W. Virginia Street, Suite 601  
Milwaukee, Wisconsin 53204  
414-977-4705 (telephone)  
414-289-9552 (fax)  
[david.decourcybower@erm.com](mailto:david.decourcybower@erm.com)

The Site is located in a mixed use area (industrial, commercial, recreational, and residential). The Site is approximately 70 acres in size, divided into the “Central”, “East”, and “West” Properties. The West Property consists of three parcels and is separated from the Central Property by the Soo Line Railroad right-of-way, and the East Property is a single parcel and is separated from the Central Property by Packers Avenue (see Figure 2). The East Property is leased to the City of Madison for recreational purposes and includes ball fields, concessions, and a parking lot and was not investigated as part of ERM’s Phase II ESA. Portions of the West Property are leased to the City of Madison for a bus terminal and commuter parking lot, and to Decker, a local construction supply company.

The former filling stations were located on the Central Property of the Site. The Central Property consists of two parcels that contain former manufacturing complexes, business offices, and supporting infrastructure buildings with a



combined building area of approximately 570,000 square feet related to the former meat production operations, which were shut down by August 2017.

## 2.2 *PHYSICAL SETTINGS*

### 2.2.1 *Topography and Hydrology*

The Site is located at an elevation of approximately 855 feet above mean sea level, is generally flat, and slopes slightly to the south. Surface water at the Site also drains to the east via overland flow to storm drains that discharge into either Lake Mendota or Lake Monona. The overall topographic trend of the surrounding area also slopes to the south. The nearest surface water body is Lake Mendota.

According to flood zone and National Wetland Inventory (NWI) data collected, the Site is not located within wetland delineated areas or the 100 or 500-year flood plains. Flood zone and NWI data was obtained by EDR from the Federal Emergency Management Agency (FEMA) and U.S. Fish and Wildlife Services, respectively. The mean elevation of Lake Mendota is 847 feet and the mean elevation of Lake Monona is 844 feet, both lakes being several feet lower than the Site elevation and not likely to flood as a result of high water levels.

### 2.2.2 *Geology and Hydrogeology*

According to the United States Department of Agriculture Natural Resources Conservation Service web soil survey data for Dane County, the surface soils in the vicinity of the Site are a combination of Virgil Silt Loam and Colwood Silt Loam and re-worked fill material consisting of sandy loam. The Virgil Silt Loam is described as a Class B soil with moderate infiltration rates, moderately well and well-drained soils with moderately coarse textures. The Colwood Silt Loam is described as a Class B/D soil with a drained/undrained hydrology class of soils that can be drained and are classified as poorly drained. Previous investigations at the Site encountered fill material overlying wetland-type deposits. On the southern portion of the Site this included muck, decayed organic material, and organic clay soils. On the east side of the Site, reworked fill overlays an asphalt surface.

Groundwater was encountered at depths ranging between 1 and 10 feet below ground surface (bgs). ERM's review of historic environmental investigations on the property and on adjacent properties indicates that the groundwater flow is inconsistent and varies depending upon geologic intervals, time of year, and amount of precipitation. Additionally, because of the shallow nature of the water table, direction of flow can be influenced by buried utility corridors, including the infiltration and exfiltration of sewers. The regional direction of

groundwater flow is from east to west or southwest toward Lakes Mendota and Monona.

According to well driller's records in the area, the shallow subsurface is comprised of sand and clay deposits overlying sandstone bedrock which is encountered at least 200 ft bgs.

## 2.3

### *SUMMARY OF PREVIOUS PHASE II INVESTIGATIONS*

In connection with its pre-acquisition diligence, ERM conducted a Phase II ESA that included the advancement of 63 soil borings and installation of temporary monitoring wells in all but seven of the borings. Finally, 16 sub-slab vapor samples were collected. The results of the Phase II included detections of contaminants that were associated with four closed WDNR documented environmental release incidents and response actions (BRRTS #: 02-13-000895, 02-13-221826, 03-13-001744, and 03-13-114831), but also some that were not previously reported. Based upon the results of the investigation, Ramboll-Environ reported three notifications of release to the WDNR. A map of 2017 Phase II investigation locations and the results of the ERM Phase II ESA are provided in Appendix A, the laboratory reports are provided in Appendix B, and the relevant soil boring logs are provided in Appendix C.

The investigation proposed in this work plan is focused on notification of release activity number 02-13-580722, which is associated with the release in the vicinity of three former filling stations located in the East parking lot (Figure 2). According to city directories, facility maps and aerial photographs, it appears that three gasoline filling/service stations were located on the eastern portion of the Central Property between 1958 and 1967. A map of the filling station locations in 1959 is provided as Appendix D. By 1968, the east adjacent Packers Avenue was expanded and reconfigured and several structures formerly located on the Central Property (including the gasoline stations) were razed; these areas were paved and used for parking purposes. Records regarding the number of USTs and their contents is not available. Although no documentation of removal of the USTs was available for the former filling station properties, a geophysical survey performed as part of the Phase II did not indicate the presence of USTs at the former filling station properties. No indications of light non aqueous phase liquids (LNAPL) were made during the Phase II. However, subsurface investigation revealed concentrations of petroleum-related VOCs, PAHs, and lead in soil and/or groundwater above WDNR criteria in the vicinity of the three former filling stations. All soil boring and temporary well locations installed during the Phase II were subsequently abandoned following sampling activities. Releases from the former filling stations had not previously been identified; therefore, Ramboll-Environ notified the WDNR of the release on behalf of Kraft Heinz.



### **3.0 INVESTIGATION APPROACH**

The Phase II ESA detected petroleum related VOCs and/or PAH detections in soil samples above WAC ch. NR 722 residual contaminant levels (RCLs) in soil borings SB-3, SB-7, and SB-9; however, these detections were located near or below saturated soils and likely represent impacts transferred from contaminated groundwater. Soil samples collected between 1 and 1.5 ft bgs in the vadose zone did not detect constituents above the laboratory detection limit. No soil borings detected lead above WAC ch. NR 722 RCLs. Phase II ESA groundwater results indicated petroleum related VOCs and/or PAH detections in groundwater samples above the WAC ch. NR 140 Enforcement Standards (ES) in soil borings SB-3, SB-5, SB-8, S-9, SB-55, SB-59, and SB-61. Lead was detected in each groundwater sample above the WAC ch. NR 140 ES; however, the groundwater samples were not filtered prior to analysis and likely are biased high due to suspended solids.

The proposed scope of work will primarily focus on delineating groundwater impacts exceeding the ES and groundwater monitoring to determine plume stability and groundwater flow direction. However, as part of monitoring well installation activities, soil sampling will also be completed to evaluate soil conditions. This work plan presents the following proposed activities for the Site investigation based on the results of the Phase II ESA.

#### **3.1 SUBSURFACE UTILITY CLEARANCE**

Prior to initiation of the soil and groundwater investigation, ERM will use a subsurface clearance protocol in attempt to identify any underground infrastructure in the proposed areas of the borings. This protocol includes studying maps of the underground infrastructure and conducting public and private utility locates to identify underground utilities in areas where proposed intrusive work will be conducted. ERM will adjust the proposed monitoring well locations, if appropriate, based on understanding of subsurface utility locations and potential preferential contaminant migration pathways.

#### **3.2 MONITORING WELL INSTALLATION**

##### **3.2.1 Monitoring Wells**

Thirteen groundwater monitoring wells will be installed, constructed, and developed in accordance with WAC Chapter NR 141 to investigate shallow soils and further delineate and monitor the detections of petroleum in groundwater associated with the former filling stations. The location of the proposed monitoring wells is depicted on Figure 3.

Each monitoring well will be installed to approximately 15 ft bgs. The monitoring wells will be constructed of 2-inch schedule 40 polyvinyl chloride (PVC) slotted well screens and solid risers, silica sand filter packs, and bentonite chip surface seals. The exact screened intervals and depths will be determined based on results of the soil borings such that they straddle the groundwater table. Surface completion will consist of either flush-mounted steel or stick-up type protective well covers depending on the well location.

Each monitoring well will be developed in accordance with Chapter NR 141 of the WAC a minimum of 12 hours after installation. Wells that can be purged dry will be slowly purged in a manner that limits agitation and allowed to recharge prior to gauging and collecting samples. Wells that cannot be purged dry will be developed by cycling between surging and purging the well for a minimum of 30 minutes. After the final surge and purge cycle, 10 well volumes (casing and filter pack) of water will be removed from the well by either bailing or pumping.

### 3.3 SOIL SAMPLING

Geological logs will be completed for each soil boring by ERM personnel. Notes will be made of visual and/ or olfactory evidence of contamination. Soil cores will be field screened for the presence of VOCs by using a photoionization detector (PID) equipped with an 11.7eV lamp and the headspace technique. The headspace technique includes:

- Placing approximately 50 – 100 grams of a representative soil sample into a clean quart-sized plastic bag;
- Sealing, agitating, and allowing the sample to equilibrate for 10 to 15 minutes; and
- Measuring the concentration of vapors in the headspace above the soil sample by inserting the probe of the PID into the bag.

The PID is capable of semi-quantitatively measuring total VOC concentrations in parts per million by volume (ppm<sub>v</sub>) compared to an equivalent standard. A headspace reading of 1 ppm<sub>v</sub> or less is used as an indication of clean soil conditions.

Two soil samples will be collected from the unsaturated interval at each boring location (one at 2 ft and one 1 ft above saturated soils). If elevated readings are observed, the interval demonstrating the highest PID response or the most significant visual indications of impacts will be retained for laboratory analysis. If no elevated PID readings or visual indications of impacts are observed, both samples will be sent for laboratory analysis. Samples will be collected in laboratory-supplied bottles of appropriate volume and preservation, stored in cooled packaging, and dispatched to the laboratory with full chain-of-custody tracking documentation. ERM will utilize a Wisconsin-certified environmental



laboratory (Pace Analytical of Green Bay, Wisconsin) with a standard turnaround of 10 business days for all sample analyses. Up to 24 soil samples may be collected based on field screening results from soil borings. Collected samples will be submitted for chemical analysis of VOCs (SW 846 Method 8260B), PAHs (SW 846 Method 8270D), and lead (SW 846 Method 1610).

### **3.4 MONITORING WELL SAMPLING AND GAUGING**

Following well installation and development, one round of groundwater samples will be collected from the monitoring well network. Prior to sampling, the depth to water will be gauged with an oil-water interface probe to check for the presence of LNAPL and to determine groundwater flow direction. If the wells do not contain LNAPL, groundwater samples will be obtained from each monitoring well for VOCs (SW-846 Method 8260B), PAHs (SW-846 Methods 8270), and lead (SW 846 Method 1610). Samples will be collected in laboratory-supplied bottles, stored in cooled packaging, and dispatched to the laboratory for analysis. ERM will utilize a Wisconsin-certified environmental laboratory with a standard turnaround time of 10 business days for all sample analyses.

### **3.5 SURVEY**

Upon completion of the soil borings and monitoring wells, each location will be surveyed to establish the relative vertical elevation of each based on a local benchmark. As described, depth to groundwater measurements will be taken in each well in order to advance understanding of groundwater flow direction in the investigation area.

### **3.6 INVESTIGATION DERIVED WASTE**

Investigation derived waste (IDW) (e.g., soil cuttings, development and purge water, personal protective equipment waste, etc.) will be placed in Department of Transportation (DOT)-approved drums and retained at the Site for subsequent disposal at a licensed waste disposal facility. Following receipt of laboratory analytical results, 910 Mayer LLC will be responsible for disposal of the IDW. Groundwater generated during the development and groundwater sampling activities may be disposed of to the sanitary sewer if authorization from the City of Madison is received, or at a licensed waste treatment facility.

### **3.7 QA/QC**

One duplicate groundwater sample, one field blank, and one trip blank per cooler will also be analyzed for VOCs for quality assurance / quality control

(QA/QC) purposes over and above the number of groundwater samples described above per sampling event. No QA/QC samples will be collected on the soil samples. New nitrile gloves will be used between each sample location and between each sample collected to prevent cross contamination. Any sampling materials used during sample collection will be new per each sample collected or decontaminated using deionized (DI) water with Alconox® wash, and DI water rinse.



## **4.0 INVESTIGATION REPORTING AND SCHEDULE**

### **4.1 REPORTING**

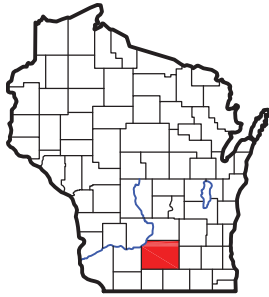
The Site Investigation Report (SIR) will be prepared according to ERM standard report format and WDNR requirements. The report will be submitted within 60 days after the site investigation and receipt of the laboratory data and will include a description of the Site investigation activities, field work methodologies, and analysis of the findings based on the regulatory framework, and a final evaluation. The final report, appendices, and photos will be provided to the WDNR in hard copy. Within 60 days after submitting the SIR, ERM will prepare and submit a Remedial Actions Options Report (RAOR) to WDNR, if warranted.

### **4.2 SCHEDULE**

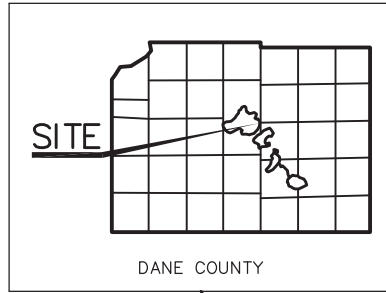
Mobilization for the monitoring well investigation will be initiated once subsurface clearing activities can be completed and is anticipated to begin in November 2018. Monitoring well installation, development, and field sampling activities are expected to take three weeks. It is anticipated that field activities will be completed by January 2019. ERM will notify the WDNR of any unforeseen delays or conflicts that may impact the schedule as they arise.

*FIGURES*





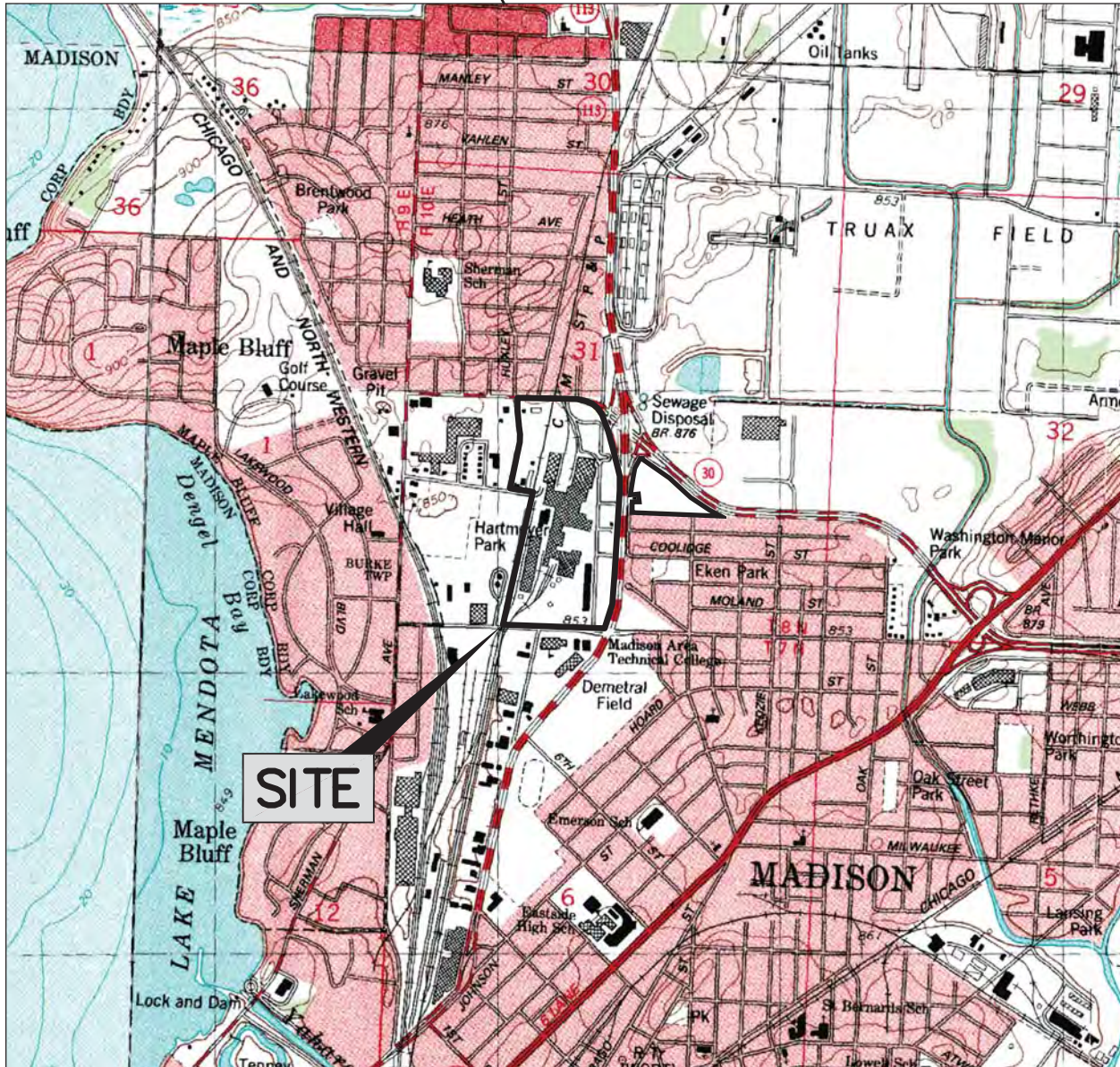
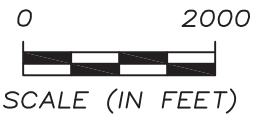
WISCONSIN



SITE

DANE COUNTY

SECTION 31  
T.8N. - R.10E.  
CITY OF MADISON  
DANE COUNTY  
WISCONSIN



## SITE LOCATION MAP

ADAPTED FROM USGS  
MADISON EAST/1983

REVISIONS ARE TO BE MADE ON THE CADD FILE ONLY



### REICH BROTHERS

910 MAYER AVENUE  
MADISON, WISCONSIN

CADD Review RMK

CHK'D CS

**0441161**

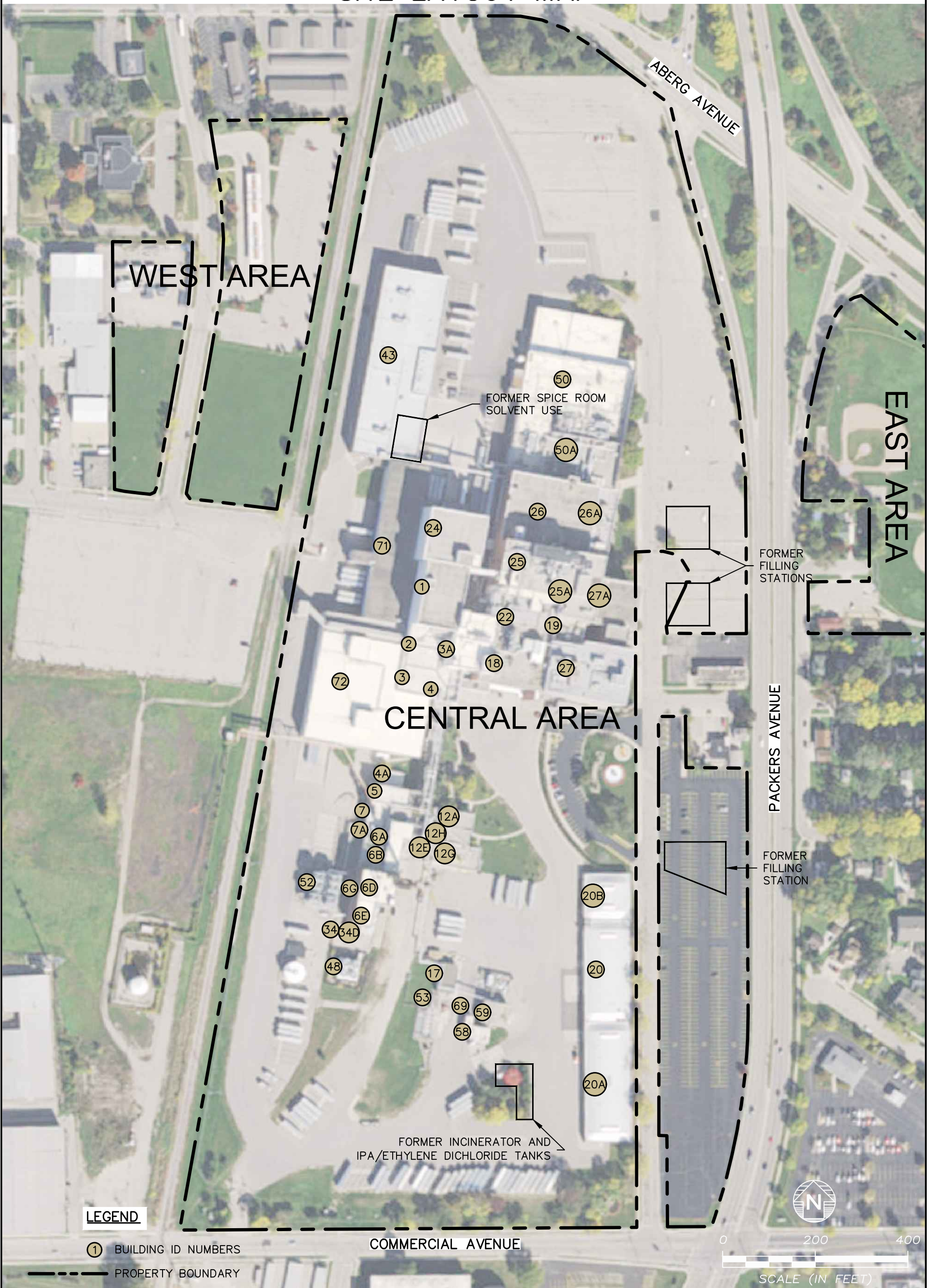
Drawn By  
GML 9/27/17

## Environmental Resources Management

FIGURE 1



# SITE LAYOUT MAP



**LEGEND**

- ① BUILDING ID NUMBERS
- PROPERTY BOUNDARY



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CADD Review FGB
DRAWN BY: GML
Date Drawn/Rev'd 8/3/17-2/28/18



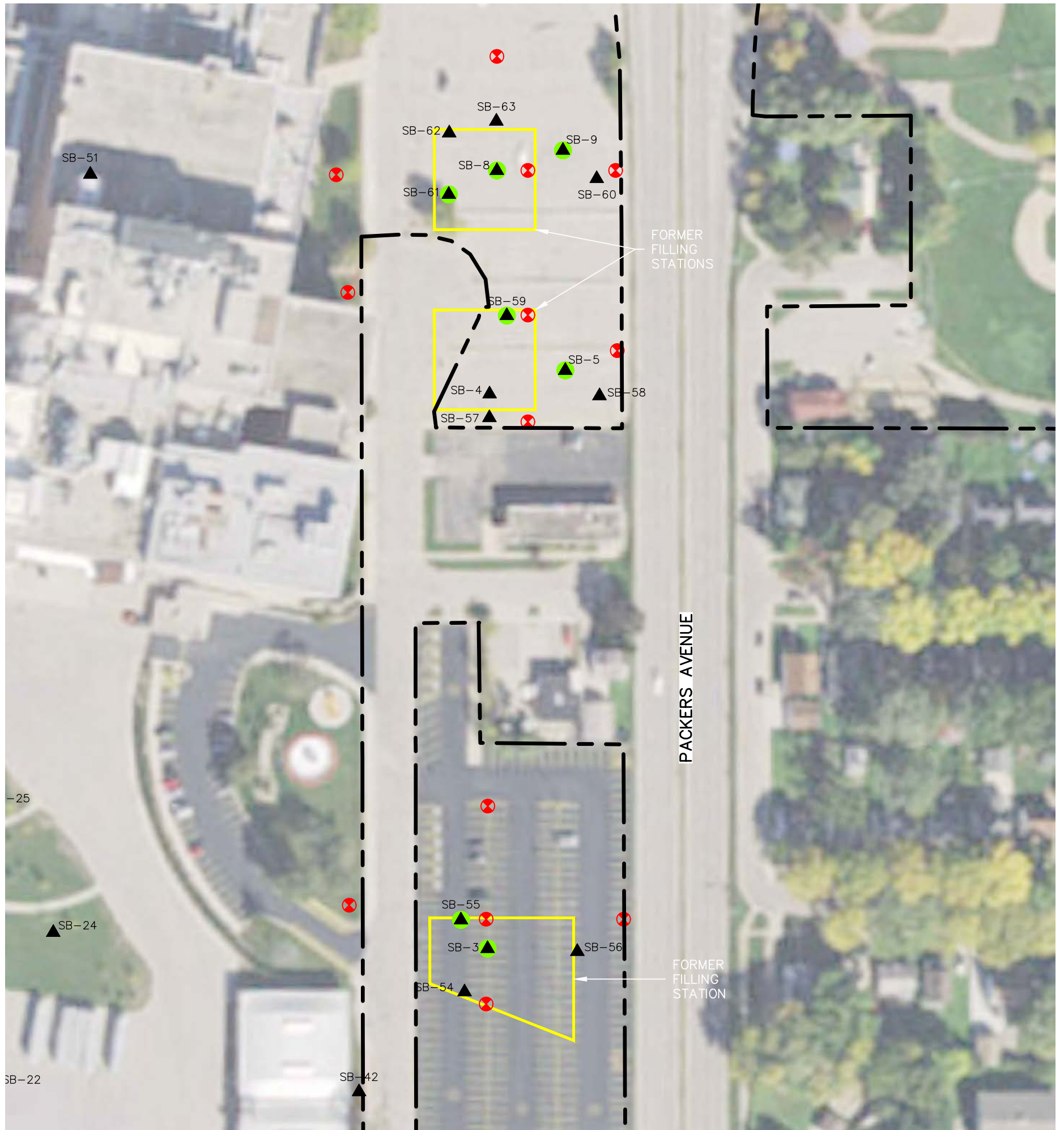
**910 MAYER LLC**  
910 MAYER AVENUE  
MADISON, WISCONSIN

**Environmental Resources Management**

CHK'D BY: MMV
0441161
FIGURE 2

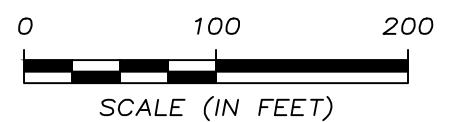


# PROPOSED MONITORING WELL LOCATIONS



## LEGEND

- ▲ TEMPORARY GROUNDWATER SAMPLING LOCATION
- VOC EXCEEDANCES OF ES IN GROUNDWATER
- ⊗ PROPOSED MONITORING WELL LOCATION
- PROPERTY BOUNDARY



CADD Review FGB
DRAWN BY: GML
Date Drawn/Rev'd 3/1/18



**910 MAYER LLC**

910 MAYER AVENUE  
MADISON, WISCONSIN

Environmental Resources Management

CHK'D BY:  
MMV

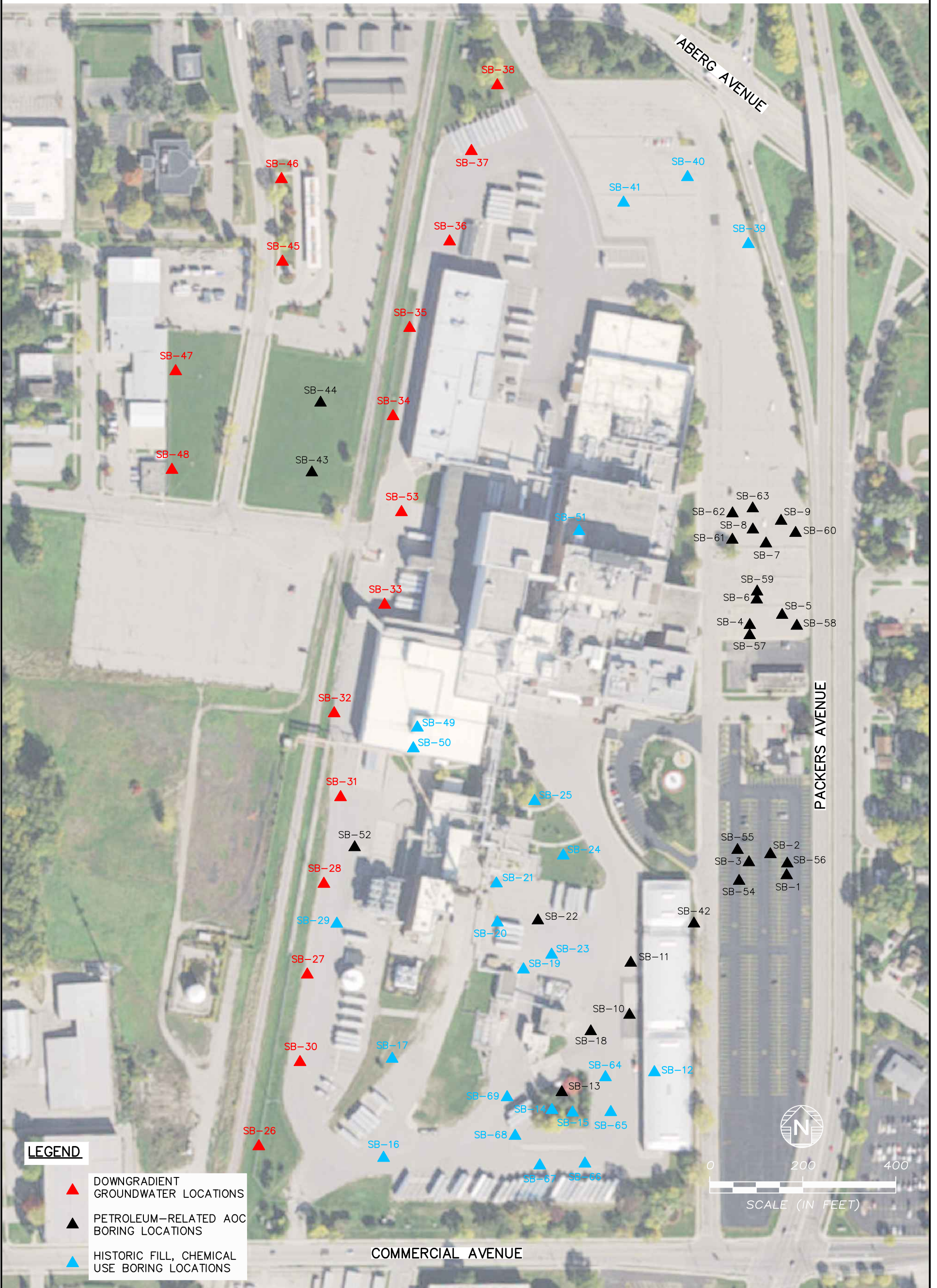
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FIGURE 3

*APPENDIX A      ERM PHASE II ESA SAMPLING DATA  
(OCTOBER 2017)*



# SOIL BORING LOCATIONS MAP



**LEGEND**

- ▲ DOWNGRADIENT GROUNDWATER LOCATIONS
- ▲ PETROLEUM-RELATED AOC BORING LOCATIONS
- ▲ HISTORIC FILL, CHEMICAL USE BORING LOCATIONS

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CADD Review FGB
DRAWN BY: GML
Date Drawn/Rev'd 8/3/17-3/9/18



## 910 MAYER LLC

910 MAYER AVENUE  
MADISON, WISCONSIN

Environmental Resources Management

CHK'D BY: MMV
0441161
FIGURE A-1

Table A-1

Summary of Soil Boring and Temporary Well Construction Data, 910 Mayer Avenue, Madison, Wisconsin.

Soil Boring ID	SPCS Easting	SPCS Northing	Ground Elevation (ft amsl)	TOC Elevation (ft amsl)	Screen Top (ft)	Screen Bottom (ft)	Total Depth (ft)	Depth to Water (ft)	Ground-water Elevation (ft amsl)
SB-1	2172338.2	404876.7	856.29	NM	0	0	NM	NM	NM
SB-2	2172303.2	404921.9	855.98	NM	0	0	NM	NM	NM
SB-3	2172257.0	404904.6	855.84	NM	3	13	NM	NM	NM
SB-4	2172258.8	405414.6	854.08	NM	7	12	NM	NM	NM
SB-5	2172328.4	405436.2	853.75	NM	3	8	NM	NM	NM
SB-6	2172273.9	405469.2	854.30	NM	0	0	NM	NM	NM
SB-7	2172293.7	405589.8	855.18	NM	0	0	NM	NM	NM
SB-8	2172265.5	405620.1	854.84	NM	5	15	NM	NM	NM
SB-9	2172326.2	405638.6	854.64	NM	3	13	NM	NM	NM
SB-10	2172000.0	404576.7	853.67	NM	3	8	NM	NM	NM
SB-11	2172002.9	404688.6	853.88	NM	3	8	NM	NM	NM
SB-12*	2172076.2	404472.3	NM	NM	3	8	NM	NM	NM
SB-13	2171854.6	404410.5	852.54	NM	0	0	NM	NM	NM
SB-14	2171833.3	404372.2	852.34	NM	3	8	NM	NM	NM
SB-15	2171877.8	404366.7	852.94	NM	3	8	NM	NM	NM
SB-15D	2171877.8	404366.7	852.94	854.35	15	20	21.45	6.21	848.14
SB-16	2171471.3	404269.4	852.36	NM	0	0	NM	NM	NM
SB-17	2171527.4	404457.0	855.70	NM	5	15	NM	NM	NM
SB-18	2171916.9	404541.3	852.74	NM	5	15	NM	NM	NM
SB-19	2171772.3	404674.4	852.32	NM	3	8	NM	NM	NM
SB-20	2171716.0	404775.4	854.26	NM	7	12	NM	NM	NM
SB-21	2171714.0	404859.2	855.69	NM	5	15	NM	NM	NM
SB-22*	2171771.1	404796.9	NM	NM	6	16	NM	NM	NM
SB-23*	2171832.7	404706.0	NM	NM	11	16	NM	NM	NM
SB-24	2171857.7	404919.5	857.91	NM	6	16	NM	NM	NM
SB-25	2171796.0	405036.4	856.86	NM	10	20	NM	NM	NM
SB-26*	2171207.9	404270.5	NM	NM	0	5	NM	NM	NM
SB-27S	2171307.4	404663.3	854.62	NM	5	10	NM	NM	NM
SB-27D	2171307.4	404663.3	854.62	NM	20	30	NM	NM	NM
SB-28	2171342.9	404858.5	855.21	NM	11	16	NM	NM	NM
SB-29	2171370.8	404772.5	854.32	NM	3	8	NM	NM	NM
SB-30*	2171291.6	404475.2	NM	NM	15	20	NM	NM	NM
SB-31S	2171378.8	405044.7	855.48	NM	25	30	NM	NM	NM
SB-31D	2171378.8	405044.7	855.48	NM	7	12	NM	NM	NM
SB-32	2171365.2	405225.0	855.86	NM	9.5	14.5	NM	NM	NM
SB-33	2171473.8	405458.3	852.20	NM	3	8	NM	NM	NM
SB-34	2171491.7	405863.5	855.44	NM	7	12	NM	NM	NM
SB-35	2171527.3	406053.2	853.92	NM	11	16	NM	NM	NM
SB-36S	2171613.4	406239.3	855.33	NM	3	8	NM	NM	NM

Borings with an asterisk (\*) denote approximate coordinates.

ft Feet.

ft amsl Feet above mean sea level.

NM Not measured.

SPCS State Plane Coordinate System, Wisconsin South Zone, 1927.

TOC Top of casing.



Table A-1

Summary of Soil Boring and Temporary Well Construction Data, 910 Mayer Avenue, Madison, Wisconsin.

Soil Boring ID	SPCS Easting	SPCS Northing	Ground Elevation (ft amsl)	TOC Elevation (ft amsl)	Screen Top (ft)	Screen Bottom (ft)	Total Depth (ft)	Depth to Water (ft)	Ground-water Elevation (ft amsl)
SB-36D	2171613.4	406239.3	855.33	NM	18	28	NM	NM	NM
SB-37S	2171660.3	406433.6	857.27	NM	5	10	NM	NM	NM
SB-37D	2171660.3	406433.6	857.27	NM	20	30	NM	NM	NM
SB-38	2171716.1	406575.0	857.80	NM	7	12	NM	NM	NM
SB-39	2172255.9	406233.7	853.81	NM	0	0	NM	NM	NM
SB-40	2172124.9	406377.7	855.86	NM	0	0	NM	NM	NM
SB-41	2171987.4	406322.6	855.44	NM	2	12	NM	NM	NM
SB-42	2172138.7	404773.0	855.20	NM	6	16	NM	NM	NM
SB-43	2171317.1	405742.6	856.30	NM	7	12	NM	NM	NM
SB-44	2171335.9	405892.6	856.61	NM	7	12	NM	NM	NM
SB-45	2171254.0	406195.7	855.07	NM	7	12	NM	NM	NM
SB-46	2171251.8	406373.2	855.99	NM	3	8	NM	NM	NM
SB-47	2171024.4	405960.3	855.09	NM	7	12	NM	NM	NM
SB-48	2171016.4	405748.3	855.52	NM	11	16	NM	NM	NM
SB-49*	2171527.2	405219.6	NM	NM	5	15	NM	NM	NM
SB-50*	2171521.6	405177.4	NM	NM	5	15	NM	NM	NM
SB-51*	2171892.6	405626.1	NM	NM	0	5	NM	NM	NM
SB-52	2171409.3	404937.0	855.55	NM	3	8	NM	NM	NM
SB-53	2171509.8	405657.2	852.05	NM	0	3	NM	NM	NM
SB-54	2172235.8	404864.7	856.19	855.43	6	16	14.85	7.07	848.36
SB-55	2172232.5	404931.0	855.94	855.56	6	16	15.75	7.29	848.27
SB-56	2172339.4	404901.8	856.40	856.26	5	15	13.85	8	848.26
SB-57	2172258.6	405392.7	854.03	853.93	2	12	12	5.15	848.78
SB-58	2172363.1	405412.9	854.46	854.06	4	14	13.7	5.12	848.94
SB-59	2172274.6	405486.6	854.08	853.97	3	13	11.65	5.4	848.57
SB-60	2172368.7	405612.6	855.51	855.48	9	19	17.4	6.79	848.69
SB-61	2172221.3	405598.1	855.56	855.42	9	19	17.1	6.67	848.75
SB-62	2172221.7	405654.6	855.41	855.37	10	20	18.6	5.6	849.77
SB-63	2172265.1	405665.4	854.89	854.76	8	18	17.5	6.9	847.86
SB-64	2171948.4	404442.6	853.10	853.00	3	13	11.2	3.52	849.48
SB-65	2171960.0	404367.7	853.40	853.42	3	13	12.85	4.34	849.08
SB-66S	2171904.5	404257.1	853.12	853.30	3	8	7.9	4.6	848.70
SB-66D	2171904.5	404257.1	853.12	853.30	17	22	22	5.09	848.21
SB-67	2171807.3	404252.9	853.25	853.23	17	22	22	5.13	848.10
SB-68S	2171754.2	404316.6	853.29	853.03	3	8	7.85	4.52	848.51
SB-68D	2171754.2	404316.6	853.29	853.03	17	22	21.75	4.85	848.18
SB-69	2171737.1	404399.7	852.36	851.57	3	8	7	3.94	847.63

Borings with an asterisk (\*) denote approximate coordinates.

ft Feet.

ft amsl Feet above mean sea level.

NM Not measured.

SPCS State Plane Coordinate System, Wisconsin South Zone, 1927.

TOC Top of casing.

Table A-2

Soil Sample Analytical Results - Volatile Organic Compounds (VOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Non-Industrial Direct Contact		Industrial Direct Contact		Soil-to-GW RCL	Soil Sample Results (mg/kg)								
	Sample ID (Depth) Sample Date (Depth to Groundwater)	RCL	Basis	RCL		Basis	SB-1 (1-1.5') 7/31/17 (6')	SB-2 (1-1.5') 7/31/17 (6')	SB-3 (8-10') 7/31/17 (6.45')	SB-4 (3-4') 7/31/17 (4.86')	SB-5 (4-5') 7/31/17 (4.44')	SB-6 (3-4') 7/31/17 (5.4')	SB-7 (10-12') 8/1/17 (12')	SB-8 (10-12') 8/1/17 (5.13')
Tetrachloroethane, 1,1,1,2-		2.78	ca	12.3	ca	0.053	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<0.0500	<0.0250
Trichloroethane, 1,1,1-		640	Csat	640	Csat	0.140	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<0.0500	<0.0250
Tetrachloroethane, 1,1,2,2-		0.81	ca	3.6	ca	0.0002	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<0.0500	<0.0250
Trichloroethane, 1,1,2-		1.59	ca	7.01	ca	0.003	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<0.0500	<0.0250
Dichloroethane, 1,1-		5.06	ca	22.2	ca	0.483	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<0.0500	<0.0250
Dichloroethene, 1,1-		320	nc	1,190	Csat	0.005	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<0.0500	<0.0250
Dichloropropene, 1,1-		ns	ns	ns	ns	ns	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<0.0500	<0.0250
Trichlorobenzene, 1,2,3-		62.6	nc	934	nc	ns	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<0.0500	<0.0250
Trichloropropane, 1,2,3-		0.0051	ca	0.109	ca	0.052	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<0.0500	<0.0250
Trichlorobenzene, 1,2,4-		24	ca	113	ca	0.408	<0.0476	<0.0476	<0.238	<0.0476	<0.951	<0.0476	<0.0951	<0.0476
Trimethylbenzene, 1,2,4-		219	Csat	219	Csat	1.382	<0.0250	<0.0250	<b>14.6</b>	<0.0250	<b>11.4</b>	<b>0.224</b>	<b>23.6</b>	<b>0.122</b>
Dibromo-3-chloropropane, 1,		0.0075	ca	0.0923	ca	0.0002	<0.0912	<0.0912	<0.456	<0.0912	<1.82	<0.0912	<0.182	<0.0912
Dibromoethane, 1,2-		0.05	ca	0.221	ca	ns	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<0.0500	<0.0250
Dichlorobenzene, 1,2-		376	Csat	376	Csat	1.168	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<0.0500	<0.0250
Dichloroethane, 1,2-		0.652	ca	2.87	ca	0.003	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<0.0500	<0.0250
Dichloropropane, 1,2-		0.406	ca	1.78	ca	0.003	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<0.0500	<0.0250
Trimethylbenzene, 1,3,5-		182	Csat	182	Csat	1.382	<0.0250	<0.0250	<b>5.45</b>	<0.0250	<b>24.9</b>	<0.0250	<b>6.37</b>	<b>0.561</b>
Dichlorobenzene, 1,3-		297	Csat	297	Csat	1.153	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<0.0500	<0.0250
Dichloropropane, 1,3-		1,490	Csat	1,490	Csat	ns	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<0.0500	<0.0250
Dichlorobenzene, 1,4-		3.74	ca	16.4	ca	0.144	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<0.0500	<0.0250
Dichloropropane, 2,2-		191	Csat	191	Csat	ns	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<0.0500	<0.0250
Chlorotoluene, 2-		907	Csat	907	Csat	ns	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<0.0500	<0.0250
Chlorotoluene, 4-		253	Csat	253	Csat	ns	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<0.0500	<0.0250
Benzene		1.6	ca	7.07	ca	0.005	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<b>0.312</b>	<0.0250
Bromobenzene		342	nc	679	Csat	ns	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<0.0500	<0.0250
Bromochloromethane		216	nc	906	nc	ns	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<0.0500	<0.0250
Bromodichloromethane		0.418	ca	1.83	ca	0.0003	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<0.0500	<0.0250
Bromoform		25.4	ca	113	ca	0.002	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<0.0500	<0.0250
Bromomethane		9.6	nc	43	nc	0.005	<0.0699	<0.0699	<0.350	<0.0699	<1.40	<0.0699	<0.140	<0.0699
Carbon tetrachloride		0.916	ca	4.03	ca	0.004	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<0.0500	<0.0250
Chlorobenzene		370	nc	761	Csat	ns	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<0.0500	<0.0250
Chloroethane		ns	ns	ns	ns	0.227	<0.0670	<0.0670	<0.335	<0.0670	<1.34	<0.0670	<0.134	<0.0670
Chloroform		0.454	ca	1.98	ca	0.0033	<0.0464	<0.0464	<0.232	<0.0464	<0.929	<0.0464	<0.0929	<0.0464
Chloromethane		159	nc	669	nc	0.016	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<0.0500	<0.0250
Dibromochloromethane		8.28	ca	38.9	ca	0.032	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<0.0500	<0.0250
Dibromomethane		34	nc	143	nc	ns	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<0.0500	<0.0250
Dichlorodifluoromethane		126	nc	530	nc	3.086	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<0.0500	<0.0250
Diisopropyl ether		2,260	Csat	2,260	Csat	ns	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<0.0500	<0.0250
Ethylbenzene		8.02	ca	35.4	ca	2	<0.0250	<0.0250	<b>2.17</b>	<0.0250	<0.500	<0.0250	<b>18.8</b>	<0.0250
Hexachloro-1,3-butadiene		1.63	ca	7.19	ca	ns	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<0.0500	<0.0250
Isopropylbenzene (Cumene)		268	Csat	268	Csat	ns	<0.0250	<0.0250	<b>0.933</b>	<0.0250	<b>2.76</b>	<0.0250	<b>1.47</b>	<b>0.0635 J</b>
Methyl-tert-butyl ether		63.8	ca	282	ca	0.027	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<0.0500	<0.0250
Methylene Chloride		61.8	ca	1,150	ca	0.003	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<b>0.0346 J</b>	<0.0500	<0.0250
Naphthalene		5.52	ca	24.1	ca	0.6582	<0.0400	<0.0400	<b>5.87</b>	<0.0400	<b>6.22</b>	<b>0.0803 J</b>	<b>3.50</b>	<0.0400



Table A-2

Soil Sample Analytical Results - Volatile Organic Compounds (VOCs), 910 Mayer Aveunue, Madison, Wisconsin.

Parameter	Non-Industrial Direct Contact		Industrial Direct Contact		Soil-to-GW RCL	Soil Sample Results (mg/kg)								
	Sample ID (Depth) Sample Date (Depth to Groundwater)	RCL	Basis	RCL		Basis	SB-1 (1-1.5') 7/31/17 (6')	SB-2 (1-1.5') 7/31/17 (6')	SB-3 (8-10') 7/31/17 (6.45')	SB-4 (3-4') 7/31/17 (4.86')	SB-5 (4-5') 7/31/17 (4.44')	SB-6 (3-4') 7/31/17 (5.4')	SB-7 (10-12') 8/1/17 (12')	SB-8 (10-12') 8/1/17 (5.13')
Styrene		867	Csat	867	Csat	0.220	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<0.0500	<0.0250
Tetrachloroethene		33	ca	145	ca	0.0045	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<0.0500	<0.0250
Toluene		818	Csat	818	Csat	1.107	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<b>0.0724 J</b>	<0.0250
Trichloroethene		1.3	ca	8.41	ca	0.0036	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<0.0500	<0.0250
Trichlorofluoromethane		1,230	Csat	1,230	Csat	ns	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<0.0500	<0.0250
Vinyl chloride		0.067	ca	2.08	ca	0.0001	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<0.0500	<0.0250
Dichloroethylene, 1,2-cis-		156	nc	2,340	nc	0.041	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<0.0500	<0.0250
cis-1,3-Dichloropropene		1,210	Csat	1,210	Csat	0.0003	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<0.0500	<0.0250
m&p-Xylene*		388	Csat	388	Csat	3.960	<0.0500	<0.0500	<b>9.50</b>	<0.0500	<1.00	<0.0500	<b>38.7</b>	<0.0500
n-Butylbenzene		108	Csat	108	Csat	ns	<0.0250	<0.0250	<b>4.16</b>	<0.0250	<b>17.9</b>	<0.0250	<b>1.73</b>	<0.0250
n-Propylbenzene		ns	ns	ns	ns	ns	<0.0250	<0.0250	<b>3.53</b>	<0.0250	<b>9.01</b>	<0.0250	<b>4.56</b>	<b>0.322</b>
o-Xylene*		434	Csat	434	Csat	3.960	<0.0250	<0.0250	<b>1.43</b>	<0.0250	<0.500	<0.0250	<b>0.178</b>	<0.0250
p-Isopropyltoluene		162	Csat	162	Csat	ns	<0.0250	<0.0250	<b>0.798</b>	<0.0250	<b>9.46</b>	<0.0250	<b>0.231</b>	<0.0250
Butylbenzene, sec-		145	Csat	145	Csat	ns	<0.0250	<0.0250	<b>0.713</b>	<0.0250	<b>9.34</b>	<0.0250	<b>0.256</b>	<b>0.161</b>
Butylbenzene, tert-		183	Csat	183	Csat	ns	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<0.0500	<0.0250
Dichloroethylene, 1,2-trans		1,560	nc	1,850	Csat	0.063	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<0.0500	<0.0250
Dichloropropene, 1,3-trans		2.37	ca	10.6	ca	ns	<0.0250	<0.0250	<0.125	<0.0250	<0.500	<0.0250	<0.0500	<0.0250

## Notes:

All units are milligrams per kilogram (mg/kg).

All depths are measured in feet below ground surface (ft bgs).

VOCs analyzed by Method 8260 and preserved in the field with Methanol.

\* Xylene soil to groundwater standard is for total xylene concentrations.

**Bold** Value exceeds laboratory detection limit (DL).*Italic* Value exceeds a soil to groundwater residual contaminant level (RCL).

Shaded Value exceeds an industrial direct contact RCL.

Shaded Value exceeds a non-industrial direct contact RCL.

Soil sample collected below the water table.

NA Not analyzed.

ca Carcinogen.

Csat Saturation concentration.

GW Groundwater.

nc Non-carcinogen.

ns No established standard.

Table A-2

Soil Sample Analytical Results - Volatile Organic Compounds (VOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Non-Industrial Direct Contact		Industrial Direct Contact		Soil-to-GW RCL	Soil Sample Results (mg/kg)								
	Sample ID (Depth) Sample Date (Depth to Groundwater)	RCL	Basis	RCL		Basis	SB-9 (4-5') 8/1/17 (4.75')	SB-11 (4-5') 7/31/17 (4.41')	SB-12 (1-1.5') 8/1/17 (4.35')	SB-13 (1.5-2') 7/28/17 (3.45')	SB-14 (3-4') 7/28/17 (4.18')	SB-15 (5-7') 7/28/17 (2.97')	SB-16 (2-2.5') 8/2/17	SB-17 (4-5') 8/2/17 (7.17')
Tetrachloroethane, 1,1,1,2-		2.78	ca	12.3	ca	0.053	<0.200	<0.250	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Trichloroethane, 1,1,1-		640	Csat	640	Csat	0.140	<0.200	<0.250	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Tetrachloroethane, 1,1,2,2-		0.81	ca	3.6	ca	0.0002	<0.200	<0.250	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Trichloroethane, 1,1,2-		1.59	ca	7.01	ca	0.003	<0.200	<0.250	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Dichloroethane, 1,1-		5.06	ca	22.2	ca	0.483	<0.200	<0.250	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Dichloroethene, 1,1-		320	nc	1,190	Csat	0.005	<0.200	<0.250	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Dichloropropene, 1,1-		ns	ns	ns	ns	ns	<0.200	<0.250	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Trichlorobenzene, 1,2,3-		62.6	nc	934	nc	ns	<0.200	<0.250	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Trichloropropane, 1,2,3-		0.0051	ca	0.109	ca	0.052	<0.200	<0.250	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Trichlorobenzene, 1,2,4-		24	ca	113	ca	0.408	<0.380	<0.476	<0.0476	<0.0476	<0.0951	<2.38	<0.0476	<0.0476
Trimethylbenzene, 1,2,4-		219	Csat	219	Csat	1.382	<0.200	<b>98.7</b>	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Dibromo-3-chloropropane, 1,		0.0075	ca	0.0923	ca	0.0002	<0.730	<0.912	<0.0912	<0.0912	<0.182	<4.56	<0.0912	<0.0912
Dibromoethane, 1,2-		0.05	ca	0.221	ca	ns	<0.200	<0.250	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Dichlorobenzene, 1,2-		376	Csat	376	Csat	1.168	<0.200	<0.250	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Dichloroethane, 1,2-		0.652	ca	<b>2.87</b>	ca	0.003	<0.200	<0.250	<0.0250	<b>0.0405 J</b>	<b>18.2</b>	<b>382</b>	<0.0250	<0.0250
Dichloropropane, 1,2-		0.406	ca	1.78	ca	0.003	<0.200	<0.250	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Trimethylbenzene, 1,3,5-		182	Csat	182	Csat	1.382	<b>0.855</b>	<b>28.3</b>	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Dichlorobenzene, 1,3-		297	Csat	297	Csat	1.153	<0.200	<0.250	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Dichloropropane, 1,3-		1,490	Csat	1,490	Csat	ns	<0.200	<0.250	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Dichlorobenzene, 1,4-		3.74	ca	16.4	ca	0.144	<0.200	<0.250	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Dichloropropane, 2,2-		191	Csat	191	Csat	ns	<0.200	<0.250	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Chlorotoluene, 2-		907	Csat	907	Csat	ns	<0.200	<0.250	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Chlorotoluene, 4-		253	Csat	253	Csat	ns	<0.200	<0.250	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Benzene		1.6	ca	7.07	ca	0.005	<0.200	<b>2.18</b>	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Bromobenzene		342	nc	679	Csat	ns	<0.200	<0.250	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Bromochloromethane		216	nc	906	nc	ns	<0.200	<0.250	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Bromodichloromethane		0.418	ca	1.83	ca	0.0003	<0.200	<0.250	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Bromoform		25.4	ca	113	ca	0.002	<0.200	<0.250	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Bromomethane		9.6	nc	43	nc	0.005	<0.559	<0.699	<0.0699	<0.0699	<0.140	<3.50	<0.0699	<0.0699
Carbon tetrachloride		0.916	ca	4.03	ca	0.004	<0.200	<0.250	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Chlorobenzene		370	nc	761	Csat	ns	<0.200	<0.250	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Chloroethane		ns	ns	ns	ns	0.227	<0.536	<0.670	<0.0670	<0.0670	<0.134	<3.35	<0.0670	<0.0670
Chloroform		0.454	ca	1.98	ca	0.0033	<0.372	<0.464	<0.0464	<0.0464	<0.0929	<2.32	<0.0464	<0.0464
Chloromethane		159	nc	669	nc	0.016	<0.200	<0.250	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Dibromochloromethane		8.28	ca	38.9	ca	0.032	<0.200	<0.250	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Dibromomethane		34	nc	143	nc	ns	<0.200	<0.250	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Dichlorodifluoromethane		126	nc	530	nc	3.086	<0.200	<0.250	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Diisopropyl ether		2,260	Csat	2,260	Csat	ns	<0.200	<0.250	<0.0250	<0.0250	<b>0.177 J</b>	<1.25	<0.0250	<0.0250
Ethylbenzene		8.02	ca	<b>35.4</b>	ca	2	<0.200	<b>54.6</b>	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Hexachloro-1,3-butadiene		1.63	ca	7.19	ca	ns	<0.200	<0.250	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Isopropylbenzene (Cumene)		268	Csat	268	Csat	ns	<b>0.927</b>	<b>4.69</b>	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Methyl-tert-butyl ether		63.8	ca	282	ca	0.027	<0.200	<0.250	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Methylene Chloride		61.8	ca	1,150	ca	0.003	<0.200	<b>0.459 J</b>	<0.0250	<0.0250	<b>0.0861 J</b>	<1.25	<b>0.0320 J</b>	<0.0250
Naphthalene		5.52	ca	24.1	ca	0.6582	<b>3.18</b>	<b>10.3</b>	<0.0400	<0.0400	<b>0.396 J</b>	<2.00	<b>0.151 J</b>	<0.0400



Table A-2

Soil Sample Analytical Results - Volatile Organic Compounds (VOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Non-Industrial Direct Contact		Industrial Direct Contact		Soil-to-GW RCL	Soil Sample Results (mg/kg)								
	Sample ID (Depth) Sample Date (Depth to Groundwater)	RCL	Basis	RCL		Basis	SB-9 (4-5') 8/1/17 (4.75')	SB-11 (4-5') 7/31/17 (4.41')	SB-12 (1-1.5') 8/1/17 (4.35')	SB-13 (1.5-2') 7/28/17 (3.45')	SB-14 (3-4') 7/28/17 (4.18')	SB-15 (5-7') 7/28/17 (2.97')	SB-16 (2-2.5') 8/2/17	SB-17 (4-5') 8/2/17 (7.17')
Styrene		867	Csat	867	Csat	0.220	<0.200	<0.250	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Tetrachloroethene		33	ca	145	ca	0.0045	<0.200	<0.250	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Toluene		818	Csat	818	Csat	1.107	<0.200	<b>64.7</b>	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Trichloroethene		1.3	ca	8.41	ca	0.0036	<0.200	<0.250	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Trichlorofluoromethane		1,230	Csat	1,230	Csat	ns	<0.200	<0.250	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Vinyl chloride		0.067	ca	2.08	ca	0.0001	<0.200	<0.250	<0.0250	<0.0250	<b>0.405</b>	<1.25	<0.0250	<0.0250
Dichloroethylene, 1,2-cis-		156	nc	2,340	nc	0.041	<0.200	<0.250	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
cis-1,3-Dichloropropene		1,210	Csat	1,210	Csat	0.0003	<0.200	<0.250	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
m&p-Xylene*		388	Csat	388	Csat	3.960	<0.400	<b>204</b>	<0.0500	<0.0500	<0.100	<2.50	<0.0500	<0.0500
n-Butylbenzene		108	Csat	108	Csat	ns	<b>7.19</b>	<0.250	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
n-Propylbenzene		ns	ns	ns	ns	ns	<b>3.42</b>	<b>17.9</b>	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
o-Xylene*		434	Csat	434	Csat	3.960	<0.200	<b>76.7</b>	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
p-Isopropyltoluene		162	Csat	162	Csat	ns	<b>1.81</b>	<b>0.984</b>	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Butylbenzene, sec-		145	Csat	145	Csat	ns	<b>5.27</b>	<b>1.48</b>	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Butylbenzene, tert-		183	Csat	183	Csat	ns	<b>0.469 J</b>	<0.250	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Dichloroethylene, 1,2-trans		1,560	nc	1,850	Csat	0.063	<0.200	<0.250	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250
Dichloropropene, 1,3-trans		2.37	ca	10.6	ca	ns	<0.200	<0.250	<0.0250	<0.0250	<0.0500	<1.25	<0.0250	<0.0250

## Notes:

All units are milligrams per kilogram (mg/kg).

All depths are measured in feet below ground surface (ft bgs).

VOCs analyzed by Method 8260 and preserved in the field with Methanol.

\* Xylene soil to groundwater standard is for total xylene concentrations.

**Bold** Value exceeds laboratory detection limit (DL).*Italic* Value exceeds a soil to groundwater residual contaminant level (RCL).

Shaded Value exceeds an industrial direct contact RCL.

Shaded Value exceeds a non-industrial direct contact RCL.

Soil sample collected below the water table.

NA Not analyzed.

ca Carcinogen.

Csat Saturation concentration.

GW Groundwater.

nc Non-carcinogen.

ns No established standard.

Table A-2

Soil Sample Analytical Results - Volatile Organic Compounds (VOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Non-Industrial Direct Contact		Industrial Direct Contact		Soil-to-GW RCL	Soil Sample Results (mg/kg)								
	Sample ID (Depth) Sample Date (Depth to Groundwater)	RCL	Basis	RCL		Basis	SB-18 (4-5') 7/28/17 (6.28')	SB-19 (1.5-2') 7/31/17 (2.88')	SB-20 (3-4') 7/31/17 (4.99')	SB-21 (3-3.5') 7/31/17 (6.54')	SB-22 (4-5') 7/31/17 (6.53')	SB-23 (2-2.5') 7/31/17 (4.08')	SB-24 (3-4') 7/31/17 (8.11')	SB-25 (3-4') 7/31/17 (2.97')
Tetrachloroethane, 1,1,1,2-		2.78	ca	12.3	ca	0.053	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Trichloroethane, 1,1,1-		640	Csat	640	Csat	0.140	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Tetrachloroethane, 1,1,2,2-		0.81	ca	3.6	ca	0.0002	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Trichloroethane, 1,1,2-		1.59	ca	7.01	ca	0.003	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Dichloroethane, 1,1-		5.06	ca	22.2	ca	0.483	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Dichloroethene, 1,1-		320	nc	1,190	Csat	0.005	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Dichloropropene, 1,1-		ns	ns	ns	ns	ns	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Trichlorobenzene, 1,2,3-		62.6	nc	934	nc	ns	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Trichloropropane, 1,2,3-		0.0051	ca	0.109	ca	0.052	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Trichlorobenzene, 1,2,4-		24	ca	113	ca	0.408	<0.0476	<0.0476	<0.0485	<0.0476	<0.0476	<0.0476	<0.0476	<0.0476
Trimethylbenzene, 1,2,4-		219	Csat	219	Csat	1.382	<0.0250	<b>0.0339 J</b>	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Dibromo-3-chloropropane, 1,		0.0075	ca	0.0923	ca	0.0002	<0.0912	<0.0912	<0.0931	<0.0912	<0.0912	<0.0912	<0.0912	<0.0912
Dibromoethane, 1,2-		0.05	ca	0.221	ca	ns	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Dichlorobenzene, 1,2-		376	Csat	376	Csat	1.168	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Dichloroethane, 1,2-		0.652	ca	2.87	ca	0.003	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Dichloropropane, 1,2-		0.406	ca	1.78	ca	0.003	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Trimethylbenzene, 1,3,5-		182	Csat	182	Csat	1.382	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Dichlorobenzene, 1,3-		297	Csat	297	Csat	1.153	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Dichloropropane, 1,3-		1,490	Csat	1,490	Csat	ns	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Dichlorobenzene, 1,4-		3.74	ca	16.4	ca	0.144	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Dichloropropane, 2,2-		191	Csat	191	Csat	ns	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Chlorotoluene, 2-		907	Csat	907	Csat	ns	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Chlorotoluene, 4-		253	Csat	253	Csat	ns	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Benzene		1.6	ca	7.07	ca	0.005	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Bromobenzene		342	nc	679	Csat	ns	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Bromochloromethane		216	nc	906	nc	ns	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Bromodichloromethane		0.418	ca	1.83	ca	0.0003	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Bromoform		25.4	ca	113	ca	0.002	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Bromomethane		9.6	nc	43	nc	0.005	<0.0699	<0.0699	<0.0713	<0.0699	<0.0699	<0.0699	<0.0699	<0.0699
Carbon tetrachloride		0.916	ca	4.03	ca	0.004	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Chlorobenzene		370	nc	761	Csat	ns	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Chloroethane		ns	ns	ns	ns	0.227	<0.0670	<0.0670	<0.0684	<0.0670	<0.0670	<0.0670	<0.0670	<0.0670
Chloroform		0.454	ca	1.98	ca	0.0033	<0.0464	<0.0464	<0.0474	<0.0464	<0.0464	<0.0464	<0.0464	<0.0464
Chloromethane		159	nc	669	nc	0.016	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Dibromochloromethane		8.28	ca	38.9	ca	0.032	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Dibromomethane		34	nc	143	nc	ns	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Dichlorodifluoromethane		126	nc	530	nc	3.086	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Diisopropyl ether		2,260	Csat	2,260	Csat	ns	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Ethylbenzene		8.02	ca	35.4	ca	2	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Hexachloro-1,3-butadiene		1.63	ca	7.19	ca	ns	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Isopropylbenzene (Cumene)		268	Csat	268	Csat	ns	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Methyl-tert-butyl ether		63.8	ca	282	ca	0.027	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Methylene Chloride		61.8	ca	1,150	ca	0.003	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Naphthalene		5.52	ca	24.1	ca	0.6582	<0.0400	<0.0400	<0.0409	<0.0400	<0.0400	<b>0.164 J</b>	<b>0.0712 J</b>	



Table A-2

Soil Sample Analytical Results - Volatile Organic Compounds (VOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Non-Industrial Direct Contact		Industrial Direct Contact		Soil-to-GW RCL	Soil Sample Results (mg/kg)								
	Sample ID (Depth) Sample Date (Depth to Groundwater)	RCL	Basis	RCL		Basis	SB-18 (4-5') 7/28/17 (6.28')	SB-19 (1.5-2') 7/31/17 (2.88')	SB-20 (3-4') 7/31/17 (4.99')	SB-21 (3-3.5') 7/31/17 (6.54')	SB-22 (4-5') 7/31/17 (6.53')	SB-23 (2-2.5') 7/31/17 (4.08')	SB-24 (3-4') 7/31/17 (8.11')	SB-25 (3-4') 7/31/17 (2.97')
Styrene		867	Csat	867	Csat	0.220	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Tetrachloroethene		33	ca	145	ca	0.0045	<0.0250	<0.0250	<b>0.0299 J</b>	<b>0.0647 J</b>	<0.0250	<0.0250	<0.0250	<0.0250
Toluene		818	Csat	818	Csat	1.107	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<b>0.0617 J</b>
Trichloroethene		1.3	ca	8.41	ca	0.0036	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Trichlorofluoromethane		1,230	Csat	1,230	Csat	ns	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Vinyl chloride		0.067	ca	2.08	ca	0.0001	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Dichloroethylene, 1,2-cis-		156	nc	2,340	nc	0.041	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
cis-1,3-Dichloropropene		1,210	Csat	1,210	Csat	0.0003	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
m&p-Xylene*		388	Csat	388	Csat	3.960	<0.0500	<0.0500	<0.0510	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500
n-Butylbenzene		108	Csat	108	Csat	ns	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
n-Propylbenzene		ns	ns	ns	ns	ns	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
o-Xylene*		434	Csat	434	Csat	3.960	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<b>0.0407 J</b>
p-Isopropyltoluene		162	Csat	162	Csat	ns	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Butylbenzene, sec-		145	Csat	145	Csat	ns	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Butylbenzene, tert-		183	Csat	183	Csat	ns	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Dichloroethylene, 1,2-trans		1,560	nc	1,850	Csat	0.063	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Dichloropropene, 1,3-trans		2.37	ca	10.6	ca	ns	<0.0250	<0.0250	<0.0255	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250

## Notes:

All units are milligrams per kilogram (mg/kg).

All depths are measured in feet below ground surface (ft bgs).

VOCs analyzed by Method 8260 and preserved in the field with Methanol.

\* Xylene soil to groundwater standard is for total xylene concentrations.

**Bold** Value exceeds laboratory detection limit (DL).*Italic* Value exceeds a soil to groundwater residual contaminant level (RCL).

Shaded Value exceeds an industrial direct contact RCL.

Shaded Value exceeds a non-industrial direct contact RCL.

Soil sample collected below the water table.

NA Not analyzed.

ca Carcinogen.

Csat Saturation concentration.

GW Groundwater.

nc Non-carcinogen.

ns No established standard.

Table A-2

Soil Sample Analytical Results - Volatile Organic Compounds (VOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Non-Industrial Direct Contact		Industrial Direct Contact		Soil-to-GW RCL	Soil Sample Results (mg/kg)								
	Sample ID (Depth) Sample Date (Depth to Groundwater)	RCL	Basis	RCL		Basis	SB-29 (2-2.5') 7/28/17 (3.21')	SB-33 (2.5-3') 7/28/17 (3.74')	SB-35 (3.5-4.5') 7/27/17 (2.6')	SB-38 (8-10') 7/27/17 (6.5')	SB-39 (3-4') 8/1/17 (1.5')	SB-40 (4-5') 8/1/17 (8.5')	SB-41 (1-1.5') 8/1/17 (4.43')	SB-42 (1-2') 7/31/17 (12.79')
Tetrachloroethane, 1,1,1,2-		2.78	ca	12.3	ca	0.053	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Trichloroethane, 1,1,1-		640	Csat	640	Csat	0.140	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Tetrachloroethane, 1,1,2,2-		0.81	ca	3.6	ca	0.0002	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Trichloroethane, 1,1,2-		1.59	ca	7.01	ca	0.003	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Dichloroethane, 1,1-		5.06	ca	22.2	ca	0.483	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Dichloroethene, 1,1-		320	nc	1,190	Csat	0.005	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Dichloropropene, 1,1-		ns	ns	ns	ns	ns	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Trichlorobenzene, 1,2,3-		62.6	nc	934	nc	ns	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Trichloropropane, 1,2,3-		0.0051	ca	0.109	ca	0.052	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Trichlorobenzene, 1,2,4-		24	ca	113	ca	0.408	<0.0476	<0.0476	<0.0476	<0.0476	<0.0476	<0.0476	<0.0528	<0.0476
Trimethylbenzene, 1,2,4-		219	Csat	219	Csat	1.382	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Dibromo-3-chloropropane, 1,		0.0075	ca	0.0923	ca	0.0002	<0.0912	<0.0912	<0.0912	<0.0912	<0.0912	<0.0912	<0.101	<0.0912
Dibromoethane, 1,2-		0.05	ca	0.221	ca	ns	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Dichlorobenzene, 1,2-		376	Csat	376	Csat	1.168	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Dichloroethane, 1,2-		0.652	ca	2.87	ca	0.003	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Dichloropropane, 1,2-		0.406	ca	1.78	ca	0.003	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Trimethylbenzene, 1,3,5-		182	Csat	182	Csat	1.382	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Dichlorobenzene, 1,3-		297	Csat	297	Csat	1.153	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Dichloropropane, 1,3-		1,490	Csat	1,490	Csat	ns	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Dichlorobenzene, 1,4-		3.74	ca	16.4	ca	0.144	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Dichloropropane, 2,2-		191	Csat	191	Csat	ns	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Chlorotoluene, 2-		907	Csat	907	Csat	ns	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Chlorotoluene, 4-		253	Csat	253	Csat	ns	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Benzene		1.6	ca	7.07	ca	0.005	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Bromobenzene		342	nc	679	Csat	ns	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Bromochloromethane		216	nc	906	nc	ns	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Bromodichloromethane		0.418	ca	1.83	ca	0.0003	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Bromoform		25.4	ca	113	ca	0.002	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Bromomethane		9.6	nc	43	nc	0.005	<0.0699	<0.0699	<0.0699	<0.0699	<0.0699	<0.0699	<0.0777	<0.0699
Carbon tetrachloride		0.916	ca	4.03	ca	0.004	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Chlorobenzene		370	nc	761	Csat	ns	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Chloroethane		ns	ns	ns	ns	0.227	<0.0670	<0.0670	<0.0670	<0.0670	<0.0670	<0.0670	<0.0745	<0.0670
Chloroform		0.454	ca	1.98	ca	0.0033	<0.0464	<0.0464	<0.0464	<0.0464	<0.0464	<0.0464	<0.0516	<0.0464
Chloromethane		159	nc	669	nc	0.016	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Dibromochloromethane		8.28	ca	38.9	ca	0.032	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Dibromomethane		34	nc	143	nc	ns	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Dichlorodifluoromethane		126	nc	530	nc	3.086	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Diisopropyl ether		2,260	Csat	2,260	Csat	ns	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Ethylbenzene		8.02	ca	35.4	ca	2	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Hexachloro-1,3-butadiene		1.63	ca	7.19	ca	ns	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Isopropylbenzene (Cumene)		268	Csat	268	Csat	ns	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Methyl-tert-butyl ether		63.8	ca	282	ca	0.027	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Methylene Chloride		61.8	ca	1,150	ca	0.003	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Naphthalene		5.52	ca	24.1	ca	0.6582	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0445	<0.0400



Table A-2

Soil Sample Analytical Results - Volatile Organic Compounds (VOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Non-Industrial Direct Contact		Industrial Direct Contact		Soil-to-GW RCL	Soil Sample Results (mg/kg)								
	Sample ID (Depth) Sample Date (Depth to Groundwater)	RCL	Basis	RCL		Basis	SB-29 (2-2.5') 7/28/17 (3.21')	SB-33 (2.5-3') 7/28/17 (3.74')	SB-35 (3.5-4.5') 7/27/17 (2.6')	SB-38 (8-10') 7/27/17 (6.5')	SB-39 (3-4') 8/1/17 (1.5')	SB-40 (4-5') 8/1/17 (8.5')	SB-41 (1-1.5') 8/1/17 (4.43')	SB-42 (1-2') 7/31/17 (12.79')
Styrene		867	Csat	867	Csat	0.220	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Tetrachloroethene		33	ca	145	ca	0.0045	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Toluene		818	Csat	818	Csat	1.107	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Trichloroethene		1.3	ca	8.41	ca	0.0036	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Trichlorofluoromethane		1,230	Csat	1,230	Csat	ns	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Vinyl chloride		0.067	ca	2.08	ca	0.0001	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Dichloroethylene, 1,2-cis-		156	nc	2,340	nc	0.041	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
cis-1,3-Dichloropropene		1,210	Csat	1,210	Csat	0.0003	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
m&p-Xylene*		388	Csat	388	Csat	3.960	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0556	<0.0500
n-Butylbenzene		108	Csat	108	Csat	ns	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
n-Propylbenzene		ns	ns	ns	ns	ns	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
o-Xylene*		434	Csat	434	Csat	3.960	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
p-Isopropyltoluene		162	Csat	162	Csat	ns	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Butylbenzene, sec-		145	Csat	145	Csat	ns	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Butylbenzene, tert-		183	Csat	183	Csat	ns	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Dichloroethylene, 1,2-trans		1,560	nc	1,850	Csat	0.063	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250
Dichloropropene, 1,3-trans		2.37	ca	10.6	ca	ns	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0278	<0.0250

**Notes:**

All units are milligrams per kilogram (mg/kg).

All depths are measured in feet below ground surface (ft bgs).

VOCs analyzed by Method 8260 and preserved in the field with Methanol.

\* Xylene soil to groundwater standard is for total xylene concentrations.

**Bold** Value exceeds laboratory detection limit (DL).*Italic* Value exceeds a soil to groundwater residual contaminant level (RCL).

Shaded Value exceeds an industrial direct contact RCL.

Shaded Value exceeds a non-industrial direct contact RCL.

Soil sample collected below the water table.

NA Not analyzed.

ca Carcinogen.

Csat Saturation concentration.

GW Groundwater.

nc Non-carcinogen.

ns No established standard.

Table A-2

Soil Sample Analytical Results - Volatile Organic Compounds (VOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Non-Industrial Direct Contact		Industrial Direct Contact		Soil-to-GW RCL	Soil Sample Results (mg/kg)								
	Sample ID (Depth) Sample Date (Depth to Groundwater)	RCL	Basis	RCL		Basis	SB-43 (3-4') 8/1/17 (6.25')	SB-44 (2-3') 8/1/17 (5.28')	SB-45 (2-3') 8/1/17 (3.86')	SB-46 (4-5') 8/1/17 (4.11')	SB-47 (2-2.5') 8/1/17 (4.02')	SB-48 (1-2') 8/1/17 (6.37')	SB-49 (5-7') 8/2/17 (4.96')	SB-50 (1-2') 8/2/17 (5.04')
Tetrachloroethane, 1,1,1,2-		2.78	ca	12.3	ca	0.053	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Trichloroethane, 1,1,1-		640	Csat	640	Csat	0.140	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Tetrachloroethane, 1,1,2,2-		0.81	ca	3.6	ca	0.0002	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Trichloroethane, 1,1,2-		1.59	ca	7.01	ca	0.003	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Dichloroethane, 1,1-		5.06	ca	22.2	ca	0.483	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Dichloroethene, 1,1-		320	nc	1,190	Csat	0.005	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Dichloropropene, 1,1-		ns	ns	ns	ns	ns	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Trichlorobenzene, 1,2,3-		62.6	nc	934	nc	ns	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Trichloropropane, 1,2,3-		0.0051	ca	0.109	ca	0.052	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Trichlorobenzene, 1,2,4-		24	ca	113	ca	0.408	<0.0476	<0.0476	<0.0476	<0.0476	<0.0476	<0.0476	<0.0476	<0.0476
Trimethylbenzene, 1,2,4-		219	Csat	219	Csat	1.382	<0.0250	<b>0.0291 J</b>	<b>0.193</b>	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Dibromo-3-chloropropane, 1,		0.0075	ca	0.0923	ca	0.0002	<0.0912	<0.0912	<0.0912	<0.0912	<0.0912	<0.0912	<0.0912	<0.0912
Dibromoethane, 1,2-		0.05	ca	0.221	ca	ns	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Dichlorobenzene, 1,2-		376	Csat	376	Csat	1.168	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Dichloroethane, 1,2-		0.652	ca	2.87	ca	0.003	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Dichloropropane, 1,2-		0.406	ca	1.78	ca	0.003	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Trimethylbenzene, 1,3,5-		182	Csat	182	Csat	1.382	<0.0250	<0.0250	<b>0.0653 J</b>	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Dichlorobenzene, 1,3-		297	Csat	297	Csat	1.153	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Dichloropropane, 1,3-		1,490	Csat	1,490	Csat	ns	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Dichlorobenzene, 1,4-		3.74	ca	16.4	ca	0.144	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Dichloropropane, 2,2-		191	Csat	191	Csat	ns	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Chlorotoluene, 2-		907	Csat	907	Csat	ns	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Chlorotoluene, 4-		253	Csat	253	Csat	ns	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Benzene		1.6	ca	7.07	ca	0.005	<0.0250	<0.0250	<b>0.0536 J</b>	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Bromobenzene		342	nc	679	Csat	ns	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Bromochloromethane		216	nc	906	nc	ns	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Bromodichloromethane		0.418	ca	1.83	ca	0.0003	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Bromoform		25.4	ca	113	ca	0.002	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Bromomethane		9.6	nc	43	nc	0.005	<0.0699	<0.0699	<0.0699	<0.0699	<0.0699	<0.0699	<0.0699	<0.0699
Carbon tetrachloride		0.916	ca	4.03	ca	0.004	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Chlorobenzene		370	nc	761	Csat	ns	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Chloroethane		ns	ns	ns	ns	0.227	<0.0670	<0.0670	<0.0670	<0.0670	<0.0670	<0.0670	<0.0670	<0.0670
Chloroform		0.454	ca	1.98	ca	0.0033	<0.0464	<0.0464	<0.0464	<0.0464	<0.0464	<0.0464	<0.0464	<0.0464
Chloromethane		159	nc	669	nc	0.016	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Dibromochloromethane		8.28	ca	38.9	ca	0.032	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Dibromomethane		34	nc	143	nc	ns	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Dichlorodifluoromethane		126	nc	530	nc	3.086	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Diisopropyl ether		2,260	Csat	2,260	Csat	ns	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Ethylbenzene		8.02	ca	35.4	ca	2	<0.0250	<0.0250	<b>0.0828</b>	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Hexachloro-1,3-butadiene		1.63	ca	7.19	ca	ns	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Isopropylbenzene (Cumene)		268	Csat	268	Csat	ns	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Methyl-tert-butyl ether		63.8	ca	282	ca	0.027	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Methylene Chloride		61.8	ca	1,150	ca	0.003	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Naphthalene		5.52	ca	24.1	ca	0.6582	<0.0400	<b>0.304</b>	<b>0.196 J</b>	<b>0.0513 J</b>	<0.0400	<0.0400	<0.0400	<0.0400



Table A-2

Soil Sample Analytical Results - Volatile Organic Compounds (VOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Non-Industrial Direct Contact		Industrial Direct Contact		Soil-to-GW RCL	Soil Sample Results (mg/kg)								
	Sample ID (Depth) Sample Date (Depth to Groundwater)	RCL	Basis	RCL		Basis	SB-43 (3-4') 8/1/17 (6.25')	SB-44 (2-3') 8/1/17 (5.28')	SB-45 (2-3') 8/1/17 (3.86')	SB-46 (4-5') 8/1/17 (4.11')	SB-47 (2-2.5') 8/1/17 (4.02')	SB-48 (1-2') 8/1/17 (6.37')	SB-49 (5-7') 8/2/17 (4.96')	SB-50 (1-2') 8/2/17 (5.04')
Styrene		867	Csat	867	Csat	0.220	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Tetrachloroethene		33	ca	145	ca	0.0045	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Toluene		818	Csat	818	Csat	1.107	<0.0250	<0.0250	<b>0.143</b>	<b>0.0392 J</b>	<0.0250	<0.0250	<0.0250	<0.0250
Trichloroethene		1.3	ca	8.41	ca	0.0036	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Trichlorofluoromethane		1,230	Csat	1,230	Csat	ns	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Vinyl chloride		0.067	ca	2.08	ca	0.0001	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Dichloroethylene, 1,2-cis-		156	nc	2,340	nc	0.041	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
cis-1,3-Dichloropropene		1,210	Csat	1,210	Csat	0.0003	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
m&p-Xylene*		388	Csat	388	Csat	3.960	<0.0500	<0.0500	<b>0.190</b>	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500
n-Butylbenzene		108	Csat	108	Csat	ns	<0.0250	<0.0250	<b>0.0320 J</b>	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
n-Propylbenzene		ns	ns	ns	ns	ns	<0.0250	<0.0250	<b>0.0373 J</b>	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
o-Xylene*		434	Csat	434	Csat	3.960	<0.0250	<0.0250	<b>0.152</b>	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
p-Isopropyltoluene		162	Csat	162	Csat	ns	<0.0250	<0.0250	<b>0.0339 J</b>	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Butylbenzene, sec-		145	Csat	145	Csat	ns	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Butylbenzene, tert-		183	Csat	183	Csat	ns	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Dichloroethylene, 1,2-trans		1,560	nc	1,850	Csat	0.063	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Dichloropropene, 1,3-trans		2.37	ca	10.6	ca	ns	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250

## Notes:

All units are milligrams per kilogram (mg/kg).

All depths are measured in feet below ground surface (ft bgs).

VOCs analyzed by Method 8260 and preserved in the field with Methanol.

\* Xylene soil to groundwater standard is for total xylene concentrations.

**Bold** Value exceeds laboratory detection limit (DL).*Italic* Value exceeds a soil to groundwater residual contaminant level (RCL).

Shaded Value exceeds an industrial direct contact RCL.

Shaded Value exceeds a non-industrial direct contact RCL.

Soil sample collected below the water table.

NA Not analyzed.

ca Carcinogen.

Csat Saturation concentration.

GW Groundwater.

nc Non-carcinogen.

ns No established standard.

Table A-2

Soil Sample Analytical Results - Volatile Organic Compounds (VOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Non-Industrial Direct Contact		Industrial Direct Contact		Soil-to-GW RCL	Soil Sample Results (mg/kg)		
	Sample ID (Depth) Sample Date (Depth to Groundwater)	RCL	Basis	RCL		Basis	SB-51 (1-1.5') 8/2/17 (4.86')	SB-52 (4-5') 7/28/17 (7.62')
Tetrachloroethane, 1,1,1,2-		2.78	ca	12.3	ca	0.053	<0.0250	<0.0250
Trichloroethane, 1,1,1-		640	Csat	640	Csat	0.140	<0.0250	<0.0250
Tetrachloroethane, 1,1,2,2-		0.81	ca	3.6	ca	0.0002	<0.0250	<0.0250
Trichloroethane, 1,1,2-		1.59	ca	7.01	ca	0.003	<0.0250	<0.0250
Dichloroethane, 1,1-		5.06	ca	22.2	ca	0.483	<0.0250	<0.0250
Dichloroethene, 1,1-		320	nc	1,190	Csat	0.005	<0.0250	<0.0250
Dichloropropene, 1,1-		ns	ns	ns	ns	ns	<0.0250	<0.0250
Trichlorobenzene, 1,2,3-		62.6	nc	934	nc	ns	<0.0250	<0.0250
Trichloropropane, 1,2,3-		0.0051	ca	0.109	ca	0.052	<0.0250	<0.0250
Trichlorobenzene, 1,2,4-		24	ca	113	ca	0.408	<0.0476	<0.0476
Trimethylbenzene, 1,2,4-		219	Csat	219	Csat	1.382	<0.0250	<0.0250
Dibromo-3-chloropropane, 1,		0.0075	ca	0.0923	ca	0.0002	<0.0912	<0.0912
Dibromoethane, 1,2-		0.05	ca	0.221	ca	ns	<0.0250	<0.0250
Dichlorobenzene, 1,2-		376	Csat	376	Csat	1.168	<0.0250	<0.0250
Dichloroethane, 1,2-		0.652	ca	2.87	ca	0.003	<0.0250	<0.0250
Dichloropropane, 1,2-		0.406	ca	1.78	ca	0.003	<0.0250	<0.0250
Trimethylbenzene, 1,3,5-		182	Csat	182	Csat	1.382	<0.0250	<0.0250
Dichlorobenzene, 1,3-		297	Csat	297	Csat	1.153	<0.0250	<0.0250
Dichloropropane, 1,3-		1,490	Csat	1,490	Csat	ns	<0.0250	<0.0250
Dichlorobenzene, 1,4-		3.74	ca	16.4	ca	0.144	<0.0250	<0.0250
Dichloropropane, 2,2-		191	Csat	191	Csat	ns	<0.0250	<0.0250
Chlorotoluene, 2-		907	Csat	907	Csat	ns	<0.0250	<0.0250
Chlorotoluene, 4-		253	Csat	253	Csat	ns	<0.0250	<0.0250
Benzene		1.6	ca	7.07	ca	0.005	<0.0250	<0.0250
Bromobenzene		342	nc	679	Csat	ns	<0.0250	<0.0250
Bromochloromethane		216	nc	906	nc	ns	<0.0250	<0.0250
Bromodichloromethane		0.418	ca	1.83	ca	0.0003	<0.0250	<0.0250
Bromoform		25.4	ca	113	ca	0.002	<0.0250	<0.0250
Bromomethane		9.6	nc	43	nc	0.005	<0.0699	<0.0699
Carbon tetrachloride		0.916	ca	4.03	ca	0.004	<0.0250	<0.0250
Chlorobenzene		370	nc	761	Csat	ns	<0.0250	<0.0250
Chloroethane		ns	ns	ns	ns	0.227	<0.0670	<0.0670
Chloroform		0.454	ca	1.98	ca	0.0033	<0.0464	<0.0464
Chloromethane		159	nc	669	nc	0.016	<0.0250	<0.0250
Dibromochloromethane		8.28	ca	38.9	ca	0.032	<0.0250	<0.0250
Dibromomethane		34	nc	143	nc	ns	<0.0250	<0.0250
Dichlorodifluoromethane		126	nc	530	nc	3.086	<0.0250	<0.0250
Diisopropyl ether		2,260	Csat	2,260	Csat	ns	<0.0250	<0.0250
Ethylbenzene		8.02	ca	35.4	ca	2	<0.0250	<0.0250
Hexachloro-1,3-butadiene		1.63	ca	7.19	ca	ns	<0.0250	<0.0250
Isopropylbenzene (Cumene)		268	Csat	268	Csat	ns	<0.0250	<0.0250
Methyl-tert-butyl ether		63.8	ca	282	ca	0.027	<0.0250	<0.0250
Methylene Chloride		61.8	ca	1,150	ca	0.003	<0.0250	<b>0.0340 J</b>
Naphthalene		5.52	ca	24.1	ca	0.6582	<b>0.0676 J</b>	<0.0400



Table A-2

Soil Sample Analytical Results - Volatile Organic Compounds (VOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Non-Industrial Direct Contact		Industrial Direct Contact		Soil-to-GW RCL	Soil Sample Results (mg/kg)		
	Sample ID (Depth) Sample Date (Depth to Groundwater)	RCL	Basis	RCL		Basis	SB-51 (1-1.5') 8/2/17 (4.86')	SB-52 (4-5') 7/28/17 (7.62')
Styrene		867	Csat	867	Csat	0.220	<0.0250	<0.0250
Tetrachloroethene		33	ca	145	ca	0.0045	<b>0.244</b>	<0.0250
Toluene		818	Csat	818	Csat	1.107	<0.0250	<0.0250
Trichloroethene		1.3	ca	8.41	ca	0.0036	<0.0250	<0.0250
Trichlorofluoromethane		1,230	Csat	1,230	Csat	ns	<0.0250	<0.0250
Vinyl chloride		0.067	ca	2.08	ca	0.0001	<0.0250	<0.0250
Dichloroethylene, 1,2-cis-		156	nc	2,340	nc	0.041	<0.0250	<0.0250
cis-1,3-Dichloropropene		1,210	Csat	1,210	Csat	0.0003	<0.0250	<0.0250
m&p-Xylene*		388	Csat	388	Csat	3.960	<0.0500	<0.0500
n-Butylbenzene		108	Csat	108	Csat	ns	<0.0250	<0.0250
n-Propylbenzene		ns	ns	ns	ns	ns	<0.0250	<0.0250
o-Xylene*		434	Csat	434	Csat	3.960	<0.0250	<0.0250
p-Isopropyltoluene		162	Csat	162	Csat	ns	<0.0250	<0.0250
Butylbenzene, sec-		145	Csat	145	Csat	ns	<0.0250	<0.0250
Butylbenzene, tert-		183	Csat	183	Csat	ns	<0.0250	<0.0250
Dichloroethylene, 1,2-trans		1,560	nc	1,850	Csat	0.063	<0.0250	<0.0250
Dichloropropene, 1,3-trans		2.37	ca	10.6	ca	ns	<0.0250	<0.0250

**Notes:**

All units are milligrams per kilogram (mg/kg).

All depths are measured in feet below ground surface (ft bgs).

VOCs analyzed by Method 8260 and preserved in the field with Methanol.

\* Xylene soil to groundwater standard is for total xylene concentrations.

**Bold** Value exceeds laboratory detection limit (DL).*Italic* Value exceeds a soil to groundwater residual contaminant level (RCL).

Shaded Value exceeds an industrial direct contact RCL.

Shaded Value exceeds a non-industrial direct contact RCL.

Soil sample collected below the water table.

NA Not analyzed.

ca Carcinogen.

Csat Saturation concentration.

GW Groundwater.

nc Non-carcinogen.

ns No established standard.

Table A-3

Soil Sample Analytical Results - Semi-Volatile Organic Compounds (SVOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Non-Industrial Direct Contact		Industrial Direct Contact		Soil-to-GW RCL	Soil Sample Results (mg/kg)							
	Sample ID (Depth) Sample Date (Depth to Groundwater)	RCL	Basis	RCL		Basis	SB-1 (1-1.5') 7/31/17 (6')	SB-2 (1-1.5') 7/31/17 (6')	SB-3 (8-10') 7/31/17 (6.45')	SB-4 (3-4') 7/31/17 (4.86')	SB-5 (4-5') 7/31/17 (4.44')	SB-6 (3-4') 7/31/17 (5.4')	SB-7 (10-12') 8/1/17 (12')
1,2,4-Trichlorobenzene		24	ca	113	ca	0.41	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene		376	Csat	376	Csat	1.17	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene		297	Csat	297	Csat	1.15	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene		3.74	ca	16.4	ca	0.14	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene		17.6	ca	72.7	ca	ns	<0.0044	<0.0049	<b>2.55</b>	<0.0054	<b>0.251</b>	<b>0.0260</b>	<b>0.0867</b>
2,2'-Oxybis(1-chloropropane)		ns	ns	ns	ns	ns	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol		6,320	nc	82,100	nc	ns	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol		49	ca	209	ca	ns	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol		190	nc	2,460	nc	ns	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol		1,260	nc	16,400	nc	ns	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol		126	nc	1,640	nc	ns	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene		1.74	ca	7.37	ca	0.0001	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene		0.36	ca	1.54	ca	0.0001	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene		ns	ns	ns	ns	ns	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol		391	nc	5,840	nc	ns	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene		239	nc	3,010	nc	ns	<0.0055	<0.0061	<b>7.63</b>	<0.0067	<b>0.472</b>	<b>0.0647</b>	<b>0.187</b>
2-Methylphenol(o-Cresol)		ns	ns	ns	ns	ns	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline		627	nc	8,010	nc	ns	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol		ns	ns	ns	ns	ns	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol(m&p Cresol)		ns	ns	ns	ns	ns	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine		1.21	ca	5.11	ca	ns	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline		ns	ns	ns	ns	ns	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol		ns	ns	ns	ns	ns	NA	NA	NA	NA	NA	NA	NA
4-Bromophenylphenyl ether		ns	ns	ns	ns	ns	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol		ns	ns	ns	ns	ns	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline		ns	ns	ns	ns	ns	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenylphenyl ether		ns	ns	ns	ns	ns	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline		27.10	ca	115	ca	ns	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol		ns	ns	ns	ns	ns	NA	NA	NA	NA	NA	NA	NA
Acenaphthene		3,590	nc	45,200	nc	ns	<0.0043	<0.0047	<0.0871	<0.0052	<0.0458	<0.0051	<0.0050
Acenaphthylene		0.00	ns	ns	ns	ns	<0.0036	<0.0040	<0.0740	<0.0044	<0.0389	<0.0044	<0.0042
Anthracene		17,900	nc	100,000	ceiling	197	<0.0063	<0.0070	<0.128	<0.0076	<0.0674	<0.0076	<0.0074
Benzo(a)anthracene		1.14	ca	20.8	ca	ns	<b>0.0063 J</b>	<b>0.0275</b>	<0.0712	<b>0.0132 J</b>	<b>0.0395 J</b>	<0.0042	<0.0041
Benzo(a)pyrene		0.12	ca	2.11	ca	0.47	<b>0.0049 J</b>	<b>0.0301</b>	<0.0564	<b>0.0135</b>	<0.0297	<0.0033	<0.0032
Benzo(b)fluoranthene		1.15	ca	21.1	ca	0.48	<b>0.0064 J</b>	<b>0.0419</b>	<0.0634	<b>0.0190</b>	<0.0334	<0.0037	<0.0036
Benzo(g,h,i)perylene		ns	ns	ns	0	ns	<b>0.0038 J</b>	<b>0.0245</b>	<0.0456	<b>0.0107</b>	<0.0240	<0.0027	<0.0026
Benzo(k)fluoranthene		11.5	ca	211	ca	ns	<b>0.0033 J</b>	<b>0.0185</b>	<0.0563	<b>0.0090 J</b>	<0.0296	<0.0033	<0.0032
Butylbenzylphthalate		286	ca	1,210	ca	ns	NA	NA	NA	NA	NA	NA	NA
Carbazole		ns	ns	ns	ns	ns	NA	NA	NA	NA	NA	NA	NA
Chrysene		115	ca	2,110	ca	0.14	<b>0.0052 J</b>	<b>0.0355</b>	<0.0757	<b>0.0169</b>	<b>0.0434 J</b>	<0.0045	<0.0043
Di-n-butylphthalate		6,320	nc	82,100	nc	5.03	NA	NA	NA	NA	NA	NA	NA
Di-n-octylphthalate		632	nc	8,210	nc	ns	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene		0.12	ca	2.11	ca	ns	<0.0025	<b>0.0063 J</b>	<0.0502	<b>0.0033 J</b>	<0.0264	<0.0030	<0.0029
Dibenzofuran		73	nc	1,040	nc	ns	NA	NA	NA	NA	NA	NA	NA



Table A-3

Soil Sample Analytical Results - Semi-Volatile Organic Compounds (SVOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Non-Industrial Direct Contact		Industrial Direct Contact		Soil-to-GW RCL	Soil Sample Results (mg/kg)							
	Sample ID (Depth) Sample Date (Depth to Groundwater)	RCL	Basis	RCL		Basis	SB-1 (1-1.5') 7/31/17 (6')	SB-2 (1-1.5') 7/31/17 (6')	SB-3 (8-10') 7/31/17 (6.45')	SB-4 (3-4') 7/31/17 (4.86')	SB-5 (4-5') 7/31/17 (4.44')	SB-6 (3-4') 7/31/17 (5.4')	SB-7 (10-12') 8/1/17 (12')
Diethylphthalate		50,600	nc	100,000	ceiling	ns	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate		569	nc	7,390	nc	ns	NA	NA	NA	NA	NA	NA	NA
Fluoranthene		2,390	nc	30,100	nc	88.9	<b>0.0081 J</b>	<b>0.0509</b>	<0.117	<b>0.0285</b>	<b>0.110 J</b>	<0.0069	<0.0067
Fluorene		2,390	nc	30,100	nc	14.8	<0.0045	<0.0051	<b>0.188 J</b>	<0.0055	<b>0.0506 J</b>	<0.0055	<b>0.0101 J</b>
Hexachloro-1,3-butadiene		1.63	ca	7.19	ca	ns	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene		0.25	ca	1.15	ca	0.03	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene		2.55	nc	10.8	nc	ns	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane		2.52	ca	11.1	ca	ns	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene		1.15	ca	21.1	ca	ns	<b>0.0030 J</b>	<b>0.0194</b>	<0.0494	<b>0.0073 J</b>	<0.0260	<0.0029	<0.0028
Isophorone		571	ca	2,420	ca	ns	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine		0.08	ca	0.33	ca	ns	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine		111	ca	469	ca	0.08	NA	NA	NA	NA	NA	NA	NA
Naphthalene		5.52	ca	24.1	ca	0.66	<0.0092	<0.0103	<b>6.77</b>	<0.0113	<b>2.25</b>	<b>0.0757</b>	<b>0.570</b>
Nitrobenzene		7.42	ca	32.4	ca	ns	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol		1.02	ca	3.97	ca	0.003	NA	NA	NA	NA	NA	NA	NA
Phenanthrene		ns	ns	ns	ns	ns	<0.0128	<b>0.0188 J</b>	<0.262	<b>0.0175 J</b>	<b>0.150 J</b>	<0.0155	<0.0150
Phenol		19,000	nc	100,000	ceiling	2.3	NA	NA	NA	NA	NA	NA	NA
Pyrene		1,790	nc	22,600	nc	55	<b>0.0069 J</b>	<b>0.0409</b>	<0.101	<b>0.0208</b>	<b>0.0944 J</b>	<0.0060	<0.0058
bis(2-Chloroethoxy)methane		190	nc	2,460	nc	ns	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl) ether		ns	ns	ns	ns	ns	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate		38.8	ca	164	ca	2.9	NA	NA	NA	NA	NA	NA	NA

**Notes:**

All units are milligrams per kilogram (mg/kg).

All depths are measured in feet below ground surface (ft bgs).

**Bold** Value exceeds laboratory detection limit (DL).*Italic* Value exceeds a soil to groundwater residual contaminant level (RCL).

Shaded Value exceeds an industrial direct contact RCL.

Shaded Value exceeds a non-industrial direct contact RCL.

Soil sample collected below the water table.

NA Not analyzed.

ca Carcinogen.

Csat Saturation concentration.

GW Groundwater.

nc Non-carcinogen.

ns No established standard.

Table A-3

Soil Sample Analytical Results - Semi-Volatile Organic Compounds (SVOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Non-Industrial Direct Contact		Industrial Direct Contact		Soil-to-GW RCL	Soil Sample Results (mg/kg)							
	Sample ID (Depth) Sample Date (Depth to Groundwater)	RCL	Basis	RCL		Basis	SB-8 (10-12') 8/1/17 (5.13')	SB-9 (4-5') 8/1/17 (4.75')	SB-11 (4-5') 7/31/17 (4.41')	SB-12 (1-1.5') 8/1/17 (4.35')	SB-13 (1.5-2') 7/28/17 (3.45')	SB-14 (3-4') 7/28/17 (4.18')	SB-15 (5-7') 7/28/17 (2.97')
1,2,4-Trichlorobenzene		24	ca	113	ca	0.41	NA	NA	NA	<0.0223	NA	<0.0288	<0.0468
1,2-Dichlorobenzene		376	Csat	376	Csat	1.17	NA	NA	NA	<0.0622	NA	<0.0802	<0.130
1,3-Dichlorobenzene		297	Csat	297	Csat	1.15	NA	NA	NA	<0.0274	NA	<0.0353	<0.0573
1,4-Dichlorobenzene		3.74	ca	16.4	ca	0.14	NA	NA	NA	<0.0275	NA	<0.0355	<0.0577
1-Methylnaphthalene		17.6	ca	72.7	ca	ns	<b>0.0069 J</b>	<b>3.30</b>	<b>0.240</b>	NA	<0.0060	NA	NA
2,2'-Oxybis(1-chloropropane)		ns	ns	ns	ns	ns	NA	NA	NA	<0.0510	NA	<0.0658	<0.107
2,4,5-Trichlorophenol		6,320	nc	82,100	nc	ns	NA	NA	NA	<0.0349	NA	<0.0451	<0.0731
2,4,6-Trichlorophenol		49	ca	209	ca	ns	NA	NA	NA	<0.0301	NA	<0.0389	<0.0631
2,4-Dichlorophenol		190	nc	2,460	nc	ns	NA	NA	NA	<0.0528	NA	<0.0682	<0.111
2,4-Dimethylphenol		1,260	nc	16,400	nc	ns	NA	NA	NA	<0.0391	NA	<0.0505	<0.0819
2,4-Dinitrophenol		126	nc	1,640	nc	ns	NA	NA	NA	<0.0602	NA	<0.0777	<0.126
2,4-Dinitrotoluene		1.74	ca	7.37	ca	0.0001	NA	NA	NA	<0.0283	NA	<0.0365	<0.0592
2,6-Dinitrotoluene		0.36	ca	1.54	ca	0.0001	NA	NA	NA	<0.0375	NA	<0.0484	<0.0786
2-Chloronaphthalene		ns	ns	ns	ns	ns	NA	NA	NA	<0.0254	NA	<0.0328	<0.0531
2-Chlorophenol		391	nc	5,840	nc	ns	NA	NA	NA	<0.0493	NA	<0.0637	<0.103
2-Methylnaphthalene		239	nc	3,010	nc	ns	<0.0077	<b>4.16</b>	<b>0.567</b>	<b>0.0698 J</b>	<0.0075	<0.0663	<0.107
2-Methylphenol(o-Cresol)		ns	ns	ns	ns	ns	NA	NA	NA	<0.0359	NA	<0.0464	<0.0752
2-Nitroaniline		627	nc	8,010	nc	ns	NA	NA	NA	<0.0563	NA	<0.0727	<0.118
2-Nitrophenol		ns	ns	ns	ns	ns	NA	NA	NA	<0.0624	NA	<0.0805	<0.131
3&4-Methylphenol(m&p Cresol)		ns	ns	ns	ns	ns	NA	NA	NA	<0.0362	NA	<0.0468	<0.0759
3,3'-Dichlorobenzidine		1.21	ca	5.11	ca	ns	NA	NA	NA	<0.0536	NA	<0.0692	<0.112
3-Nitroaniline		ns	ns	ns	ns	ns	NA	NA	NA	<0.0336	NA	<0.0434	<0.0704
4,6-Dinitro-2-methylphenol		ns	ns	ns	ns	ns	NA	NA	NA	<0.0609	NA	<0.0787	<0.128
4-Bromophenylphenyl ether		ns	ns	ns	ns	ns	NA	NA	NA	<0.0414	NA	<0.0534	<0.0867
4-Chloro-3-methylphenol		ns	ns	ns	ns	ns	NA	NA	NA	<0.0615	NA	<0.0794	<0.129
4-Chloroaniline		ns	ns	ns	ns	ns	NA	NA	NA	<0.0325	NA	<0.0419	<0.0680
4-Chlorophenylphenyl ether		ns	ns	ns	ns	ns	NA	NA	NA	<0.0368	NA	<0.0475	<0.0771
4-Nitroaniline		27.10	ca	115	ca	ns	NA	NA	NA	<0.0821	NA	<0.106	<0.172
4-Nitrophenol		ns	ns	ns	ns	ns	NA	NA	NA	<0.0498	NA	<0.0643	<0.104
Acenaphthene		3,590	nc	45,200	nc	ns	<0.0060	<b>0.169</b>	<0.0123	<b>0.106 J</b>	<b>0.0189 J</b>	<b>0.247 J</b>	<0.147
Acenaphthylene		0.00	ns	ns	ns	ns	<0.0051	<b>0.0791 J</b>	<0.0104	<b>0.0815 J</b>	<0.0049	<0.0910	<0.148
Anthracene		17,900	nc	100,000	ceiling	197	<0.0088	<0.0650	<0.0180	<b>0.358</b>	<b>0.0443</b>	<b>0.855</b>	<0.0662
Benzo(a)anthracene		1.14	ca	20.8	ca	ns	<0.0049	<b>0.0526 J</b>	<0.0100	<b>0.913</b>	<b>0.115</b>	<b>2.36</b>	<0.0641
Benzo(a)pyrene		0.12	ca	2.11	ca	0.47	<0.0039	<b>0.0352 J</b>	<0.0079	<b>1.03</b>	<b>0.107</b>	<b>2.24</b>	<0.0623
Benzo(b)fluoranthene		1.15	ca	21.1	ca	0.48	<0.0044	<b>0.0415 J</b>	<0.0089	<b>1.16</b>	<b>0.103</b>	<b>2.81</b>	<0.0711
Benzo(g,h,i)perylene		ns	ns	ns	0	ns	<0.0031	<0.0231	<0.0064	<b>0.676</b>	<b>0.0721</b>	<b>1.40</b>	<0.108
Benzo(k)fluoranthene		11.5	ca	211	ca	ns	<0.0039	<0.0286	<0.0079	<b>0.536</b>	<b>0.106</b>	<b>1.06</b>	<0.0991
Butylbenzylphthalate		286	ca	1,210	ca	ns	NA	NA	NA	<b>0.0807 J</b>	NA	<0.0409	<0.0664
Carbazole		ns	ns	ns	ns	ns	NA	NA	NA	<b>0.149</b>	NA	<b>0.232</b>	<0.0648
Chrysene		115	ca	2,110	ca	0.14	<0.0052	<b>0.0586 J</b>	<0.0107	<b>1.07</b>	<b>0.128</b>	<b>2.38</b>	<0.0619
Di-n-butylphthalate		6,320	nc	82,100	nc	5.03	NA	NA	NA	<0.0295	NA	<0.0381	<0.0619
Di-n-octylphthalate		632	nc	8,210	nc	ns	NA	NA	NA	<0.0445	NA	<0.0574	<0.0931
Dibenz(a,h)anthracene		0.12	ca	2.11	ca	ns	<0.0035	<0.0254	<0.0071	<b>0.155 J</b>	<b>0.0264</b>	<b>0.316</b>	<0.112
Dibenzofuran		73	nc	1,040	nc	ns	NA	NA	NA	<b>0.0545 J</b>	NA	<b>0.110</b>	<0.0501



Table A-3

Soil Sample Analytical Results - Semi-Volatile Organic Compounds (SVOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Non-Industrial Direct Contact		Industrial Direct Contact		Soil-to-GW RCL	Soil Sample Results (mg/kg)							
	Sample ID (Depth) Sample Date (Depth to Groundwater)	RCL	Basis	RCL		Basis	SB-8 (10-12') 8/1/17 (5.13')	SB-9 (4-5') 8/1/17 (4.75')	SB-11 (4-5') 7/31/17 (4.41')	SB-12 (1-1.5') 8/1/17 (4.35')	SB-13 (1.5-2') 7/28/17 (3.45')	SB-14 (3-4') 7/28/17 (4.18')	SB-15 (5-7') 7/28/17 (2.97')
Diethylphthalate		50,600	nc	100,000	ceiling	ns	NA	NA	NA	<0.0328	NA	<0.0423	<0.0686
Dimethylphthalate		569	nc	7,390	nc	ns	NA	NA	NA	<0.0257	NA	<0.0332	<0.0538
Fluoranthene		2,390	nc	30,100	nc	88.9	<0.0080	<b>0.0846 J</b>	<0.0165	<b>2.32</b>	<b>0.298</b>	<b>5.35</b>	<b>0.0810 J</b>
Fluorene		2,390	nc	30,100	nc	14.8	<0.0064	<b>0.206</b>	<0.0131	<b>0.119</b>	<b>0.0153 J</b>	<b>0.317</b>	<0.0484
Hexachloro-1,3-butadiene		1.63	ca	7.19	ca	ns	NA	NA	NA	<0.0504	NA	<0.0650	<0.105
Hexachlorobenzene		0.25	ca	1.15	ca	0.03	NA	NA	NA	<0.0332	NA	<0.0429	<0.0696
Hexachlorocyclopentadiene		2.55	nc	10.8	nc	ns	NA	NA	NA	<0.0468	NA	<0.0604	<0.0980
Hexachloroethane		2.52	ca	11.1	ca	ns	NA	NA	NA	<0.0316	NA	<0.0408	<0.0662
Indeno(1,2,3-cd)pyrene		1.15	ca	21.1	ca	ns	<0.0034	<0.0250	<0.0069	<b>0.724</b>	<b>0.0647</b>	<b>1.71</b>	<0.0896
Isophorone		571	ca	2,420	ca	ns	NA	NA	NA	<0.0304	NA	<0.0392	<0.0636
N-Nitroso-di-n-propylamine		0.08	ca	0.33	ca	ns	NA	NA	NA	<0.0314	NA	<0.0405	<0.0657
N-Nitrosodiphenylamine		111	ca	469	ca	0.08	NA	NA	NA	<0.268	NA	<0.346	<0.562
Naphthalene		5.52	ca	24.1	ca	0.66	<0.0130	<b>1.96</b>	<b>1.35</b>	<0.0691	<0.0126	<0.0892	<0.145
Nitrobenzene		7.42	ca	32.4	ca	ns	NA	NA	NA	<0.0401	NA	<0.0517	<0.0839
Pentachlorophenol		1.02	ca	3.97	ca	0.003	NA	NA	NA	<0.0435	NA	<0.0562	<0.0912
Phenanthrene		ns	ns	ns	ns	ns	<0.0180	<b>0.617</b>	<0.0368	<b>1.27</b>	<b>0.176</b>	<b>2.53</b>	<b>0.0697 J</b>
Phenol		19,000	nc	100,000	ceiling	2.3	NA	NA	NA	<0.0469	NA	<0.0606	<0.0982
Pyrene		1,790	nc	22,600	nc	55	<0.0070	<b>0.0781 J</b>	<0.0143	<b>1.76</b>	<b>0.218</b>	<b>3.69</b>	<0.0917
bis(2-Chloroethoxy)methane		190	nc	2,460	nc	ns	NA	NA	NA	<0.0532	NA	<0.0687	<0.111
bis(2-Chloroethyl) ether		ns	ns	ns	ns	ns	NA	NA	NA	<0.0617	NA	<0.0797	<0.129
bis(2-Ethylhexyl)phthalate		38.8	ca	164	ca	2.9	NA	NA	NA	<0.0329	NA	<0.0424	<0.0688

**Notes:**

All units are milligrams per kilogram (mg/kg).

All depths are measured in feet below ground surface (ft bgs).

**Bold** Value exceeds laboratory detection limit (DL).*Italic* Value exceeds a soil to groundwater residual contaminant level (RCL).

Shaded Value exceeds an industrial direct contact RCL.

Shaded Value exceeds a non-industrial direct contact RCL.

Soil sample collected below the water table.

NA Not analyzed.

ca Carcinogen.

Csat Saturation concentration.

GW Groundwater.

nc Non-carcinogen.

ns No established standard.

Table A-3

Soil Sample Analytical Results - Semi-Volatile Organic Compounds (SVOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Non-Industrial Direct Contact		Industrial Direct Contact		Soil-to-GW RCL	Soil Sample Results (mg/kg)							
	Sample ID (Depth) Sample Date (Depth to Groundwater)	RCL	Basis	RCL		Basis	SB-16 (2-2.5') 8/2/17	SB-17 (4-5') 8/2/17 (7.17')	SB-18 (4-5') 7/28/17 (6.28')	SB-19 (1.5-2') 7/31/17 (2.88')	SB-20 (3-4') 7/31/17 (4.99')	SB-21 (3-3.5') 7/31/17 (6.54')	SB-22 (4-5') 7/31/17 (6.53')
1,2,4-Trichlorobenzene		24	ca	113	ca	0.41	<0.0567	<0.0202	NA	<0.0223	<0.0212	<0.0212	NA
1,2-Dichlorobenzene		376	Csat	376	Csat	1.17	<0.158	<0.0561	NA	<0.0619	<0.0591	<0.0589	NA
1,3-Dichlorobenzene		297	Csat	297	Csat	1.15	<0.0694	<0.0247	NA	<0.0273	<0.0260	<0.0259	NA
1,4-Dichlorobenzene		3.74	ca	16.4	ca	0.14	<0.0698	<0.0248	NA	<0.0274	<0.0262	<0.0261	NA
1-Methylnaphthalene		17.6	ca	72.7	ca	ns	NA	NA	<0.0053	NA	NA	NA	<0.0047
2,2'-Oxybis(1-chloropropane)		ns	ns	ns	ns	ns	<0.129	<0.0460	NA	<0.0508	<0.0484	<0.0483	NA
2,4,5-Trichlorophenol		6,320	nc	82,100	nc	ns	<0.0885	<0.0315	NA	<0.0348	<0.0332	<0.0331	NA
2,4,6-Trichlorophenol		49	ca	209	ca	ns	<0.0764	<0.0272	NA	<0.0300	<0.0286	<0.0286	NA
2,4-Dichlorophenol		190	nc	2,460	nc	ns	<0.134	<0.0476	NA	<0.0526	<0.0502	<0.0501	NA
2,4-Dimethylphenol		1,260	nc	16,400	nc	ns	<0.0991	<0.0353	NA	<0.0389	<0.0371	<0.0370	NA
2,4-Dinitrophenol		126	nc	1,640	nc	ns	<0.153	<0.0543	NA	<0.0600	<0.0572	<0.0571	NA
2,4-Dinitrotoluene		1.74	ca	7.37	ca	0.0001	<0.0717	<0.0255	NA	<0.0282	<0.0269	<0.0268	NA
2,6-Dinitrotoluene		0.36	ca	1.54	ca	0.0001	<0.0951	<0.0338	NA	<0.0374	<0.0357	<0.0356	NA
2-Chloronaphthalene		ns	ns	ns	ns	ns	<0.0643	<0.0229	NA	<0.0253	<0.0241	<0.0240	NA
2-Chlorophenol		391	nc	5,840	nc	ns	<0.125	<0.0445	NA	<0.0491	<0.0469	<0.0467	NA
2-Methylnaphthalene		239	nc	3,010	nc	ns	<0.130	<0.0463	<0.0066	<b>0.0744 J</b>	<0.0488	<0.0486	<0.0058
2-Methylphenol(o-Cresol)		ns	ns	ns	ns	ns	<0.0911	<0.0324	NA	<0.0358	<0.0341	<0.0340	NA
2-Nitroaniline		627	nc	8,010	nc	ns	<0.143	<0.0508	NA	<0.0561	<0.0535	<0.0534	NA
2-Nitrophenol		ns	ns	ns	ns	ns	<0.158	<0.0563	NA	<0.0621	<0.0593	<0.0591	NA
3&4-Methylphenol(m&p Cresol)		ns	ns	ns	ns	ns	<0.0918	<0.0327	NA	<0.0361	<0.0344	<0.0343	NA
3,3'-Dichlorobenzidine		1.21	ca	5.11	ca	ns	<0.136	<0.0484	NA	<0.0534	<0.0510	<0.0508	NA
3-Nitroaniline		ns	ns	ns	ns	ns	<0.0852	<0.0303	NA	<0.0335	<0.0319	<0.0319	NA
4,6-Dinitro-2-methylphenol		ns	ns	ns	ns	ns	<0.154	<0.0549	NA	<0.0607	<0.0579	<0.0577	NA
4-Bromophenylphenyl ether		ns	ns	ns	ns	ns	<0.105	<0.0373	NA	<0.0412	<0.0393	<0.0392	NA
4-Chloro-3-methylphenol		ns	ns	ns	ns	ns	<0.156	<0.0555	NA	<0.0613	<0.0584	<0.0583	NA
4-Chloroaniline		ns	ns	ns	ns	ns	<0.0824	<0.0293	NA	<0.0324	<0.0309	<0.0308	NA
4-Chlorophenylphenyl ether		ns	ns	ns	ns	ns	<0.0933	<0.0332	NA	<0.0367	<0.0350	<0.0349	NA
4-Nitroaniline		27.10	ca	115	ca	ns	<0.208	<0.0740	NA	<0.0817	<0.0780	<0.0777	NA
4-Nitrophenol		ns	ns	ns	ns	ns	<0.126	<0.0449	NA	<0.0496	<0.0473	<0.0472	NA
Acenaphthene		3,590	nc	45,200	nc	ns	<0.178	<0.0632	<b>0.0151 J</b>	<0.0698	<0.0666	<0.0664	<0.0045
Acenaphthylene		0.00	ns	ns	ns	ns	<0.179	<0.0636	<b>0.0072 J</b>	<0.0702	<0.0670	<0.0668	<0.0038
Anthracene		17,900	nc	100,000	ceiling	197	<0.0801	<0.0285	<b>0.0579</b>	<0.0315	<0.0300	<0.0299	<0.0066
Benzo(a)anthracene		1.14	ca	20.8	ca	ns	<b>0.102 J</b>	<0.0276	<b>0.147</b>	<b>0.0554 J</b>	<0.0291	<0.0290	<b>0.0101 J</b>
Benzo(a)pyrene		0.12	ca	2.11	ca	0.47	<b>0.128 J</b>	<0.0268	<b>0.149</b>	<b>0.0650 J</b>	<b>0.0749 J</b>	<0.0282	<b>0.0084 J</b>
Benzo(b)fluoranthene		1.15	ca	21.1	ca	0.48	<b>0.132 J</b>	<0.0306	<b>0.108</b>	<b>0.0976 J</b>	<b>0.0716 J</b>	<0.0322	<b>0.0108 J</b>
Benzo(g,h,i)perylene		ns	ns	ns	0	ns	<b>0.146 J</b>	<0.0466	<b>0.104</b>	<b>0.0748 J</b>	<b>0.135 J</b>	<0.0490	<b>0.0060 J</b>
Benzo(k)fluoranthene		11.5	ca	211	ca	ns	<0.120	<0.0427	<b>0.152</b>	<0.0471	<0.0450	<0.0448	<b>0.0044 J</b>
Butylbenzylphthalate		286	ca	1,210	ca	ns	<0.0804	<0.0286	NA	<0.0316	<0.0301	<0.0300	NA
Carbazole		ns	ns	ns	ns	ns	<0.0785	<0.0279	NA	<0.0308	<0.0294	<0.0293	NA
Chrysene		115	ca	2,110	ca	0.14	<b>0.179 J</b>	<0.0267	<b>0.180</b>	<b>0.0846 J</b>	<b>0.0286 J</b>	<b>0.0354 J</b>	<b>0.0090 J</b>
Di-n-butylphthalate		6,320	nc	82,100	nc	5.03	<0.0749	<0.0266	NA	<0.0294	<0.0281	<0.0280	NA
Di-n-octylphthalate		632	nc	8,210	nc	ns	<0.113	<0.0401	NA	<0.0443	<0.0422	<0.0421	NA
Dibenz(a,h)anthracene		0.12	ca	2.11	ca	ns	<0.136	<0.0484	<b>0.0389</b>	<0.0535	<0.0510	<0.0509	<0.0026
Dibenzofuran		73	nc	1,040	nc	ns	<0.0607	<0.0216	NA	<b>0.0256 J</b>	<0.0227	<0.0227	NA



Table A-3

Soil Sample Analytical Results - Semi-Volatile Organic Compounds (SVOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Non-Industrial Direct Contact		Industrial Direct Contact		Soil-to-GW RCL	Soil Sample Results (mg/kg)							
	Sample ID (Depth) Sample Date (Depth to Groundwater)	RCL	Basis	RCL		Basis	SB-16 (2-2.5') 8/2/17	SB-17 (4-5') 8/2/17 (7.17')	SB-18 (4-5') 7/28/17 (6.28')	SB-19 (1.5-2') 7/31/17 (2.88')	SB-20 (3-4') 7/31/17 (4.99')	SB-21 (3-3.5') 7/31/17 (6.54')	SB-22 (4-5') 7/31/17 (6.53')
Diethylphthalate		50,600	nc	100,000	ceiling	ns	<0.0831	<0.0296	NA	<0.0326	<0.0311	<0.0311	NA
Dimethylphthalate		569	nc	7,390	nc	ns	<0.0652	<0.0232	NA	<0.0256	<0.0244	<0.0244	NA
Fluoranthene		2,390	nc	30,100	nc	88.9	<b>0.182 J</b>	<0.0252	<b>0.308</b>	<b>0.134</b>	<0.0266	<b>0.0556 J</b>	<b>0.0164 J</b>
Fluorene		2,390	nc	30,100	nc	14.8	<0.0586	<0.0208	<b>0.0200</b>	<0.0230	<0.0220	<0.0219	<0.0048
Hexachloro-1,3-butadiene		1.63	ca	7.19	ca	ns	<0.128	<0.0454	NA	<0.0502	<0.0478	<0.0477	NA
Hexachlorobenzene		0.25	ca	1.15	ca	0.03	<0.0843	<0.0300	NA	<0.0331	<0.0316	<0.0315	NA
Hexachlorocyclopentadiene		2.55	nc	10.8	nc	ns	<0.119	<0.0422	NA	<0.0466	<0.0444	<0.0443	NA
Hexachloroethane		2.52	ca	11.1	ca	ns	<0.0802	<0.0285	NA	<0.0315	<0.0301	<0.0300	NA
Indeno(1,2,3-cd)pyrene		1.15	ca	21.1	ca	ns	<b>0.124 J</b>	<0.0386	<b>0.0924</b>	<b>0.0728 J</b>	<b>0.109 J</b>	<0.0405	<b>0.0050 J</b>
Isophorone		571	ca	2,420	ca	ns	<0.0770	<0.0274	NA	<0.0303	<0.0289	<0.0288	NA
N-Nitroso-di-n-propylamine		0.08	ca	0.33	ca	ns	<0.0795	<0.0283	NA	<0.0312	<0.0298	<0.0297	NA
N-Nitrosodiphenylamine		111	ca	469	ca	0.08	<0.680	<0.242	NA	<0.267	<0.255	<0.254	NA
Naphthalene		5.52	ca	24.1	ca	0.66	<0.175	<0.0623	<0.0110	<0.0688	<0.0657	<0.0655	<0.0098
Nitrobenzene		7.42	ca	32.4	ca	ns	<0.102	<0.0362	NA	<0.0399	<0.0381	<0.0380	NA
Pentachlorophenol		1.02	ca	3.97	ca	0.003	<0.110	<0.0393	NA	<0.0434	<0.0414	<0.0412	NA
Phenanthrene		ns	ns	ns	ns	ns	<b>0.222</b>	<0.0229	<b>0.190</b>	<b>0.149</b>	<0.0241	<b>0.146</b>	<0.0135
Phenol		19,000	nc	100,000	ceiling	2.3	<0.119	<0.0423	NA	<0.0467	<0.0446	<0.0444	NA
Pyrene		1,790	nc	22,600	nc	55	<b>0.203 J</b>	<0.0395	<b>0.275</b>	<b>0.111 J</b>	<0.0416	<0.0415	<b>0.0127 J</b>
bis(2-Chloroethoxy)methane		190	nc	2,460	nc	ns	<0.135	<0.0480	NA	<0.0530	<0.0506	<0.0504	NA
bis(2-Chloroethyl) ether		ns	ns	ns	ns	ns	<0.156	<0.0557	NA	<0.0615	<0.0586	<0.0585	NA
bis(2-Ethylhexyl)phthalate		38.8	ca	164	ca	2.9	<0.0833	<0.0296	NA	<0.0327	<0.0312	<0.0311	NA

**Notes:**

All units are milligrams per kilogram (mg/kg).

All depths are measured in feet below ground surface (ft bgs).

**Bold** Value exceeds laboratory detection limit (DL).*Italic* Value exceeds a soil to groundwater residual contaminant level (RCL).

Shaded Value exceeds an industrial direct contact RCL.

Shaded Value exceeds a non-industrial direct contact RCL.

Soil sample collected below the water table.

NA Not analyzed.

ca Carcinogen.

Csat Saturation concentration.

GW Groundwater.

nc Non-carcinogen.

ns No established standard.

Table A-3

Soil Sample Analytical Results - Semi-Volatile Organic Compounds (SVOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Non-Industrial Direct Contact		Industrial Direct Contact		Soil-to-GW RCL	Soil Sample Results (mg/kg)							
	Sample ID (Depth) Sample Date (Depth to Groundwater)	RCL	Basis	RCL		Basis	SB-23 (2-2.5') 7/31/17 (4.08')	SB-24 (3-4') 7/31/17 (8.11')	SB-25 (3-4') 7/31/17 (2.97')	SB-29 (2-2.5') 7/28/17 (3.21')	SB-33 (2.5-3') 7/28/17 (3.74')	SB-35 (3.5-4.5') 7/27/17 (2.6')	SB-38 (8-10') 7/27/17 (6.5')
1,2,4-Trichlorobenzene		24	ca	113	ca	0.41	<0.0204	<0.0212	<0.234	<0.0239	<0.0231	<0.0303	<0.216
1,2-Dichlorobenzene		376	Csat	376	Csat	1.17	<0.0568	<0.0590	<0.650	<0.0664	<0.0643	<0.0843	<0.600
1,3-Dichlorobenzene		297	Csat	297	Csat	1.15	<0.0250	<0.0260	<0.286	<0.0293	<0.0283	<0.0371	<0.264
1,4-Dichlorobenzene		3.74	ca	16.4	ca	0.14	<0.0252	<0.0262	<0.288	<0.0294	<0.0285	<0.0374	<0.266
1-Methylnaphthalene		17.6	ca	72.7	ca	ns	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane)		ns	ns	ns	ns	ns	<0.0466	<0.0484	<0.533	<0.0545	<0.0527	<0.0692	<0.492
2,4,5-Trichlorophenol		6,320	nc	82,100	nc	ns	<0.0319	<0.0332	<0.365	<0.0373	<0.0361	<0.0474	<0.337
2,4,6-Trichlorophenol		49	ca	209	ca	ns	<0.0276	<0.0286	<0.315	<0.0322	<0.0312	<0.0409	<0.291
2,4-Dichlorophenol		190	nc	2,460	nc	ns	<0.0483	<0.0502	<0.552	<0.0565	<0.0546	<0.0717	<0.510
2,4-Dimethylphenol		1,260	nc	16,400	nc	ns	<0.0357	<0.0371	<0.409	<0.0418	<0.0404	<0.0530	<0.378
2,4-Dinitrophenol		126	nc	1,640	nc	ns	<0.0551	<0.0572	<0.630	<0.0644	<0.0623	<0.0817	<0.582
2,4-Dinitrotoluene		1.74	ca	7.37	ca	0.0001	<0.0259	<0.0269	<0.296	<0.0302	<0.0292	<0.0384	<0.273
2,6-Dinitrotoluene		0.36	ca	1.54	ca	0.0001	<0.0343	<0.0356	<0.392	<0.0401	<0.0388	<0.0509	<0.362
2-Chloronaphthalene		ns	ns	ns	ns	ns	<0.0232	<0.0241	<0.265	<0.0271	<0.0263	<0.0344	<0.245
2-Chlorophenol		391	nc	5,840	nc	ns	<0.0451	<0.0469	<0.516	<0.0527	<0.0510	<0.0669	<0.477
2-Methylnaphthalene		239	nc	3,010	nc	ns	<0.0469	<b>0.314</b>	<b>0.575 J</b>	<b>0.249</b>	<0.0531	<b>2.43</b>	<0.496
2-Methylphenol(o-Cresol)		ns	ns	ns	ns	ns	<0.0328	<0.0341	<0.375	<0.0384	<0.0371	<0.0487	<0.347
2-Nitroaniline		627	nc	8,010	nc	ns	<0.0515	<0.0535	<0.589	<0.0602	<0.0583	<0.0764	<0.544
2-Nitrophenol		ns	ns	ns	ns	ns	<0.0570	<0.0593	<0.652	<0.0667	<0.0645	<0.0846	<0.603
3&4-Methylphenol(m&p Cresol)		ns	ns	ns	ns	ns	<0.0331	<0.0344	<0.379	<0.0387	<0.0375	<0.0491	<0.350
3,3'-Dichlorobenzidine		1.21	ca	5.11	ca	ns	<0.0490	<0.0509	<0.561	<0.0573	<0.0555	<0.0728	<0.518
3-Nitroaniline		ns	ns	ns	ns	ns	<0.0307	<0.0319	<0.351	<0.0359	<0.0348	<0.0456	<0.325
4,6-Dinitro-2-methylphenol		ns	ns	ns	ns	ns	<0.0557	<0.0579	<0.637	<0.0651	<0.0630	<0.0827	<0.588
4-Bromophenylphenyl ether		ns	ns	ns	ns	ns	<0.0379	<0.0393	<0.433	<0.0442	<0.0428	<0.0562	<0.400
4-Chloro-3-methylphenol		ns	ns	ns	ns	ns	<0.0562	<0.0584	<0.643	<0.0657	<0.0636	<0.0834	<0.594
4-Chloroaniline		ns	ns	ns	ns	ns	<0.0297	<0.0309	<0.340	<0.0347	<0.0336	<0.0441	<0.314
4-Chlorophenylphenyl ether		ns	ns	ns	ns	ns	<0.0337	<0.0350	<0.385	<0.0394	<0.0381	<0.0499	<0.356
4-Nitroaniline		27.10	ca	115	ca	ns	<0.0750	<0.0779	<0.858	<0.0877	<0.0849	<0.111	<0.792
4-Nitrophenol		ns	ns	ns	ns	ns	<0.0455	<0.0473	<0.520	<0.0532	<0.0515	<0.0675	<0.481
Acenaphthene		3,590	nc	45,200	nc	ns	<0.0641	<b>0.109 J</b>	<b>1.69 J</b>	<b>0.141 J</b>	<0.0725	<b>1.08</b>	<0.677
Acenaphthylene		0.00	ns	ns	ns	ns	<0.0645	<0.0670	<0.737	<0.0754	<0.0729	<b>0.0983 J</b>	<0.681
Anthracene		17,900	nc	100,000	ceiling	197	<b>0.0293 J</b>	<b>0.272</b>	<b>4.42</b>	<b>0.281</b>	<0.0327	<b>0.481</b>	<0.305
Benzo(a)anthracene		1.14	ca	20.8	ca	ns	<b>0.102</b>	<b>0.561</b>	<b>5.26</b>	<b>0.603</b>	<0.0317	<b>0.319</b>	<0.296
Benzo(a)pyrene		0.12	ca	2.11	ca	0.47	<b>0.112</b>	<b>0.528</b>	<b>3.96</b>	<b>0.642</b>	<0.0308	<b>0.244</b>	<0.287
Benzo(b)fluoranthene		1.15	ca	21.1	ca	0.48	<b>0.137</b>	<b>0.655</b>	<b>5.31</b>	<b>0.737</b>	<0.0351	<b>0.219</b>	<0.328
Benzo(g,h,i)perylene		ns	ns	ns	0	ns	<b>0.0929 J</b>	<b>0.348</b>	<b>2.26</b>	<b>0.455</b>	<0.0535	<b>0.144 J</b>	<0.500
Benzo(k)fluoranthene		11.5	ca	211	ca	ns	<b>0.0495 J</b>	<b>0.229</b>	<b>1.91</b>	<b>0.266</b>	<0.0490	<b>0.0920 J</b>	<0.457
Butylbenzylphthalate		286	ca	1,210	ca	ns	<0.0290	<0.0301	<0.331	<0.0339	<0.0328	<0.0430	<0.306
Carbazole		ns	ns	ns	ns	ns	<0.0283	<b>0.124</b>	<b>2.06</b>	<b>0.125</b>	<0.0320	<0.0420	<0.299
Chrysene		115	ca	2,110	ca	0.14	<b>0.113</b>	<b>0.578</b>	<b>5.51</b>	<b>0.614</b>	<0.0306	<b>0.372</b>	<0.285
Di-n-butylphthalate		6,320	nc	82,100	nc	5.03	<0.0270	<0.0281	<0.309	<0.0316	<0.0306	<0.0401	<0.285
Di-n-octylphthalate		632	nc	8,210	nc	ns	<0.0406	<0.0422	<0.465	<0.0475	<0.0460	<0.0603	<0.429
Dibenz(a,h)anthracene		0.12	ca	2.11	ca	ns	<0.0491	<b>0.0976 J</b>	<b>0.631 J</b>	<b>0.0941 J</b>	<0.0555	<0.0728	<0.519
Dibenzofuran		73	nc	1,040	nc	ns	<0.0219	<b>0.113</b>	<b>1.26</b>	<b>0.0664 J</b>	<0.0247	<b>0.113</b>	<0.231



Table A-3

Soil Sample Analytical Results - Semi-Volatile Organic Compounds (SVOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Non-Industrial Direct Contact		Industrial Direct Contact		Soil-to-GW RCL	Soil Sample Results (mg/kg)						
	RCL	Basis	RCL	Basis		SB-23 (2-2.5') 7/31/17 (4.08')	SB-24 (3-4') 7/31/17 (8.11')	SB-25 (3-4') 7/31/17 (2.97')	SB-29 (2-2.5') 7/28/17 (3.21')	SB-33 (2.5-3') 7/28/17 (3.74')	SB-35 (3.5-4.5') 7/27/17 (2.6')	SB-38 (8-10') 7/27/17 (6.5')
Diethylphthalate	50,600	nc	100,000	ceiling	ns	<0.0300	<0.0311	<0.343	<0.0350	<0.0339	<0.0445	<0.317
Dimethylphthalate	569	nc	7,390	nc	ns	<0.0235	<0.0244	<0.269	<0.0275	<0.0266	<0.0349	<0.248
Fluoranthene	2,390	nc	30,100	nc	88.9	<b>0.220</b>	<b>1.24</b>	<b>14.4</b>	<b>1.58</b>	<0.0289	<b>0.677</b>	<0.270
Fluorene	2,390	nc	30,100	nc	14.8	<0.0211	<b>0.120</b>	<b>2.21</b>	<b>0.140</b>	<0.0239	<b>0.581</b>	<0.223
Hexachloro-1,3-butadiene	1.63	ca	7.19	ca	ns	<0.0460	<0.0478	<0.526	<0.0538	<0.0521	<0.0683	<0.486
Hexachlorobenzene	0.25	ca	1.15	ca	0.03	<0.0304	<0.0316	<0.348	<0.0355	<0.0344	<0.0451	<0.321
Hexachlorocyclopentadiene	2.55	nc	10.8	nc	ns	<0.0428	<0.0444	<0.489	<0.0500	<0.0484	<0.0635	<0.452
Hexachloroethane	2.52	ca	11.1	ca	ns	<0.0289	<0.0300	<0.331	<0.0338	<0.0327	<0.0429	<0.306
Indeno(1,2,3-cd)pyrene	1.15	ca	21.1	ca	ns	<b>0.0833 J</b>	<b>0.388</b>	<b>2.70</b>	<b>0.477</b>	<0.0442	<b>0.141 J</b>	<0.413
Isophorone	571	ca	2,420	ca	ns	<0.0278	<0.0289	<0.318	<0.0325	<0.0314	<0.0412	<0.294
N-Nitroso-di-n-propylamine	0.08	ca	0.33	ca	ns	<0.0287	<0.0298	<0.328	<0.0335	<0.0324	<0.0425	<0.303
N-Nitrosodiphenylamine	111	ca	469	ca	0.08	<0.245	<0.255	<2.80	<0.287	<0.277	<0.364	<2.59
Naphthalene	5.52	ca	24.1	ca	0.66	<0.0632	<b>0.269</b>	<0.723	<b>0.352</b>	<0.0715	<b>3.42</b>	<0.668
Nitrobenzene	7.42	ca	32.4	ca	ns	<0.0367	<0.0381	<0.419	<0.0428	<0.0415	<0.0544	<0.387
Pentachlorophenol	1.02	ca	3.97	ca	0.003	<0.0398	<0.0414	<0.455	<0.0465	<0.0450	<0.0591	<0.420
Phenanthrene	ns	ns	ns	ns	ns	<b>0.106</b>	<b>0.990</b>	<b>15.9</b>	<b>1.24</b>	<0.0262	<b>1.67</b>	<0.245
Phenol	19,000	nc	100,000	ceiling	2.3	<0.0429	<0.0446	<0.490	<0.0501	<0.0485	<b>0.0738 J</b>	<0.453
Pyrene	1,790	nc	22,600	nc	55	<b>0.180</b>	<b>1.07</b>	<b>10.7</b>	<b>1.31</b>	<0.0453	<b>0.882</b>	<0.423
bis(2-Chloroethoxy)methane	190	nc	2,460	nc	ns	<0.0487	<0.0506	<0.557	<0.0569	<0.0551	<0.0722	<0.514
bis(2-Chloroethyl) ether	ns	ns	ns	ns	ns	<0.0564	<0.0586	<0.645	<0.0660	<0.0638	<0.0837	<0.596
bis(2-Ethylhexyl)phthalate	38.8	ca	164	ca	2.9	<0.0301	<0.0312	<0.344	<0.0351	<0.0340	<0.0446	<0.317

**Notes:**

All units are milligrams per kilogram (mg/kg).

All depths are measured in feet below ground surface (ft bgs).

**Bold** Value exceeds laboratory detection limit (DL).*Italic* Value exceeds a soil to groundwater residual contaminant level (RCL).

Shaded Value exceeds an industrial direct contact RCL.

Shaded Value exceeds a non-industrial direct contact RCL.

Soil sample collected below the water table.

NA Not analyzed.

ca Carcinogen.

Csat Saturation concentration.

GW Groundwater.

nc Non-carcinogen.

ns No established standard.

Table A-3

Soil Sample Analytical Results - Semi-Volatile Organic Compounds (SVOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Non-Industrial Direct Contact		Industrial Direct Contact		Soil-to-GW RCL	Soil Sample Results (mg/kg)							
	Sample ID (Depth) Sample Date (Depth to Groundwater)	RCL	Basis	RCL		Basis	SB-39 (3-4') 8/1/17 (1.5')	SB-40 (4-5') 8/1/17 (8.5')	SB-41 (1-1.5') 8/1/17 (4.43')	SB-42 (1-2') 7/31/17 (12.79')	SB-43 (3-4') 8/1/17 (6.25')	SB-44 (2-3') 8/1/17 (5.28')	SB-45 (2-3') 8/1/17 (3.86')
1,2,4-Trichlorobenzene		24	ca	113	ca	0.41	<0.0285	<0.0308	<0.0243	NA	NA	NA	<0.0208
1,2-Dichlorobenzene		376	Csat	376	Csat	1.17	<0.0791	<0.0858	<0.0676	NA	NA	NA	<0.0579
1,3-Dichlorobenzene		297	Csat	297	Csat	1.15	<0.0349	<0.0378	<0.0298	NA	NA	NA	<0.0255
1,4-Dichlorobenzene		3.74	ca	16.4	ca	0.14	<0.0351	<0.0380	<0.0300	NA	NA	NA	<0.0257
1-Methylnaphthalene		17.6	ca	72.7	ca	ns	NA	NA	NA	<b>0.137 J</b>	<0.0052	<b>0.0087 J</b>	NA
2,2'-Oxybis(1-chloropropane)		ns	ns	ns	ns	ns	<0.0649	<0.0703	<0.0555	NA	NA	NA	<0.0475
2,4,5-Trichlorophenol		6,320	nc	82,100	nc	ns	<0.0445	<0.0482	<0.0380	NA	NA	NA	<0.0325
2,4,6-Trichlorophenol		49	ca	209	ca	ns	<0.0384	<0.0416	<0.0328	NA	NA	NA	<0.0281
2,4-Dichlorophenol		190	nc	2,460	nc	ns	<0.0673	<0.0729	<0.0575	NA	NA	NA	<0.0492
2,4-Dimethylphenol		1,260	nc	16,400	nc	ns	<0.0498	<0.0539	<0.0425	NA	NA	NA	<0.0364
2,4-Dinitrophenol		126	nc	1,640	nc	ns	<0.0767	<0.0831	<0.0655	NA	NA	NA	<0.0561
2,4-Dinitrotoluene		1.74	ca	7.37	ca	0.0001	<0.0360	<0.0390	<0.0308	NA	NA	NA	<0.0263
2,6-Dinitrotoluene		0.36	ca	1.54	ca	0.0001	<0.0478	<0.0518	<0.0408	NA	NA	NA	<0.0350
2-Chloronaphthalene		ns	ns	ns	ns	ns	<0.0323	<0.0350	<0.0276	NA	NA	NA	<0.0236
2-Chlorophenol		391	nc	5,840	nc	ns	<0.0628	<0.0681	<0.0537	NA	NA	NA	<0.0460
2-Methylnaphthalene		239	nc	3,010	nc	ns	<0.0654	<0.0708	<0.0558	<0.165	<0.0064	<b>0.0176 J</b>	<b>0.367</b>
2-Methylphenol(o-Cresol)		ns	ns	ns	ns	ns	<0.0457	<0.0496	<0.0391	NA	NA	NA	<0.0335
2-Nitroaniline		627	nc	8,010	nc	ns	<0.0717	<0.0777	<0.0613	NA	NA	NA	<0.0525
2-Nitrophenol		ns	ns	ns	ns	ns	<0.0794	<0.0861	<0.0679	NA	NA	NA	<0.0581
3&4-Methylphenol(m&p Cresol)		ns	ns	ns	ns	ns	<0.0461	<0.0500	<0.0394	NA	NA	NA	<0.0337
3,3'-Dichlorobenzidine		1.21	ca	5.11	ca	ns	<0.0683	<0.0740	<0.0583	NA	NA	NA	<0.0500
3-Nitroaniline		ns	ns	ns	ns	ns	<0.0428	<0.0464	<0.0366	NA	NA	NA	<0.0313
4,6-Dinitro-2-methylphenol		ns	ns	ns	ns	ns	<0.0776	<0.0841	<0.0663	NA	NA	NA	<0.0568
4-Bromophenylphenyl ether		ns	ns	ns	ns	ns	<0.0527	<0.0571	<0.0450	NA	NA	NA	<0.0386
4-Chloro-3-methylphenol		ns	ns	ns	ns	ns	<0.0783	<0.0849	<0.0669	NA	NA	NA	<0.0573
4-Chloroaniline		ns	ns	ns	ns	ns	<0.0414	<0.0448	<0.0353	NA	NA	NA	<0.0303
4-Chlorophenylphenyl ether		ns	ns	ns	ns	ns	<0.0469	<0.0508	<0.0401	NA	NA	NA	<0.0343
4-Nitroaniline		27.10	ca	115	ca	ns	<0.104	<0.113	<0.0892	NA	NA	NA	<0.0764
4-Nitrophenol		ns	ns	ns	ns	ns	<0.0634	<0.0687	<0.0541	NA	NA	NA	<0.0464
Acenaphthene		3,590	nc	45,200	nc	ns	<0.0893	<0.0967	<0.0763	<b>0.759</b>	<0.0050	<b>0.0133 J</b>	<0.0653
Acenaphthylene		0.00	ns	ns	ns	ns	<0.0898	<0.0973	<0.0767	<0.109	<0.0042	<b>0.0045 J</b>	<0.0657
Anthracene		17,900	nc	100,000	ceiling	197	<b>0.0473 J</b>	<0.0436	<0.0344	<b>1.56</b>	<0.0073	<b>0.0258</b>	<b>0.0489 J</b>
Benzo(a)anthracene		1.14	ca	20.8	ca	ns	<b>0.120 J</b>	<b>0.0900 J</b>	<b>0.115</b>	<b>3.39</b>	<0.0041	<b>0.0486</b>	<b>0.0841 J</b>
Benzo(a)pyrene		0.12	ca	<b>2.11</b>	ca	0.47	<b>0.158</b>	<b>0.114 J</b>	<b>0.0876 J</b>	<b>3.14</b>	<0.0032	<b>0.0667</b>	<b>0.0717 J</b>
Benzo(b)fluoranthene		1.15	ca	21.1	ca	0.48	<b>0.191</b>	<b>0.157</b>	<b>0.104 J</b>	<b>4.40</b>	<0.0036	<b>0.0590</b>	<b>0.0690 J</b>
Benzo(g,h,i)perylene		ns	ns	ns	0	ns	<b>0.231</b>	<b>0.124 J</b>	<b>0.0961 J</b>	<b>1.99</b>	<0.0026	<b>0.0729</b>	<b>0.116 J</b>
Benzo(k)fluoranthene		11.5	ca	211	ca	ns	<b>0.0726 J</b>	<b>0.0672 J</b>	<0.0515	<b>1.80</b>	<0.0032	<b>0.0588</b>	<0.0441
Butylbenzylphthalate		286	ca	1,210	ca	ns	<0.0404	<0.0437	<0.0345	NA	NA	NA	<0.0295
Carbazole		ns	ns	ns	ns	ns	<0.0394	<0.0427	<0.0337	NA	NA	NA	<0.0288
Chrysene		115	ca	2,110	ca	0.14	<b>0.152</b>	<b>0.133 J</b>	<b>0.179</b>	<b>4.17</b>	<0.0043	<b>0.0616</b>	<b>0.127</b>
Di-n-butylphthalate		6,320	nc	82,100	nc	5.03	<0.0376	<0.0408	<0.0321	NA	NA	NA	<0.0275
Di-n-octylphthalate		632	nc	8,210	nc	ns	<0.0566	<0.0613	<0.0483	NA	NA	NA	<0.0414
Dibenz(a,h)anthracene		0.12	ca	2.11	ca	ns	<0.0684	<0.0741	<0.0584	<b>0.534</b>	<0.0029	<b>0.0196</b>	<0.0500
Dibenzofuran		73	nc	1,040	nc	ns	<0.0305	<0.0330	<b>0.119</b>	NA	NA	NA	<b>0.0907</b>



Table A-3

Soil Sample Analytical Results - Semi-Volatile Organic Compounds (SVOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Non-Industrial Direct Contact		Industrial Direct Contact		Soil-to-GW RCL	Soil Sample Results (mg/kg)							
	Sample ID (Depth) Sample Date (Depth to Groundwater)	RCL	Basis	RCL		Basis	SB-39 (3-4') 8/1/17 (1.5')	SB-40 (4-5') 8/1/17 (8.5')	SB-41 (1-1.5') 8/1/17 (4.43')	SB-42 (1-2') 7/31/17 (12.79')	SB-43 (3-4') 8/1/17 (6.25')	SB-44 (2-3') 8/1/17 (5.28')	SB-45 (2-3') 8/1/17 (3.86')
Diethylphthalate		50,600	nc	100,000	ceiling	ns	<0.0417	<0.0452	<0.0357	NA	NA	NA	<0.0305
Dimethylphthalate		569	nc	7,390	nc	ns	<0.0327	<0.0355	<0.0280	NA	NA	NA	<0.0240
Fluoranthene		2,390	nc	30,100	nc	88.9	<b>0.250</b>	<b>0.291</b>	<b>0.212</b>	<b>9.93</b>	<0.0067	<b>0.130</b>	<b>0.0955</b>
Fluorene		2,390	nc	30,100	nc	14.8	<0.0294	<0.0319	<b>0.0291 J</b>	<b>0.643</b>	<0.0053	<b>0.0118 J</b>	<0.0215
Hexachloro-1,3-butadiene		1.63	ca	7.19	ca	ns	<0.0641	<0.0695	<0.0548	NA	NA	NA	<0.0469
Hexachlorobenzene		0.25	ca	1.15	ca	0.03	<0.0423	<0.0459	<0.0362	NA	NA	NA	<0.0310
Hexachlorocyclopentadiene		2.55	nc	10.8	nc	ns	<0.0596	<0.0646	<0.0509	NA	NA	NA	<0.0436
Hexachloroethane		2.52	ca	11.1	ca	ns	<0.0403	<0.0437	<0.0344	NA	NA	NA	<0.0295
Indeno(1,2,3-cd)pyrene		1.15	ca	21.1	ca	ns	<b>0.210</b>	<b>0.142 J</b>	<b>0.0705 J</b>	<b>1.75</b>	<0.0028	<b>0.0537</b>	<b>0.0585 J</b>
Isophorone		571	ca	2,420	ca	ns	<0.0387	<0.0419	<0.0331	NA	NA	NA	<0.0283
N-Nitroso-di-n-propylamine		0.08	ca	0.33	ca	ns	<0.0399	<0.0433	<0.0341	NA	NA	NA	<0.0292
N-Nitrosodiphenylamine		111	ca	469	ca	0.08	<0.342	<0.370	<0.292	NA	NA	NA	<0.250
Naphthalene		5.52	ca	24.1	ca	0.66	<0.0880	<0.0954	<0.0752	<0.278	<0.0108	<b>0.0470</b>	<b>0.148 J</b>
Nitrobenzene		7.42	ca	32.4	ca	ns	<0.0510	<0.0553	<0.0436	NA	NA	NA	<0.0373
Pentachlorophenol		1.02	ca	3.97	ca	0.003	<0.0554	<0.0601	<0.0474	NA	NA	NA	<0.0406
Phenanthrene		ns	ns	ns	ns	ns	<b>0.161</b>	<b>0.179</b>	<b>0.702</b>	<b>8.08</b>	<0.0149	<b>0.0837</b>	<b>0.362</b>
Phenol		19,000	nc	100,000	ceiling	2.3	<0.0597	<b>0.114 J</b>	<0.0510	NA	NA	NA	<0.0437
Pyrene		1,790	nc	22,600	nc	55	<b>0.258</b>	<b>0.213</b>	<b>0.217</b>	<b>6.96</b>	<0.0058	<b>0.108</b>	<b>0.158</b>
bis(2-Chloroethoxy)methane		190	nc	2,460	nc	ns	<0.0678	<0.0735	<0.0579	NA	NA	NA	<0.0496
bis(2-Chloroethyl) ether		ns	ns	ns	ns	ns	<0.0786	<0.0852	<0.0671	NA	NA	NA	<0.0575
bis(2-Ethylhexyl)phthalate		38.8	ca	164	ca	2.9	<0.0419	<0.0454	<0.0358	NA	NA	NA	<0.0306

**Notes:**

All units are milligrams per kilogram (mg/kg).

All depths are measured in feet below ground surface (ft bgs).

**Bold** Value exceeds laboratory detection limit (DL).*Italic* Value exceeds a soil to groundwater residual contaminant level (RCL).

Shaded Value exceeds an industrial direct contact RCL.

Shaded Value exceeds a non-industrial direct contact RCL.

Soil sample collected below the water table.

NA Not analyzed.

ca Carcinogen.

Csat Saturation concentration.

GW Groundwater.

nc Non-carcinogen.

ns No established standard.

Table A-3

Soil Sample Analytical Results - Semi-Volatile Organic Compounds (SVOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Non-Industrial Direct Contact		Industrial Direct Contact		Soil-to-GW RCL	Soil Sample Results (mg/kg)							
	Sample ID (Depth) Sample Date (Depth to Groundwater)	RCL	Basis	RCL		Basis	SB-46 (4-5') 8/1/17 (4.11')	SB-47 (2-2.5') 8/1/17 (4.02')	SB-48 (1-2') 8/1/17 (6.37')	SB-49 (5-7') 8/2/17 (4.96')	SB-50 (1-2') 8/2/17 (5.04')	SB-51 (1-1.5') 8/2/17 (4.86')	SB-52 (4-5') 7/28/17 (7.62')
1,2,4-Trichlorobenzene		24	ca	113	ca	0.41	<0.0228	<0.0237	<0.0236	<0.0206	<0.0205	<0.0448	NA
1,2-Dichlorobenzene		376	Csat	376	Csat	1.17	<0.0635	<0.0660	<0.0655	<0.0574	<0.0571	<0.125	NA
1,3-Dichlorobenzene		297	Csat	297	Csat	1.15	<0.0280	<0.0291	<0.0289	<0.0253	<0.0251	<0.0549	NA
1,4-Dichlorobenzene		3.74	ca	16.4	ca	0.14	<0.0281	<0.0292	<0.0290	<0.0254	<0.0253	<0.0552	NA
1-Methylnaphthalene		17.6	ca	72.7	ca	ns	NA	NA	NA	NA	NA	NA	<0.0052
2,2'-Oxybis(1-chloropropane)		ns	ns	ns	ns	ns	<0.0521	<0.0541	<0.0537	<0.0471	<0.0468	<0.102	NA
2,4,5-Trichlorophenol		6,320	nc	82,100	nc	ns	<0.0357	<0.0371	<0.0368	<0.0322	<0.0321	<0.0700	NA
2,4,6-Trichlorophenol		49	ca	209	ca	ns	<0.0308	<0.0320	<0.0318	<0.0278	<0.0277	<0.0604	NA
2,4-Dichlorophenol		190	nc	2,460	nc	ns	<0.0540	<0.0561	<0.0557	<0.0488	<0.0485	<0.106	NA
2,4-Dimethylphenol		1,260	nc	16,400	nc	ns	<0.0400	<0.0415	<0.0412	<0.0361	<0.0359	<0.0784	NA
2,4-Dinitrophenol		126	nc	1,640	nc	ns	<0.0615	<0.0639	<0.0635	<0.0556	<0.0553	<0.121	NA
2,4-Dinitrotoluene		1.74	ca	7.37	ca	0.0001	<0.0289	<0.0300	<0.0298	<0.0261	<0.0259	<0.0567	NA
2,6-Dinitrotoluene		0.36	ca	1.54	ca	0.0001	<0.0384	<0.0398	<0.0396	<0.0347	<0.0344	<0.0753	NA
2-Chloronaphthalene		ns	ns	ns	ns	ns	<0.0259	<0.0269	<0.0267	<0.0234	<0.0233	<0.0509	NA
2-Chlorophenol		391	nc	5,840	nc	ns	<0.0504	<0.0524	<0.0520	<0.0456	<0.0453	<0.0990	NA
2-Methylnaphthalene		239	nc	3,010	nc	ns	<b>0.410</b>	<0.0545	<0.0541	<0.0474	<0.0471	<b>0.131 J</b>	<0.0064
2-Methylphenol(o-Cresol)		ns	ns	ns	ns	ns	<0.0367	<0.0381	<0.0379	<0.0332	<0.0330	<0.0720	NA
2-Nitroaniline		627	nc	8,010	nc	ns	<0.0576	<0.0598	<0.0594	<0.0520	<0.0517	<0.113	NA
2-Nitrophenol		ns	ns	ns	ns	ns	<0.0638	<0.0662	<0.0658	<0.0576	<0.0573	<0.125	NA
3&4-Methylphenol(m&p Cresol)		ns	ns	ns	ns	ns	<0.0370	<b>0.0480 J</b>	<0.0382	<0.0335	<0.0333	<0.0727	NA
3,3'-Dichlorobenzidine		1.21	ca	5.11	ca	ns	<0.0548	<0.0569	<0.0565	<0.0495	<0.0492	<0.108	NA
3-Nitroaniline		ns	ns	ns	ns	ns	<0.0344	<0.0357	<0.0354	<0.0310	<0.0309	<0.0674	NA
4,6-Dinitro-2-methylphenol		ns	ns	ns	ns	ns	<0.0623	<0.0647	<0.0642	<0.0563	<0.0559	<0.122	NA
4-Bromophenylphenyl ether		ns	ns	ns	ns	ns	<0.0423	<0.0440	<0.0436	<0.0382	<0.0380	<0.0830	NA
4-Chloro-3-methylphenol		ns	ns	ns	ns	ns	<0.0629	<0.0653	<0.0648	<0.0568	<0.0565	<0.123	NA
4-Chloroaniline		ns	ns	ns	ns	ns	<0.0332	<0.0345	<0.0342	<0.0300	<0.0298	<0.0652	NA
4-Chlorophenylphenyl ether		ns	ns	ns	ns	ns	<0.0376	<0.0391	<0.0388	<0.0340	<0.0338	<0.0738	NA
4-Nitroaniline		27.10	ca	115	ca	ns	<0.0839	<0.0871	<0.0865	<0.0758	<0.0753	<0.165	NA
4-Nitrophenol		ns	ns	ns	ns	ns	<0.0509	<0.0528	<0.0525	<0.0460	<0.0457	<0.0998	NA
Acenaphthene		3,590	nc	45,200	nc	ns	<0.0716	<0.0744	<0.0739	<0.0647	<0.0643	<0.141	<0.0050
Acenaphthylene		0.00	ns	ns	ns	ns	<0.0721	<0.0749	<0.0743	<0.0651	<0.0647	<0.141	<0.0042
Anthracene		17,900	nc	100,000	ceiling	197	<b>0.0856 J</b>	<0.0335	<0.0333	<0.0292	<0.0290	<b>0.391</b>	<b>0.0117 J</b>
Benzo(a)anthracene		1.14	ca	20.8	ca	ns	<b>0.212</b>	<b>0.0511 J</b>	<0.0323	<0.0283	<b>0.0294 J</b>	<b>1.01</b>	<b>0.0370</b>
Benzo(a)pyrene		0.12	ca	2.11	ca	0.47	<b>0.224</b>	<b>0.0557 J</b>	<0.0313	<0.0275	<b>0.0345 J</b>	<b>0.892</b>	<b>0.0413</b>
Benzo(b)fluoranthene		1.15	ca	21.1	ca	0.48	<b>0.144</b>	<b>0.0699 J</b>	<0.0358	<0.0314	<b>0.0315 J</b>	<b>1.15</b>	<b>0.0316</b>
Benzo(g,h,i)perylene		ns	ns	ns	0	ns	<b>0.443</b>	<b>0.0879 J</b>	<0.0545	<0.0478	<0.0475	<b>0.563</b>	<b>0.0309</b>
Benzo(k)fluoranthene		11.5	ca	211	ca	ns	<0.0484	<0.0502	<0.0499	<0.0437	<0.0434	<b>0.440</b>	<b>0.0402</b>
Butylbenzylphthalate		286	ca	1,210	ca	ns	<0.0324	<0.0337	<0.0334	<0.0293	<0.0291	<0.0636	NA
Carbazole		ns	ns	ns	ns	ns	<0.0316	<0.0329	<0.0326	<0.0286	<0.0284	<b>0.106 J</b>	NA
Chrysene		115	ca	2,110	ca	0.14	<b>0.359</b>	<b>0.0654 J</b>	<0.0312	<0.0273	<b>0.0460 J</b>	<b>1.09</b>	<b>0.0400</b>
Di-n-butylphthalate		6,320	nc	82,100	nc	5.03	<0.0302	<0.0314	<0.0311	<0.0273	<0.0271	<0.0593	NA
Di-n-octylphthalate		632	nc	8,210	nc	ns	<0.0454	<0.0472	<0.0468	<0.0410	<0.0408	<0.0891	NA
Dibenz(a,h)anthracene		0.12	ca	2.11	ca	ns	<b>0.0892 J</b>	<0.0570	<0.0566	<0.0496	<0.0493	<b>0.140 J</b>	<b>0.0094 J</b>
Dibenzofuran		73	nc	1,040	nc	ns	<b>0.0805 J</b>	<0.0254	<0.0252	<0.0221	<0.0220	<b>0.0886 J</b>	NA



Table A-3

Soil Sample Analytical Results - Semi-Volatile Organic Compounds (SVOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Non-Industrial Direct Contact		Industrial Direct Contact		Soil-to-GW RCL	Soil Sample Results (mg/kg)							
	Sample ID (Depth) Sample Date (Depth to Groundwater)	RCL	Basis	RCL		Basis	SB-46 (4-5') 8/1/17 (4.11')	SB-47 (2-2.5') 8/1/17 (4.02')	SB-48 (1-2') 8/1/17 (6.37')	SB-49 (5-7') 8/2/17 (4.96')	SB-50 (1-2') 8/2/17 (5.04')	SB-51 (1-1.5') 8/2/17 (4.86')	SB-52 (4-5') 7/28/17 (7.62')
Diethylphthalate		50,600	nc	100,000	ceiling	ns	<0.0335	<0.0348	<0.0345	<0.0303	<0.0301	<0.0657	NA
Dimethylphthalate		569	nc	7,390	nc	ns	<0.0263	<0.0273	<0.0271	<0.0237	<0.0236	<0.0516	NA
Fluoranthene		2,390	nc	30,100	nc	88.9	<b>0.127</b>	<b>0.0773 J</b>	<0.0295	<0.0258	<b>0.0506 J</b>	<b>2.24</b>	<b>0.0858</b>
Fluorene		2,390	nc	30,100	nc	14.8	<b>0.0302 J</b>	<0.0245	<0.0244	<0.0213	<0.0212	<b>0.131 J</b>	<0.0053
Hexachloro-1,3-butadiene		1.63	ca	7.19	ca	ns	<0.0515	<0.0535	<0.0531	<0.0465	<0.0462	<0.101	NA
Hexachlorobenzene		0.25	ca	1.15	ca	0.03	<0.0340	<0.0353	<0.0350	<0.0307	<0.0305	<0.0667	NA
Hexachlorocyclopentadiene		2.55	nc	10.8	nc	ns	<0.0478	<0.0497	<0.0493	<0.0432	<0.0429	<0.0938	NA
Hexachloroethane		2.52	ca	11.1	ca	ns	<0.0323	<0.0336	<0.0333	<0.0292	<0.0290	<0.0634	NA
Indeno(1,2,3-cd)pyrene		1.15	ca	21.1	ca	ns	<b>0.140 J</b>	<b>0.0456 J</b>	<0.0451	<0.0395	<b>0.0418 J</b>	<b>0.616</b>	<b>0.0260</b>
Isophorone		571	ca	2,420	ca	ns	<0.0311	<0.0323	<0.0320	<0.0281	<0.0279	<0.0609	NA
N-Nitroso-di-n-propylamine		0.08	ca	0.33	ca	ns	<0.0320	<0.0333	<0.0330	<0.0290	<0.0288	<0.0629	NA
N-Nitrosodiphenylamine		111	ca	469	ca	0.08	<0.274	<0.285	<0.283	<0.248	<0.246	<0.538	NA
Naphthalene		5.52	ca	24.1	ca	0.66	<b>0.189 J</b>	<0.0734	<0.0729	<0.0638	<0.0634	<0.139	<0.0109
Nitrobenzene		7.42	ca	32.4	ca	ns	<0.0410	<0.0426	<0.0423	<0.0370	<0.0368	<0.0804	NA
Pentachlorophenol		1.02	ca	3.97	ca	0.003	<0.0445	<0.0462	<0.0459	<0.0402	<0.0400	<0.0873	NA
Phenanthrene		ns	ns	ns	ns	ns	<b>0.528</b>	<b>0.0510 J</b>	<0.0267	<0.0234	<b>0.0415 J</b>	<b>1.51</b>	<b>0.0451 J</b>
Phenol		19,000	nc	100,000	ceiling	2.3	<0.0479	<0.0498	<0.0494	<0.0433	<0.0431	<0.0941	NA
Pyrene		1,790	nc	22,600	nc	55	<b>0.312</b>	<b>0.0853 J</b>	<0.0462	<0.0405	<b>0.0562 J</b>	<b>1.59</b>	<b>0.0677</b>
bis(2-Chloroethoxy)methane		190	nc	2,460	nc	ns	<0.0544	<0.0565	<0.0561	<0.0492	<0.0489	<0.107	NA
bis(2-Chloroethyl) ether		ns	ns	ns	ns	ns	<0.0631	<0.0655	<0.0650	<0.0570	<0.0566	<0.124	NA
bis(2-Ethylhexyl)phthalate		38.8	ca	164	ca	2.9	<0.0336	<b>0.467</b>	<0.0346	<0.0304	<0.0302	<0.0659	NA

**Notes:**

All units are milligrams per kilogram (mg/kg).

All depths are measured in feet below ground surface (ft bgs).

**Bold** Value exceeds laboratory detection limit (DL).*Italic* Value exceeds a soil to groundwater residual contaminant level (RCL).

Shaded Value exceeds an industrial direct contact RCL.

Shaded Value exceeds a non-industrial direct contact RCL.

Soil sample collected below the water table.

NA Not analyzed.

ca Carcinogen.

Csat Saturation concentration.

GW Groundwater.

nc Non-carcinogen.

ns No established standard.

Table A-4

Soil Sample Analytical Results - Metals, 910 Mayer Avenue, Madison, Wisconsin.

Parameter Sample ID (Depth) Sample Date (Depth to Groundwater)	Background Threshold Value	Non-Industrial Direct Contact		Industrial Direct Contact		Soil-to-GW RCL	Soil Sample Results (mg/kg)						
		RCL	Basis	RCL	Basis		SB-1 (1-1.5') 7/31/17 (6')	SB-2 (1-1.5') 7/31/17 (6')	SB-3 (8-10') 7/31/17 (6.45')	SB-4 (3-4') 7/31/17 (4.86')	SB-5 (4-5') 7/31/17 (4.44')	SB-6 (3-4') 7/31/17 (5.4')	SB-7 (10-12') 8/1/17 (12')
Arsenic, Inorganic	8	0.677	ca	3	ca	0.584	NA	NA	NA	NA	NA	NA	NA
Barium	364	15,300	nc	100,000	ceiling	164.8	NA	NA	NA	NA	NA	NA	NA
Cadmium (diet)	1	71.1	nc	985	nc	0.752	NA	NA	NA	NA	NA	NA	NA
Chromium, Total*	44	ns	ns	ns	ns	360,000	NA	NA	NA	NA	NA	NA	NA
Lead and compounds	52	400	ns	800	ns	27	9.2	37.6	12.1	14.0	4.1	5.6	10.3
Mercury (elemental)	ns	3.13	Csat	3	Csat	0.208	NA	NA	NA	NA	NA	NA	NA
Selenium	ns	391	nc	5,840	nc	0.52	NA	NA	NA	NA	NA	NA	NA
Silver	ns	391	nc	5,840	nc	0.8491	NA	NA	NA	NA	NA	NA	NA

Notes:

All units are milligrams per kilogram (mg/kg).

All depths are measured in feet below ground surface (ft bgs).

\* Chromium soil to groundwater RCL is applicable if no chromium VI present.

**Bold** Value exceeds laboratory detection limit (DL).

*Italic* Value exceeds a soil to groundwater residual contaminant level (RCL).

Shaded Value exceeds an industrial direct contact RCL.

Shaded Value exceeds a non-industrial direct contact RCL.

Soil sample collected below the water table.

NA Not analyzed.

ca Carcinogen.

Csat Saturation concentration.

GW Groundwater.

nc Non-carcinogen.

ns No established standard.



Table A-4

Soil Sample Analytical Results - Metals, 910 Mayer Avenue, Madison, Wisconsin.

Parameter Sample ID (Depth) Sample Date (Depth to Groundwater)	Background Threshold Value	Non-Industrial Direct Contact		Industrial Direct Contact		Soil-to-GW RCL	Soil Sample Results (mg/kg)						
		RCL	Basis	RCL	Basis		SB-8 (10-12') 8/1/17 (5.13')	SB-9 (4-5') 8/1/17 (4.75')	SB-11 (4-5') 7/31/17 (4.41')	SB-12 (1-1.5') 8/1/17 (4.35')	SB-13 (1.5-2') 7/28/17 (3.45')	SB-14 (3-4') 7/28/17 (4.18')	SB-15 (5-7') 7/28/17 (2.97')
Arsenic, Inorganic	8	0.677	ca	3	ca	0.584	NA	NA	NA	6.4	NA	13.5	3.6 J
Barium	364	15,300	nc	100,000	ceiling	164.8	NA	NA	NA	161	NA	46.7	73.2
Cadmium (diet)	1	71.1	nc	985	nc	0.752	NA	NA	NA	0.43 J	NA	0.68 J	<0.33
Chromium, Total*	44	ns	ns	ns	ns	360,000	NA	NA	NA	22.0	NA	47.1	9.7
Lead and compounds	52	400	ns	800	ns	27	11.0	6.5	24.0	27.5	16.0	25.9	10.0
Mercury (elemental)	ns	3.13	Csat	3	Csat	0.208	NA	NA	NA	0.025 J	NA	0.029 J	<0.025
Selenium	ns	391	nc	5,840	nc	0.52	NA	NA	NA	<1.2	NA	<1.7	<2.7
Silver	ns	391	nc	5,840	nc	0.8491	NA	NA	NA	<0.38	NA	<0.51	<0.84

**Notes:**

All units are milligrams per kilogram (mg/kg).

All depths are measured in feet below ground surface (ft bgs).

\* Chromium soil to groundwater RCL is applicable if no chromium VI present.

**Bold** Value exceeds laboratory detection limit (DL).*Italic* Value exceeds a soil to groundwater residual contaminant level (RCL).

Shaded Value exceeds an industrial direct contact RCL.

Shaded Value exceeds a non-industrial direct contact RCL.

Soil sample collected below the water table.

NA Not analyzed.

ca Carcinogen.

Csat Saturation concentration.

GW Groundwater.

nc Non-carcinogen.

ns No established standard.

Table A-4

Soil Sample Analytical Results - Metals, 910 Mayer Avenue, Madison, Wisconsin.

Parameter Sample ID (Depth) Sample Date (Depth to Groundwater)	Background Threshold Value	Non-Industrial Direct Contact		Industrial Direct Contact		Soil-to-GW RCL	Soil Sample Results (mg/kg)						
		RCL	Basis	RCL	Basis		SB-16 (2-2.5') 8/2/17	SB-17 (4-5') 8/2/17 (7.17')	SB-18 (4-5') 7/28/17 (6.28')	SB-19 (1.5-2') 7/31/17 (2.88')	SB-20 (3-4') 7/31/17 (4.99')	SB-21 (3-3.5') 7/31/17 (6.54')	SB-22 (4-5') 7/31/17 (6.53')
Arsenic, Inorganic	8	0.677	ca	3	ca	0.584	6.1	2.5 J	NA	3.8 J	6.8	18.1	NA
Barium	364	15,300	nc	100,000	ceiling	164.8	16.5	9.6	NA	72.2	35.9	108	NA
Cadmium (diet)	1	71.1	nc	985	nc	0.752	0.36 J	<0.14	NA	1.8	0.15 J	0.88 J	NA
Chromium, Total*	44	ns	ns	ns	ns	360,000	5.9	3.9	NA	20.8	12.3	12.2	NA
Lead and compounds	52	400	ns	800	ns	27	15.8	10.3	608	47.9	6.6	27.5	7.0
Mercury (elemental)	ns	3.13	Csat	3	Csat	0.208	0.019 J	<0.011	NA	0.063	<0.012	0.067	NA
Selenium	ns	391	nc	5,840	nc	0.52	<1.2	<1.2	NA	<1.3	<1.1	<1.2	NA
Silver	ns	391	nc	5,840	nc	0.8491	<0.39	<0.37	NA	<0.40	<0.35	0.47 J	NA

Notes:

All units are milligrams per kilogram (mg/kg).

All depths are measured in feet below ground surface (ft bgs).

\* Chromium soil to groundwater RCL is applicable if no chromium VI present.

**Bold** Value exceeds laboratory detection limit (DL).

*Italic* Value exceeds a soil to groundwater residual contaminant level (RCL).

Shaded Value exceeds an industrial direct contact RCL.

Shaded Value exceeds a non-industrial direct contact RCL.

Soil sample collected below the water table.

NA Not analyzed.

ca Carcinogen.

Csat Saturation concentration.

GW Groundwater.

nc Non-carcinogen.

ns No established standard.



Table A-4  
Soil Sample Analytical Results - Metals, 910 Mayer Avenue, Madison, Wisconsin.

Parameter Sample ID (Depth) Sample Date (Depth to Groundwater)	Background Threshold Value	Non-Industrial Direct Contact		Industrial Direct Contact		Soil-to-GW RCL	Soil Sample Results (mg/kg)						
		RCL	Basis	RCL	Basis		SB-23 (2-2.5') 7/31/17 (4.08')	SB-24 (3-4') 7/31/17 (8.11')	SB-25 (3-4') 7/31/17 (2.97')	SB-29 (2-2.5') 7/28/17 (3.21')	SB-33 (2.5-3') 7/28/17 (3.74')	SB-35 (3.5-4.5') 7/27/17 (2.6')	SB-38 (8-10') 7/27/17 (6.5')
Arsenic, Inorganic	8	0.677	ca	3	ca	0.584	3.1 J	6.8	10.6 J	20.7 J	1.4 J	13.0	2.8 J
Barium	364	15,300	nc	100,000	ceiling	164.8	25.1	67.5	55.2	299	19.1	90.4	8.2
Cadmium (diet)	1	71.1	nc	985	nc	0.752	0.84	0.33 J	<0.30	0.85 J	<0.15	0.79	<0.15
Chromium, Total*	44	ns	ns	ns	ns	360,000	10.5	17.5	12.4	20.5	8.8	19.0	4.3
Lead and compounds	52	400	ns	800	ns	27	14.9	33.2	181	242	4.5	18.1	2.6
Mercury (elemental)	ns	3.13	Csat	3	Csat	0.208	0.033 J	0.022 J	0.018 J	0.16	<0.013	0.080	<0.012
Selenium	ns	391	nc	5,840	nc	0.52	<1.1	<1.2	<1.2	<1.3	<1.3	<1.7	<1.3
Silver	ns	391	nc	5,840	nc	0.8491	<0.35	<0.39	0.40 J	0.69 J	<0.40	1.2 J	<0.39

Notes:

All units are milligrams per kilogram (mg/kg).

All depths are measured in feet below ground surface (ft bgs).

\* Chromium soil to groundwater RCL is applicable if no chromium VI present.

**Bold** Value exceeds laboratory detection limit (DL).

*Italic* Value exceeds a soil to groundwater residual contaminant level (RCL).

Shaded Value exceeds an industrial direct contact RCL.

Shaded Value exceeds a non-industrial direct contact RCL.

Soil sample collected below the water table.

NA Not analyzed.

ca Carcinogen.

Csat Saturation concentration.

GW Groundwater.

nc Non-carcinogen.

ns No established standard.

Table A-4

Soil Sample Analytical Results - Metals, 910 Mayer Avenue, Madison, Wisconsin.

Parameter Sample ID (Depth) Sample Date (Depth to Groundwater)	Background Threshold Value	Non-Industrial Direct Contact		Industrial Direct Contact		Soil-to-GW RCL	Soil Sample Results (mg/kg)						
		RCL	Basis	RCL	Basis		SB-39 (3-4') 8/1/17 (1.5')	SB-40 (4-5') 8/1/17 (8.5')	SB-41 (1-1.5) 8/1/17 (4.43')	SB-42 (1-2') 7/31/17 (12.79')	SB-43 (3-4') 8/1/17 (6.25')	SB-44 (2-3') 8/1/17 (5.28')	SB-45 (2-3') 8/1/17 (3.86')
Arsenic, Inorganic	8	0.677	ca	3	ca	0.584	14.4	4.9 J	3.8 J	NA	NA	NA	2.7 J
Barium	364	15,300	nc	100,000	ceiling	164.8	244	113	109	NA	NA	NA	32.9
Cadmium (diet)	1	71.1	nc	985	nc	0.752	1.5	1.2	0.39 J	NA	NA	NA	<0.14
Chromium, Total*	44	ns	ns	ns	ns	360,000	39.7	21.2	14.8	NA	NA	NA	7.7
Lead and compounds	52	400	ns	800	ns	27	231	48.8	24.7	32.0	10.0	29.9	6.9
Mercury (elemental)	ns	3.13	Csat	3	Csat	0.208	3.6	0.13	0.022 J	NA	NA	NA	<0.011
Selenium	ns	391	nc	5,840	nc	0.52	<1.6	1.9 J	1.3 J	NA	NA	NA	<1.1
Silver	ns	391	nc	5,840	nc	0.8491	9.8	<0.56	<0.41	NA	NA	NA	<0.35

Notes:

All units are milligrams per kilogram (mg/kg).

All depths are measured in feet below ground surface (ft bgs).

\* Chromium soil to groundwater RCL is applicable if no chromium VI present.

**Bold** Value exceeds laboratory detection limit (DL).

*Italic* Value exceeds a soil to groundwater residual contaminant level (RCL).

Shaded Value exceeds an industrial direct contact RCL.

Shaded Value exceeds a non-industrial direct contact RCL.

Soil sample collected below the water table.

NA Not analyzed.

ca Carcinogen.

Csat Saturation concentration.

GW Groundwater.

nc Non-carcinogen.

ns No established standard.



Table A-4

Soil Sample Analytical Results - Metals, 910 Mayer Avenue, Madison, Wisconsin.

Parameter Sample ID (Depth) Sample Date (Depth to Groundwater)	Background Threshold Value	Non-Industrial Direct Contact		Industrial Direct Contact		Soil-to-GW RCL	Soil Sample Results (mg/kg)						
		RCL	Basis	RCL	Basis		SB-46 (4-5') 8/1/17 (4.11')	SB-47 (2-2.5') 8/1/17 (4.02')	SB-48 (1-2') 8/1/17 (6.37')	SB-49 (5-7') 8/2/17 (4.96')	SB-50 (1-2') 8/2/17 (5.04')	SB-51 (1-1.5') 8/2/17 (4.86')	SB-52 (4-5') 7/28/17 (7.62')
Arsenic, Inorganic	8	0.677	ca	3	ca	0.584	2.7 J	7.4	6.0	2.5 J	2.1 J	5.5 J	NA
Barium	364	15,300	nc	100,000	ceiling	164.8	48.7	4,200	172	48.5	24.6	103	NA
Cadmium (diet)	1	71.1	nc	985	nc	0.752	0.20 J	0.64	<0.15	<0.14	<0.14	1.2	NA
Chromium, Total*	44	ns	ns	ns	ns	360,000	8.1	15.3	23.1	10.2	13.5	18.4	NA
Lead and compounds	52	400	ns	800	ns	27	29.7	93.2	11.0	3.5	5.6	45.7	2.6
Mercury (elemental)	ns	3.13	Csat	3	Csat	0.208	0.019 J	0.044 J	0.029 J	<0.012	<0.012	0.035 J	NA
Selenium	ns	391	nc	5,840	nc	0.52	<1.3	<1.2	<1.3	<1.1	<1.2	<1.2	NA
Silver	ns	391	nc	5,840	nc	0.8491	<0.42	<0.38	<0.39	<0.35	<0.37	<0.38	NA

**Notes:**

All units are milligrams per kilogram (mg/kg).

All depths are measured in feet below ground surface (ft bgs).

\* Chromium soil to groundwater RCL is applicable if no chromium VI present.

**Bold** Value exceeds laboratory detection limit (DL).*Italic* Value exceeds a soil to groundwater residual contaminant level (RCL).

Shaded Value exceeds an industrial direct contact RCL.

Shaded Value exceeds a non-industrial direct contact RCL.

Soil sample collected below the water table.

NA Not analyzed.

ca Carcinogen.

Csat Saturation concentration.

GW Groundwater.

nc Non-carcinogen.

ns No established standard.

Table A-5

Soil Sample Analytical Results - PCBs, 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Non-Industrial Direct Contact		Industrial Direct Contact		Soil-to-GW RCL	Soil Sample Results (mg/kg)							
	Sample ID (Depth) Sample Date (Depth to Groundwater)	RCL	Basis	RCL		Basis	SB-12 (1-1.5') 8/2/17 (4.35')	SB-14 (3-4') 7/28/17 (4.18')	SB-15 (5-7') 7/28/17 (2.97')	SB-16 (2-2.5') 8/2/17	SB-17 (4-5') 8/2/17 (7.17')	SB-19 (1.5-2') 7/31/17 (2.88')	SB-20 (3-4') 7/31/17 (4.99')
PCB, Total	0.234	ca	0.967	ca	NS	<0.0296	<0.0382	<0.0621	<0.300	<0.0267	<0.0294	<0.0281	<0.0280
PCB-1016 (Aroclor 1016)	4.11	nc	28	ca	NS	<0.0296	<0.0382	<0.0621	<0.300	<0.0267	<0.0294	<0.0281	<0.0280
PCB-1221 (Aroclor 1221)	0.213	ca	0.883	ca	NS	<0.0296	<0.0382	<0.0621	<0.300	<0.0267	<0.0294	<0.0281	<0.0280
PCB-1232 (Aroclor 1232)	0.190	ca	0.792	ca	NS	<0.0296	<0.0382	<0.0621	<0.300	<0.0267	<0.0294	<0.0281	<0.0280
PCB-1242 (Aroclor 1242)	0.235	ca	0.972	ca	NS	<0.0296	<0.0382	<0.0621	<0.300	<0.0267	<0.0294	<0.0281	<0.0280
PCB-1248 (Aroclor 1248)	0.236	ca	0.975	ca	NS	<0.0296	<0.0382	<0.0621	<0.300	<0.0267	<0.0294	<0.0281	<0.0280
PCB-1254 (Aroclor 1254)	0.239	ca	0.988	ca	NS	<0.0296	<0.0382	<0.0621	<0.300	<0.0267	<0.0294	<0.0281	<0.0280
PCB-1260 (Aroclor 1260)	0.243	ca	1	ca	NS	<0.0296	<0.0382	<0.0621	<0.300	<0.0267	<0.0294	<0.0281	<0.0280

**Notes:**

All units are milligrams per kilogram (mg/kg).

All depths are measured in feet below ground surface (ft bgs).

PCBs analyzed by USEPA Method 8082.

**Bold** Value exceeds laboratory detection limit (DL).

*Italic* Value exceeds a soil to groundwater residual contaminant level (RCL).

**Shaded** Value exceeds an industrial direct contact RCL.

**Shaded** Value exceeds a non-industrial direct contact RCL.

**Shaded** Soil sample collected below the water table.

NA Not analyzed.

ca Carcinogen.

Csat Saturation concentration.

GW Groundwater.

nc Non-carcinogen.

ns No established standard.



Table A-5  
Soil Sample Analytical Results - PCBs, 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Non-Industrial Direct Contact		Industrial Direct Contact		Soil-to-GW RCL	Soil Sample Results (mg/kg)							
	Sample ID (Depth) Sample Date (Depth to Groundwater)	RCL	Basis	RCL		Basis	SB-23 (2-2.5') 7/31/17 (4.08')	SB-24 (3-4') 7/31/17 (8.11')	SB-25 (3-4') 7/31/17 (2.97')	SB-29 (2-2.5') 7/28/17 (3.21')	SB-33 (2.5-3') 7/28/17 (3.74')	SB-35 (3.5-4.5') 7/27/17 (2.6')	SB-38 (8-10') 7/27/17 (6.5')
PCB, Total	0.234	ca	0.967	ca	NS	<0.0271	<0.0281	<0.0309	<0.0316	<0.0306	<0.0401	<b>0.0451 J</b>	<0.0377
PCB-1016 (Aroclor 1016)	4.11	nc	28	ca	NS	<0.0271	<0.0281	<0.0309	<0.0316	<0.0306	<0.0401	<0.0286	<0.0377
PCB-1221 (Aroclor 1221)	0.213	ca	0.883	ca	NS	<0.0271	<0.0281	<0.0309	<0.0316	<0.0306	<0.0401	<0.0286	<0.0377
PCB-1232 (Aroclor 1232)	0.190	ca	0.792	ca	NS	<0.0271	<0.0281	<0.0309	<0.0316	<0.0306	<0.0401	<0.0286	<0.0377
PCB-1242 (Aroclor 1242)	0.235	ca	0.972	ca	NS	<0.0271	<0.0281	<0.0309	<0.0316	<0.0306	<0.0401	<b>0.0451 J</b>	<0.0377
PCB-1248 (Aroclor 1248)	0.236	ca	0.975	ca	NS	<0.0271	<0.0281	<0.0309	<0.0316	<0.0306	<0.0401	<0.0286	<0.0377
PCB-1254 (Aroclor 1254)	0.239	ca	0.988	ca	NS	<0.0271	<0.0281	<0.0309	<0.0316	<0.0306	<0.0401	<0.0286	<0.0377
PCB-1260 (Aroclor 1260)	0.243	ca	1	ca	NS	<0.0271	<0.0281	<0.0309	<0.0316	<0.0306	<0.0401	<0.0286	<0.0377

**Notes:**

All units are milligrams per kilogram (mg/kg).

All depths are measured in feet below ground surface (ft bgs).

PCBs analyzed by USEPA Method 8082.

**Bold** Value exceeds laboratory detection limit (DL).

*Italic* Value exceeds a soil to groundwater residual contaminant level (RCL).

**Shaded** Value exceeds an industrial direct contact RCL.

**Shaded** Value exceeds a non-industrial direct contact RCL.

**Shaded** Soil sample collected below the water table.

NA Not analyzed.

ca Carcinogen.

Csat Saturation concentration.

GW Groundwater.

nc Non-carcinogen.

ns No established standard.

Table A-5  
Soil Sample Analytical Results - PCBs, 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Non-Industrial Direct Contact		Industrial Direct Contact		Soil-to-GW RCL	Soil Sample Results (mg/kg)								
	Sample ID (Depth) Sample Date (Depth to Groundwater)	RCL	Basis	RCL		Basis	SB-40 (4-5') 8/1/17 (8.5')	SB-41 (1-1.5) 8/1/17 (4.43')	SB-45 (2-3') 8/1/17 (3.86')	SB-46 (4-5') 8/1/17 (4.11')	SB-47 (2-2.5') 8/1/17 (4.02')	SB-48 (1-2') 8/1/17 (6.37')	SB-49 (5-7') 8/2/17 (4.96')	SB-50 (1-2') 8/2/17 (5.04')
PCB, Total		0.234	ca	0.967	ca	NS	<0.0409	<0.0322	<0.0276	<0.0303	<0.0314	<0.0312	<0.0273	<0.0272
PCB-1016 (Aroclor 1016)		4.11	nc	28	ca	NS	<0.0409	<0.0322	<0.0276	<0.0303	<0.0314	<0.0312	<0.0273	<0.0272
PCB-1221 (Aroclor 1221)		0.213	ca	0.883	ca	NS	<0.0409	<0.0322	<0.0276	<0.0303	<0.0314	<0.0312	<0.0273	<0.0272
PCB-1232 (Aroclor 1232)		0.190	ca	0.792	ca	NS	<0.0409	<0.0322	<0.0276	<0.0303	<0.0314	<0.0312	<0.0273	<0.0272
PCB-1242 (Aroclor 1242)		0.235	ca	0.972	ca	NS	<0.0409	<0.0322	<0.0276	<0.0303	<0.0314	<0.0312	<0.0273	<0.0272
PCB-1248 (Aroclor 1248)		0.236	ca	0.975	ca	NS	<0.0409	<0.0322	<0.0276	<0.0303	<0.0314	<0.0312	<0.0273	<0.0272
PCB-1254 (Aroclor 1254)		0.239	ca	0.988	ca	NS	<0.0409	<0.0322	<0.0276	<0.0303	<0.0314	<0.0312	<0.0273	<0.0272
PCB-1260 (Aroclor 1260)		0.243	ca	1	ca	NS	<0.0409	<0.0322	<0.0276	<0.0303	<0.0314	<0.0312	<0.0273	<0.0272

**Notes:**

All units are milligrams per kilogram (mg/kg).

All depths are measured in feet below ground surface (ft bgs).

PCBs analyzed by USEPA Method 8082.

**Bold** Value exceeds laboratory detection limit (DL).

*Italic* Value exceeds a soil to groundwater residual contaminant level (RCL).

**Shaded** Value exceeds an industrial direct contact RCL.

**Shaded** Value exceeds a non-industrial direct contact RCL.

**Shaded** Soil sample collected below the water table.

NA Not analyzed.

ca Carcinogen.

Csat Saturation concentration.

GW Groundwater.

nc Non-carcinogen.

ns No established standard.



Table A-5

Soil Sample Analytical Results - PCBs, 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Non-Industrial Direct Contact		Industrial Direct Contact		Soil-to-GW RCL	Soil Sample Results (mg/kg)
	RCL	Basis	RCL	Basis		SB-51 (1-1.5') 8/2/17 (4.86')
PCB, Total	0.234	ca	0.967	ca	NS	<0.0297
PCB-1016 (Aroclor 1016)	4.11	nc	28	ca	NS	<0.0297
PCB-1221 (Aroclor 1221)	0.213	ca	0.883	ca	NS	<0.0297
PCB-1232 (Aroclor 1232)	0.190	ca	0.792	ca	NS	<0.0297
PCB-1242 (Aroclor 1242)	0.235	ca	0.972	ca	NS	<0.0297
PCB-1248 (Aroclor 1248)	0.236	ca	0.975	ca	NS	<0.0297
PCB-1254 (Aroclor 1254)	0.239	ca	0.988	ca	NS	<0.0297
PCB-1260 (Aroclor 1260)	0.243	ca	1	ca	NS	<0.0297

**Notes:**

All units are milligrams per kilogram (mg/kg).

All depths are measured in feet below ground surface (ft bgs).

PCBs analyzed by USEPA Method 8082.

**Bold** Value exceeds laboratory detection limit (DL).

*Italic* Value exceeds a soil to groundwater residual contaminant level (RCL).

**Shaded** Value exceeds an industrial direct contact RCL.

**Shaded** Value exceeds a non-industrial direct contact RCL.

**Shaded** Soil sample collected below the water table.

NA Not analyzed.

ca Carcinogen.

Csat Saturation concentration.

GW Groundwater.

nc Non-carcinogen.

ns No established standard.

Table A-6

Temporary Well Groundwater Analytical Results - Volatile Organic Compounds (VOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Sample ID (Depth) Sample Date	Ch. NR 140 PAL	Ch. NR 140 ES	SB-3	SB-4	SB-5	SB-8	SB-9	SB-10	SB-11	SB-12	SB-13	SB-14
				3-13'	7-12'	3-8'	5-15'	3-13'	3-8'	3-8'	3-8'	3-8'	3-8'
				07/31/17	07/31/17	07/31/17	08/01/17	08/02/17	07/28/17	07/31/17	08/02/17	07/28/17	07/28/17
1,1,1,2-Tetrachloroethane		7	70	<0.90	<0.18	<1.8	<9.0	<0.18	<0.18	<45.1	<0.18	<0.18	<0.18
1,1,1-Trichloroethane		40	200	<2.5	<0.50	<5.0	<25.0	<0.50	<0.50	<125	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane		0.02	0.2	<1.2	<0.25	<2.5	<12.5	<0.25	<0.25	<62.3	<0.25	<0.25	<0.25
1,1,2-Trichloroethane		0.5	5	<0.99	<0.20	<2.0	<9.9	<0.20	<0.20	<49.3	<0.20	<0.20	<0.20
1,1-Dichloroethane		85	850	<1.2	<0.24	<2.4	<12.1	<0.24	<0.24	<60.4	<0.24	<0.24	<0.24
1,1-Dichloroethene		0.7	7	<2.1	<0.41	<4.1	<20.5	<0.41	<0.41	<103	<0.41	<0.41	<0.41
1,1-Dichloropropene		NS	NS	<2.2	<0.44	<4.4	<22.1	<0.44	<0.44	<110	<0.44	<0.44	<0.44
1,2,3-Trichlorobenzene		NS	NS	<10.7	<2.1	<21.3	<107	<2.1	<2.1	<533	<2.1	<2.1	<2.1
1,2,3-Trichloropropane		12	60	<2.5	<0.50	<5.0	<25.0	<0.50	<0.50	<125	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene		14	70	<11.0	<2.2	<22.1	<110	<2.2	<2.2	<552	<2.2	<2.2	<2.2
1,2,4-Trimethylbenzene		96	480	440	<0.50	65.5	1,120	2.3	<0.50	1,620	<0.50	<0.50	<0.50
1,2-Dibromo-3-chloropropane (DBCP)		0.02	0.2	<10.8	<2.2	<21.6	<108	<2.2	<2.2	<541	<2.2	<2.2	<2.2
1,2-Dibromoethane (EDB)		0.005	0.05	<0.89	<0.18	<1.8	<8.9	<0.18	<0.18	<44.4	<0.18	<0.18	<0.18
1,2-Dichlorobenzene		60	600	<2.5	<0.50	<5.0	<25.0	1.0	<0.50	<125	<0.50	<0.50	<0.50
1,2-Dichloroethane		0.5	5	<0.84	<0.17	<1.7	<8.4	<0.17	<0.17	<42.0	<0.17	6.1	5.4
1,2-Dichloropropane		0.5	5	<1.2	<0.23	<2.3	<11.7	<0.23	<0.23	<58.3	<0.23	<0.23	<0.23
1,3,5-Trimethylbenzene		96	480	150	<0.50	126	291	8.9	<0.50	485	<0.50	<0.50	<0.50
1,3-Dichlorobenzene		120	600	<2.5	<0.50	<5.0	<25.0	<0.50	<0.50	<125	<0.50	<0.50	<0.50
1,3-Dichloropropane		NS	NS	<2.5	<0.50	<5.0	<25.0	<0.50	<0.50	<125	<0.50	<0.50	<0.50
1,4-Dichlorobenzene		15	75	<2.5	<0.50	<5.0	<25.0	<0.50	<0.50	<125	<0.50	<0.50	<0.50
2,2-Dichloropropane		NS	NS	<2.4	<0.48	<4.8	<24.2	<0.48	<0.48	<121	<0.48	<0.48	<0.48
2-Butanone (MEK)		800	4,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene		NS	NS	<2.5	<0.50	<5.0	<25.0	<0.50	<0.50	<125	<0.50	<0.50	<0.50
2-Hexanone		NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorotoluene		NS	NS	<1.1	<0.21	<2.1	<10.7	<0.21	<0.21	<53.4	<0.21	<0.21	<0.21
4-Methyl-2-pentanone (MIBK)		50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone		1,800	9,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene		0.5	5	197	<0.50	<5.0	28.2 J	51.9	<0.50	1,770	<0.50	<0.50	0.56 J
Bromobenzene		NS	NS	<1.2	<0.23	<2.3	<11.5	<0.23	<0.23	<57.5	<0.23	<0.23	<0.23
Bromochloromethane		NS	NS	<1.7	<0.34	<3.4	<17.0	<0.34	<0.34	<85.1	<0.34	<0.34	<0.34
Bromodichloromethane		0.06	0.6	<2.5	<0.50	<5.0	<25.0	<0.50	<0.50	<125	<0.50	<0.50	<0.50
Bromoform		0.44	4.4	<2.5	<0.50	<5.0	<25.0	<0.50	<0.50	<125	<0.50	<0.50	<0.50
Bromomethane		1	10	<12.2	<2.4	<24.3	<122	<2.4	<2.4	<609	<2.4	<2.4	<2.4
Carbon tetrachloride		0.5	5	<2.5	<0.50	<5.0	<25.0	<0.50	<0.50	<125	<0.50	<0.50	<0.50
Chlorobenzene		NS	NS	<2.5	<0.50	<5.0	<25.0	<0.50	<0.50	<125	<0.50	<0.50	<0.50
Chloroethane		80	400	<1.9	<0.37	<3.7	<18.7	<0.37	<0.37	<93.6	<0.37	<0.37	1.4
Chloroform		0.6	6	<12.5	<2.5	<25.0	<125	<2.5	<2.5	<625	<2.5	<2.5	<2.5
Chloromethane		3	30	<2.5	<0.50	<5.0	<25.0	<0.50	<0.50	<125	<0.50	<0.50	<0.50
Dibromochloromethane		6	60	<2.5	<0.50	<5.0	<25.0	<0.50	<0.50	<125	<0.50	<0.50	<0.50
Dibromomethane		NS	NS	<2.1	<0.43	<4.3	<21.3	<0.43	<0.43	<107	<0.43	<0.43	<0.43
Dichlorodifluoromethane		200	1,000	<1.1	<0.22	<2.2	<11.2	<0.22	<0.22	<56.0	<0.22	<0.22	<0.22
Diisopropyl ether		NS	NS	<2.5	<0.50	<5.0	<25.0	<0.50	<0.50	<125	<0.50	<0.50	7.7
Ethylbenzene		140	700	357	<0.50	23.8	2,250	2.5	<0.50	2,700	<0.50	<0.50	<0.50
Hexachloro-1,3-butadiene		NS	NS	<10.5	<2.1	<21.1	<105	<2.1	<2.1	<526	<2.1	<2.1	<2.1
Isopropylbenzene (Cumene)		NS	NS	61.2	<0.14	41.5	89.6	7.8	<0.14	75.8 J	<0.14	<0.14	<0.14
Methyl tert-butyl ether (MTBE)		12	60	<0.87	<0.17	<1.7	<8.7	<0.17	<0.17	<43.6	<0.17	<0.17	<0.17



Table A-6

Temporary Well Groundwater Analytical Results - Volatile Organic Compounds (VOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Sample ID (Depth) Sample Date	Ch. NR 140 PAL	Ch. NR 140 ES	SB-3	SB-4	SB-5	SB-8	SB-9	SB-10	SB-11	SB-12	SB-13	SB-14
				3-13'	7-12'	3-8'	5-15'	3-13'	3-8'	3-8'	3-8'	3-8'	3-8'
				07/31/17	07/31/17	07/31/17	08/01/17	08/02/17	07/28/17	07/31/17	08/02/17	07/28/17	07/28/17
Methylene Chloride		0.5	5	<1.2	<0.23	<2.3	<11.6	<0.23	<0.23	<58.1	<0.23	<0.23	<0.23
Naphthalene		10	100	<b>780</b>	<2.5	<b>191</b>	<b>173 J</b>	<b>45.2</b>	<2.5	<625	<2.5	<2.5	<b>48.6</b>
Styrene		10	100	<2.5	<0.50	<5.0	<25.0	<0.50	<0.50	<125	<0.50	<0.50	<0.50
Tetrachloroethene		0.5	5	<2.5	<0.50	<5.0	<25.0	<0.50	<0.50	<125	<0.50	<0.50	<0.50
Toluene		160	<b>800</b>	<b>54.0</b>	<0.50	<5.0	<25.0	<b>2.8</b>	<0.50	<b>12,900</b>	<0.50	<0.50	<b>0.73 J</b>
Trichloroethene		0.5	5	<1.7	<0.33	<3.3	<16.5	<0.33	<0.33	<82.7	<0.33	<0.33	<0.33
Trichlorofluoromethane		NS	NS	<0.92	<0.18	<1.8	<9.2	<0.18	<0.18	<46.2	<0.18	<0.18	<0.18
Vinyl chloride		0.02	<b>0.2</b>	<0.88	<0.18	<1.8	<8.8	<0.18	<0.18	<43.9	<0.18	<0.18	<b>0.94 J</b>
1,2-Dichloroethene (cis)		7	70	<1.3	<0.26	<2.6	<12.8	<0.26	<0.26	<64.0	<0.26	<0.26	<0.26
1,3-Dichloropropene (cis)		0.04	0.4	<2.5	<0.50	<5.0	<25.0	<0.50	<0.50	<125	<0.50	<0.50	<0.50
m&p-Xylene*		400	<b>2,000</b>	<b>1,150</b>	<1.0	<b>12.0 J</b>	<b>3,920</b>	<b>3.9</b>	<1.0	<b>9,460</b>	<1.0	<1.0	<1.0
n-Butylbenzene		NS	NS	<b>81.4</b>	<0.50	<b>69.7</b>	<25.0	<b>7.5</b>	<0.50	<125	<0.50	<0.50	<0.50
n-Propylbenzene		NS	NS	<b>167</b>	<0.50	<b>112</b>	190	<b>15.3</b>	<0.50	<b>229 J</b>	<0.50	<0.50	<0.50
o-Xylene*		400	<b>2,000</b>	<b>181</b>	<0.50	<5.0	<b>83.1</b>	<b>4.9</b>	<0.50	<b>4,610</b>	<0.50	<0.50	<0.50
p-Isopropyltoluene		NS	NS	<2.5	<0.50	<5.0	<25.0	<b>3.2</b>	<0.50	<125	<0.50	<0.50	<0.50
sec-Butylbenzene		NS	NS	<b>20.9 J</b>	<2.2	<b>47.5 J</b>	<109	<b>6.9</b>	<2.2	<547	<2.2	<2.2	<2.2
tert-Butylbenzene		NS	NS	<0.90	<0.18	<b>4.5 J</b>	<9.0	<b>1.1</b>	<0.18	<45.1	<0.18	<0.18	<0.18
1,2-Dichloroethene (trans)		20	100	<1.3	<0.26	<2.6	<12.8	<0.26	<0.26	<64.1	<0.26	<0.26	<b>0.40 J</b>
1,3-Dichloropropene (trans)		0.04	0.4	<1.1	<0.23	<2.3	<11.5	<0.23	<0.23	<57.4	<0.23	<0.23	<0.23

## Notes:

All units are micrograms per liter (µg/l).

All depths are measured in feet below ground surface (ft bgs).

VOCs analyzed by USEPA Method 8260.

\* Xylene standard is for total xylene concentrations.

**Bold** Value exceeds laboratory detection limit (DL).*Italic* Value exceeds Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit (PAL).**Shaded** Value exceeds Wisconsin Administrative Code Chapter NR 140 Enforcement Standard (ES).

NS No established standard.

NA Not analyzed.

Table A-6

Temporary Well Groundwater Analytical Results - Volatile Organic Compounds (VOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Sample ID (Depth) Sample Date	Ch. NR 140 PAL	Ch. NR 140 ES	SB-15S	SB-15D	SB-17	SB-18	SB-19	SB-20	SB-21	SB-22	SB-23	SB-24
				3-8'	15-20'	5-15'	5-15'	3-8'	7-12'	5-15'	6-16'	11-16'	6-16'
				07/28/17	09/11/17	08/02/17	07/28/17	07/31/17	07/31/17	07/31/17	07/31/17	07/31/17	07/31/17
1,1,1,2-Tetrachloroethane	7	70	<3.6	NA	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
1,1,1-Trichloroethane	40	200	<10.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	0.02	0.2	<5.0	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
1,1,2-Trichloroethane	0.5	5	12.8 J	0.42 J	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1-Dichloroethane	85	850	<4.8	0.26 J	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	0.43 J	<0.24	<0.24
1,1-Dichloroethene	0.7	7	<8.2	2.0	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41
1,1-Dichloropropene	NS	NS	<8.8	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44
1,2,3-Trichlorobenzene	NS	NS	<42.7	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
1,2,3-Trichloropropane	12	60	<10.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene	14	70	<44.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2
1,2,4-Trimethylbenzene	96	480	<10.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dibromo-3-chloropropane (DBCP)	0.02	0.2	<43.3	<0.18	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2
1,2-Dibromoethane (EDB)	0.005	0.05	<3.6	NA	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
1,2-Dichlorobenzene	60	600	<10.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	0.5	5	1,630	11.9	<0.17	1.4	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
1,2-Dichloropropane	0.5	5	<4.7	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23
1,3,5-Trimethylbenzene	96	480	<10.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	120	600	<10.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichloropropane	NS	NS	<10.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	15	75	<10.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2,2-Dichloropropane	NS	NS	<9.7	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
2-Butanone (MEK)	800	4,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	NS	NS	<10.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2-Hexanone	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorotoluene	NS	NS	<4.3	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
4-Methyl-2-pentanone (MIBK)	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	1,800	9,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.5	5	<10.0	1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromobenzene	NS	NS	<4.6	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23
Bromochloromethane	NS	NS	<6.8	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
Bromodichloromethane	0.06	0.6	<10.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform	0.44	4.4	<10.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromomethane	1	10	<48.7	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4
Carbon tetrachloride	0.5	5	<10.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorobenzene	NS	NS	<10.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroethane	80	400	<7.5	1.1	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
Chloroform	0.6	6	<50.0	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Chloromethane	3	30	<10.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dibromochloromethane	6	60	<10.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dibromomethane	NS	NS	<8.5	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43
Dichlorodifluoromethane	200	1,000	<4.5	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22
Diisopropyl ether	NS	NS	<10.0	8.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	140	700	<10.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Hexachloro-1,3-butadiene	NS	NS	<42.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Isopropylbenzene (Cumene)	NS	NS	<2.9	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Methyl tert-butyl ether (MTBE)	12	60	<3.5	NA	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17



Table A-6

Temporary Well Groundwater Analytical Results - Volatile Organic Compounds (VOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Sample ID (Depth) Sample Date	Ch. NR 140 PAL	Ch. NR 140 ES	SB-15S	SB-15D	SB-17	SB-18	SB-19	SB-20	SB-21	SB-22	SB-23	SB-24
				3-8' 07/28/17	15-20' 09/11/17	5-15' 08/02/17	5-15' 07/28/17	3-8' 07/31/17	7-12' 07/31/17	5-15 07/31/17	6-16' 07/31/17	11-16' 07/31/17	6-16' 08/01/17
Methylene Chloride		0.5	5	<4.7	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23
Naphthalene		10	100	<50.0	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Styrene		10	100	<10.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene		0.5	5	<10.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene		160	800	<10.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene		0.5	5	<6.6	<b>0.52 J</b>	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Trichlorofluoromethane		NS	NS	<3.7	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<b>0.27 J</b>
Vinyl chloride		0.02	0.2	<b>17.7 J</b>	<b>146</b>	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<b>0.91 J</b>	<0.18
1,2-Dichloroethene (cis)		7	70	<5.1	<0.50	<0.26	<0.26	<0.26	<0.26	<b>0.47 J</b>	<b>1.0</b>	<b>1.6</b>	<0.26
1,3-Dichloropropene (cis)		0.04	0.4	<10.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
m&p-Xylene*		400	2,000	<20.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Butylbenzene		NS	NS	<10.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
n-Propylbenzene		NS	NS	<10.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
o-Xylene*		400	2,000	<10.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
p-Isopropyltoluene		NS	NS	<10.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
sec-Butylbenzene		NS	NS	<43.7	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2
tert-Butylbenzene		NS	NS	<3.6	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
1,2-Dichloroethene (trans)		20	100	<5.1	<b>1.4</b>	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<b>0.34 J</b>	<0.26
1,3-Dichloropropene (trans)		0.04	0.4	<4.6	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23

**Notes:**

All units are micrograms per liter (µg/l).

All depths are measured in feet below ground surface (ft bgs).

VOCs analyzed by USEPA Method 8260.

\* Xylene standard is for total xylene concentrations.

**Bold** Value exceeds laboratory detection limit (DL).*Italic* Value exceeds Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit (PAL).**Shaded** Value exceeds Wisconsin Administrative Code Chapter NR 140 Enforcement Standard (ES).

NS No established standard.

NA Not analyzed.

Table A-6

Temporary Well Groundwater Analytical Results - Volatile Organic Compounds (VOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Sample ID (Depth) Sample Date	Ch. NR 140 PAL	Ch. NR 140 ES	SB-25	SB-26	SB-27S	SB-27D	SB-28	SB-29	SB-30	SB-31S	SB-31D	SB-32
				10-20'	0-5'	5-10'	20-30'	11-16'	3-8'	15-20'	7-12'	25-30'	9.5-14.5'
				08/01/17	07/26/17	07/26/17	07/27/17	07/26/17	07/28/17	07/26/17	07/26/17	07/26/17	07/26/17
1,1,1,2-Tetrachloroethane		7	70	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
1,1,1-Trichloroethane		40	200	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane		0.02	0.2	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
1,1,2-Trichloroethane		0.5	5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1-Dichloroethane		85	850	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
1,1-Dichloroethene		0.7	7	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41
1,1-Dichloropropene		NS	NS	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44
1,2,3-Trichlorobenzene		NS	NS	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
1,2,3-Trichloropropane		12	60	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene		14	70	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2
1,2,4-Trimethylbenzene		96	480	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.0	<0.50
1,2-Dibromo-3-chloropropane (DBCP)		0.02	0.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2
1,2-Dibromoethane (EDB)		0.005	0.05	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
1,2-Dichlorobenzene		60	600	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.52 J	<0.50
1,2-Dichloroethane		0.5	5	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
1,2-Dichloropropane		0.5	5	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23
1,3,5-Trimethylbenzene		96	480	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene		120	600	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichloropropane		NS	NS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene		15	75	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2,2-Dichloropropane		NS	NS	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
2-Butanone (MEK)		800	4,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene		NS	NS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2-Hexanone		NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorotoluene		NS	NS	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
4-Methyl-2-pentanone (MIBK)		50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone		1,800	9,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene		0.5	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6.9	<0.50
Bromobenzene		NS	NS	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23
Bromochloromethane		NS	NS	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
Bromodichloromethane		0.06	0.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform		0.44	4.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromomethane		1	10	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4
Carbon tetrachloride		0.5	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorobenzene		NS	NS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroethane		80	400	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
Chloroform		0.6	6	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Chloromethane		3	30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dibromochloromethane		6	60	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dibromomethane		NS	NS	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43
Dichlorodifluoromethane		200	1,000	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22
Diisopropyl ether		NS	NS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene		140	700	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	9.0	<0.50
Hexachloro-1,3-butadiene		NS	NS	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Isopropylbenzene (Cumene)		NS	NS	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	1.8	<0.14
Methyl tert-butyl ether (MTBE)		12	60	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17



Table A-6

Temporary Well Groundwater Analytical Results - Volatile Organic Compounds (VOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Sample ID (Depth) Sample Date	Ch. NR 140 PAL	Ch. NR 140 ES	SB-25	SB-26	SB-27S	SB-27D	SB-28	SB-29	SB-30	SB-31S	SB-31D	SB-32
				10-20'	0-5'	5-10'	20-30'	11-16'	3-8'	15-20'	7-12'	25-30'	9.5-14.5'
				08/01/17	07/26/17	07/26/17	07/27/17	07/26/17	07/28/17	07/26/17	07/26/17	07/26/17	07/26/17
Methylene Chloride		0.5	5	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23
Naphthalene		10	100	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Styrene		10	100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene		0.5	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene		160	800	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<b>1.1</b>	<0.50
Trichloroethene		0.5	5	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Trichlorofluoromethane		NS	NS	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Vinyl chloride		0.02	0.2	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
1,2-Dichloroethene (cis)		7	70	<0.26	<0.26	<0.26	<b>3.7</b>	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
1,3-Dichloropropene (cis)		0.04	0.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
m&p-Xylene*		400	2,000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Butylbenzene		NS	NS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
n-Propylbenzene		NS	NS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<b>1.9</b>	<0.50
o-Xylene*		400	2,000	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
p-Isopropyltoluene		NS	NS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
sec-Butylbenzene		NS	NS	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2
tert-Butylbenzene		NS	NS	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
1,2-Dichloroethene (trans)		20	100	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
1,3-Dichloropropene (trans)		0.04	0.4	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23

**Notes:**All units are micrograms per liter ( $\mu\text{g/l}$ ).

All depths are measured in feet below ground surface (ft bgs).

VOCs analyzed by USEPA Method 8260.

\* Xylene standard is for total xylene concentrations.

**Bold** Value exceeds laboratory detection limit (DL).*Italic* Value exceeds Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit (PAL).**Shaded** Value exceeds Wisconsin Administrative Code Chapter NR 140 Enforcement Standard (ES).

NS No established standard.

NA Not analyzed.

Table A-6

Temporary Well Groundwater Analytical Results - Volatile Organic Compounds (VOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Sample ID (Depth) Sample Date	Ch. NR 140 PAL	Ch. NR 140 ES	SB-33	SB-34	SB-35	SB-36S	SB-36D	SB-37S	SB-37D	SB-38	SB-41	SB-42
				3-8'	7-12'	11-16'	3-8'	18-28'	5-10'	20-30'	7-12'	2-12'	6-16'
				07/28/17	07/27/17	07/27/17	07/27/17	07/27/17	07/27/17	07/27/17	07/27/17	08/02/17	07/31/17
1,1,1,2-Tetrachloroethane		7	70	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
1,1,1-Trichloroethane		40	200	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane		0.02	0.2	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
1,1,2-Trichloroethane		0.5	5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1-Dichloroethane		85	850	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
1,1-Dichloroethene		0.7	7	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41
1,1-Dichloropropene		NS	NS	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44
1,2,3-Trichlorobenzene		NS	NS	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
1,2,3-Trichloropropane		12	60	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene		14	70	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2
1,2,4-Trimethylbenzene		96	480	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dibromo-3-chloropropane (DBCP)		0.02	0.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2
1,2-Dibromoethane (EDB)		0.005	0.05	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
1,2-Dichlorobenzene		60	600	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane		0.5	5	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
1,2-Dichloropropane		0.5	5	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23
1,3,5-Trimethylbenzene		96	480	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene		120	600	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichloropropane		NS	NS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene		15	75	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2,2-Dichloropropane		NS	NS	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
2-Butanone (MEK)		800	4,000	NA	<3.0	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene		NS	NS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2-Hexanone		NS	NS	NA	<1.1	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorotoluene		NS	NS	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
4-Methyl-2-pentanone (MIBK)		50	500	NA	<2.1	NA	NA	NA	NA	NA	NA	NA	NA
Acetone		1,800	9,000	NA	<3.0	NA	NA	NA	NA	NA	NA	NA	NA
Benzene		0.5	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromobenzene		NS	NS	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23
Bromochloromethane		NS	NS	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
Bromodichloromethane		0.06	0.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform		0.44	4.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromomethane		1	10	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4
Carbon tetrachloride		0.5	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorobenzene		NS	NS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroethane		80	400	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
Chloroform		0.6	6	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Chloromethane		3	30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dibromochloromethane		6	60	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dibromomethane		NS	NS	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43
Dichlorodifluoromethane		200	1,000	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22
Diisopropyl ether		NS	NS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene		140	700	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Hexachloro-1,3-butadiene		NS	NS	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Isopropylbenzene (Cumene)		NS	NS	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Methyl tert-butyl ether (MTBE)		12	60	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17



Table A-6

Temporary Well Groundwater Analytical Results - Volatile Organic Compounds (VOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Sample ID (Depth) Sample Date	Ch. NR 140 PAL	Ch. NR 140 ES	SB-33	SB-34	SB-35	SB-36S	SB-36D	SB-37S	SB-37D	SB-38	SB-41	SB-42
				3-8' 07/28/17	7-12' 07/27/17	11-16' 07/27/17	3-8' 07/27/17	18-28' 07/27/17	5-10' 07/27/17	20-30' 07/27/17	7-12' 07/27/17	2-12' 08/02/17	6-16' 07/31/17
Methylene Chloride		0.5	5	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23
Naphthalene		10	100	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Styrene		10	100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene		0.5	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene		160	800	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene		0.5	5	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Trichlorofluoromethane		NS	NS	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Vinyl chloride		0.02	0.2	<0.18	<0.18	<b>0.48 J</b>	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
1,2-Dichloroethene (cis)		7	70	<0.26	<0.26	<b>0.70 J</b>	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
1,3-Dichloropropene (cis)		0.04	0.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
m&p-Xylene*		400	2,000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Butylbenzene		NS	NS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
n-Propylbenzene		NS	NS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
o-Xylene*		400	2,000	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
p-Isopropyltoluene		NS	NS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
sec-Butylbenzene		NS	NS	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2
tert-Butylbenzene		NS	NS	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
1,2-Dichloroethene (trans)		20	100	<0.26	<0.26	<b>0.75 J</b>	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
1,3-Dichloropropene (trans)		0.04	0.4	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23

**Notes:**

All units are micrograms per liter (µg/l).

All depths are measured in feet below ground surface (ft bgs).

VOCs analyzed by USEPA Method 8260.

\* Xylene standard is for total xylene concentrations.

**Bold** Value exceeds laboratory detection limit (DL).*Italic* Value exceeds Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit (PAL).**Shaded** Value exceeds Wisconsin Administrative Code Chapter NR 140 Enforcement Standard (ES).

NS No established standard.

NA Not analyzed.

Table A-6

Temporary Well Groundwater Analytical Results - Volatile Organic Compounds (VOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Sample ID (Depth) Sample Date	Ch. NR 140 PAL	Ch. NR 140 ES	SB-43	SB-44	SB-45	SB-46	SB-47	SB-48	SB-49	SB-50	SB-51	SB-52
				7-12'	7-12'	7-12'	3-8'	7-12'	11-16'	5-15'	5-15'	0-5'	3-8'
				08/01/17	08/01/17	08/02/17	08/02/17	08/01/17	08/01/17	08/02/17	08/02/17	08/02/17	07/28/17
1,1,1,2-Tetrachloroethane		7	70	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
1,1,1-Trichloroethane		40	200	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane		0.02	0.2	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
1,1,2-Trichloroethane		0.5	5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1-Dichloroethane		85	850	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
1,1-Dichloroethene		0.7	7	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41
1,1-Dichloropropene		NS	NS	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44
1,2,3-Trichlorobenzene		NS	NS	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
1,2,3-Trichloropropane		12	60	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene		14	70	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2
1,2,4-Trimethylbenzene		96	480	<0.50	0.73 J	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dibromo-3-chloropropane (DBCP)		0.02	0.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2
1,2-Dibromoethane (EDB)		0.005	0.05	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
1,2-Dichlorobenzene		60	600	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.58 J	<0.50	<0.50	<0.50
1,2-Dichloroethane		0.5	5	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
1,2-Dichloropropane		0.5	5	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23
1,3,5-Trimethylbenzene		96	480	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene		120	600	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichloropropane		NS	NS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene		15	75	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2,2-Dichloropropane		NS	NS	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
2-Butanone (MEK)		800	4,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene		NS	NS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2-Hexanone		NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorotoluene		NS	NS	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
4-Methyl-2-pentanone (MIBK)		50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone		1,800	9,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene		0.5	5	<0.50	23.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromobenzene		NS	NS	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23
Bromochloromethane		NS	NS	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
Bromodichloromethane		0.06	0.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform		0.44	4.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromomethane		1	10	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4
Carbon tetrachloride		0.5	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorobenzene		NS	NS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroethane		80	400	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
Chloroform		0.6	6	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Chloromethane		3	30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dibromochloromethane		6	60	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dibromomethane		NS	NS	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43
Dichlorodifluoromethane		200	1,000	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22
Diisopropyl ether		NS	NS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene		140	700	<0.50	1.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Hexachloro-1,3-butadiene		NS	NS	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Isopropylbenzene (Cumene)		NS	NS	<0.14	0.18 J	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Methyl tert-butyl ether (MTBE)		12	60	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17



Table A-6

Temporary Well Groundwater Analytical Results - Volatile Organic Compounds (VOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Sample ID (Depth) Sample Date	Ch. NR 140 PAL	Ch. NR 140 ES	SB-43	SB-44	SB-45	SB-46	SB-47	SB-48	SB-49	SB-50	SB-51	SB-52
				7-12'	7-12'	7-12'	3-8'	7-12'	11-16'	5-15'	5-15'	0-5'	3-8'
				08/01/17	08/01/17	08/02/17	08/02/17	08/01/17	08/01/17	08/02/17	08/02/17	08/02/17	07/28/17
Methylene Chloride		0.5	5	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23
Naphthalene		10	100	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Styrene		10	100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene		0.5	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene		160	800	<0.50	<b>10.8</b>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene		0.5	5	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Trichlorofluoromethane		NS	NS	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Vinyl chloride		0.02	0.2	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
1,2-Dichloroethene (cis)		7	70	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
1,3-Dichloropropene (cis)		0.04	0.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
m&p-Xylene*		400	2,000	<1.0	<b>5.2</b>	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Butylbenzene		NS	NS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
n-Propylbenzene		NS	NS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
o-Xylene*		400	2,000	<0.50	<b>2.2</b>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
p-Isopropyltoluene		NS	NS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
sec-Butylbenzene		NS	NS	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2
tert-Butylbenzene		NS	NS	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
1,2-Dichloroethene (trans)		20	100	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
1,3-Dichloropropene (trans)		0.04	0.4	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23

**Notes:**All units are micrograms per liter ( $\mu\text{g/l}$ ).

All depths are measured in feet below ground surface (ft bgs).

VOCs analyzed by USEPA Method 8260.

\* Xylene standard is for total xylene concentrations.

**Bold** Value exceeds laboratory detection limit (DL).*Italic* Value exceeds Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit (PAL).**Shaded** Value exceeds Wisconsin Administrative Code Chapter NR 140 Enforcement Standard (ES).

NS No established standard.

NA Not analyzed.

Table A-6

Temporary Well Groundwater Analytical Results - Volatile Organic Compounds (VOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Sample ID (Depth) Sample Date	Ch. NR 140 PAL	Ch. NR 140 ES	SB-53	TRIP BLANK	SB-54	SB-55	SB-56	SB-57	SB-58	SB-59	SB-60	SB-61
				0-3'		6-16'	6-16'	5-15'	2-12'	4-14'	3-13'	9-19'	9-19'
				07/27/17		08/02/17	09/11/17	09/11/17	09/11/17	09/11/17	09/11/17	09/11/17	09/11/17
1,1,1,2-Tetrachloroethane	7	70	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<1.8	<0.18	<0.36
1,1,1-Trichloroethane	40	200	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<1.0
1,1,2,2-Tetrachloroethane	0.02	0.2	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<2.5	<0.25	<0.50
1,1,2-Trichloroethane	0.5	5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<2.0	<0.20	<0.39
1,1-Dichloroethane	85	850	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<2.4	<0.24	<0.48
1,1-Dichloroethene	0.7	7	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<4.1	<0.41	<0.82
1,1-Dichloropropene	NS	NS	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<4.4	<0.44	<0.88
1,2,3-Trichlorobenzene	NS	NS	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<21.3	<2.1	<4.3
1,2,3-Trichloropropane	12	60	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<1.0
1,2,4-Trichlorobenzene	14	70	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<22.1	<2.2	<4.4
1,2,4-Trimethylbenzene	96	480	<0.50	<0.50	<0.50	1.0	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	54.5
1,2-Dibromo-3-chloropropane (DBCP)	0.02	0.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<21.6	<2.2	<4.3
1,2-Dibromoethane (EDB)	0.005	0.05	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<1.8	<0.18	<0.36
1,2-Dichlorobenzene	60	600	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<1.0
1,2-Dichloroethane	0.5	5	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<1.7	<0.17	<0.34
1,2-Dichloropropane	0.5	5	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<2.3	<0.23	<0.47
1,3,5-Trimethylbenzene	96	480	<0.50	<0.50	<0.50	0.60 J	<0.50	<0.50	<0.50	<0.50	85.9	3.3	22.5
1,3-Dichlorobenzene	120	600	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<1.0
1,3-Dichloropropane	NS	NS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<1.0
1,4-Dichlorobenzene	15	75	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<1.0
2,2-Dichloropropane	NS	NS	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<4.8	<0.48	<0.97
2-Butanone (MEK)	800	4,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	NS	NS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<1.0
2-Hexanone	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorotoluene	NS	NS	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<2.1	<0.21	<0.43
4-Methyl-2-pentanone (MIBK)	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	1,800	9,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.5	5	<0.50	<0.50	<0.50	36.6	<0.50	<0.50	<0.50	<0.50	6.9 J	<0.50	19.5
Bromobenzene	NS	NS	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<2.3	<0.23	<0.46
Bromochloromethane	NS	NS	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<3.4	<0.34	<0.68
Bromodichloromethane	0.06	0.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<1.0
Bromoform	0.44	4.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<1.0
Bromomethane	1	10	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<24.3	<2.4	<4.9
Carbon tetrachloride	0.5	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<1.0
Chlorobenzene	NS	NS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<1.0
Chloroethane	80	400	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<3.7	<0.37	<0.75
Chloroform	0.6	6	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<25.0	<2.5	<5.0
Chloromethane	3	30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<1.0
Dibromochloromethane	6	60	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<1.0
Dibromomethane	NS	NS	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<4.3	<0.43	<0.85
Dichlorodifluoromethane	200	1,000	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<2.2	<0.22	<0.45
Diisopropyl ether	NS	NS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<1.0
Ethylbenzene	140	700	<0.50	<0.50	<0.50	2.9	<0.50	<0.50	<0.50	<0.50	172	0.99 J	26.0
Hexachloro-1,3-butadiene	NS	NS	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<21.1	<2.1	<4.2
Isopropylbenzene (Cumene)	NS	NS	<0.14	<0.14	<0.14	3.7	<0.14	<0.14	<0.14	<0.14	96.2	5.8	12.8
Methyl tert-butyl ether (MTBE)	12	60	<0.17	<0.17	NA	NA	NA	NA	NA	NA	NA	NA	NA



Table A-6

Temporary Well Groundwater Analytical Results - Volatile Organic Compounds (VOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Sample ID (Depth) Sample Date	Ch. NR 140 PAL	Ch. NR 140 ES	SB-53	TRIP BLANK	SB-54	SB-55	SB-56	SB-57	SB-58	SB-59	SB-60	SB-61
				0-3'		6-16'	6-16'	5-15'	2-12'	4-14'	3-13'	9-19'	9-19'
				07/27/17	08/02/17	09/11/17	09/11/17	09/11/17	09/11/17	09/11/17	09/11/17	09/11/17	09/11/17
Methylene Chloride		0.5	5	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<2.3	<0.23	<0.47
Naphthalene		10	100	<2.5	<2.5	<b>2.6 J</b>	<b>32.8</b>	<2.5	<2.5	<2.5	<b>486</b>	<b>2.6 J</b>	<5.0
Styrene		10	100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<1.0
Tetrachloroethene		0.5	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<1.0
Toluene		160	<b>800</b>	<0.50	<0.50	<0.50	1.3	<0.50	<0.50	<0.50	<b>13.3</b>	<0.50	<b>12.9</b>
Trichloroethene		0.5	5	<b>0.39 J</b>	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<3.3	<0.33	<0.66
Trichlorofluoromethane		NS	NS	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<1.8	<0.18	<0.37
Vinyl chloride		0.02	<b>0.2</b>	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<1.8	<0.18	<0.35
1,2-Dichloroethene (cis)		7	70	<b>0.51 J</b>	<0.26	<b>1.1</b>	<b>2.4</b>	<0.26	<0.26	<0.26	<2.6	<0.26	<0.51
1,3-Dichloropropene (cis)		0.04	0.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<1.0
m&p-Xylene*		400	<b>2,000</b>	<1.0	<1.0	<1.0	<b>6.6</b>	<1.0	<1.0	<1.0	<b>521</b>	<1.0	<b>510</b>
n-Butylbenzene		NS	NS	<0.50	<0.50	<0.50	<b>1.1</b>	<0.50	<0.50	<0.50	<b>24.2</b>	<0.50	<1.0
n-Propylbenzene		NS	NS	<0.50	<0.50	<0.50	<b>10.1</b>	<0.50	<0.50	<0.50	<b>304</b>	<b>15.1</b>	<b>11.9</b>
o-Xylene*		400	<b>2,000</b>	<0.50	<0.50	<0.50	<b>0.61 J</b>	<0.50	<0.50	<0.50	<b>10.1</b>	<0.50	<b>16.0</b>
p-Isopropyltoluene		NS	NS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<b>7.6 J</b>	<0.50	<1.0
sec-Butylbenzene		NS	NS	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<21.9	<2.2	<4.4
tert-Butylbenzene		NS	NS	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<1.8	<0.18	<0.36
1,2-Dichloroethene (trans)		20	100	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<2.6	<0.26	<0.51
1,3-Dichloropropene (trans)		0.04	0.4	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<2.3	<0.23	<0.46

**Notes:**

All units are micrograms per liter (µg/l).

All depths are measured in feet below ground surface (ft bgs).

VOCs analyzed by USEPA Method 8260.

\* Xylene standard is for total xylene concentrations.

**Bold** Value exceeds laboratory detection limit (DL).*Italic* Value exceeds Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit (PAL).**Shaded** Value exceeds Wisconsin Administrative Code Chapter NR 140 Enforcement Standard (ES).

NS No established standard.

NA Not analyzed.

Table A-6

Temporary Well Groundwater Analytical Results - Volatile Organic Compounds (VOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Sample ID (Depth) Sample Date	Ch. NR 140 PAL	Ch. NR 140 ES	SB-62	SB-63	SB-64	SB-65	SB-66S	SB-66D	SB-67	SB-68S	SB-68D	SB-69
				10-20'	8-18'	3-13'	3-13'	3-8'	17-22'	17-22'	3-8'	17-22'	3-8'
				09/11/17	09/11/17	09/11/17	09/11/17	09/11/17	09/11/17	09/11/17	09/11/17	09/11/17	09/11/17
1,1,1,2-Tetrachloroethane		7	70	<0.18	<0.18	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane		40	200	<0.50	<0.50	<0.50	<0.50	<0.50	<25.0	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane		0.02	0.2	<0.25	<0.25	<0.25	<0.25	<0.25	<12.5	<0.25	<0.25	<0.25	<0.25
1,1,2-Trichloroethane		0.5	5	<0.20	<0.20	<0.20	<0.20	<0.20	<9.9	<0.20	<0.20	<0.20	<0.20
1,1-Dichloroethane		85	850	<0.24	<0.24	<0.24	<0.24	<0.24	<12.1	<0.24	<0.24	<0.24	<0.24
1,1-Dichloroethene		0.7	7	<0.41	<0.41	<0.41	<0.41	<0.41	<20.5	<0.41	<0.41	<0.41	<0.41
1,1-Dichloropropene		NS	NS	<0.44	<0.44	<0.44	<0.44	<0.44	<22.1	<0.44	<0.44	<0.44	<0.44
1,2,3-Trichlorobenzene		NS	NS	<2.1	<2.1	<2.1	<2.1	<2.1	<107	<2.1	<2.1	<2.1	<2.1
1,2,3-Trichloropropane		12	60	<0.50	<0.50	<0.50	<0.50	<0.50	<25.0	<0.50	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene		14	70	<2.2	<2.2	<2.2	<2.2	<2.2	<110	<2.2	<2.2	<2.2	<2.2
1,2,4-Trimethylbenzene		96	480	<0.50	<0.50	<0.50	<0.50	<0.50	<25.0	<0.50	<0.50	<0.50	<0.50
1,2-Dibromo-3-chloropropane (DBCP)		0.02	0.2	<2.2	<2.2	<0.18	<0.18	<0.18	<8.9	<0.18	<0.18	<0.18	<0.18
1,2-Dibromoethane (EDB)		0.005	0.05	<0.18	<0.18	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene		60	600	<0.50	<0.50	<0.50	<0.50	<0.50	<25.0	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane		0.5	5	<0.17	<0.17	<0.17	<0.17	<0.17	5,540	<0.17	<0.17	<0.17	<0.17
1,2-Dichloropropane		0.5	5	<0.23	<0.23	<0.23	<0.23	<0.23	<11.7	<0.23	<0.23	<0.23	<0.23
1,3,5-Trimethylbenzene		96	480	<0.50	<0.50	<0.50	<0.50	<0.50	<25.0	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene		120	600	<0.50	<0.50	<0.50	<0.50	<0.50	<25.0	<0.50	<0.50	<0.50	<0.50
1,3-Dichloropropane		NS	NS	<0.50	<0.50	<0.50	<0.50	<0.50	<25.0	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene		15	75	<0.50	<0.50	<0.50	<0.50	<0.50	<25.0	<0.50	<0.50	<0.50	<0.50
2,2-Dichloropropane		NS	NS	<0.48	<0.48	<0.48	<0.48	<0.48	<24.2	<0.48	<0.48	<0.48	<0.48
2-Butanone (MEK)		800	4,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene		NS	NS	<0.50	<0.50	<0.50	<0.50	<0.50	<25.0	<0.50	<0.50	<0.50	<0.50
2-Hexanone		NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorotoluene		NS	NS	<0.21	<0.21	<0.21	<0.21	<0.21	<10.7	<0.21	<0.21	<0.21	<0.21
4-Methyl-2-pentanone (MIBK)		50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone		1,800	9,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene		0.5	5	<0.50	<0.50	<0.50	<0.50	<0.50	<25.0	<0.50	<0.50	<0.50	<0.50
Bromobenzene		NS	NS	<0.23	<0.23	<0.23	<0.23	<0.23	<11.5	<0.23	<0.23	<0.23	<0.23
Bromochloromethane		NS	NS	<0.34	<0.34	<0.34	<0.34	<0.34	<17.0	<0.34	<0.34	<0.34	<0.34
Bromodichloromethane		0.06	0.6	<0.50	<0.50	<0.50	<0.50	<0.50	<25.0	<0.50	<0.50	<0.50	<0.50
Bromoform		0.44	4.4	<0.50	<0.50	<0.50	<0.50	<0.50	<25.0	<0.50	<0.50	<0.50	<0.50
Bromomethane		1	10	<2.4	<2.4	<2.4	<2.4	<2.4	<122	<2.4	<2.4	<2.4	<2.4
Carbon tetrachloride		0.5	5	<0.50	<0.50	<0.50	<0.50	<0.50	<25.0	<0.50	<0.50	<0.50	<0.50
Chlorobenzene		NS	NS	<0.50	<0.50	<0.50	<0.50	<0.50	<25.0	<0.50	<0.50	<0.50	<0.50
Chloroethane		80	400	<0.37	<0.37	<0.37	<0.37	<0.37	<18.7	<0.37	<0.37	<0.37	<0.37
Chloroform		0.6	6	<2.5	<2.5	<2.5	<2.5	<2.5	<125	<2.5	<2.5	<2.5	<2.5
Chloromethane		3	30	<0.50	<0.50	<0.50	<0.50	<0.50	<25.0	<0.50	<0.50	<0.50	<0.50
Dibromochloromethane		6	60	<0.50	<0.50	<0.50	<0.50	<0.50	<25.0	<0.50	<0.50	<0.50	<0.50
Dibromomethane		NS	NS	<0.43	<0.43	<0.43	<0.43	<0.43	<21.3	<0.43	<0.43	<0.43	<0.43
Dichlorodifluoromethane		200	1,000	<0.22	<0.22	<0.22	<0.22	<0.22	<11.2	<0.22	<0.22	<0.22	<0.22
Diisopropyl ether		NS	NS	<0.50	<0.50	<0.50	<0.50	<0.50	<25.0	6.2	0.96 J	<0.50	<0.50
Ethylbenzene		140	700	<0.50	<0.50	<0.50	<0.50	<0.50	<25.0	<0.50	<0.50	<0.50	<0.50
Hexachloro-1,3-butadiene		NS	NS	<2.1	<2.1	<2.1	<2.1	<2.1	<105	<2.1	<2.1	<2.1	<2.1
Isopropylbenzene (Cumene)		NS	NS	<0.14	<0.14	<0.14	<0.14	<0.14	<7.2	<0.14	<0.14	<0.14	<0.14
Methyl tert-butyl ether (MTBE)		12	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA



Table A-6

Temporary Well Groundwater Analytical Results - Volatile Organic Compounds (VOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Sample ID (Depth) Sample Date	Ch. NR 140 PAL	Ch. NR 140 ES	SB-62	SB-63	SB-64	SB-65	SB-66S	SB-66D	SB-67	SB-68S	SB-68D	SB-69
				10-20'	8-18'	3-13'	3-13'	3-8'	17-22'	17-22'	3-8'	17-22'	3-8'
				09/11/17	09/11/17	09/11/17	09/11/17	09/11/17	09/11/17	09/11/17	09/11/17	09/11/17	09/11/17
Methylene Chloride		0.5	5	<0.23	<0.23	<0.23	<0.23	<0.23	<11.6	<0.23	<0.23	<0.23	<0.23
Naphthalene		10	100	<2.5	<2.5	<2.5	<2.5	<2.5	<125	<2.5	<2.5	<2.5	<b>3.0 J</b>
Styrene		10	100	<0.50	<0.50	<0.50	<0.50	<0.50	<25.0	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene		0.5	5	<0.50	<0.50	<0.50	<0.50	<0.50	<25.0	<0.50	<0.50	<0.50	<0.50
Toluene		160	800	<0.50	<0.50	<0.50	<0.50	<0.50	<25.0	<0.50	<0.50	<0.50	<0.50
Trichloroethene		0.5	5	<0.33	<0.33	<0.33	<0.33	<0.33	<16.5	<0.33	<0.33	<0.33	<0.33
Trichlorofluoromethane		NS	NS	<0.18	<0.18	<0.18	<0.18	<0.18	<9.2	<0.18	<0.18	<0.18	<0.18
Vinyl chloride		0.02	0.2	<0.18	<0.18	<0.18	<0.18	<0.18	<b>55.2</b>	<0.18	<0.18	<0.18	<0.18
1,2-Dichloroethene (cis)		7	70	<0.26	<0.26	<0.50	<0.50	<0.50	<25.0	<0.50	<0.50	<0.50	<0.50
1,3-Dichloropropene (cis)		0.04	0.4	<0.50	<0.50	<1.0	<1.0	<1.0	<50.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene*		400	2,000	<1.0	<1.0	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene		NS	NS	<0.50	<0.50	<0.50	<0.50	<0.50	<25.0	<0.50	<0.50	<0.50	<0.50
n-Propylbenzene		NS	NS	<0.50	<0.50	<0.50	<0.50	<0.50	<25.0	<0.50	<0.50	<0.50	<0.50
o-Xylene*		400	2,000	<0.50	<0.50	<0.50	<0.50	<0.50	<25.0	<0.50	<0.50	<0.50	<0.50
p-Isopropyltoluene		NS	NS	<0.50	<0.50	<0.50	<0.50	<0.50	<25.0	<0.50	<0.50	<0.50	<0.50
sec-Butylbenzene		NS	NS	<2.2	<2.2	<2.2	<2.2	<2.2	<109	<2.2	<2.2	<2.2	<2.2
tert-Butylbenzene		NS	NS	NA	NA	<0.18	<0.18	<0.18	<9.0	<0.18	<0.18	<0.18	<0.18
1,2-Dichloroethene (trans)		20	100	<0.18	<0.18	<0.26	<0.26	<0.26	<12.8	<0.26	<0.26	<0.26	<0.26
1,3-Dichloropropene (trans)		0.04	0.4	<0.26	<0.26	<0.23	<0.23	<0.23	<11.5	<0.23	<0.23	<0.23	<0.23

**Notes:**All units are micrograms per liter ( $\mu\text{g/l}$ ).

All depths are measured in feet below ground surface (ft bgs).

VOCs analyzed by USEPA Method 8260.

\* Xylene standard is for total xylene concentrations.

**Bold** Value exceeds laboratory detection limit (DL).*Italic* Value exceeds Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit (PAL).**Shaded** Value exceeds Wisconsin Administrative Code Chapter NR 140 Enforcement Standard (ES).

NS No established standard.

NA Not analyzed.

Table A-7

Temporary Well Groundwater Analytical Results - Semi-Volatile Organic Compounds (SVOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Sample ID (Depth) Sample Date	Ch. NR 140 PAL	Ch. NR 140 ES	SB-3	SB-4	SB-5	SB-8	SB-9	SB-10	SB-11	SB-12	SB-13	SB-14	SB-15	SB-15D
				3-13'	7-12'	3-8'	5-15'	3-13'	3-8'	3-8'	3-8'	3-8'	3-8'	3-8'	15-20'
				07/31/17	07/31/17	07/31/17	08/01/17	08/02/17	07/28/17	07/31/17	08/02/17	07/28/17	07/28/17	07/28/17	09/11/17
1,2,4-Trichlorobenzene		14	70	NA	NA	NA	NA	NA	NA	NA	<1.9	NA	<7.8	<1.9	<2.2
1,2-Dichlorobenzene		60	600	NA	NA	NA	NA	NA	NA	NA	<1.8	NA	<7.4	<1.8	<0.50
1,3-Dichlorobenzene		120	600	NA	NA	NA	NA	NA	NA	NA	<1.8	NA	<7.2	<1.8	<0.50
1,4-Dichlorobenzene		15	75	NA	NA	NA	NA	NA	NA	NA	<1.8	NA	<7.2	<1.8	<0.50
1-Methylnaphthalene		NS	NS	<b>34.7</b>	<0.0054	<b>5.5</b>	<b>5.6</b>	<b>14.1</b>	<0.0054	<b>32.3</b>	NA	<0.0057	NA	NA	NA
2,2'-Oxybis(1-chloropropane)		NS	NS	NA	NA	NA	NA	NA	NA	NA	<1.5	NA	<5.8	<1.5	NA
2,4,5-Trichlorophenol		12	60	NA	NA	NA	NA	NA	NA	NA	<0.80	NA	<3.2	<0.80	NA
2,4,6-Trichlorophenol		NS	NS	NA	NA	NA	NA	NA	NA	NA	<2.0	NA	<8.0	<2.0	NA
2,4-Dichlorophenol		7	70	NA	NA	NA	NA	NA	NA	NA	<1.3	NA	<5.2	<1.3	NA
2,4-Dimethylphenol		NS	NS	NA	NA	NA	NA	NA	NA	NA	<1.2	NA	<4.8	<1.2	NA
2,4-Dinitrophenol		NS	NS	NA	NA	NA	NA	NA	NA	NA	<0.68	NA	<2.7	<0.68	NA
2,4-Dinitrotoluene		0.005	0.05	NA	NA	NA	NA	NA	NA	NA	<0.75	NA	<3.0	<0.75	NA
2,6-Dinitrotoluene		0.005	0.05	NA	NA	NA	NA	NA	NA	NA	<0.57	NA	<2.3	<0.57	NA
2-Chloronaphthalene		NS	NS	NA	NA	NA	NA	NA	NA	NA	<1.6	NA	<6.3	<1.6	NA
2-Chlorophenol		NS	NS	NA	NA	NA	NA	NA	NA	NA	<1.1	NA	<4.4	<1.1	NA
2-Methylnaphthalene		NS	NS	<b>83.0</b>	<0.0045	<b>9.5</b>	<b>10.0</b>	<b>17.1</b>	<0.0045	<b>75.4</b>	<1.4	<0.0048	<5.8	<1.4	NA
2-Methylphenol(o-Cresol)		NS	NS	NA	NA	NA	NA	NA	NA	NA	<0.83	NA	<3.3	<0.83	NA
2-Nitroaniline		NS	NS	NA	NA	NA	NA	NA	NA	NA	<0.74	NA	<2.9	<0.74	NA
2-Nitrophenol		NS	NS	NA	NA	NA	NA	NA	NA	NA	<1.1	NA	<4.4	<1.1	NA
3&4-Methylphenol(m&p Cresol)		NS	NS	NA	NA	NA	NA	NA	NA	NA	<1.5	NA	<5.9	<1.5	NA
3,3'-Dichlorobenzidine		NS	NS	NA	NA	NA	NA	NA	NA	NA	<0.86	NA	<3.4	<0.86	NA
3-Nitroaniline		NS	NS	NA	NA	NA	NA	NA	NA	NA	<0.92	NA	<3.7	<0.92	NA
4,6-Dinitro-2-methylphenol		NS	NS	NA	NA	NA	NA	NA	NA	NA	<0.62	NA	<2.5	<0.62	NA
4-Bromophenylphenyl ether		NS	NS	NA	NA	NA	NA	NA	NA	NA	<1.9	NA	<7.5	<1.9	NA
4-Chloro-3-methylphenol		NS	NS	NA	NA	NA	NA	NA	NA	NA	<1.6	NA	<6.4	<1.6	NA
4-Chloroaniline		NS	NS	NA	NA	NA	NA	NA	NA	NA	<1.0	NA	<4.2	<1.0	NA
4-Chlorophenylphenyl ether		NS	NS	NA	NA	NA	NA	NA	NA	NA	<0.78	NA	<3.1	<0.78	NA
4-Nitroaniline		NS	NS	NA	NA	NA	NA	NA	NA	NA	<1.7	NA	<7.0	<1.7	NA
4-Nitrophenol		NS	NS	NA	NA	NA	NA	NA	NA	NA	<1.0	NA	<4.0	<1.0	NA
Acenaphthene		NS	NS	<b>0.50 J</b>	<b>0.0074 J</b>	<b>0.36</b>	<b>0.066 J</b>	<b>0.26</b>	<0.0056	<0.17	<1.3	<b>0.018 J</b>	<b>50.2</b>	<1.3	NA
Acenaphthylene		NS	NS	<b>0.12 J</b>	<b>0.0073 J</b>	<b>0.091 J</b>	<0.047	<b>0.15</b>	<0.0046	<0.14	<1.0	<0.0048	<4.0	<1.0	NA
Anthracene		600	3,000	<0.24	<b>0.012 J</b>	<0.094	<0.099	<0.024	<0.0096	<0.30	<1.7	<0.010	<b>38.5</b>	<1.7	NA
Benzo(a)anthracene		NS	NS	<0.17	<b>0.0070 J</b>	<b>0.13 J</b>	<0.071	<0.018	<0.0069	<0.22	<0.51	<b>0.12</b>	<b>36.5</b>	<0.51	NA
Benzo(a)pyrene		0.02	<b>0.2</b>	<0.24	<b>0.032 J</b>	<b>0.40 J</b>	<0.099	<0.024	<0.0097	<0.30	<1.8	<b>0.17</b>	<b>31.1</b>	<1.8	NA
Benzo(b)fluoranthene		0.02	<b>0.2</b>	<0.13	<b>0.045</b>	<b>0.41</b>	<0.054	<0.013	<0.0053	<0.16	<0.62	<b>0.23</b>	<b>40.4</b>	<0.62	NA
Benzo(g,h,i)perylene		NS	NS	<0.16	<b>0.028 J</b>	<b>0.22 J</b>	<0.064	<0.016	<0.0062	<0.19	<b>0.91 J</b>	<b>0.13</b>	<b>19.1</b>	<0.77	NA
Benzo(k)fluoranthene		NS	NS	<0.17	<b>0.033 J</b>	<b>0.40</b>	<0.071	<0.018	<0.0069	<0.22	<0.95	<b>0.13</b>	<b>17.4</b>	<0.95	NA
Butylbenzylphthalate		NS	NS	NA*	NA	NA	NA	NA	NA	NA	<0.74	NA	<2.9	<0.74	NA
Carbazole		NS	NS	NA*	NA	NA	NA	NA	NA	NA	<0.71	NA	120	<0.71	NA
Chrysene		0.02	<b>0.2</b>	<0.30	<b>0.067</b>	<b>1.0</b>	<0.12	<b>0.044 J</b>	<0.012	<0.37	<1.7	<b>0.26</b>	<b>41.4</b>	<1.7	NA
Di-n-butylphthalate		NS	NS	NA	NA	NA	NA	NA	NA	NA	<2.4	NA	<9.8	<2.4	NA
Di-n-octylphthalate		NS	NS	NA	NA	NA	NA	NA	NA	NA	<1.8	NA	<7.2	<1.8	NA
Dibenz(a,h)anthracene		NS	NS	<0.23	<0.0091	<0.090	<0.095	<0.023	<0.0092	<0.29	<1.3	<b>0.024 J</b>	<5.0	<1.3	NA
Dibenzofuran		NS	NS	NA	NA	NA	NA	NA	NA	NA	<0.73	NA	<b>30.9</b>	<0.73	NA
Diethylphthalate		NS	NS	NA	NA	NA	NA	NA	NA	NA	<1.0	NA	<4.1	<1.0	NA
Dimethylphthalate		NS	NS	NA	NA	NA	NA	NA	NA	NA	<1.8	NA	<7.4	<1.8	NA



Table A-7

Temporary Well Groundwater Analytical Results - Semi-Volatile Organic Compounds (SVOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Sample ID (Depth) Sample Date	Ch. NR 140 PAL	Ch. NR 140 ES	SB-3	SB-4	SB-5	SB-8	SB-9	SB-10	SB-11	SB-12	SB-13	SB-14	SB-15	SB-15D
				3-13'	7-12'	3-8'	5-15'	3-13'	3-8'	3-8'	3-8'	3-8'	3-8'	3-8'	3-8'
				07/31/17	07/31/17	07/31/17	08/01/17	08/02/17	07/28/17	07/31/17	08/02/17	07/28/17	07/28/17	07/28/17	09/11/17
Fluoranthene		80	400	<b>0.61 J</b>	<b>0.081</b>	<b>2.1</b>	<0.10	<b>0.050 J</b>	<b>0.024 J</b>	<0.30	<0.54	<b>0.36</b>	<b>108</b>	<0.54	NA
Fluorene		80	400	<b>0.55 J</b>	<0.0072	<b>0.78</b>	<0.075	<b>0.49</b>	<0.0073	<b>0.41 J</b>	<0.71	<0.0077	<b>48.4</b>	<0.71	NA
Hexachloro-1,3-butadiene		NS	NS	NA	NA	NA	NA	NA	NA	NA	<2.3	NA	<9.4	<2.3	<2.1
Hexachlorobenzene		0.1	1	NA	NA	NA	NA	NA	NA	NA	<1.6	NA	<6.5	<1.6	NA
Hexachlorocyclopentadiene		NS	NS	NA	NA	NA	NA	NA	NA	NA	<0.65	NA	<2.6	<0.65	NA
Hexachloroethane		NS	NS	NA	NA	NA	NA	NA	NA	NA	<2.5	NA	<10.1	<2.5	NA
Indeno(1,2,3-cd)pyrene		NS	NS	<0.41	<b>0.026 J</b>	<0.16	<0.17	<0.041	<0.016	<0.50	<1.4	<b>0.096</b>	<b>22.8</b>	<1.4	NA
Isophorone		NS	NS	NA	NA	NA	NA	NA	NA	NA	<0.70	NA	<2.8	<0.70	NA
N-Nitroso-di-n-propylamine		NS	NS	NA	NA	NA	NA	NA	NA	NA	<0.92	NA	<3.7	<0.92	NA
N-Nitrosodiphenylamine		0.7	7	NA	NA	NA	NA	NA	NA	NA	<3.4	NA	<13.4	<3.4	NA
Naphthalene		10	100	<b>182</b>	<0.017	<b>90.0</b>	<b>79.5</b>	<b>16.6</b>	<0.017	<b>290</b>	<1.8	<0.018	<b>51.0</b>	<1.8	<2.5
Nitrobenzene		NS	NS	NA	NA	NA	NA	NA	NA	NA	<1.4	NA	<5.5	<1.4	NA
Pentachlorophenol		0.1	1	NA	NA	NA	NA	NA	NA	NA	<1.4	NA	<5.5	<1.4	NA
Phenanthrene		NS	NS	<b>0.83 J</b>	<b>0.041 J</b>	<b>2.8</b>	<b>0.14 J</b>	<b>0.80</b>	<b>0.028 J</b>	<b>0.49 J</b>	<1.7	<b>0.19</b>	<b>125</b>	<1.7	NA
Phenol		400	2,000	NA	NA	NA*	NA*	NA*	NA	NA	<0.57	NA	<2.3	<0.57	NA
Pyrene		50	250	<b>0.75 J</b>	<b>0.090</b>	<b>1.9</b>	<0.072	<b>0.042 J</b>	<b>0.060</b>	<b>0.41 J</b>	<1.3	<b>0.33</b>	<b>78.6</b>	<1.3	NA
bis(2-Chloroethoxy)methane		NS	NS	NA	NA	NA	NA	NA	NA	NA	<0.95	NA	<3.8	<0.95	NA
bis(2-Chloroethyl) ether		NS	NS	NA	NA	NA	NA	NA	NA	NA	<1.5	NA	<6.0	<1.5	NA
bis(2-Ethylhexyl)phthalate		NS	NS	NA	NA	NA	NA	NA	NA	NA	<0.66	NA	<2.6	<0.66	NA

**Notes:**

All units are micrograms per liter (µg/l).

All depths are measured in feet below ground surface (ft bgs).

SVOCs analyzed by USEPA Method 8270.

**Bold** Value exceeds laboratory detection limit (DL).*Italic* Value exceeds Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit (PAL).**Shaded** Value exceeds Wisconsin Administrative Code Chapter NR 140 Enforcement Standard (ES).

NS No established standard.

NA Not analyzed.

Table A-7

Temporary Well Groundwater Analytical Results - Semi-Volatile Organic Compounds (SVOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Sample ID (Depth) Sample Date	Ch. NR 140 PAL	Ch. NR 140 ES	SB-17	SB-18	SB-19	SB-20	SB-21	SB-22	SB-23	SB-24	SB-25	SB-26	SB-27D	SB-27S
				5-15' 08/02/17	5-15' 07/28/17	3-8' 07/31/17	7-12' 07/31/17	5-15' 07/31/17	6-16' 07/31/17	11-16' 07/31/17	6-16' 08/01/17	10-20' 08/01/17	0-5' 07/26/17	20-30' 07/27/17	5-10' 07/26/17
1,2,4-Trichlorobenzene		14	70	<1.9	NA	<1.9	<1.9	<2.0	NA	<1.9	<2.0	<2.0	<2.1	<1.9	<2.1
1,2-Dichlorobenzene		60	600	<1.8	NA	<1.8	<1.8	<1.9	NA	<1.8	<1.9	<1.9	<2.0	<1.8	<2.0
1,3-Dichlorobenzene		120	600	<1.8	NA	<1.8	<1.8	<1.8	NA	<1.8	<1.8	<1.8	<2.0	<1.8	<2.0
1,4-Dichlorobenzene		15	75	<1.8	NA	<1.8	<1.8	<1.8	NA	<1.8	<1.8	<1.8	<2.0	<1.8	<2.0
1-Methylnaphthalene		NS	NS	NA	<b>0.012 J</b>	NA	NA	NA	<0.0053	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane)		NS	NS	<1.5	NA	<1.5	<1.5	<1.5	NA	<1.5	<1.5	<1.5	<1.6	<1.5	<1.6
2,4,5-Trichlorophenol		12	60	<0.80	NA	<0.80	<0.80	<0.82	NA	<0.80	<0.81	<0.81	<0.89	<0.80	<0.88
2,4,6-Trichlorophenol		NS	NS	<2.0	NA	<2.0	<2.0	<2.1	NA	<2.0	<2.0	<2.0	<2.2	<2.0	<2.2
2,4-Dichlorophenol		7	70	<1.3	NA	<1.3	<1.3	<1.3	NA	<1.3	<1.3	<1.3	<1.4	<1.3	<1.4
2,4-Dimethylphenol		NS	NS	<1.2	NA	<1.2	<1.2	<1.2	NA	<1.2	<1.2	<1.2	<1.3	<1.2	<1.3
2,4-Dinitrophenol		NS	NS	<0.68	NA	<0.68	<0.68	<0.69	NA	<0.68	<0.68	<0.68	<0.75	<0.68	<0.74
2,4-Dinitrotoluene		0.005	0.05	<0.75	NA	<0.75	<0.75	<0.77	NA	<0.75	<0.76	<0.76	<0.83	<0.75	<0.82
2,6-Dinitrotoluene		0.005	0.05	<0.57	NA	<0.57	<0.57	<0.59	NA	<0.57	<0.58	<0.58	<0.63	<0.57	<0.63
2-Chloronaphthalene		NS	NS	<1.6	NA	<1.6	<1.6	<1.6	NA	<1.6	<1.6	<1.6	<1.7	<1.6	<1.7
2-Chlorophenol		NS	NS	<1.1	NA	<1.1	<1.1	<1.1	NA	<1.1	<1.1	<1.1	<1.2	<1.1	<1.2
2-Methylnaphthalene		NS	NS	<1.4	<0.0048	<1.4	<1.4	<1.5	<0.0044	<1.4	<1.5	<1.5	<1.6	<1.4	<1.6
2-Methylphenol(o-Cresol)		NS	NS	<0.83	NA	<0.83	<0.83	<0.84	NA	<0.83	<0.83	<0.83	<0.91	<0.83	<0.90
2-Nitroaniline		NS	NS	<0.74	NA	<0.74	<0.74	<0.75	NA	<0.74	<0.74	<0.74	<0.81	<0.74	<0.81
2-Nitrophenol		NS	NS	<1.1	NA	<1.1	<1.1	<1.1	NA	<1.1	<1.1	<1.1	<1.2	<1.1	<1.2
3&4-Methylphenol(m&p Cresol)		NS	NS	<1.5	NA	<1.5	<1.5	<1.5	NA	<1.5	<1.5	<1.5	<1.6	<1.5	<1.6
3,3'-Dichlorobenzidine		NS	NS	<0.86	NA	<0.86	<0.86	<0.88	NA	<0.86	<0.87	<0.87	<0.95	<0.86	<0.94
3-Nitroaniline		NS	NS	<0.92	NA	<0.92	<0.92	<0.94	NA	<0.92	<0.93	<0.93	<1.0	<0.92	<1.0
4,6-Dinitro-2-methylphenol		NS	NS	<0.62	NA	<0.62	<0.62	<0.63	NA	<0.62	<0.63	<0.63	<0.69	<0.62	<0.68
4-Bromophenylphenyl ether		NS	NS	<1.9	NA	<1.9	<1.9	<1.9	NA	<1.9	<1.9	<1.9	<2.1	<1.9	<2.1
4-Chloro-3-methylphenol		NS	NS	<1.6	NA	<1.6	<1.6	<1.6	NA	<1.6	<1.6	<1.6	<1.8	<1.6	<1.8
4-Chloroaniline		NS	NS	<1.0	NA	<1.0	<1.0	<1.1	NA	<1.0	<1.1	<1.1	<1.2	<1.0	<1.1
4-Chlorophenylphenyl ether		NS	NS	<0.78	NA	<0.78	<0.78	<0.80	NA	<0.78	<0.79	<0.79	<0.86	<0.78	<0.85
4-Nitroaniline		NS	NS	<1.7	NA	<1.7	<1.7	<1.8	NA	<1.7	<1.8	<1.8	<1.9	<1.7	<1.9
4-Nitrophenol		NS	NS	<1.0	NA	<1.0	<1.0	<1.0	NA	<1.0	<1.0	<1.0	<1.1	<1.0	<1.1
Acenaphthene		NS	NS	<1.3	<b>0.043</b>	<1.3	<1.3	<1.3	<0.0055	<1.3	<1.3	<1.3	<1.4	<1.3	<1.4
Acenaphthylene		NS	NS	<1.0	<b>0.017 J</b>	<1.0	<1.0	<1.0	<0.0045	<1.0	<1.0	<1.0	<1.1	<1.0	<1.1
Anthracene		600	3,000	<1.7	<b>0.018 J</b>	<1.7	<1.7	<1.8	<0.0094	<1.7	<1.7	<1.7	<1.9	<1.7	<1.9
Benzo(a)anthracene		NS	NS	<0.51	<b>0.16</b>	<b>2.9</b>	<0.51	<0.52	<0.0068	<0.51	<0.51	<0.51	<b>0.62 J</b>	<0.51	<b>0.63 J</b>
Benzo(a)pyrene		0.02	0.2	<1.8	<b>0.20</b>	<b>2.2 J</b>	<1.8	<1.8	<0.0095	<1.8	<1.8	<1.8	<2.0	<1.8	<2.0
Benzo(b)fluoranthene		0.02	0.2	<0.62	<b>0.26</b>	<b>2.7</b>	<0.62	<0.63	<b>0.010 J</b>	<0.62	<0.63	<0.63	<b>0.76 J</b>	<0.62	<b>0.74 J</b>
Benzo(g,h,i)perylene		NS	NS	<0.77	<b>0.14</b>	<b>1.4 J</b>	<0.77	<0.79	<0.0061	<0.77	<0.78	<0.78	<0.85	<0.77	<0.84
Benzo(k)fluoranthene		NS	NS	<0.95	<b>0.14</b>	<b>1.3 J</b>	<0.95	<0.97	<0.0068	<0.95	<0.96	<0.96	<1.1	<0.95	<1.0
Butylbenzylphthalate		NS	NS	<0.74	NA	<0.74	<0.74	<0.75	NA	<0.74	<0.74	<0.74	<0.81	<0.74	<0.81
Carbazole		NS	NS	<0.71	NA	<0.71	<0.71	<0.73	NA	<0.71	<0.72	<0.72	<0.79	<0.71	<0.78
Chrysene		0.02	0.2	<1.7	<b>0.26</b>	<b>2.8 J</b>	<1.7	<1.7	<b>0.013 J</b>	<1.7	<1.7	<1.7	<1.8	<1.7	<1.8
Di-n-butylphthalate		NS	NS	<2.4	NA	<2.4	<2.4	<2.5	NA	<2.4	<2.5	<2.5	<2.7	<2.4	<2.7
Di-n-octylphthalate		NS	NS	<1.8	NA	<1.8	<1.8	<1.8	NA	<1.8	<1.8	<1.8	<2.0	<1.8	<2.0
Dibenz(a,h)anthracene		NS	NS	<1.3	<b>0.027 J</b>	<1.3	<1.3	<1.3	<0.0090	<1.3	<1.3	<1.3	<1.4	<1.3	<1.4
Dibenzofuran		NS	NS	<0.73	NA	<0.73	<0.73	<0.75	NA	<0.73	<0.74	<0.74	<0.81	<0.73	<0.80
Diethylphthalate		NS	NS	<1.0	NA	<1.0	<1.0	<1.1	NA	<1.0	<1.0	<1.0	<1.1	<1.0	<1.1
Dimethylphthalate		NS	NS	<1.8	NA	<1.8	<1.8	<1.9	NA	<1.8	<1.9	<1.9	<2.0	<1.8	<2.0



Table A-7

Temporary Well Groundwater Analytical Results - Semi-Volatile Organic Compounds (SVOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Sample ID (Depth) Sample Date	Ch. NR 140 PAL	Ch. NR 140 ES	SB-17	SB-18	SB-19	SB-20	SB-21	SB-22	SB-23	SB-24	SB-25	SB-26	SB-27D	SB-27S
				5-15'	5-15'	3-8'	7-12'	5-15'	6-16'	11-16'	6-16'	10-20'	0-5'	20-30'	5-10'
				08/02/17	07/28/17	07/31/17	07/31/17	07/31/17	07/31/17	07/31/17	08/01/17	08/01/17	07/26/17	07/27/17	07/26/17
Fluoranthene		80	400	<0.54	<b>0.41</b>	<b>9.6</b>	<0.54	<0.55	<b>0.020 J</b>	<0.54	<0.54	<0.54	<b>0.93 J</b>	<0.54	<b>0.95 J</b>
Fluorene		80	400	<0.71	<b>0.039 J</b>	<0.71	<0.71	<0.73	<0.0072	<0.71	<0.72	<0.72	<0.79	<0.71	<0.78
Hexachloro-1,3-butadiene		NS	NS	<2.3	NA	<2.3	<2.3	<2.4	NA	<2.3	<2.4	<2.4	<2.6	<2.3	<2.6
Hexachlorobenzene		0.1	1	<1.6	NA	<1.6	<1.6	<1.6	NA	<1.6	<1.6	<1.6	<1.8	<1.6	<1.8
Hexachlorocyclopentadiene		NS	NS	<0.65	NA	<0.65	<0.65	<0.66	NA	<0.65	<0.65	<0.65	<0.71	<0.65	<0.71
Hexachloroethane		NS	NS	<2.5	NA	<2.5	<2.5	<2.6	NA	<2.5	<2.6	<2.6	<2.8	<2.5	<2.8
Indeno(1,2,3-cd)pyrene		NS	NS	<1.4	<b>0.10</b>	<1.4	<1.4	<1.5	<0.016	<1.4	<1.4	<1.4	<1.6	<1.4	<1.6
Isophorone		NS	NS	<0.70	NA	<0.70	<0.70	<0.71	NA	<0.70	<0.71	<0.71	<0.77	<0.70	<0.77
N-Nitroso-di-n-propylamine		NS	NS	<0.92	NA	<0.92	<0.92	<0.94	NA	<0.92	<0.93	<0.93	<1.0	<0.92	<1.0
N-Nitrosodiphenylamine		0.7	7	<3.4	NA	<3.4	<3.4	<3.4	NA	<3.4	<3.4	<3.4	<3.7	<3.4	<3.7
Naphthalene		10	100	<1.8	<b>0.025 J</b>	<1.8	<1.8	<1.8	<0.017	<1.8	<1.8	<1.8	<2.0	<1.8	<2.0
Nitrobenzene		NS	NS	<1.4	NA	<1.4	<1.4	<1.4	NA	<1.4	<1.4	<1.4	<1.5	<1.4	<1.5
Pentachlorophenol		0.1	1	<1.4	NA	<1.4	<1.4	<1.4	NA	<1.4	<1.4	<1.4	<1.5	<1.4	<1.5
Phenanthrene		NS	NS	<1.7	<b>0.23</b>	<b>2.0 J</b>	<1.7	<1.8	<0.012	<1.7	<1.8	<1.8	<1.9	<1.7	<1.9
Phenol		400	2,000	<0.57	NA	<0.57	<0.57	<0.58	NA	<0.57	<0.58	<0.58	<0.63	<0.57	<0.62
Pyrene		50	250	<1.3	<b>0.39</b>	<b>7.8</b>	<1.3	<1.3	<b>0.025 J</b>	<1.3	<1.3	<1.3	<1.4	<1.3	<1.4
bis(2-Chloroethoxy)methane		NS	NS	<0.95	NA	<0.95	<0.95	<0.97	NA	<0.95	<0.96	<0.96	<1.0	<0.95	<1.0
bis(2-Chloroethyl) ether		NS	NS	<1.5	NA	<1.5	<1.5	<1.5	NA	<1.5	<1.5	<1.5	<1.7	<1.5	<1.6
bis(2-Ethylhexyl)phthalate		NS	NS	<0.66	NA	<0.66	<0.66	<0.67	NA	<0.66	<0.67	<0.67	<0.73	<0.66	<0.72

**Notes:**All units are micrograms per liter ( $\mu\text{g/l}$ ).

All depths are measured in feet below ground surface (ft bgs).

SVOCs analyzed by USEPA Method 8270.

**Bold** Value exceeds laboratory detection limit (DL).*Italic* Value exceeds Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit (PAL).**Shaded** Value exceeds Wisconsin Administrative Code Chapter NR 140 Enforcement Standard (ES).

NS No established standard.

NA Not analyzed.

Table A-7

Temporary Well Groundwater Analytical Results - Semi-Volatile Organic Compounds (SVOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Sample ID (Depth) Sample Date	Ch. NR 140 PAL	Ch. NR 140 ES	SB-28	SB-29	SB-30	SB-31D	SB-31S	SB-32	SB-33	SB-34	SB-35	SB-36D	SB-36S	SB-37D
				11-16'	3-8'	15-20'	25-30'	7-12'	9.5-14.5'	3-8'	7-12'	11-16'	18-28'	3-8'	20-30'
				07/26/17	07/28/17	07/26/17	07/26/17	07/26/17	07/26/17	07/28/17	07/27/17	07/27/17	07/27/17	07/27/17	07/27/17
1,2,4-Trichlorobenzene		14	70	<2.0	<1.9	<2.0	<2.1	<2.2	<2.2	<2.0	<1.9	<1.9	<1.9	<1.9	<1.9
1,2-Dichlorobenzene		60	600	<1.9	<1.8	<1.9	<2.0	<2.1	<2.1	<1.9	<1.8	<1.8	<1.8	<1.8	<1.8
1,3-Dichlorobenzene		120	600	<1.9	<1.8	<1.9	<2.0	<2.0	<2.0	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
1,4-Dichlorobenzene		15	75	<1.9	<1.8	<1.9	<2.0	<2.0	<2.0	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
1-Methylnaphthalene		NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane)		NS	NS	<1.5	<1.5	<1.5	<1.6	<1.6	<1.6	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2,4,5-Trichlorophenol		12	60	<0.84	<0.80	<0.84	<0.89	<0.90	<0.90	<0.83	<0.80	<0.80	<0.80	<0.80	<0.80
2,4,6-Trichlorophenol		NS	NS	<2.1	<2.0	<2.1	<2.2	<2.2	<2.2	<2.1	<2.0	<2.0	<2.0	<2.0	<2.0
2,4-Dichlorophenol		7	70	<1.4	<1.3	<1.4	<1.4	<1.5	<1.5	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
2,4-Dimethylphenol		NS	NS	<1.3	<1.2	<1.3	<1.3	<1.3	<1.3	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
2,4-Dinitrophenol		NS	NS	<0.71	<0.68	<0.71	<0.75	<0.76	<0.76	<0.70	<0.68	<0.68	<0.68	<0.68	<0.68
2,4-Dinitrotoluene		0.005	0.05	<0.79	<0.75	<0.79	<0.83	<0.84	<0.84	<0.78	<0.75	<0.75	<0.75	<0.75	<0.75
2,6-Dinitrotoluene		0.005	0.05	<0.60	<0.57	<0.60	<0.63	<0.64	<0.64	<0.59	<0.57	<0.57	<0.57	<0.57	<0.57
2-Chloronaphthalene		NS	NS	<1.6	<1.6	<1.6	<1.7	<1.8	<1.8	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6
2-Chlorophenol		NS	NS	<1.2	<1.1	<1.2	<1.2	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1
2-Methylnaphthalene		NS	NS	<1.5	<1.4	<1.5	<1.6	<1.6	<1.6	<1.5	<1.4	<1.4	<1.4	<1.4	<1.4
2-Methylphenol(o-Cresol)		NS	NS	<0.87	<0.83	<0.87	<0.91	<0.92	<0.92	<0.85	<0.83	<0.83	<0.83	<0.83	<0.83
2-Nitroaniline		NS	NS	<0.77	<0.74	<0.77	<0.81	<0.82	<0.82	<0.76	<0.74	<0.74	<0.74	<0.74	<0.74
2-Nitrophenol		NS	NS	<1.2	<1.1	<1.2	<1.2	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1
3&4-Methylphenol(m&p Cresol)		NS	NS	<1.6	<1.5	<1.6	<1.6	<1.7	<1.7	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
3,3'-Dichlorobenzidine		NS	NS	<0.91	<0.86	<0.91	<0.95	<0.96	<0.96	<0.89	<0.86	<0.86	<0.86	<0.86	<0.86
3-Nitroaniline		NS	NS	<0.97	<0.92	<0.97	<1.0	<1.0	<1.0	<0.95	<0.92	<0.92	<0.92	<0.92	<0.92
4,6-Dinitro-2-methylphenol		NS	NS	<0.65	<0.62	<0.65	<0.69	<0.70	<0.70	<0.64	<0.62	<0.62	<0.62	<0.62	<0.62
4-Bromophenylphenyl ether		NS	NS	<2.0	<1.9	<2.0	<2.1	<2.1	<2.1	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
4-Chloro-3-methylphenol		NS	NS	<1.7	<1.6	<1.7	<1.8	<1.8	<1.8	<1.7	<1.6	<1.6	<1.6	<1.6	<1.6
4-Chloroaniline		NS	NS	<1.1	<1.0	<1.1	<1.2	<1.2	<1.2	<1.1	<1.0	<1.0	<1.0	<1.0	<1.0
4-Chlorophenylphenyl ether		NS	NS	<0.82	<0.78	<0.82	<0.86	<0.87	<0.87	<0.80	<0.78	<0.78	<0.78	<0.78	<0.78
4-Nitroaniline		NS	NS	<1.8	<1.7	<1.8	<1.9	<1.9	<1.9	<1.8	<1.7	<1.7	<1.7	<1.7	<1.7
4-Nitrophenol		NS	NS	<1.0	<1.0	<1.0	<1.1	<1.1	<1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthene		NS	NS	<1.3	<1.3	<1.3	<1.4	<1.4	<1.4	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
Acenaphthylene		NS	NS	<1.1	<1.0	<1.1	<1.1	<1.1	<1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Anthracene		600	3,000	<1.8	<1.7	<1.8	<1.9	<1.9	<1.9	<1.8	<1.7	<1.7	<1.7	<1.7	<1.7
Benzo(a)anthracene		NS	NS	<0.53	<0.51	<0.53	<0.56	<0.57	<0.57	<0.52	<0.51	<0.51	<0.51	<0.51	<0.51
Benzo(a)pyrene		0.02	0.2	<1.9	<1.8	<1.9	<2.0	<2.0	<2.0	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
Benzo(b)fluoranthene		0.02	0.2	<0.65	<0.62	<0.65	<0.69	<0.70	<0.70	<0.64	<0.62	<0.62	<0.62	<0.62	<0.62
Benzo(g,h,i)perylene		NS	NS	<0.81	<0.77	<0.81	<0.85	<0.86	<0.86	<0.79	<0.77	<0.77	<0.77	<0.77	<0.77
Benzo(k)fluoranthene		NS	NS	<1.0	<0.95	<1.0	<1.1	<1.1	<1.1	<0.98	<0.95	<0.95	<0.95	<0.95	<0.95
Butylbenzylphthalate		NS	NS	<0.77	<0.74	<0.77	<0.81	<0.82	<0.82	<0.76	<0.74	<0.74	<0.74	<0.74	<0.74
Carbazole		NS	NS	<0.75	<0.71	<0.75	1.2 J	<0.80	<0.80	<0.73	<0.71	<0.71	<0.71	<0.71	<0.71
Chrysene		0.02	0.2	<1.7	<1.7	<1.7	<1.8	<1.9	<1.9	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
Di-n-butylphthalate		NS	NS	<2.6	<2.4	<2.6	<2.7	<2.7	<2.7	<2.5	<2.4	<2.4	<2.4	<2.4	<2.4
Di-n-octylphthalate		NS	NS	<1.9	<1.8	<1.9	<2.0	<2.0	<2.0	<1.9	<1.8	<1.8	<1.8	<1.8	<1.8
Dibenz(a,h)anthracene		NS	NS	<1.3	<1.3	<1.3	<1.4	<1.4	<1.4	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
Dibenzofuran		NS	NS	<0.77	<0.73	<0.77	<0.81	<0.82	<0.82	<0.75	<0.73	<0.73	<0.73	<0.73	<0.73
Diethylphthalate		NS	NS	<1.1	<1.0	<1.1	<1.1	<1.2	<1.2	<1.1	<1.0	<1.0	<1.0	<1.0	<1.0
Dimethylphthalate		NS	NS	<1.9	<1.8	<1.9	<2.0	<2.1	<2.1	<1.9	<1.8	<1.8	<1.8	<1.8	<1.8



Table A-7

Temporary Well Groundwater Analytical Results - Semi-Volatile Organic Compounds (SVOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Sample ID (Depth) Sample Date	Ch. NR 140 PAL	Ch. NR 140 ES	SB-28	SB-29	SB-30	SB-31D	SB-31S	SB-32	SB-33	SB-34	SB-35	SB-36D	SB-36S	SB-37D
				11-16' 07/26/17	3-8' 07/28/17	15-20' 07/26/17	25-30' 07/26/17	7-12' 07/26/17	9.5-14.5' 07/26/17	3-8' 07/28/17	7-12' 07/27/17	11-16' 07/27/17	18-28' 07/27/17	3-8' 07/27/17	20-30' 07/27/17
Fluoranthene		80	400	<0.56	<0.54	<0.56	<b>0.96 J</b>	<0.60	<0.60	<0.55	<0.54	<0.54	<0.54	<0.54	<0.54
Fluorene		80	400	<0.75	<0.71	<0.75	<0.79	<0.80	<0.80	<0.74	<0.71	<0.71	<0.71	<0.71	<0.71
Hexachloro-1,3-butadiene		NS	NS	<2.5	<2.3	<2.5	<2.6	<2.6	<2.6	<2.4	<2.3	<2.3	<2.3	<2.3	<2.3
Hexachlorobenzene		0.1	1	<1.7	<1.6	<1.7	<1.8	<1.8	<1.8	<1.7	<1.6	<1.6	<1.6	<1.6	<1.6
Hexachlorocyclopentadiene		NS	NS	<0.68	<0.65	<0.68	<0.71	<0.72	<0.72	<0.67	<0.65	<0.65	<0.65	<0.65	<0.65
Hexachloroethane		NS	NS	<2.7	<2.5	<2.7	<2.8	<2.8	<2.8	<2.6	<2.5	<2.5	<2.5	<2.5	<2.5
Indeno(1,2,3-cd)pyrene		NS	NS	<1.5	<1.4	<1.5	<1.6	<1.6	<1.6	<1.5	<1.4	<1.4	<1.4	<1.4	<1.4
Isophorone		NS	NS	<0.73	<0.70	<0.73	<0.77	<0.78	<0.78	<0.72	<0.70	<0.70	<0.70	<0.70	<0.70
N-Nitroso-di-n-propylamine		NS	NS	<0.97	<0.92	<0.97	<1.0	<1.0	<1.0	<0.95	<0.92	<0.92	<0.92	<0.92	<0.92
N-Nitrosodiphenylamine		0.7	7	<3.5	<3.4	<3.5	<3.7	<3.8	<3.8	<3.5	<3.4	<3.4	<3.4	<3.4	<3.4
Naphthalene		10	100	<1.9	<1.8	<1.9	<2.0	<2.0	<2.0	<1.9	<1.8	<1.8	<1.8	<1.8	<1.8
Nitrobenzene		NS	NS	<1.5	<1.4	<1.5	<1.5	<1.5	<1.5	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
Pentachlorophenol		0.1	1	<1.4	<1.4	<1.4	<1.5	<1.5	<1.5	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
Phenanthrene		NS	NS	<1.8	<1.7	<1.8	<1.9	<1.9	<1.9	<1.8	<1.7	<1.7	<1.7	<1.7	<1.7
Phenol		400	2,000	<0.60	<0.57	<0.60	<0.63	<0.64	<0.64	<0.59	<0.57	<0.57	<0.57	<0.57	<0.57
Pyrene		50	250	<1.3	<1.3	<1.3	<1.4	<1.4	<1.4	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
bis(2-Chloroethoxy)methane		NS	NS	<1.0	<0.95	<1.0	<1.0	<1.1	<1.1	<0.98	<0.95	<0.95	<0.95	<0.95	<0.95
bis(2-Chloroethyl) ether		NS	NS	<1.6	<1.5	<1.6	<1.7	<1.7	<1.7	<1.6	<1.5	<1.5	<1.5	<1.5	<1.5
bis(2-Ethylhexyl)phthalate		NS	NS	<0.69	<0.66	<0.69	<0.73	<0.74	<b>1.3 J</b>	<b>0.86 J</b>	<0.66	<0.66	<b>1.8 J</b>	<0.66	<0.66

**Notes:**All units are micrograms per liter ( $\mu\text{g/l}$ ).

All depths are measured in feet below ground surface (ft bgs).

SVOCs analyzed by USEPA Method 8270.

**Bold** Value exceeds laboratory detection limit (DL).*Italic* Value exceeds Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit (PAL).**Shaded** Value exceeds Wisconsin Administrative Code Chapter NR 140 Enforcement Standard (ES).

NS No established standard.

NA Not analyzed.

Table A-7

Temporary Well Groundwater Analytical Results - Semi-Volatile Organic Compounds (SVOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Sample ID (Depth) Sample Date	Ch. NR 140 PAL	Ch. NR 140 ES	SB-37S	SB-38	SB-41	SB-42	SB-43	SB-44	SB-45	SB-46	SB-47	SB-48	SB-49	SB-50
				5-10'	7-12'	2-12'	6-16'	7-12'	7-12'	7-12'	3-8'	7-12'	11-16'	5-15'	5-15'
				07/27/17	07/27/17	08/02/17	07/31/17	08/01/17	08/01/17	08/02/17	08/02/17	08/01/17	08/01/17	08/02/17	08/02/17
1,2,4-Trichlorobenzene		14	70	<1.9	<38.8	<1.9	NA	NA	NA	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
1,2-Dichlorobenzene		60	600	<1.8	<36.8	<1.8	NA	NA	NA	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
1,3-Dichlorobenzene		120	600	<1.8	<35.9	<1.8	NA	NA	NA	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
1,4-Dichlorobenzene		15	75	<1.8	<35.8	<1.8	NA	NA	NA	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
1-Methylnaphthalene		NS	NS	NA	NA	NA	<b>0.032</b>	<0.0059	<b>0.0099 J</b>	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane)		NS	NS	<1.5	<29.1	<1.5	NA	NA	NA	<1.5	<1.4	<1.4	<1.5	<1.5	<1.5
2,4,5-Trichlorophenol		12	60	<0.80	<16.0	<0.80	NA	NA	NA	<0.80	<0.79	<0.79	<0.80	<0.80	<0.80
2,4,6-Trichlorophenol		NS	NS	<2.0	<40.2	<2.0	NA	NA	NA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2,4-Dichlorophenol		7	70	<1.3	<26.0	<1.3	NA	NA	NA	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
2,4-Dimethylphenol		NS	NS	<1.2	<24.1	<1.2	NA	NA	NA	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
2,4-Dinitrophenol		NS	NS	<0.68	<13.5	<0.68	NA	NA	NA	<0.68	<0.67	<0.67	<0.68	<0.68	<0.68
2,4-Dinitrotoluene		0.005	0.05	<0.75	<15.1	<0.75	NA	NA	NA	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75
2,6-Dinitrotoluene		0.005	0.05	<0.57	<11.5	<0.57	NA	NA	NA	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57
2-Chloronaphthalene		NS	NS	<1.6	<31.3	<1.6	NA	NA	NA	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6
2-Chlorophenol		NS	NS	<1.1	<22.0	<1.1	NA	NA	NA	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1
2-Methylnaphthalene		NS	NS	<1.4	<28.8	<1.4	<b>0.046</b>	<0.0049	<0.0049	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
2-Methylphenol(o-Cresol)		NS	NS	<0.83	<16.5	<0.83	NA	NA	NA	<0.83	<0.82	<0.82	<0.83	<0.83	<0.83
2-Nitroaniline		NS	NS	<0.74	<14.7	<0.74	NA	NA	NA	<0.74	<0.73	<0.73	<0.74	<0.74	<0.74
2-Nitrophenol		NS	NS	<1.1	<22.2	<1.1	NA	NA	NA	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1
3&4-Methylphenol(m&p Cresol)		NS	NS	<1.5	<29.7	<1.5	NA	NA	NA	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
3,3'-Dichlorobenzidine		NS	NS	<0.86	<17.2	<0.86	NA	NA	NA	<0.86	<0.85	<0.85	<0.86	<0.86	<0.86
3-Nitroaniline		NS	NS	<0.92	<18.5	<0.92	NA	NA	NA	<0.92	<0.91	<0.91	<0.92	<0.92	<0.92
4,6-Dinitro-2-methylphenol		NS	NS	<0.62	<12.5	<0.62	NA	NA	NA	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62
4-Bromophenylphenyl ether		NS	NS	<1.9	<37.6	<1.9	NA	NA	NA	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
4-Chloro-3-methylphenol		NS	NS	<1.6	<32.1	<1.6	NA	NA	NA	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6
4-Chloroaniline		NS	NS	<1.0	<20.9	<1.0	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Chlorophenylphenyl ether		NS	NS	<0.78	<15.6	<0.78	NA	NA	NA	<0.78	<0.77	<0.77	<0.78	<0.78	<0.78
4-Nitroaniline		NS	NS	<1.7	<34.9	<1.7	NA	NA	NA	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
4-Nitrophenol		NS	NS	<1.0	<20.0	<1.0	NA	NA	NA	<1.0	<0.99	<0.99	<1.0	<1.0	<1.0
Acenaphthene		NS	NS	<1.3	<25.5	<1.3	<b>0.0069 J</b>	<b>0.013 J</b>	<b>0.0077 J</b>	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
Acenaphthylene		NS	NS	<1.0	<20.2	<1.0	<b>0.0066 J</b>	<0.0050	<0.0050	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Anthracene		600	3,000	<1.7	<34.4	<1.7	<0.0094	<b>0.012 J</b>	<b>0.047 J</b>	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
Benzo(a)anthracene		NS	NS	<0.51	<10.2	<0.51	<0.0068	<0.0076	<0.0076	<0.51	<0.50	<0.50	<0.51	<0.51	<0.51
Benzo(a)pyrene		0.02	0.2	<1.8	<35.9	<1.8	<0.0095	<0.011	<b>0.015 J</b>	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
Benzo(b)fluoranthene		0.02	0.2	<0.62	<12.5	<0.62	<b>0.013 J</b>	<0.0057	<b>0.020 J</b>	<0.62	<b>0.64 J</b>	<0.62	<0.62	<0.62	<0.62
Benzo(g,h,i)perylene		NS	NS	<0.77	<15.4	<0.77	<b>0.0097 J</b>	<0.0068	<b>0.019 J</b>	<b>1.1 J</b>	<b>0.81 J</b>	<0.76	<0.77	<0.77	<0.77
Benzo(k)fluoranthene		NS	NS	<0.95	<19.1	<0.95	<b>0.015 J</b>	<0.0076	<b>0.010 J</b>	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95
Butylbenzylphthalate		NS	NS	<0.74	<14.7	<0.74	NA	NA	NA	<0.74	<0.73	<0.73	<0.74	<0.74	<0.74
Carbazole		NS	NS	<0.71	<14.3	<0.71	NA	NA	NA	<0.71	<0.71	<0.71	<0.71	<0.71	<0.71
Chrysene		0.02	0.2	<1.7	<33.1	<1.7	<b>0.030 J</b>	<0.013	<b>0.029 J</b>	<1.7	<1.6	<1.6	<1.7	<1.7	<1.7
Di-n-butylphthalate		NS	NS	<2.4	<48.8	<2.4	NA	NA	NA	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4
Di-n-octylphthalate		NS	NS	<1.8	<36.0	<1.8	NA	NA	NA	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
Dibenz(a,h)anthracene		NS	NS	<1.3	<25.2	<1.3	<0.0090	<0.010	<0.010	<1.3	<1.2	<1.2	<1.3	<1.3	<1.3
Dibenzofuran		NS	NS	<0.73	<14.6	<0.73	NA	NA	NA	<0.73	<0.72	<0.72	<0.73	<0.73	<0.73
Diethylphthalate		NS	NS	<1.0	<20.6	<1.0	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dimethylphthalate		NS	NS	<1.8	<36.8	<1.8	NA	NA	NA	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8



Table A-7

Temporary Well Groundwater Analytical Results - Semi-Volatile Organic Compounds (SVOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Sample ID (Depth) Sample Date	Ch. NR 140 PAL	Ch. NR 140 ES	SB-37S	SB-38	SB-41	SB-42	SB-43	SB-44	SB-45	SB-46	SB-47	SB-48	SB-49	SB-50
				5-10'	7-12'	2-12'	6-16'	7-12'	7-12'	7-12'	3-8'	7-12'	11-16'	5-15'	5-15'
				07/27/17	07/27/17	08/02/17	07/31/17	08/01/17	08/01/17	08/02/17	08/02/17	08/01/17	08/01/17	08/02/17	08/02/17
Fluoranthene		80	400	<0.54	<b>12.3 J</b>	<0.54	<b>0.031 J</b>	<b>0.013 J</b>	<b>0.036 J</b>	<0.54	<b>0.58 J</b>	<0.53	<0.54	<0.54	<0.54
Fluorene		80	400	<0.71	<14.3	<0.71	<b>0.012 J</b>	<0.0080	<b>0.010 J</b>	<0.71	<0.71	<0.71	<0.71	<0.71	<0.71
Hexachloro-1,3-butadiene		NS	NS	<2.3	<46.9	<2.3	NA	NA	NA	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3
Hexachlorobenzene		0.1	1	<1.6	<32.3	<1.6	NA	NA	NA	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6
Hexachlorocyclopentadiene		NS	NS	<0.65	<12.9	<0.65	NA	NA	NA	<0.65	<0.64	<0.64	<0.65	<0.65	<0.65
Hexachloroethane		NS	NS	<2.5	<50.7	<2.5	NA	NA	NA	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Indeno(1,2,3-cd)pyrene		NS	NS	<1.4	<28.5	<1.4	<0.016	<0.018	<0.018	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
Isophorone		NS	NS	<0.70	<14.0	<0.70	NA	NA	NA	<0.70	<0.69	<0.69	<0.70	<0.70	<0.70
N-Nitroso-di-n-propylamine		NS	NS	<0.92	<18.5	<0.92	NA	NA	NA	<0.92	<0.92	<0.92	<0.92	<0.92	<0.92
N-Nitrosodiphenylamine		0.7	7	<3.4	<67.2	<3.4	NA	NA	NA	<3.4	<3.3	<3.3	<3.4	<3.4	<3.4
Naphthalene		10	100	<1.8	<36.2	<1.8	<b>0.042 J</b>	<b>0.026 J</b>	<b>0.031 J</b>	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
Nitrobenzene		NS	NS	<1.4	<27.6	<1.4	NA	NA	NA	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
Pentachlorophenol		0.1	1	<1.4	<27.3	<1.4	NA	NA	NA	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
Phenanthrene		NS	NS	<1.7	<34.7	<1.7	<b>0.034 J</b>	<b>0.035 J</b>	<b>0.064 J</b>	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
Phenol		400	2,000	<0.57	<11.4	<0.57	NA*	NA*	NA*	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57
Pyrene		50	250	<1.3	<25.7	<1.3	<b>0.043</b>	<b>0.015 J</b>	<b>0.038 J</b>	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
bis(2-Chloroethoxy)methane		NS	NS	<0.95	<19.0	<0.95	NA	NA	NA	<0.95	<0.94	<0.94	<0.95	<0.95	<0.95
bis(2-Chloroethyl) ether		NS	NS	<1.5	<30.1	<1.5	NA	NA	NA	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
bis(2-Ethylhexyl)phthalate		NS	NS	<b>1.8 J</b>	<13.2	<b>1.5 J</b>	NA	NA	NA	<b>0.82 J</b>	<0.65	<0.65	<b>2.1 J</b>	<0.66	<0.66

**Notes:**All units are micrograms per liter ( $\mu\text{g}/\text{l}$ ).

All depths are measured in feet below ground surface (ft bgs).

SVOCs analyzed by USEPA Method 8270.

**Bold** Value exceeds laboratory detection limit (DL).*Italic* Value exceeds Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit (PAL).**Shaded** Value exceeds Wisconsin Administrative Code Chapter NR 140 Enforcement Standard (ES).

NS No established standard.

NA Not analyzed.

Table A-7

Temporary Well Groundwater Analytical Results - Semi-Volatile Organic Compounds (SVOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Sample ID (Depth) Sample Date	Ch. NR 140 PAL	Ch. NR 140 ES	SB-51	SB-52	SB-53	SB-54	SB-55	SB-56	SB-57	SB-58	SB-59	SB-60	SB-61	SB-62
				0-5'	3-8'	0-3'	6-16'	6-16'	5-15'	2-12'	4-14'	3-13'	9-19'	9-19'	10-20'
				08/02/17	07/28/17	07/27/17	09/11/17	09/11/17	09/11/17	09/11/17	09/11/17	09/11/17	09/11/17	09/11/17	09/11/17
1,2,4-Trichlorobenzene		14	70	<1.9	NA	<1.9	<2.2	<2.2	<2.2	<2.2	<2.2	<22.1	<2.2	<4.4	<2.2
1,2-Dichlorobenzene		60	600	<1.8	NA	<1.8	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<1.0	<0.50
1,3-Dichlorobenzene		120	600	<1.8	NA	<1.8	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<1.0	<0.50
1,4-Dichlorobenzene		15	75	<1.8	NA	<1.8	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<1.0	<0.50
1-Methylnaphthalene		NS	NS	NA	<0.0057	NA	<b>0.24</b>	<b>1.6</b>	<b>0.025 J</b>	<b>0.014 J</b>	<b>0.012 J</b>	<b>41.6</b>	<b>0.38</b>	<b>0.026 J</b>	<b>0.020 J</b>
2,2'-Oxybis(1-chloropropane)		NS	NS	<1.5	NA	<1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol		12	60	<0.80	NA	<0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol		NS	NS	<2.0	NA	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol		7	70	<1.3	NA	<1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol		NS	NS	<1.2	NA	<1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol		NS	NS	<0.68	NA	<0.68	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene		0.005	0.05	<0.75	NA	<0.75	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene		0.005	0.05	<0.57	NA	<0.57	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene		NS	NS	<1.6	NA	<1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol		NS	NS	<1.1	NA	<1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene		NS	NS	<1.4	<0.0047	<1.4	<b>0.26</b>	<b>2.1</b>	<b>0.032</b>	<b>0.014 J</b>	<b>0.014 J</b>	<b>74.5</b>	<b>0.21</b>	<b>0.014 J</b>	<b>0.013 J</b>
2-Methylphenol(o-Cresol)		NS	NS	<0.83	NA	<0.83	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline		NS	NS	<0.74	NA	<0.74	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol		NS	NS	<1.1	NA	<1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol(m&p Cresol)		NS	NS	<1.5	NA	<1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine		NS	NS	<0.86	NA	<0.86	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline		NS	NS	<0.92	NA	<0.92	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol		NS	NS	<0.62	NA	<0.62	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenylphenyl ether		NS	NS	<1.9	NA	<1.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol		NS	NS	<1.6	NA	<1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline		NS	NS	<1.0	NA	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenylphenyl ether		NS	NS	<0.78	NA	<0.78	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline		NS	NS	<1.7	NA	<1.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol		NS	NS	<1.0	NA	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene		NS	NS	<1.3	<b>0.014 J</b>	<1.3	<b>0.28</b>	<b>0.016 J</b>	<b>0.049</b>	<b>0.023 J</b>	<b>0.013 J</b>	<b>0.21 J</b>	<b>0.032</b>	<b>0.022 J</b>	<b>0.023 J</b>
Acenaphthylene		NS	NS	<1.0	<0.0048	<1.0	<b>0.021 J</b>	<0.0049	<0.0047	<0.0048	<0.0047	<0.14	<0.0047	<0.0047	<0.0048
Anthracene		600	3,000	<1.7	<0.010	<1.7	<b>0.21</b>	<0.010	<0.0098	<0.010	<0.0099	<0.29	<0.0098	<b>0.014 J</b>	<b>0.019 J</b>
Benzo(a)anthracene		NS	NS	<0.51	<b>0.26</b>	<0.51	<b>0.094</b>	<b>0.018 J</b>	<b>0.011 J</b>	<b>0.023 J</b>	<0.0071	<0.21	<b>0.0076 J</b>	<b>0.0074 J</b>	<b>0.011 J</b>
Benzo(a)pyrene		0.02	0.2	<1.8	<b>0.39</b>	<1.8	<b>0.085</b>	<b>0.012 J</b>	<0.0098	<b>0.019 J</b>	<0.0099	<0.29	<0.0098	<0.010	<0.010
Benzo(b)fluoranthene		0.02	0.2	<0.62	<b>0.45</b>	<0.62	<b>0.11</b>	<b>0.016 J</b>	<b>0.0090 J</b>	<b>0.023 J</b>	<0.0054	<0.16	<0.0054	<0.0055	<0.0056
Benzo(g,h,i)perylene		NS	NS	<0.77	<b>0.27</b>	<0.77	<b>0.044</b>	<b>0.010 J</b>	<0.0063	<b>0.013 J</b>	<0.0064	<0.19	<0.0063	<0.0065	<0.0066
Benzo(k)fluoranthene		NS	NS	<0.95	<b>0.24</b>	<0.95	<b>0.044</b>	<0.0075	<0.0071	<b>0.011 J</b>	<0.0071	<0.21	<0.0071	<0.0072	<0.0073
Butylbenzylphthalate		NS	NS	<0.74	NA	<0.74	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole		NS	NS	<0.71	NA	<0.71	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene		0.02	0.2	<1.7	<b>0.48</b>	<1.7	<b>0.091</b>	<b>0.015 J</b>	<0.012	<b>0.021 J</b>	<0.012	<0.36	<0.012	<0.012	<0.013
Di-n-butylphthalate		NS	NS	<2.4	NA	<2.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octylphthalate		NS	NS	<1.8	NA	<1.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene		NS	NS	<1.3	<b>0.045 J</b>	<1.3	<b>0.015 J</b>	<0.0099	<0.0094	<0.0096	<0.0095	<0.28	<0.0094	<0.0095	<0.0097
Dibenzofuran		NS	NS	<0.73	NA	<0.73	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate		NS	NS	<1.0	NA	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate		NS	NS	<1.8	NA	<1.8	NA	NA	NA	NA	NA	NA	NA	NA	NA



Table A-7

Temporary Well Groundwater Analytical Results - Semi-Volatile Organic Compounds (SVOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Sample ID (Depth) Sample Date	Ch. NR 140 PAL	Ch. NR 140 ES	SB-51	SB-52	SB-53	SB-54	SB-55	SB-56	SB-57	SB-58	SB-59	SB-60	SB-61	SB-62
				0-5' 08/02/17	3-8' 07/28/17	0-3' 07/27/17	6-16' 09/11/17	6-16' 09/11/17	5-15' 09/11/17	2-12' 09/11/17	4-14' 09/11/17	3-13' 09/11/17	9-19' 09/11/17	9-19' 09/11/17	10-20' 09/11/17
Fluoranthene		80	400	<0.54	<b>0.61</b>	<0.54	<b>0.30</b>	<b>0.034 J</b>	<b>0.028 J</b>	<b>0.038 J</b>	<b>0.012 J</b>	<0.30	<b>0.017 J</b>	<b>0.020 J</b>	<b>0.032 J</b>
Fluorene		80	400	<0.71	<b>0.012 J</b>	<0.71	<b>0.41</b>	<b>0.011 J</b>	<b>0.016 J</b>	<b>0.010 J</b>	<0.0075	<0.22	<b>0.013 J</b>	<b>0.013 J</b>	<b>0.022 J</b>
Hexachloro-1,3-butadiene		NS	NS	<2.3	NA	<2.3	<2.1	<2.1	<2.1	<2.1	<2.1	<21.1	<2.1	<4.2	<2.1
Hexachlorobenzene		0.1	1	<1.6	NA	<1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene		NS	NS	<0.65	NA	<0.65	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane		NS	NS	<2.5	NA	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene		NS	NS	<1.4	<b>0.20</b>	<1.4	<b>0.050 J</b>	<0.017	<0.016	<0.017	<0.017	<0.49	<0.016	<0.017	<0.017
Isophorone		NS	NS	<0.70	NA	<0.70	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine		NS	NS	<0.92	NA	<0.92	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine		0.7	7	<3.4	NA	<3.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene		10	100	<1.8	<0.018	<1.8	<b>2.6 J</b>	<b>32.8</b>	<2.5	<2.5	<2.5	<b>486</b>	<b>2.6 J</b>	<5.0	<2.5
Nitrobenzene		NS	NS	<1.4	NA	<1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol		0.1	1	<1.4	NA	<1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene		NS	NS	<1.7	0.21	<1.7	<b>0.75</b>	<b>0.034 J</b>	<b>0.038 J</b>	<b>0.033 J</b>	<b>0.024 J</b>	<0.38	<b>0.020 J</b>	<b>0.027 J</b>	<b>0.094</b>
Phenol		400	2,000	<0.57	NA	<0.57	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene		50	250	<1.3	<b>0.55</b>	<1.3	<b>0.23</b>	<b>0.032 J</b>	<b>0.022 J</b>	<b>0.041</b>	<b>0.0082 J</b>	<0.21	<b>0.013 J</b>	<b>0.082</b>	<b>0.12</b>
bis(2-Chloroethoxy)methane		NS	NS	<0.95	NA	<0.95	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl) ether		NS	NS	<1.5	NA	<1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate		NS	NS	<0.66	NA	<0.66	NA	NA	NA	NA	NA	NA	NA	NA	NA

**Notes:**All units are micrograms per liter ( $\mu\text{g}/\text{l}$ ).

All depths are measured in feet below ground surface (ft bgs).

SVOCs analyzed by USEPA Method 8270.

**Bold** Value exceeds laboratory detection limit (DL).*Italic* Value exceeds Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit (PAL).**Shaded** Value exceeds Wisconsin Administrative Code Chapter NR 140 Enforcement Standard (ES).

NS No established standard.

NA Not analyzed.

Table A-7

Temporary Well Groundwater Analytical Results - Semi-Volatile Organic Compounds (SVOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Sample ID (Depth) Sample Date	Ch. NR 140 PAL	Ch. NR 140 ES	SB-63	SB-64	SB-65	SB-66D	SB-66S	SB-67	SB-68D	SB-68S	SB-69
				8-18'	3-13'	3-13'	17-22'	3-8'	17-22'	17-22'	3-8'	3-8'
				09/11/17	09/11/17	09/11/17	09/11/17	09/11/17	09/11/17	09/11/17	09/11/17	09/11/17
1,2,4-Trichlorobenzene		14	70	<2.2	<2.2	<2.2	<110	<2.2	<2.2	<2.2	<2.2	<2.2
1,2-Dichlorobenzene		60	600	<0.50	<0.50	<0.50	<25.0	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene		120	600	<0.50	<0.50	<0.50	<25.0	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene		15	75	<0.50	<0.50	<0.50	<25.0	<0.50	<0.50	<0.50	<0.50	<0.50
1-Methylnaphthalene		NS	NS	<b>0.014 J</b>	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane)		NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol		12	60	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol		NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol		7	70	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol		NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol		NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene		0.005	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene		0.005	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene		NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol		NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene		NS	NS	<b>0.0092 J</b>	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol(o-Cresol)		NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline		NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol		NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol(m&p Cresol)		NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine		NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline		NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol		NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenylphenyl ether		NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol		NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline		NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenylphenyl ether		NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline		NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol		NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene		NS	NS	<b>0.0082 J</b>	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene		NS	NS	<0.0048	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene		600	3,000	<0.010	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene		NS	NS	<0.0073	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene		0.02	0.2	<0.010	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene		0.02	0.2	<0.0056	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene		NS	NS	<0.0066	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene		NS	NS	<0.0073	NA	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate		NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole		NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene		0.02	0.2	<0.013	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate		NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octylphthalate		NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene		NS	NS	<0.0097	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran		NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate		NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate		NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA



Table A-7

Temporary Well Groundwater Analytical Results - Semi-Volatile Organic Compounds (SVOCs), 910 Mayer Avenue, Madison, Wisconsin.

Parameter	Sample ID (Depth) Sample Date	Ch. NR 140 PAL	Ch. NR 140 ES	SB-63	SB-64	SB-65	SB-66D	SB-66S	SB-67	SB-68D	SB-68S	SB-69
				8-18'	3-13'	3-13'	17-22'	3-8'	17-22'	17-22'	3-8'	3-8'
				09/11/17	09/11/17	09/11/17	09/11/17	09/11/17	09/11/17	09/11/17	09/11/17	09/11/17
Fluoranthene		80	400	<0.010	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene		80	400	<0.0077	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloro-1,3-butadiene		NS	NS	<2.1	<2.1	<2.1	<105	<2.1	<2.1	<2.1	<2.1	<2.1
Hexachlorobenzene		0.1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene		NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane		NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene		NS	NS	<0.017	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone		NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine		NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine		0.7	7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene		10	100	<2.5	<2.5	<2.5	<125	<2.5	<2.5	<2.5	<2.5	<b>3.0 J</b>
Nitrobenzene		NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol		0.1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene		NS	NS	<0.013	NA	NA	NA	NA	NA	NA	NA	NA
Phenol		400	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene		50	250	<0.0074	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane		NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl) ether		NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate		NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA

**Notes:**All units are micrograms per liter ( $\mu\text{g/l}$ ).

All depths are measured in feet below ground surface (ft bgs).

SVOCs analyzed by USEPA Method 8270.

**Bold** Value exceeds laboratory detection limit (DL).*Italic* Value exceeds Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit (PAL).**Shaded** Value exceeds Wisconsin Administrative Code Chapter NR 140 Enforcement Standard (ES).

NS No established standard.

NA Not analyzed.

Table A-8  
 Temporary Well Groundwater Analytical Results - Metals, 910 Mayer Avenue Madison, Wisconsin.

Parameter	Ch. NR 140 PAL	Ch. NR 140 ES	SB-3	SB-4	SB-5	SB-8	SB-9	SB-10	SB-11	SB-12	SB-13	SB-14	SB-15	SB-17	SB-18	SB-19	SB-20	SB-21	SB-22	SB-23	SB-24
			3-13' 07/31/17	7-12' 07/31/17	3-8' 07/31/17	5-15' 08/01/17	3-13' 08/02/17	3-8' 07/28/17	3-8' 07/31/17	3-8' 08/02/17	3-8' 07/28/17	3-8' 07/28/17	3-8' 08/02/17	3-8' 07/28/17	3-8' 08/02/17	5-15' 07/31/17	5-15' 07/28/17	3-8' 07/31/17	7-12' 07/31/17	5-15' 07/31/17	6-16' 07/31/17
Arsenic	1	10	NA	NA	NA	NA	NA	NA	NA	81.2	NA	29.6	8.4 J	40.9	NA	13.5 J	11.3 J	21.4 J	NA	85.0	31.0
Barium	400	2,000	NA	NA	NA	NA	NA	NA	NA	174	NA	213	124	501	NA	432	164	226	NA	1,070	490
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	NA	<1.3	NA	<1.3	<1.3	<1.3	NA	<1.3	<1.3	2.6 J	NA	<1.3	<1.3
Chromium (total)	10	100	NA	NA	NA	NA	NA	NA	NA	<2.5	NA	19.5	7.3 J	37.6	NA	35.5	6.8 J	40.5	NA	79.1	108
Lead	1.5	15	370	123	29.8	76.4	441	70.7	54.9	6.9 J	67.6	26.9	11.5 J	25.5	2,670	226	<4.3	50.8	157	41.1	34.8
Selenium	10	50	NA	NA	NA	NA	NA	NA	NA	<16.6	NA	<16.6	<16.6	<16.6	NA	<16.6	<16.6	<16.6	NA	<16.6	<16.6
Silver	10	50	NA	NA	NA	NA	NA	NA	NA	<3.3	NA	<3.3	<3.3	<3.3	NA	<3.3	<3.3	<3.3	NA	<3.3	<3.3
Mercury	0.2	2	NA	NA	NA	NA	NA	NA	NA	<0.13	NA	<0.13	<0.13	<0.13	NA	<0.13	<0.13	<0.13	NA	<0.13	<0.13

**Notes:**

All units are micrograms per liter (µg/l).

All depths are measured in feet below ground surface (ft bgs).

Metals analyzed by USEPA Method 6010 (Mercury by EPA Method 7470).

- Bold** Value exceeds laboratory detection limit (DL).
- Italic* Value exceeds Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit (PAL).
- Shaded** Value exceeds Wisconsin Administrative Code Chapter NR 140 Enforcement Standard (ES).
- NS No established standard.
- NA Not analyzed.



Table A-8  
 Temporary Well Groundwater Analytical Results - Metals, 910 Mayer Avenue Madison, Wisconsin.

Parameter	Ch. NR 140 PAL	Ch. NR 140 ES	SB-25	SB-26	SB-27D	SB-27S	SB-28	SB-29	SB-30	SB-31D	SB-31S	SB-32	SB-33	SB-34	SB-35	SB-36D	SB-36S	SB-37D	SB-37S	SB-38	SB-41
			10-20'	0-5'	20-30'	5-10'	11-16'	3-8'	15-20'	25-30'	7-12'	9.5-14.5'	3-8'	7-12'	11-16'	18-28'	3-8'	20-30'	5-10'	7-12'	2-12'
Arsenic	1	10	08/01/17 21.5 J	07/26/17 49.9	07/27/17 19.3 J	07/26/17 9.3 J	07/26/17 <8.3	07/28/17 <8.3	07/26/17 <8.3	07/26/17 143	07/26/17 155	07/26/17 <8.3	07/28/17 <8.3	07/27/17 <8.3	07/27/17 35.3	07/27/17 25.8	07/27/17 36.2	07/27/17 19.8 J	07/27/17 17.6 J	07/27/17 51.5	08/02/17 23.3 J
Barium	400	2,000	473	1,290	298	407	320	343	92.4	1,920	1,360	300	340	125	362	316	288	124	93.4	279	322
Cadmium	0.5	5	<1.3	21.8	<1.3	2.2 J	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	1.9 J
Chromium (total)	10	100	33.6	117	67.0	26.1	9.8 J	11.8	9.1 J	372	229	67.2	14.2	7.0 J	15.6	64.0	58.0	180	5.4 J	3.2 J	122
Lead	1.5	15	14.4	1,390	117	259	8.9 J	271	<4.3	148	89.2	30.7	11.2 J	<4.3	20.5	38.8	21.6	29.8	7.5 J	<4.3	121
Selenium	10	50	<16.6	<16.6	<16.6	<16.6	<16.6	<16.6	<16.6	<16.6	<16.6	<16.6	<16.6	<16.6	<16.6	<16.6	<16.6	<16.6	<16.6	<16.6	<16.6
Silver	10	50	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3
Mercury	0.2	2	<0.13	2.1	<0.13	0.65	<0.13	<0.13	<0.13	0.34 J	0.18 J	<0.13	<0.13	<0.13	<0.13	<0.13	0.18 J	<0.13	<0.13	<0.13	<0.13

Notes:

All units are micrograms per liter (µg/l).

All depths are measured in feet below ground surface (ft bgs).

Metals analyzed by USEPA Method 6010 (Mercury by EPA Method 7470).

- Bold** Value exceeds laboratory detection limit (DL).
- Italic* Value exceeds Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit (PAL).
- Shaded** Value exceeds Wisconsin Administrative Code Chapter NR 140 Enforcement Standard (ES).
- NS No established standard.
- NA Not analyzed.

Table A-8  
 Temporary Well Groundwater Analytical Results - Metals, 910 Mayer Avenue Madison, Wisconsin.

Parameter	Ch. NR 140 PAL	Ch. NR 140 ES	SB-42	SB-43	SB-44	SB-45	SB-46	SB-47	SB-48	SB-49	SB-50	SB-51	SB-52	SB-53	SB-54	SB-55	SB-56	SB-57	SB-58	SB-59	SB-60	
			6-16' 07/31/17	7-12' 08/01/17	7-12' 08/01/17	7-12' 08/02/17	3-8' 08/02/17	7-12' 08/01/17	11-16' 08/01/17	5-15' 08/02/17	5-15' 08/02/17	0-5' 08/02/17	3-8' 07/28/17	0-3' 07/27/17	6-16' 09/11/17	6-16' 09/11/17	5-15' 09/11/17	2-12' 09/11/17	4-14' 09/11/17	3-13' 09/11/17	3-13' 09/11/17	9-19' 09/11/17
Arsenic	1	10	NA	NA	NA	22.5 J	<8.3	20.1 J	25.8	24.6 J	19.8 J	<8.3	NA	<8.3	NA	NA	NA	NA	NA	NA	NA	NA
Barium	400	2,000	NA	NA	NA	2,100	175	389	239	434	455	49.0	NA	155	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	NA	<1.3	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (total)	10	100	NA	NA	NA	27.4	9.0 J	8.4 J	61.5	180	151	<2.5	NA	4.8 J	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1.5	15	<4.3	14.3	<4.3	53.6	38.2	10.8 J	44.7	51.7	39.0	<4.3	18.9	<4.3	1,140	956	19.7	154	130	163	358	
Selenium	10	50	NA	NA	NA	<16.6	<16.6	<16.6	<16.6	<16.6	<16.6	<16.6	NA	<16.6	NA	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	NA	<3.3	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.2	2	NA	NA	NA	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	NA	<0.13	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

All units are micrograms per liter (µg/l).

All depths are measured in feet below ground surface (ft bgs).

Metals analyzed by USEPA Method 6010 (Mercury by EPA Method 7470).

- Bold** Value exceeds laboratory detection limit (DL).
- Italic* Value exceeds Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit (PAL).
- Shaded** Value exceeds Wisconsin Administrative Code Chapter NR 140 Enforcement Standard (ES).
- NS No established standard.
- NA Not analyzed.



Table A-8  
 Temporary Well Groundwater Analytical Results - Metals, 910 Mayer Avenue Madison, Wisconsin.

Parameter	Ch. NR 140 PAL	Ch. NR 140 ES	SB-61	SB-62	SB-63	SB-64	SB-65	SB-66D	SB-66S	SB-67	SB-68D	SB-68S	SB-69	SB-15D
			9-19'	10-20'	8-18'	3-13'	3-13'	17-22'	3-8'	17-22'	17-22'	3-8'	3-8'	15-20'
			09/11/17	09/11/17	09/11/17	09/11/17	09/11/17	09/11/17	09/11/17	09/11/17	09/11/17	09/11/17	09/11/17	09/11/17
Arsenic	1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	400	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (total)	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1.5	15	<b>219</b>	<b>479</b>	<b>495</b>	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

**Notes:**

- All units are micrograms per liter (µg/l).
- All depths are measured in feet below ground surface (ft bgs).
- Metals analyzed by USEPA Method 6010 (Mercury by EPA Method 7470).
- Bold** Value exceeds laboratory detection limit (DL).
- Italic* Value exceeds Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit (PAL).
- Shaded** Value exceeds Wisconsin Administrative Code Chapter NR 140 Enforcement Standard (ES).
- NS No established standard.
- NA Not analyzed.

***APPENDIX B      ERM PHASE II ESA LABORATORY  
REPORTS (OCTOBER 2017)***



*APPENDIX C      ERM PHASE II ESA SOIL BORING LOGS  
(OCTOBER 2017)*



PROJECT:  
 Reich Brothers, LLC  
 Thompson Hine, LLP  
 Phase II Environmental Site Assessment  
 910 Mayer Street, Madison, WI

BORING # **SB-1**  
 ERM PROJECT # 0403363  
 SHEET 1 OF 1

DRILLING CONTRACTOR Geoserve, Inc.  
 Woodstock, Illinois  
 DRILLING FOREMAN Eduardo Deulbe  
 DRILLING METHOD Direct Push  
 DRILLING EQUIPMENT Geoprobe 7822 DT



ERM REPRESENTATIVE Stephen Hoekwater  
 OFFICE LOCATION Holland, MI  
 DATE: START 07/31/2017  
 FINISH 07/31/2017

HORIZONTAL DATUM (NAD 1983 StatePlane Wisconsin South (US Feet))  
 NORTHING 2172338.185  
 EASTING 404876.6694  
 VERTICAL DATUM (NGVD 29 (US Feet)) ELEVATION 856.29 ft

BOREHOLE DEPTH 12 ft  
 BOREHOLE DIAMETER 2.5 in  
 DEPTH TO WATER (INITIAL) 6 ft  
 DEPTH TO WATER (FINAL) 6 ft

DEPTH ELEVATION	STRATA DESCRIPTION	DEPTH	USCS	GRAPHIC LOG	SAMPLING DATA			
					SAMPLE TYPE	RECOVERY	PID (ppm) 10.6 eV Lamp	Observations / Remarks
	[Asphalt with gravel sub-base]							
	SANDY GRAVEL (GW) dry, light brown	0.5	GW					
855	SAND (SP) poorly graded, fine grained SAND; loose, some silt, trace clay, trace gravel; dry to moist, brown to dark brown	1	SP					SB-1 [(1-1.5ft)]
2	SAND (SP) poorly graded, fine grained SAND; loose, trace silt, dry to moist, reddish brown to light reddish brown	1.5	SP		60/60	0		
	SAND (SP) poorly graded, fine grained SAND; loose, dry, light brown	3	SP			0		
4	AS ABOVE EXCEPT: (SP) little silt, moist, light grayish brown	4.5	SP			0		
6	SAND (SP) poorly graded, fine grained SAND; loose, little silt, wet, light grayish brown with dark red	6	SP		21/36	0		
850	SILTY SAND (SM) poorly graded, fine grained SAND; loose, wet, light grayish brown	8	SM			0		
10	GRAVELLY SAND (SW) well graded, fine to coarse grained SAND; dry, light gray to dark gray, [observed shiny gold colored particles]	9.5	SW		42/48	0		
	SAND (SP) medium dense, some silt, trace gravel, moist to wet, brown to light brown	10	SP			0		
845	SILTY SAND (SM) poorly graded, fine grained SAND; wet, light grayish brown	10.5	SM			0		
12	[End of Boring at 12' bgs]	12						

REMARKS:

 Auger Cuttings  
 Direct push geoprobe sample

LAB ANALYSIS:

BORING LOG KRAFT HEINZ FOODS COMPANY.GPJ ERM DATA TEMPLATE.GDT 9/26/17





PROJECT:  
 Reich Brothers, LLC  
 Thompson Hine, LLP  
 Phase II Environmental Site Assessment  
 910 Mayer Street, Madison, WI

BORING # **SB-2**  
 ERM PROJECT # 0403363  
 SHEET 1 OF 1

DRILLING CONTRACTOR Geoserve, Inc.  
 Woodstock, Illinois  
 DRILLING FOREMAN Eduardo Deulbe  
 DRILLING METHOD Direct Push  
 DRILLING EQUIPMENT Geoprobe 7822 DT

ERM REPRESENTATIVE Stephen Hoekwater  
 OFFICE LOCATION Holland, MI  
 DATE: START 07/31/2017  
 FINISH 07/31/2017

HORIZONTAL DATUM (NAD 1983 StatePlane Wisconsin South (US Feet))  
 NORTHING 2172303.188  
 EASTING 404921.921  
 VERTICAL DATUM (NGVD 29 (US Feet)) ELEVATION 855.98 ft

BOREHOLE DEPTH 12 ft  
 BOREHOLE DIAMETER 2.5 in  
 DEPTH TO WATER (INITIAL) 6 ft  
 DEPTH TO WATER (FINAL) 6 ft

DEPTH	ELEVATION	STRATA DESCRIPTION	DEPTH	USCS	GRAPHIC LOG	SAMPLING DATA			
						SAMPLE TYPE	RECOVERY	PID (ppm) 10.6 eV Lamp	Observations / Remarks
		[Asphalt]	0.25						
		SANDY GRAVEL (GW) dry, light brown	0.5	GW					
855		[Asphalt]	0.75	GW					
		SANDY GRAVEL (GW) dry, light brown	1	CH					SB-2 [(1-1.5ft)]
2		CLAY (CH) medium plasticity, medium stiff, some fine sand, dry, grayish brown to dark grayish brown	2	SP		60/60		0	
		SAND (SP) poorly graded, fine grained SAND; trace silt, dry, grayish brown to dark grayish brown	3	CH				0	
4		CLAY (CH) high plasticity, medium stiff, little fine sand, dry, brown	4	SP				0	
		SAND (SP) poorly graded, fine grained SAND; dry to moist, light brown to brown						0	
6	850	SAND (SP) poorly graded, fine grained SAND; wet, light brown	6	SP		24/36		0	
								0	
8								0	
		AS ABOVE EXCEPT: (SP) trace silt	9	SP		36/48		0.1	
10								0.2	
	845	SAND (SP) poorly graded, fine grained SAND; some silt, wet, light grayish brown	11	SP				0.2	
12		[End of Boring at 12' bgs]	12						
14									

REMARKS:

LAB ANALYSIS:

Auger Cuttings

Direct push geoprobe sample

BORING LOG KRAFT HEINZ FOODS COMPANY.GPJ ERM DATA TEMPLATE.GDT 9/26/17



PROJECT:  
 Reich Brothers, LLC  
 Thompson Hine, LLP  
 Phase II Environmental Site Assessment  
 910 Mayer Street, Madison, WI

BORING # **SB-3**  
 ERM PROJECT # 0403363  
 SHEET 1 OF 1

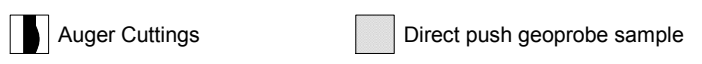
DRILLING CONTRACTOR	Geoserve, Inc. Woodstock, Illinois	ERM REPRESENTATIVE	Stephen Hoekwater
DRILLING FOREMAN	Eduardo Deulbe	OFFICE LOCATION	Holland, MI
DRILLING METHOD	Direct Push	DATE: START	07/31/2017
DRILLING EQUIPMENT	Geoprobe 7822 DT	FINISH	07/31/2017

HORIZONTAL DATUM (NAD 1983 StatePlane Wisconsin South (US Feet))		BOREHOLE DEPTH	16 ft
NORTHING	2172256.955	BOREHOLE DIAMETER	2.5 in
EASTING	404904.5536	DEPTH TO WATER (INITIAL) $\nabla$	8 ft
VERTICAL DATUM (NGVD 29 (US Feet)) ELEVATION	855.84 ft	DEPTH TO WATER (FINAL) $\nabla$	6.45 ft

DEPTH	ELEVATION	STRATA DESCRIPTION	DEPTH	USCS	GRAPHIC LOG	SAMPLING DATA			
						SAMPLE TYPE	RECOVERY	PID (ppm) 10.6 eV Lamp	Observations / Remarks
		[Asphalt]	0.25						
855		SANDY GRAVEL (GW) dry, light brown		GW					
2		GRAVELLY SAND (SW) well graded, fine grained SAND; loose, little silt, trace clay, dry, brownish gray to dark brownish gray	1.5				60/60	190 182.5	
4				SW				258.9	
6		SAND (SW) well graded, fine grained SAND; some silt, little clay, little gravel; dry, brownish gray to dark brownish gray	5					54.2	
6	850			SW				21	
		SAND (SP) poorly graded, fine grained SAND; loose, little silt, trace clay, trace gravel; moist, dark gray	6.5				18/36	625	
8		SILT (ML) medium stiff, trace clay, dry, dark brownish gray	7.5						
			8	ML					
		SAND (SP) poorly graded, fine grained SAND; loose, trace silt, trace gravel, wet, brownish gray	9					2142	SB-3 [(8-10ft)]
10		AS ABOVE EXCEPT: (SP) some silt	10				18/48		
845		SILTY SAND (SM) poorly graded, fine grained SAND; loose, trace clay, wet, light grayish brown						782.2	
12				SM				17.5	
14		SILTY SAND (SM) poorly graded, fine grained SAND; loose, little clay, trace gravel, wet, light grayish brown	14				36/48	2.7	
16	840			SM				1.7	
		[End of Boring at 16' bgs]	16					2.1	

REMARKS:  
 Installed temporary monitoring well screened from 3-13' bgs.  
 Petroleum-like odor observed in soil throughout boring

LAB ANALYSIS:



BORING LOG KRAFT HEINZ FOODS COMPANY.GPJ ERM DATA TEMPLATE.GDT 9/26/17





PROJECT:  
 Reich Brothers, LLC  
 Thompson Hine, LLP  
 Phase II Environmental Site Assessment  
 910 Mayer Street, Madison, WI



BORING # **SB-4**  
 ERM PROJECT # 0403363  
 SHEET 1 OF 1

DRILLING CONTRACTOR	Geoserve, Inc. Woodstock, Illinois	ERM REPRESENTATIVE	Stephen Hoekwater
DRILLING FOREMAN	Eduardo Deulbe	OFFICE LOCATION	Holland, MI
DRILLING METHOD	Direct Push	DATE: START	07/31/2017
DRILLING EQUIPMENT	Geoprobe 7822 DT	FINISH	07/31/2017

HORIZONTAL DATUM (NAD 1983 StatePlane Wisconsin South (US Feet))		BOREHOLE DEPTH	12 ft
NORTHING	2172258.759	BOREHOLE DIAMETER	2.5 in
EASTING	405414.6106	DEPTH TO WATER (INITIAL) $\nabla$	8 ft
VERTICAL DATUM (NGVD 29 (US Feet)) ELEVATION	854.08 ft	DEPTH TO WATER (FINAL) $\nabla$	4.86 ft

DEPTH ELEVATION	STRATA DESCRIPTION	DEPTH	USCS	GRAPHIC LOG	SAMPLING DATA			Observations / Remarks
					SAMPLE TYPE	RECOVERY	PID (ppm) 10.6 eV Lamp	
	[Asphalt]	0.25						
	SANDY GRAVEL (GW) dry, brown	0.75	GW					
	AS ABOVE EXCEPT: (GW) light brown	1.5	GW					
2	SAND (SW) well graded, fine to medium grained SAND; loose, little gravel, moist, brown to dark brown	2.5	SW			0		
	CLAY (CH) high plasticity, soft, moist to dry, dark gray to black	2.5			60/60	0.1		
						0.5		
4			CH			0.5		SB-4 [(3-4ft)]
	AS ABOVE EXCEPT: (CH) gray to bluish gray	4.5				0.1		
6			CH			0		
					21/36	0		
8						0		
	SANDY SILT (MLS) soft, little clay, wet, gray	8	MLS			0		
845						0		
10			SP			0		
	SAND (SP) poorly graded, fine grained SAND; loose, wet, light grayish brown to light brown	9.5			36/48	0		
12						0		
	[End of Boring at 12' bgs]	12						
14								

REMARKS:  
 Installed temporary monitoring well screened from 7-12' bgs.

 Auger Cuttings     
  Direct push geoprobe sample

LAB ANALYSIS:

BORING LOG KRAFT HEINZ FOODS COMPANY.GPJ ERM DATA TEMPLATE.GDT 9/26/17



PROJECT:  
 Reich Brothers, LLC  
 Thompson Hine, LLP  
 Phase II Environmental Site Assessment  
 910 Mayer Street, Madison, WI

BORING # **SB-5**  
 ERM PROJECT # 0403363  
 SHEET 1 OF 1

DRILLING CONTRACTOR Geoserve, Inc.  
 Woodstock, Illinois  
 DRILLING FOREMAN Eduardo Deulbe  
 DRILLING METHOD Direct Push  
 DRILLING EQUIPMENT Geoprobe 7822 DT

ERM REPRESENTATIVE Stephen Hoekwater  
 OFFICE LOCATION Holland, MI  
 DATE: START 07/31/2017  
 FINISH 07/31/2017

HORIZONTAL DATUM (NAD 1983 StatePlane Wisconsin South (US Feet))  
 NORTHING  
 EASTING  
 VERTICAL DATUM (NGVD 29 (US Feet)) ELEVATION

BOREHOLE DEPTH 8 ft  
 BOREHOLE DIAMETER 2.5 in  
 DEPTH TO WATER (INITIAL) 5 ft  
 DEPTH TO WATER (FINAL) 4.44 ft

DEPTH	ELEVATION	STRATA DESCRIPTION	DEPTH	USCS	GRAPHIC LOG	SAMPLE TYPE	SAMPLING DATA		
							RECOVERY	PID (ppm) 10.6 eV Lamp	Observations / Remarks
		[Asphalt]							
		SANDY GRAVEL (GW) dry, brown	0.5	GW					
1		AS ABOVE EXCEPT: (GW) light brown	0.75	GW					
		SAND (SW) well graded, fine to coarse grained SAND; loose, some clay, little gravel, trace silt; dry, dark grayish brown	1	SW			80.5		
		SAND (SP) poorly graded, fine grained SAND; loose, some gravel, dry, dark grayish brown	1.5	SP			1403		
2						60/60	94.4		
		CLAY (CH) high plasticity, soft, moist to dry, very dark gray	3	CH			1457		
4		SAND (SP) poorly graded, fine grained SAND; trace silt, moist, gray	4	SP			1408		
		AS ABOVE EXCEPT: (SP) wet, [observed slight sheen between 5-6' bgs]	5	SP			1622		SB-5 [(4.5-5ft)]
6							1535		
		SAND (SP) poorly graded, fine grained SAND; little silt, wet, gray	7	SP			1335		
8		[End of Boring at 8' bgs]	8						
9									

REMARKS:  
 Installed temporary monitoring well screened from 3-8' bgs.  
 Petroleum-like odor observed in soil throughout boring

LAB ANALYSIS:

Auger Cuttings  
 Direct push geoprobe sample

BORING LOG KRAFT HEINZ FOODS COMPANY.GPJ ERM DATA TEMPLATE.GDT 9/26/17





PROJECT:  
 Reich Brothers, LLC  
 Thompson Hine, LLP  
 Phase II Environmental Site Assessment  
 910 Mayer Street, Madison, WI

BORING # **SB-6**  
 ERM PROJECT # 0403363  
 SHEET 1 OF 1

DRILLING CONTRACTOR Geoserve, Inc.  
 Woodstock, Illinois  
 DRILLING FOREMAN Eduardo Deulbe  
 DRILLING METHOD Direct Push  
 DRILLING EQUIPMENT Geoprobe 7822 DT

ERM REPRESENTATIVE Stephen Hoekwater  
 OFFICE LOCATION Holland, MI  
 DATE: START 07/31/2017  
 FINISH 07/31/2017



HORIZONTAL DATUM (NAD 1983 StatePlane Wisconsin South (US Feet))  
 NORTHING 2172273.899  
 EASTING 405469.1573  
 VERTICAL DATUM (NGVD 29 (US Feet)) ELEVATION 854.3 ft

BOREHOLE DEPTH 8 ft  
 BOREHOLE DIAMETER 2.5 in  
 DEPTH TO WATER (INITIAL) 4.5 ft  
 DEPTH TO WATER (FINAL) 5.4 ft

DEPTH	ELEVATION	STRATA DESCRIPTION	DEPTH	USCS	GRAPHIC LOG	SAMPLING DATA			
						SAMPLE TYPE	RECOVERY	PID (ppm) 10.6 eV Lamp	Observations / Remarks
		[Asphalt]							
		SANDY GRAVEL (GW) dry, brown	0.5	GW					
1		AS ABOVE EXCEPT: (GW) light brown	0.75	GW					
		SAND (SW) well graded, fine to coarse grained SAND; loose, some gravel, trace silt, moist to dry, dark grayish brown	1	SW			8.7		
		SAND (SP) poorly graded, fine to medium grained SAND; loose, some gravel, dry, gray	1.5	SP			53.5		
2		COBBLES (GW)	2	GW					
		CLAY (CH) high plasticity, soft, very dark gray to very dark bluish gray	2.5	CH		60/60	10		
3		SAND (SP) poorly graded, fine grained SAND; loose, trace silt, moist, gray	3.5	SP			135		SB-6 [(3-4ft)]
4	850	AS ABOVE EXCEPT: (SP) wet	4.5				133.3		
5									
6				SP		6/36	28.1		
7									
8		[End of Boring at 8' bgs]	8						

BORING LOG KRAFT HEINZ FOODS COMPANY.GPJ ERM DATA TEMPLATE.GDT 9/26/17

REMARKS:

 Auger Cuttings
  Direct push geoprobe sample

LAB ANALYSIS:



PROJECT:  
 Reich Brothers, LLC  
 Thompson Hine, LLP  
 Phase II Environmental Site Assessment  
 910 Mayer Street, Madison, WI

BORING # **SB-7**  
 ERM PROJECT # 0403363  
 SHEET 1 OF 1

DRILLING CONTRACTOR	Geoserve, Inc. Woodstock, Illinois	ERM REPRESENTATIVE	Stephen Hoekwater
DRILLING FOREMAN	Eduardo Deulbe	OFFICE LOCATION	Holland, MI
DRILLING METHOD	Direct Push	DATE: START	08/01/2017
DRILLING EQUIPMENT	Geoprobe 7822 DT	FINISH	08/01/2017

HORIZONTAL DATUM (NAD 1983 StatePlane Wisconsin South (US Feet))	BOREHOLE DEPTH	16 ft	
NORTHING	2172293.67	BOREHOLE DIAMETER	2.5 in
EASTING	405589.8415	DEPTH TO WATER (INITIAL) $\nabla$	12 ft
VERTICAL DATUM (NGVD 29 (US Feet)) ELEVATION	855.18 ft	DEPTH TO WATER (FINAL) $\nabla$	

DEPTH	ELEVATION	STRATA DESCRIPTION	DEPTH	USCS	GRAPHIC LOG	SAMPLING DATA			Observations / Remarks
						SAMPLE TYPE	RECOVERY	PID (ppm) 10.6 eV Lamp	
0.25	855	SANDY GRAVEL (GP-SP) trace silt, dry, light brown	0.25	GP-SP					
0.5			0.5	GP-SP					
1		SANDY GRAVEL (GP-SP) trace silt, dry, brown	1	GP-SP					
1.5			1.5	SC			0		
2		SANDY CLAY (SC) medium plasticity, soft, some gravel, dry, dark grayish brown	3.9				3.9		
				SW-SC		60/60	9.6		
		CLAYEY SAND (SW-SC) well graded, fine to medium grained SAND; some gravel, dry, dark grayish brown						1.6	
3.5			3.5						
4		SAND (GP-SP) poorly graded, fine grained SAND; loose, some gravel, dry, light brown		GP-SP					
4.5			4.5					121.4	
5	850	CLAY (CH) fine grained SAND; high plasticity, soft, some gravel, little sand, dry, very dark bluish gray	5	CH					
6		CLAY (CH) high plasticity, medium stiff, trace silt, dry, very dark grayish black		CH		24/36	102.6		
7		CLAY (CH) high plasticity, soft, little silt, moist, grayish brown	7					193	
8				CH				461.1	
10						30/48			
10	845								
11		CLAY (CL-ML) medium plasticity, soft, some silt, moist, dark gray	11	CL-ML				631.6	SB-7 ((10-12ft))
12		SILT (ML) soft, some clay, wet, dark gray	12	ML				92.8	
13.5			13.5						
14		SAND (SP) poorly graded, fine grained SAND; little silt, trace clay, wet, gray		SP		42/48		65	
16		[End of Boring at 16' bgs]	16						

REMARKS:

Auger Cuttings      Direct push geoprobe sample

LAB ANALYSIS:

BORING LOG KRAFT HEINZ FOODS COMPANY.GPJ ERM DATA TEMPLATE.GDT 9/26/17





PROJECT:  
 Reich Brothers, LLC  
 Thompson Hine, LLP  
 Phase II Environmental Site Assessment  
 910 Mayer Street, Madison, WI

BORING # **SB-8**  
 ERM PROJECT # 0403363  
 SHEET 1 OF 1

DRILLING CONTRACTOR	Geoserve, Inc. Woodstock, Illinois	ERM REPRESENTATIVE	Stephen Hoekwater
DRILLING FOREMAN	Eduardo Deulbe	OFFICE LOCATION	Holland, MI
DRILLING METHOD	Direct Push	DATE: START	08/01/2017
DRILLING EQUIPMENT	Geoprobe 7822 DT	FINISH	08/01/2017

HORIZONTAL DATUM (NAD 1983 StatePlane Wisconsin South (US Feet))	BOREHOLE DEPTH	16 ft	
NORTHING	BOREHOLE DIAMETER	2.5 in	
EASTING	DEPTH TO WATER (INITIAL) $\nabla$	12 ft	
VERTICAL DATUM (NGVD 29 (US Feet)) ELEVATION	854.84 ft	DEPTH TO WATER (FINAL) $\nabla$	5.13 ft

DEPTH	ELEVATION	STRATA DESCRIPTION	DEPTH	USCS	GRAPHIC LOG	SAMPLE TYPE	SAMPLING DATA		
							RECOVERY	PID (ppm) 10.6 eV Lamp	Observations / Remarks
		SANDY GRAVEL (GP-SP) poorly graded, fine grained SAND; trace silt, dry, light brown to brown	0.25	GP-SP					
		SAND (SW) well graded, fine to medium grained SAND; some gravel, little silt, trace clay; dry, grayish brown to dark grayish brown	1	SW					
2		SAND (SP) poorly graded, fine grained SAND; trace silt, dry	1.5	SP			60/60	0.1	
		AS ABOVE EXCEPT: (SP) some gravel	2.5	SP				0	
		CLAY (CH) high plasticity, soft, little silt, very dark dark gray to black, [orangish/reddish staining observed]	4.75	CH				5.7	
	850	SAND (SP) poorly graded, medium grained SAND; loose, dry, very dark gray to black	5.25	SP				11	
6		CLAY (CH) high plasticity, medium stiff, moist to dry, gray to dark gray	5.5	CH			21/36	6	
		CLAY (CH) high plasticity, soft, trace fine sand, moist, gray	8	CH				7.1	
10	845	SAND (SP) poorly graded, fine grained SAND; little silt, wet to moist, gray	11	SP				122.6	SB-8 [(10-12ft)]
		SILT (ML) soft, little fine sand, little clay, wet, dark gray	12	ML				65.3	
		SAND (SP) poorly graded, fine grained SAND; some gravel, trace silt, wet, gray to dark gray	13	SP			42/48	53.8	
14		SAND (SP) poorly graded, fine grained SAND; soft, trace silt, wet, gray to dark gray	14.5	SP					
16	840	[End of Boring at 16' bgs]	16						

REMARKS:  
 Installed temporary monitoring well screened from 5-15' bgs.

LAB ANALYSIS:

Auger Cuttings      Direct push geoprobe sample

BORING LOG KRAFT HEINZ FOODS COMPANY.GPJ ERM DATA TEMPLATE.GDT 9/26/17



PROJECT:  
 Reich Brothers, LLC  
 Thompson Hine, LLP  
 Phase II Environmental Site Assessment  
 910 Mayer Street, Madison, WI

BORING # **SB-9**  
 ERM PROJECT # 0403363  
 SHEET 1 OF 1

DRILLING CONTRACTOR Geoserve, Inc.  
 Woodstock, Illinois  
 DRILLING FOREMAN Eduardo Deulbe  
 DRILLING METHOD Direct Push  
 DRILLING EQUIPMENT Geoprobe 7822 DT

ERM REPRESENTATIVE Stephen Hoekwater  
 OFFICE LOCATION Holland, MI  
 DATE: START 08/01/2017  
 FINISH 08/01/2017

HORIZONTAL DATUM (NAD 1983 StatePlane Wisconsin South (US Feet))  
 NORTHING 2172326.177  
 EASTING 405638.5891  
 VERTICAL DATUM (NGVD 29 (US Feet)) ELEVATION 854.64 ft

BOREHOLE DEPTH 16 ft  
 BOREHOLE DIAMETER 2.5 in  
 DEPTH TO WATER (INITIAL) 11 ft  
 DEPTH TO WATER (FINAL) 4.75 ft

DEPTH ELEVATION	STRATA DESCRIPTION	DEPTH	USCS	GRAPHIC LOG	SAMPLE TYPE	SAMPLING DATA		
						RECOVERY	PID (ppm) 10.6 eV Lamp	Observations / Remarks
	SANDY GRAVEL (GP-SP) trace silt, dry, brown to light brown	0.25	GP-SP					
	CLAY (CH) high plasticity, soft, little fine sand, trace gravel, dry, dark gray	0.75	CH					
2	SAND (SP) poorly graded, fine grained SAND; loose, little silt, little clay, moist to dry, gray to brownish gray	1.5	SP			60/60	0.1 2.8 9.2 961.4	
4	SILT (ML) soft, dry, black, [trace roots]	4.5	ML				158.2	SB-9 [(4-5ft)]
	CLAY (CH) high plasticity, medium dense, little silt, dry, black	5	CH					
6	CLAY (CH) high plasticity, soft, trace silt, moist, gray	5.75	CH			24/36	170.8	
	CLAY (CH) high plasticity, some silt, moist, gray and dark gray	7	CH				293.1	
8			CH				70.2	
845			CH			24/48	20	
10	GRAVELLY SAND (GP-SP) poorly graded, fine grained SAND; some gravel, little silt, wet, gray	11	GP-SP				561.2	
12			GP-SP				10.7	
14			GP-SP			36/48	3.5	
840			GP-SP					
16	SAND (SP) poorly graded, fine grained SAND; wet, light grayish brown	15.5	SP					
	[End of Boring at 16' bgs]	16						

REMARKS:  
 Installed temporary monitoring well screened from 3-13' bgs.  
 Petroleum-like odor observed in soil throughout boring

LAB ANALYSIS:

Auger Cuttings      Direct push geoprobe sample

BORING LOG KRAFT HEINZ FOODS COMPANY.GPJ ERM DATA TEMPLATE.GDT 9/26/17





PROJECT:  
 Reich Brothers, LLC  
 Thompson Hine, LLP  
 Phase II Environmental Site Assessment  
 910 Mayer Street, Madison, WI

BORING # **SB-54**  
 ERM PROJECT # 0403363  
 SHEET 1 OF 1

DRILLING CONTRACTOR Geoserve, Inc.  
 Woodstock, Illinois  
 DRILLING FOREMAN Eduardo Deulbe  
 DRILLING METHOD Direct Push  
 DRILLING EQUIPMENT Geoprobe 7822 DT

ERM REPRESENTATIVE Carl Stay  
 OFFICE LOCATION Milwaukee, WI  
 DATE: START 09/07/2017  
 FINISH 09/07/2017

HORIZONTAL DATUM (NAD 1983 StatePlane Wisconsin South (US Feet))  
 NORTHING 2172235.807  
 EASTING 404864.6702  
 VERTICAL DATUM (NGVD 29 (US Feet)) ELEVATION 856.192 ft

BOREHOLE DEPTH 20 ft  
 BOREHOLE DIAMETER 2.5 in  
 DEPTH TO WATER (INITIAL)  $\nabla$   
 DEPTH TO WATER (FINAL)  $\nabla$  7.07 ft 10:45 09/11/2017

BORING LOG KRAFT HEINZ FOODS COMPANY.GPJ ERM DATA TEMPLATE\_GDT 9/26/17

DEPTH ELEVATION	STRATA DESCRIPTION	DEPTH	USCS	GRAPHIC LOG	SAMPLING DATA			Observations / Remarks
					SAMPLE TYPE	RECOVERY	PID (ppm) 10.6 eV Lamp	
855	[Asphalt with gravel sub-base]	0.5						
	SANDY GRAVEL (GW) gray	1.5	GW					
	SILT (OL)						1.5	
5							1.2	
850							23/48	
							1	
	SILTY CLAY (SC) grayish green, [Soft, wet]	8					0.6	
10							29/48	
845							40/48	
							2	
15							40/48	
840							2.2	
	SILTY CLAY (CL-ML) [Abundant pebbles, firm]	18					48/48	
20								
835	[End of Boring at 20' bgs]	20						
25								
830								

REMARKS:  
 Installed temporary monitoring well screened from 6-16' bgs

LAB ANALYSIS:

Auger Cuttings      Direct push geoprobe sample



PROJECT:  
 Reich Brothers, LLC  
 Thompson Hine, LLP  
 Phase II Environmental Site Assessment  
 910 Mayer Street, Madison, WI

BORING # **SB-55**  
 ERM PROJECT # 0403363  
 SHEET 1 OF 1

DRILLING CONTRACTOR Geoserve, Inc.  
 Woodstock, Illinois  
 DRILLING FOREMAN Eduardo Deulbe  
 DRILLING METHOD Direct Push  
 DRILLING EQUIPMENT Geoprobe 7822 DT

ERM REPRESENTATIVE Carl Stay  
 OFFICE LOCATION Milwaukee, WI  
 DATE: START 09/07/2017  
 FINISH 09/07/2017

HORIZONTAL DATUM (NAD 1983 StatePlane Wisconsin South (US Feet))  
 NORTHING 2172232.45  
 EASTING 404930.9681  
 VERTICAL DATUM (NGVD 29 (US Feet)) ELEVATION 855.942 ft

BOREHOLE DEPTH 20 ft  
 BOREHOLE DIAMETER 2.5 in  
 DEPTH TO WATER (INITIAL)  $\nabla$   
 DEPTH TO WATER (FINAL)  $\nabla$  7.29 ft 10:48 09/11/2017

BORING LOG KRAFT HEINZ FOODS COMPANY.GPJ ERM DATA TEMPLATE\_GDT 9/26/17

DEPTH ELEVATION	STRATA DESCRIPTION	DEPTH	USCS	GRAPHIC LOG	SAMPLING DATA			Observations / Remarks
					SAMPLE TYPE	RECOVERY	PID (ppm) 10.6 eV Lamp	
855	[Asphalt with gravel sub-base]	0.5						Asphalt with gravel sub-base
	CLAY (GW) gray		GW				2.4	
	(CL) reddish brown, [Fill with glass fragments, cinders]	3.5						
5			CL				4.7	
850	CLAYEY SILT (CL-ML)	6				11/48	3.8	
	CLAYEY SAND (SC) [Upper part appears to be fill. Occasional pebbles]	8					18	
10			SC			20/48	18	
845								Petroleum Odor
	CLAYEY SAND (SC) light brown, [Occasional pebbles]	12					22.4	
15			SC			48/48	22.4	
840								Petroleum Odor
	CLAYEY SILT (ML) [Occasional pebbles]	16					15.7	
			ML					
20	[End of boring at 20' bgs]	20						
835								
25								
830								

REMARKS:  
 Installed temporary monitoring well screened from 6-16' bgs.

LAB ANALYSIS:

Auger Cuttings      Direct push geoprobe sample





PROJECT:  
 Reich Brothers, LLC  
 Thompson Hine, LLP  
 Phase II Environmental Site Assessment  
 910 Mayer Street, Madison, WI

BORING # **SB-56**  
 ERM PROJECT # 0403363  
 SHEET 1 OF 1

DRILLING CONTRACTOR Geoserve, Inc.  
 Woodstock, Illinois  
 DRILLING FOREMAN Eduardo Deulbe  
 DRILLING METHOD Direct Push  
 DRILLING EQUIPMENT Geoprobe 7822 DT

ERM REPRESENTATIVE Carl Stay  
 OFFICE LOCATION Milwaukee, WI  
 DATE: START 09/07/2017  
 FINISH 09/07/2017

HORIZONTAL DATUM (NAD 1983 StatePlane Wisconsin South (US Feet))  
 NORTHING 2172339.444  
 EASTING 404901.8366  
 VERTICAL DATUM (NGVD 29 (US Feet)) ELEVATION 856.396 ft

BOREHOLE DEPTH 16 ft  
 BOREHOLE DIAMETER 2.5 in  
 DEPTH TO WATER (INITIAL)  $\nabla$   
 DEPTH TO WATER (FINAL)  $\nabla$  8 ft 10:51 09/11/2017

DEPTH ELEVATION	STRATA DESCRIPTION	DEPTH	USCS	GRAPHIC LOG	SAMPLING DATA			Observations / Remarks
					SAMPLE TYPE	RECOVERY	PID (ppm) 10.6 eV Lamp	
	Hard, [Asphalt with gravel sub-base]	0.5						
855	GRAVELLY SAND (SP) hard, moist, brown					48/48	2.1	
5							2	
850			SP			48/48	1.8	
							2.2	
10						48/48	2.5	
845							2.5	
15	SILT (ML) loose	14.3	ML			48/48	1.6	
	GRAVELLY SAND (GP-SP) loose	15	GP-SP					
840	[End of boring at 16' bgs]	16						
		18						
20								
835								
25								
830								

REMARKS:  
 Installed temporary monitoring well screened from 5-15' bgs.

LAB ANALYSIS:

Auger Cuttings      Direct push geoprobe sample

BORING LOG KRAFT HEINZ FOODS COMPANY.GPJ ERM DATA TEMPLATE.GDT 9/26/17







PROJECT:  
 Reich Brothers, LLC  
 Thompson Hine, LLP  
 Phase II Environmental Site Assessment  
 910 Mayer Street, Madison, WI

BORING # **SB-58**  
 ERM PROJECT # 0403363  
 SHEET 1 OF 1

DRILLING CONTRACTOR Geoserve, Inc.  
 Woodstock, Illinois  
 DRILLING FOREMAN Eduardo Deulbe  
 DRILLING METHOD Direct Push  
 DRILLING EQUIPMENT Geoprobe 7822 DT

ERM REPRESENTATIVE Carl Stay  
 OFFICE LOCATION Milwaukee, WI  
 DATE: START 09/07/2017  
 FINISH 09/07/2017

HORIZONTAL DATUM (NAD 1983 StatePlane Wisconsin South (US Feet))  
 NORTHING 2172363.141  
 EASTING 405412.9088  
 VERTICAL DATUM (NGVD 29 (US Feet)) ELEVATION 854.459 ft

BOREHOLE DEPTH 16 ft  
 BOREHOLE DIAMETER 2.5 in  
 DEPTH TO WATER (INITIAL) 6 ft  
 DEPTH TO WATER (FINAL) 5.12 ft

DEPTH ELEVATION	STRATA DESCRIPTION	DEPTH	USCS	GRAPHIC LOG	SAMPLING DATA			Observations / Remarks
					SAMPLE TYPE	RECOVERY	PID (ppm) 10.6 eV Lamp	
	[Asphalt with gravel sub-base]	0.5						
	SANDY GRAVEL (SM)	2	SM					
	SANDY SILT (SM) brown (10YR 4/3)	4	SM			0.6		
850	PEAT black (10YR 2/1), [organic]	4.5					7	
5	CLAY (CL) grayish green (10G 5/1)	6	CL		16/48			
	GRAVELLY SAND (CL) brown (10YR 4/4), [Saturated]	7.7	CL			1.4		
	SAND (SP) brown (10YR 4/3), [Saturated]					2.6		
845						28/48	1.5	
10							1.7	
840						20/48	1.7	
15								
	[End of boring at 16' bgs]	16						
		18						
835								
20								
830								
25								
825								

REMARKS:  
 Installed temporary monitoring well screened from 4-14' bgs.

LAB ANALYSIS:

Auger Cuttings      Direct push geoprobe sample

BORING LOG KRAFT HEINZ FOODS COMPANY.GPJ ERM DATA TEMPLATE.GDT 9/26/17



PROJECT:  
 Reich Brothers, LLC  
 Thompson Hine, LLP  
 Phase II Environmental Site Assessment  
 910 Mayer Street, Madison, WI

BORING # **SB-59**  
 ERM PROJECT # 0403363  
 SHEET 1 OF 1

DRILLING CONTRACTOR Geoserve, Inc.  
 Woodstock, Illinois  
 DRILLING FOREMAN Eduardo Deulbe  
 DRILLING METHOD Direct Push  
 DRILLING EQUIPMENT Geoprobe 7822 DT

ERM REPRESENTATIVE Carl Stay  
 OFFICE LOCATION Milwaukee, WI  
 DATE: START 09/07/2017  
 FINISH 09/07/2017

HORIZONTAL DATUM (NAD 1983 StatePlane Wisconsin South (US Feet))  
 NORTHING 2172274.623  
 EASTING 405486.6011  
 VERTICAL DATUM (NGVD 29 (US Feet)) ELEVATION 854.076 ft

BOREHOLE DEPTH 16 ft  
 BOREHOLE DIAMETER 2.5 in  
 DEPTH TO WATER (INITIAL)  $\nabla$   
 DEPTH TO WATER (FINAL)  $\nabla$  5.12 ft 10:57 09/11/2017

DEPTH ELEVATION	STRATA DESCRIPTION	DEPTH	USCS	GRAPHIC LOG	SAMPLING DATA			Observations / Remarks
					SAMPLE TYPE	RECOVERY	PID (ppm) 10.6 eV Lamp	
	[Asphalt with gravel sub-base]	0.5						
	SANDY GRAVEL (GW) tan, [Well compacted gravel sub-base]	2	GW					
	CLAY (CL) brown		CL			3.1		
5		5.5				4.7		
	SILTY SAND (SW-SM) brown		SW-SM		24/48	9.1		
10					48/48	9.5		
					48/48	37.2		
15					48/48	3.8		
	[End of boring at 16' bgs]	16						
20		18						
25								
825								

REMARKS:  
 Installed temporary monitoring well screened from 3-13' bgs.

LAB ANALYSIS:

Auger Cuttings      Direct push geoprobe sample

BORING LOG KRAFT HEINZ FOODS COMPANY.GPJ ERM DATA TEMPLATE.GDT 9/26/17





PROJECT:  
 Reich Brothers, LLC  
 Thompson Hine, LLP  
 Phase II Environmental Site Assessment  
 910 Mayer Street, Madison, WI

BORING # **SB-60**  
 ERM PROJECT # 0403363  
 SHEET 1 OF 1

DRILLING CONTRACTOR Geoserve, Inc.  
 Woodstock, Illinois  
 DRILLING FOREMAN Eduardo Deulbe  
 DRILLING METHOD Direct Push  
 DRILLING EQUIPMENT Geoprobe 7822 DT

ERM REPRESENTATIVE Carl Stay  
 OFFICE LOCATION Milwaukee, WI  
 DATE: START 09/07/2017  
 FINISH 09/07/2017

HORIZONTAL DATUM (NAD 1983 StatePlane Wisconsin South (US Feet))  
 NORTHING 2172368.732  
 EASTING 405612.5892  
 VERTICAL DATUM (NGVD 29 (US Feet)) ELEVATION 855.507 ft

BOREHOLE DEPTH 20 ft  
 BOREHOLE DIAMETER 2.5 in  
 DEPTH TO WATER (INITIAL)  $\nabla$   
 DEPTH TO WATER (FINAL)  $\nabla$  6.79 ft 11:00 09/11/2017

BORING LOG KRAFT HEINZ FOODS COMPANY.GPJ ERM DATA TEMPLATE.GDT 9/26/17

DEPTH ELEVATION	STRATA DESCRIPTION	DEPTH	USCS	GRAPHIC LOG	SAMPLING DATA			Observations / Remarks
					SAMPLE TYPE	RECOVERY	PID (ppm) 10.6 eV Lamp	
855	[Asphalt with gravel sub-base]	0.5						
	SANDY GRAVEL (GW) light brown, [Well compacted]	2	GW					
	SAND (SW) brown		SW			2.6		
5 850						1.7		
	CLAY (CL) grayish green, [Soft]	7	CL		17/48	2.2		
10 845						55.1		
	SAND (SP-SC) [Intervals of silt, sand and clay, saturated.]	12	SP-SC		32/48	463.5		
						43.2		
15 840						48/48		
	SAND (SP) [Saturated]	16	SP			2.7		
	SILTY SAND (SM) [Occasional pebbles, saturated]	18.5	SM		48/48			
20 835	[End of boring at 20' bgs]	20						
		22						
25 830								

REMARKS:  
 Installed temporary monitoring well screened from 9-19' bgs.

LAB ANALYSIS:

Auger Cuttings      Direct push geoprobe sample



PROJECT:  
 Reich Brothers, LLC  
 Thompson Hine, LLP  
 Phase II Environmental Site Assessment  
 910 Mayer Street, Madison, WI

BORING # **SB-61**  
 ERM PROJECT # 0403363  
 SHEET 1 OF 1

DRILLING CONTRACTOR Geoserve, Inc.  
 Woodstock, Illinois  
 DRILLING FOREMAN Eduardo Deulbe  
 DRILLING METHOD Direct Push  
 DRILLING EQUIPMENT Geoprobe 7822 DT

ERM REPRESENTATIVE Carl Stay  
 OFFICE LOCATION Milwaukee, WI  
 DATE: START 09/07/2017  
 FINISH 09/07/2017

HORIZONTAL DATUM (NAD 1983 StatePlane Wisconsin South (US Feet))  
 NORTHING 2172221.291  
 EASTING 405598.0515  
 VERTICAL DATUM (NGVD 29 (US Feet)) ELEVATION 855.56 ft

BOREHOLE DEPTH 20 ft  
 BOREHOLE DIAMETER 2.5 in  
 DEPTH TO WATER (INITIAL) ▽  
 DEPTH TO WATER (FINAL) ▽ 6.67 ft 11:01 09/11/2017

BORING LOG KRAFT HEINZ FOODS COMPANY.GPJ ERM DATA TEMPLATE\_GDT 9/26/17

DEPTH ELEVATION	STRATA DESCRIPTION	DEPTH	USCS	GRAPHIC LOG	SAMPLING DATA			Observations / Remarks
					SAMPLE TYPE	RECOVERY	PID (ppm) 10.6 eV Lamp	
855	[Asphalt with gravel sub-base]	0.5	GW					
	SANDY GRAVEL (GW) [Well compacted gravel sub-base]	2	SC-SM				3.4	
	SILTY SAND (SC-SM)	4	CL-ML				9.2	
5	SILTY CLAY (CL-ML)	6	CL			19/48	6.3	
850	CLAY (CL) grayish green						2.8	
						36/48	2.7	
10	SILTY SAND (SW) brown	12	SW			35/48	5.9	
845							42.5	
15	SAND (SP) brown	16	SP			48/48		
840								
20	[End of boring at 20' bgs]	20						
		22						
25								
830								

REMARKS:  
 Installed temporary monitoring well screened from 9-19' bgs.

LAB ANALYSIS:

Auger Cuttings      Direct push geoprobe sample





PROJECT:  
 Reich Brothers, LLC  
 Thompson Hine, LLP  
 Phase II Environmental Site Assessment  
 910 Mayer Street, Madison, WI

BORING # **SB-62**  
 ERM PROJECT # 0403363  
 SHEET 1 OF 1

DRILLING CONTRACTOR Geoserve, Inc.  
 Woodstock, Illinois  
 DRILLING FOREMAN Eduardo Deulbe  
 DRILLING METHOD Direct Push  
 DRILLING EQUIPMENT Geoprobe 7822 DT

ERM REPRESENTATIVE Carl Stay  
 OFFICE LOCATION Milwaukee, WI  
 DATE: START 09/07/2017  
 FINISH 09/07/2017

HORIZONTAL DATUM (NAD 1983 StatePlane Wisconsin South (US Feet))  
 NORTHING 2172221.698  
 EASTING 405654.5987  
 VERTICAL DATUM (NGVD 29 (US Feet)) ELEVATION 855.406 ft

BOREHOLE DEPTH 20 ft  
 BOREHOLE DIAMETER 2.5 in  
 DEPTH TO WATER (INITIAL)  $\nabla$   
 DEPTH TO WATER (FINAL)  $\nabla$  5.6 ft 11:04 09/11/2017

BORING LOG KRAFT HEINZ FOODS COMPANY.GPJ ERM DATA TEMPLATE.GDT 9/26/17

DEPTH ELEVATION	STRATA DESCRIPTION	DEPTH	USCS	GRAPHIC LOG	SAMPLING DATA			Observations / Remarks
					SAMPLE TYPE	RECOVERY	PID (ppm) 10.6 eV Lamp	
855	[Asphalt with gravel sub-base]	0.5	GW					
	SANDY GRAVEL (GW)	2						
	CLAYEY SAND (SW-SC)		SW-SC			6.1		
5						6.6		
850	CLAY (CL) greenish gray	5.5				1.6		
			CL			2.2		
10						2.2		
	SAND (SP)	13	SP			1.8		
	CLAY (CL) greenish gray	14	CL			37/48		
15			SP			1.8		
840	SANDY CLAY (SC)	16	SC			2.1		
	SAND (SP) brown	17	SP			48/48		
20						2.1		
835	[End of boring at 20' bgs]	20						
		22						
25								
830								

REMARKS:  
 Installed temporary monitoring well screened from 10-20' bgs.

LAB ANALYSIS:

Auger Cuttings      Direct push geoprobe sample



PROJECT:  
 Reich Brothers, LLC  
 Thompson Hine, LLP  
 Phase II Environmental Site Assessment  
 910 Mayer Street, Madison, WI

BORING # **SB-63**  
 ERM PROJECT # 0403363  
 SHEET 1 OF 1

DRILLING CONTRACTOR Geoserve, Inc.  
 Woodstock, Illinois  
 DRILLING FOREMAN Eduardo Deulbe  
 DRILLING METHOD Direct Push  
 DRILLING EQUIPMENT Geoprobe 7822 DT

ERM REPRESENTATIVE Carl Stay  
 OFFICE LOCATION Milwaukee, WI  
 DATE: START 09/07/2017  
 FINISH 09/07/2017

HORIZONTAL DATUM (NAD 1983 StatePlane Wisconsin South (US Feet))  
 NORTHING 2172265.07  
 EASTING 405665.368  
 VERTICAL DATUM (NGVD 29 (US Feet)) ELEVATION 854.89 ft

BOREHOLE DEPTH 16 ft  
 BOREHOLE DIAMETER 2.5 in  
 DEPTH TO WATER (INITIAL)  $\nabla$   
 DEPTH TO WATER (FINAL)  $\nabla$  6.9 ft 11:05 09/11/2017

DEPTH ELEVATION	STRATA DESCRIPTION	DEPTH	USCS	GRAPHIC LOG	SAMPLING DATA			Observations / Remarks
					SAMPLE TYPE	RECOVERY	PID (ppm) 10.6 eV Lamp	
	[Asphalt with gravel sub-base]	0.5						
	SILTY CLAY (CL-ML)		CL-ML				1.8	
5 850	SAND (SW)	4	SW				1.7	
	PEAT black	5.5				0/48		
	CLAY (CL) grayish green	6	CL				4.5	
	SILT (ML) grayish green	7.5	ML				2.2	
10 845						24/48	2.2	
	SAND (SW)	11.5	SW					
	CLAYEY SILT (CL-ML)	12	CL-ML				1.8	
	SAND (SW)	12.5	SW				1.8	
15 840						23/48		
	[End of boring at 16' bgs]	16					1.3	
		18					1.3	
20 835								
25 830								
825								

REMARKS:  
 Installed temporary monitoring well screened from 8-18' bgs.

LAB ANALYSIS:

Auger Cuttings      Direct push geoprobe sample

BORING LOG KRAFT HEINZ FOODS COMPANY.GPJ ERM DATA TEMPLATE.GDT 9/26/17



*APPENDIX D      MAP OF FORMER FILLING STATION  
LOCATIONS (1959)*







**APPENDIX J**

**BRRTS #02-13-524010  
Madison Metro North Transfer Point  
Continuing Obligations Packet**



## GIS REGISTRY INFORMATION

<b>SITE NAME:</b>	Madison Metro North Transfer Point			<b>FID #</b>	
<b>BRRTS #:</b>	02-13-524010		<b>(if appropriate):</b>		
<b>COMMERCE #</b> <small>(if appropriate):</small>	53704-9999-01				
<b>CLOSURE DATE:</b>	February 8, 2006				
<b>STREET ADDRESS:</b>	1201 Huxley Street				
<b>CITY:</b>	Madison				
<b>SOURCE PROPERTY GPS COORDINATES</b> <small>(meters in WTM91 projection):</small>	<b>X =</b>	572205	<b>Y =</b>	293480	
<b>CONTAMINATED MEDIA:</b>	Groundwater	<input type="checkbox"/>	Soil	<input type="checkbox"/>	Both <input checked="" type="checkbox"/>
<b>OFF-SOURCE GW CONTAMINATION &gt;ES:</b>	Yes	<input checked="" type="checkbox"/>	No	<input checked="" type="checkbox"/>	
• <b>IF YES, STREET ADDRESS:</b>					
• <b>GPS COORDINATES</b> <small>(meters in WTM91 projection):</small>					
	<b>X =</b>		<b>Y =</b>		
<b>OFF-SOURCE SOIL CONTAMINATION</b> <b>&gt;Generic or Site-Specific RCL (SSRCL):</b>	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	
• <b>IF YES, STREET ADDRESS 1:</b>					
• <b>GPS COORDINATES</b> <small>(meters in WTM91 projection):</small>					
	<b>X =</b>		<b>Y =</b>		
<b>CONTAMINATION IN RIGHT OF WAY:</b>	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	
<b><u>DOCUMENTS NEEDED</u></b>					
Closure Letter, and any conditional closure letter issued or denial letter issued.					<input checked="" type="checkbox"/>
Copy of most recent deed, including legal description, for all affected properties					<input checked="" type="checkbox"/>
Certified survey map or relevant portion of the recorded plat map <i>(if referenced in the legal description)</i> for all affected properties					<input checked="" type="checkbox"/>
County Parcel ID number, <i>if used for county</i> , for all affected properties					<input checked="" type="checkbox"/>
<b>Location Map</b> which outlines all properties within contaminated site boundaries on USGS topographic map or plat map in sufficient detail to permit the parcels to be located easily (8.5x14" if paper copy). If groundwater standards are exceeded, the map must also include the location of all municipal and potable wells within 1200' of the site.					<input checked="" type="checkbox"/>
<b>Detailed Site Map(s) for all affected properties</b> , showing buildings, roads, property boundaries, contaminant sources, utility lines, monitoring wells and potable wells. (8.5x14", if paper copy) This map shall also show the location of all contaminated public streets, highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination exceeding ch. NR 140 ESs and soil contamination exceeding ch. NR 720 generic or SSRCLs.					<input checked="" type="checkbox"/>
Tables of Latest Groundwater Analytical Results (no shading or cross-hatching)					<input checked="" type="checkbox"/>
Tables of Latest Soil Analytical Results (no shading or cross-hatching)					<input checked="" type="checkbox"/>
<b>Isoconcentration map(s), if required for site investigation (SI)</b> (8.5x14" if paper copy). The isoconcentration map should have flow direction and extent of groundwater contamination defined. If not available, include the latest extent of contaminant plume map.					<input checked="" type="checkbox"/>
GW: Table of water level elevations, with sampling dates, and free product noted if present					<input checked="" type="checkbox"/>
GW: Latest groundwater flow direction/monitoring well location map (should be 2 maps if maximum variation in flow direction is greater than 20 degrees)					<input checked="" type="checkbox"/>
SOIL: Latest horizontal extent of contamination exceeding generic or SSRCLs, with one contour					<input checked="" type="checkbox"/>
Geologic cross-sections, <i>if required for SI</i> . (8.5x14' if paper copy)					<input checked="" type="checkbox"/>
RP certified statement that legal descriptions are complete and accurate.					<input checked="" type="checkbox"/>
Copies of off-source notification letters (if applicable)					<input checked="" type="checkbox"/>
Letter informing ROW owner of residual contamination (if applicable)(public, highway or railroad ROW)					<input checked="" type="checkbox"/>
Copy of (soil or land use) deed restriction (s) or deed notice if any required as a condition of closure					NA
Copy of any maintenance plan referenced in the deed restriction					NA



February 8, 2006

James Chritton  
Kraft Foods North America, Inc.  
Oscar Mayer Foods  
PO Box 7188  
Madison, WI 53707-7188

**RE: Final Closure**

**Commerce # 53704-9999-01**      WDNR BRRTS # 02-13-524010  
Madison Metro North Transfer Point, 1201 Huxley Street, Madison

Dear Mr. Chritton:

The Wisconsin Department of Commerce (Commerce) has received all items required as conditions for closure of the site referenced above. This case is now listed as "closed" on the Commerce database and will be included on the Wisconsin Department of Natural Resources (WDNR) Geographic Information System (GIS) Registry of Closed Remediation Sites to address residual contamination. It is in your best interest to keep all documentation related to the environmental activities that were conducted.

Commerce has not received monitoring well abandonment documentation for monitoring well MW-3. In accordance with the letter dated January 12, 2006 from your consultant BT<sup>2</sup>, Inc., Oscar Mayer Foods owns and has responsibility for monitoring well MW-3 for a groundwater investigation and monitoring program. Therefore, Oscar Mayer Foods has abandonment liability.

If residual contamination is encountered in the future, it must be managed in accordance with all applicable state and federal regulations. If it is determined that any remaining contamination poses a threat, the case may be reopened and further investigation or remediation may be required.

Thank you for your efforts to bring this case to closure. If you have any questions, please contact me in writing at the letterhead address or by telephone at (608) 261-5405.

Sincerely,

Jon Heberer  
Hydrogeologist  
Site Review Section

cc: Rob Sherman, Kraft Foods North America, Incorporated  
John B. Tweddle, P.G., BT<sup>2</sup>, Inc.  
Case File





December 6, 2005

James Chritton  
Oscar Mayer Foods  
PO Box 7188  
Madison, WI 53707-7188

RE: **Conditional Case Closure**

**Commerce # 53704-9999-01**                      **WDNR BRRTS # 02-13-524010**  
Madison Metro North Transfer Point, 1201 Huxley Street, Madison

Dear Mr. Chritton:

The Wisconsin Department of Commerce (Commerce) has reviewed the request for case closure prepared by your consultant, No Consultant found, for the site referenced above. It is understood that residual soil and/or groundwater contamination remains on-site. Commerce has determined that this site does not pose a significant threat to the environment and human health. No further investigation or remedial action is necessary.

If residual contamination is encountered in the future, it must be managed in accordance with all applicable state and federal regulations. If it is determined that any remaining contamination poses a threat, the case may be reopened and further investigation or remediation may be required.

**The following condition must be satisfied to obtain final closure:**

- All monitoring wells must be properly abandoned. The appropriate documentation must be forwarded to the letterhead address.

This letter serves as your written notice of "no further action". Timely filing of your final PECFA claim (if applicable) is encouraged. If your claim is not received within 120 days of the date of this letter, interest costs incurred after 60 days of the date of this letter will not be eligible for PECFA reimbursement.

If you have any questions, please contact me in writing at the letterhead address or by telephone at (608) 261-5405.

Sincerely,

Jon Heberer  
Hydrogeologist  
Site Review Section

cc: Rob Sherman, Kraft Foods North America, Incorporated  
John B. Tweddale, P.G., BT<sup>2</sup>, Inc.  
Case File

DOCUMENT NO.

1747382

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STATE BAR OF WISCONSIN - FORM 2  
WARRANTY DEED  
THIS SPACE RESERVED FOR RECORDING DATA  
REGISTRY'S OFFICE  
DANE COUNTY, WIS. SS  
RECORDED ON

AUG 2 9 27 AM '82

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CAT. OF INSTRUMENTS  
REGISTER OF DEEDS

BY THIS DEED, Oscar Mayer & Co. Inc., a Delaware corporation a/k/a Oscar Mayer & Co., Inc. a/k/a Oscar Mayer & Co. a/k/a Oscar Mayer & Company and sometimes referred to as a Wisconsin corporation, Grantor conveys and warrants to Oscar Mayer Foods Corporation, a Delaware corporation

for a valuable consideration \_\_\_\_\_  
the following described real estate in Dane County, State of Wisconsin:

RETURN TO  
George R. Kampschroer  
P.O. Box 927  
Madison, WI 53701

Tax Key # \_\_\_\_\_  
This is not homestead property.

See Attached Exhibit A

Tax Exempt No. 7

FEE  
# 7  
EXEMPT

Exception to warranties: Municipal and zoning ordinances, public utility easements of record and general taxes for 1981.

Executed at Madison, Wisconsin this 30th day of December, 1981

SIGNED AND SEALED IN PRESENCE OF

By: W. M. Hofacre (SEAL)  
W. M. Hofacre, Group Vice President

Attest: Ellen A. Ryan (SEAL)  
Ellen A. Ryan, Assistant Secretary

Signatures of W. M. Hofacre and Ellen A. Ryan

authenticated this 30th day of December, 1981

Timothy G. Kohl  
Title: Member State Bar of Wisconsin or Other Party  
Authorized under Sec. 706.06 viz. \_\_\_\_\_

STATE OF WISCONSIN

Personally came before me, this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_,  
the above named \_\_\_\_\_

to me known to be the person \_\_\_\_\_ who executed the foregoing instrument and acknowledged the same.

This instrument was drafted by \_\_\_\_\_

George R. Kampschroer

Notary Public \_\_\_\_\_ County, Wis.

My Commission (Expires) (to) \_\_\_\_\_

The use of witnesses is optional.  
Names of persons signing in any capacity should be typed or printed below their signatures.

FURNISHED BY



*pd 19 50 ch*



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EXHIBIT APARCEL 1. [Tax Key #0810-313-0101-3]:

(a) Part of the East 1/2 of the Southwest 1/4 of Section 31, Township 8 North, Range 10 East, in the City of Madison, Dane County, Wisconsin, more fully described as follows: Beginning at the point of intersection of the South line of said Section 31 with the East right of way line of the Chicago, Milwaukee, St. Paul and Pacific Railroad Company; thence East, along said South line, 1004 feet more or less to point 66 feet West from the East line of said Southwest 1/4; thence North, parallel with said East line, to the most Southerly corner of lands conveyed to City of Madison in Warranty Deed recorded in Volume 800 of Deeds, page 587, as Document No. 1133433; thence North 51° 11' West 127.2 feet to a point of curve; thence on a curve to the left, convex to the Northeast, having a radius of 261.4 feet and a long chord that bears North 70° 25' West 172.3 feet to point in a line that is parallel with and 33 feet South of measured at right angles to the North line of said Southwest 1/4; thence West, parallel with said North line, to point of intersection with the East right of way line of said railroad; thence Southwesterly, along said right of way line to the point of beginning.

Together with and subject to an Easement Agreement recorded in Volume 330 of Misc., page 571, as Document No. 977551 and Modification of Easement Agreement recorded in Volume 339 of Misc., page 277, as Document No. 983420.

(b) Part of the Northeast 1/4 of the Southwest 1/4 of Section 31, Township 8 North, Range 10 East, in the City of Madison, Dane County, Wisconsin, being Vacated Packers Avenue, described in Resolution recorded in Volume 469 of Misc., page 1, as Document No. 1191910.

(c) Part of Vacated Roth Street, part of Outlot One (1), part of Lot One (1), and all of Lots Two (2), Three (3), and Four (4), Block Three (3), Woodland, all in the City of Madison, Dane County, Wisconsin, more fully described as follows: Beginning at the Southwest corner of said Outlot 1; thence South, along the extended West line of said Outlot, 0.3 feet to a point of curve described in Volume 272 of Records, page 167, as Document No. 1299257; thence on a curve to the right, convex to the Northeast, having a radius of 60.00 feet and a long chord that bears South 39° 15' 39" East 84.85 feet to point on North line of said Block 3; thence West, along said North line, 10 feet to Northeast corner of said Lot 1; thence South, along East line of said Lot 1, 10 feet; thence Southwesterly to point on West line of said Lot 1, last mentioned point being 10 feet North of the South line of said Lot 1; thence South, along said West line, to Southwest corner of said Lot 1; thence East, along the South line of Lots 1, 2, 3 and 4, to the Southeast corner of said Lot 4; thence North, along East line of said Lot 4 and said East line extended across Vacated Roth

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Street, to point 60 feet North of the North line of Vacated Roth Street; thence on curve to the left, convex to the East, having a radius of 1899 feet and a chord which bears North 0° 50' West 51 feet to point of intersection with a line that is parallel with and 111 feet North of the North line of Vacated Roth Street; thence continue along same curve to the left the chord of which bears North 3° 31' West 178.2 feet to a point on the South line of the North 224 feet of said Outlot 1 which is 164.6 feet East of the West line of said Outlot 1; thence continue along same curve to the left the chord of which bears North 11° 02' West 228.2 feet to the point of intersection with the North line of said Outlot; thence West, along said North line, 121.2 feet to the Northwest corner of said Outlot; thence South, along the West line of said Outlot 1, 513 feet to the point of beginning.

(d) Part of the Northwest 1/4 of the Southeast 1/4 of Section 31, Township 8 North, Range 10 East, in the City of Madison, Dane County, Wisconsin, described as follows: Beginning at the Northwest corner of the plat of Woodland; thence East, along the North line of said plat, 112.3 feet; thence on a curve to the left, convex to the Northeast, having a radius of 1899 feet and a chord which bears North 15° 48' West 55.7 feet; thence North 16° 42' West 337.5 feet to point on East line of Vacated Packers Avenue; thence South, along said East line, 380.9 feet to the point of beginning.

(e) Vacated Mackin Street, in the plat of Woodland, lying West of the Westerly right of way line of Wisconsin State Highway 113, all in the City of Madison, Dane County, Wisconsin.

PARCEL 2. [Tax Key #0810-313-0102-1]:

(a) Lots One (1), Seventeen (17), Eighteen (18), Nineteen (19), and Twenty (20), Block Two (2), Lots One (1), Two (2), Three (3), Eighteen (18), Nineteen (19) and that part of Lot Seventeen (17) lying West of the West line of Wisconsin State Highway No. 113 as presently located, all in Block One (1), all in the plat of Woodland, in the City of Madison, Dane County, Wisconsin.

(b) Part of the Southwest 1/4 of the Southeast 1/4 of Section 31, Township 8 North, Range 10 East, in the City of Madison, Dane County, Wisconsin, more fully described as follows: Beginning at the South quarter corner of said Section; thence North 00° 04' 23" West, along the North-South quarter line of said Section to the intersection with the Southwest right of way line of Vacated Mayer Avenue; thence South 53° 07' 18" East, along said Southwest right of way line, 221.63 feet to the West right of way line of Wisconsin State Highway #113; thence South 00° 03' 43" East, along said right of way line, 124.06 feet to point of curve; thence Southerly along said right of way line on a curve



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to the right, convex to the East, having a radius of 1,382.39 feet and a chord which bears South 09° 58' 42" West 482.02 feet, to its point of intersection with the North right of way line of Commercial Ave. Last mentioned point being North 89° 50' 49" East, 92.04 feet from said North-South quarter line; thence continued Southerly along said right of way line on same curve to South line of said Section; thence South 89° 50' 49" West along said South line to the point of beginning.

(c) All that part of Vacated Coolidge Street, Vacated Mayer Avenue and Vacated Packers Avenue located in the plat of Woodland and in the East 1/2 of the Southwest 1/4 and the Southwest 1/4 of the Southeast 1/4, all in Section 31, Township 8 North, Range 10 East, in the City of Madison, Dane County, Wisconsin, as set forth in Resolutions recorded in Volume 469 of Misc., page 4, as Document No. 1191911, Volume 469 of Misc., page 7, as Document No. 1191912, and Volume 386 of Records, page 507, as Document No. 1343896.

PARCEL 3.

(a) [Tax Key #Part of 0810-314-0098-0]: All that part of the Southeast 1/4 of Section 31, Township 8 North, Range 10 East, in the City of Madison, Dane County, Wisconsin, which is bounded by lands conveyed to the City of Madison in Volume 800 of Deeds, page 592, as Document No. 1133435 and Volume 800 of Deeds, page 583, as Document No. 1133430, on the North and East, by North line of First Addition to John W. Tilton Subdivision on the South, and East line of plat of Woodland on the West.

(b) [Tax Key #Part of 0810-314-0099-6]: Part of Outlot Two (2), Woodland, in the City of Madison, Dane County, Wisconsin, more fully described as follows: Beginning at the Northeast corner of said Outlot; thence West 70.4 feet, along the North line of said Outlot; thence along a curve to the left convex to the Northwest having a radius of 87 feet and a long chord that bears South 19° 48' West 17 feet; thence along a curve to the left convex to the Northwest having a radius of 703.2 feet and a long chord that bears South 14° 12' West 226.2 feet; thence South 4° 56' West 168.53 feet to the North line of the South 111 feet of said Outlot; thence East along the North line of said South 111 feet to point on the East line of said Outlot; thence North along said East line to the point of beginning.

(c) [Tax Key #Part of 0810-314-0098-0]: Part of Vacated Mackin Street, in the plat of Woodland and part of the Northwest 1/4 of the Southeast 1/4, all in Section 31, Township 8 North, Range 10 East, in the City of Madison, Dane County, Wisconsin, more fully described as follows: Beginning at a point on the East line of said plat 9.1 feet South of the Northeast corner thereof; thence

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continue South, along said East line 23.9 feet to the Southeast corner of Vacated Mackin Street in said plat; thence West, along the South line of said Street, 70.4 feet; thence along a curve to the right convex to the Northwest having a radius of 87 feet to a point of intersection with a line bearing North 51° 11' West from the point of beginning; thence South 51° 11' East along the Southwest right of way Aberg Avenue to the point of beginning.

(d) [No Tax Key #]: Part of Vacated Mackin Street, in the plat of Woodland, in the City of Madison, Dane County, Wisconsin, more fully described as follows: Beginning at the Northeast corner of said Vacated Street; thence South, along the East line of said plat, 9.1 feet; thence North 55° 11' West to the North line of said plat; thence East, along said North line to point of beginning.

PARCEL 4. [Tax Key #0810-323-0083-2]:

All that part of the East 1/2 of the Southeast 1/4 of Section 31 East of Certified Survey Map #3903 recorded in Volume 16 of Certified Survey Maps, pages 126 and 127, as Document No. 1735559 and North of lands sold to City of Madison in Volume 800 of Deeds, page 592, as Document No. 1133435 and all that part of the West 1/2 of the West 1/2 of the Southwest 1/4 of Section 32, lying North of lands conveyed to City of Madison in said Document No. 1133435, all in Township 8 North, Range 10 East, in the City of Madison, Dane County, Wisconsin.

PARCEL 5.

(a) [Tax Key #0810-314-0105-3]: Lot Eight (8), and the West 1/2 of Lot Nine (9), Block Three (3), Woodland, in the City of Madison, Dane County, Wisconsin.

(b) [Tax Key #0810-314-0104-5]: Lot Ten (10), and the East 1/2 of Lot Nine (9), Block Three (3), Woodland, in the City of Madison, Dane County, Wisconsin.

PARCEL 6. [Tax Key #0710-062-0205-7]:

Lots Twenty-four (24) and Twenty-five (25), Block Three Hundred Thirty-six (336), Riley Plat, in the City of Madison, Dane County, Wisconsin.

Also known as:

Lots Twenty-four (24) and Twenty-five (25), Block Three Hundred Thirty-six (336), Madison Square Riley Plat, in the City of Madison, Dane County, Wisconsin.



PARCEL 7. [Tax Key #0810-313-0209-5]:

Lots Nine (9), Ten (10), Eleven (11), Twelve (12), and Thirteen (13), C. E. Roth Plat, in the City of Madison, Dane County, Wisconsin.

Also known as:

Lots Nine (9), Ten (10), Eleven (11), Twelve (12), and Thirteen (13), Roth Plat, in the City of Madison, Dane County, Wisconsin.

PARCEL 8. [Tax Parcel #0810-312-2401-7]:

Part of Outlot Thirteen (13), Burke Assessor's Plat No. 1, in the City of Madison, Dane County, Wisconsin, more fully described as follows: Beginning at the point of intersection of the North line of Aberg Avenue and the East line of the right of way of the Chicago, Milwaukee, St. Paul and Pacific Railroad; thence Northeasterly along said right of way 210 feet; thence Southerly to a point on the North line of Aberg Avenue which is 55 feet East from the point of beginning; thence West along said North line of Aberg Avenue 55 feet to the point of beginning.

PARCEL 9. [Tax Parcel #0810-313-0084-1]:

Part of Outlot One (1), Burke Assessor's Plat No. 1, in the City of Madison, Dane County, Wisconsin, described as follows: Beginning at the point which is South 89° 55' East 1240.5 feet and South 10° 17' East 530 feet from the Northwest corner of the Southwest 1/4 of Section 31, Township 8 North, Range 10 East, thence North 89° 55' West a distance of 33 feet to the point of beginning; thence North 89° 55' West 196.2 feet; thence South 0° 30' East 536.2 feet; thence South 89° 42' East along Roth Avenue 100 feet; thence North 10° 10' East along Huxley Street 560.9 feet to the point of beginning, EXCEPT that part conveyed to City of Madison as set forth in Vol. 801 of Deeds, page 290, Document No. 1134180.

PARCEL 10. [Tax Key #0810-313-0082-5]:

(a) Parcel "A" of Certified Survey Map No. 325 recorded in the Dane County Register of Deeds Office in Volume 2 of Certified Survey Maps, page 77, as Document No. 1256147, in the City of Madison, Dane County, Wisconsin.

(Being part of Outlot One (1), Burke Assessor's Plat No. 1, in the City of Madison).

(b) Outlot Three (3), Burke Assessor's Plat No. 1, in the City of Madison, Dane County, Wisconsin.

VOL 3742 PAGE 40

(c) That part of Huxley Street lying Westerly of the Westerly line of Outlot Three (3), Burke Assessor's Plat No. 1, in the City of Madison, Dane County, Wisconsin, and the Easterly line of the present Huxley Street as described in Volume 812 of Deeds, page 56, Document No. 1151415.

(d) Outlot Two (2), Burke Assessor's Plat No. 1, in the City of Madison, Dane County, Wisconsin, EXCEPT that part conveyed to City of Madison as set forth in Volume 801 of Deeds, page 290, Document No. 1134180.

END OF DESCRIPTION

REGISTRY OFFICE  
DANE COUNTY, WIS. SS  
MAY 7 9 27 AM '07  
VOL. 3742  
DANE COUNTY, WISCONSIN  
REGISTER OF DEEDS



VOL 3743 PAGE 38

CERTIFIED SURVEY MAP NO. 3949

BEING A DIVISION OF PARCEL "A", CERTIFIED SURVEY MAP NO. 325 AS RECORDED IN VOLUME 2 OF CERTIFIED SURVEY MAPS ON PAGES 77 AND 78 UNDER DOCUMENT NO. 1256147 OF THE DANE COUNTY REGISTRY, FORMERLY PART OF O.L. 1, BURKE ASSESSOR'S PLAT NO. 1 LOCATED IN THE NE 1/4 OF THE SW 1/4 OF SECTION 31, T8N, R10E, CITY OF MADISON, DANE COUNTY, WISCONSIN

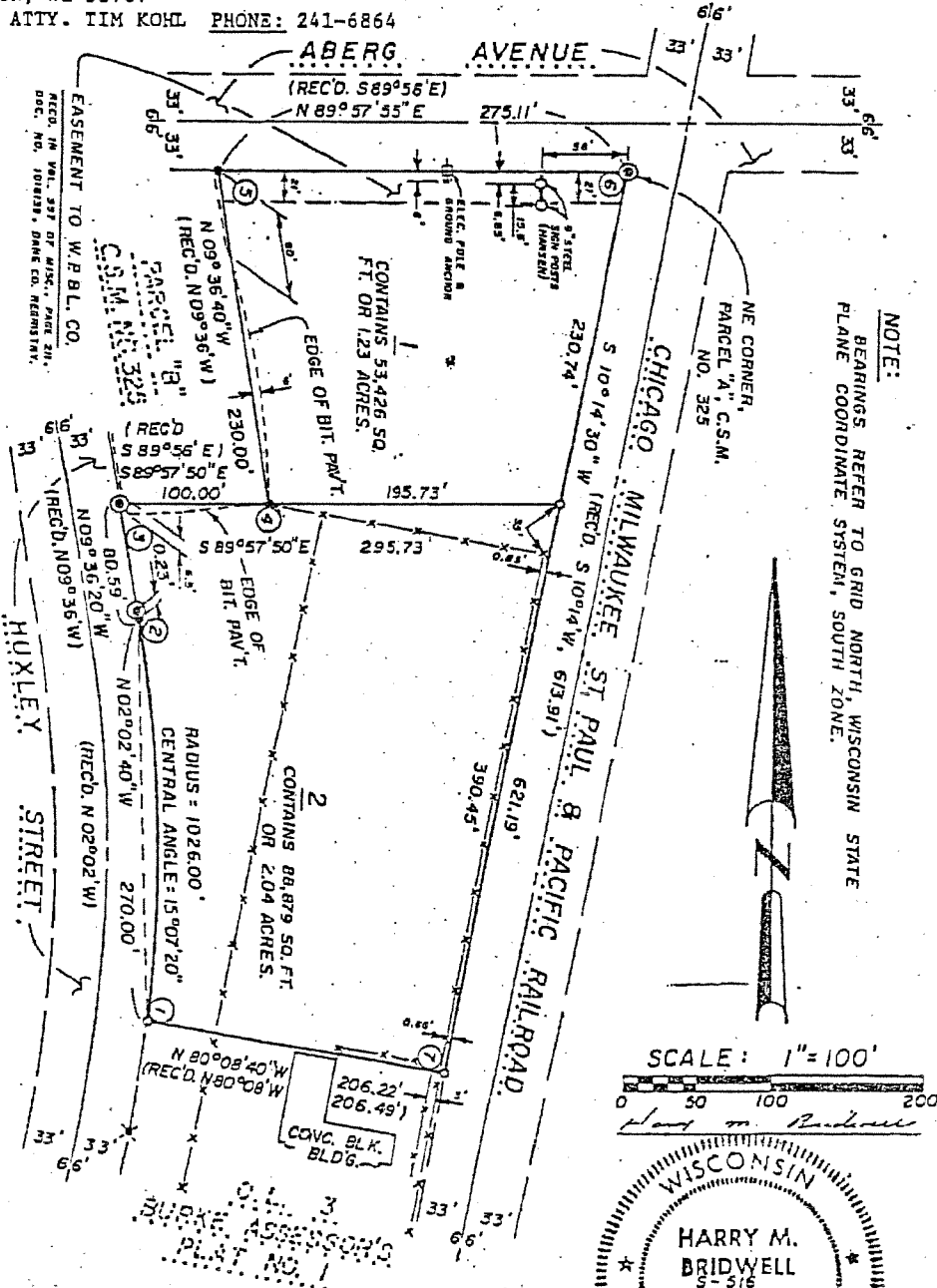
PREPARED FOR: OSCAR MAYER FOODS CORPORATION  
910 MAYER AVE. P.O. BOX 7188  
MADISON, WI 53707  
ATTN: ATTY. TIM KOHL PHONE: 241-6864

INTERIOR ANGLE TABULATION

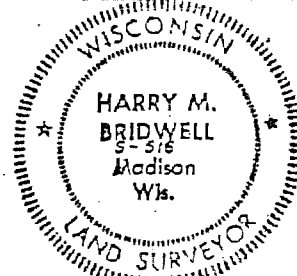
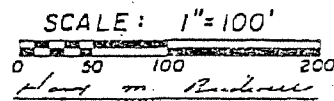
1	101° 54' 00"
2	187° 33' 40"
3	80° 21' 30"
4	279° 38' 50"
5	80° 25' 25"
6	79° 43' 25"
7	90° 23' 10"

LEGEND

- ⊙ --- 1-1/4" IRON PIPE FOUND
- ⊙ --- 3/4" SOLID ROUND IRON STAKE FOUND
- ⊙ --- CHISEL-CROSS FOUND
- ⊙ --- 3/4" x 24" SOLID ROUND IRON STAKE, 1.50 LBS./FT.
- X --- CHAIN-LINK FENCE



NOTE: BEARINGS REFER TO GRID NORTH, WISCONSIN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE.



BRIDWELL ENGINEERING CO., INC.  
222 N. MIDVALE BOULEVARD  
MADISON, WI 53705  
DATE OF SURVEY: JUNE 11, 1982  
DWG. NO. C-1253(1)-1  
SHEET 1 OF 2

CERTIFIED SURVEY MAP NO. 3949  
DOCUMENT NO. 1747445  
VOL. 14 PAGE 213

CERTIFIED SURVEY MAP NO. 3949

STATE OF WISCONSIN) ss  
COUNTY OF DANE )

I, Harry M. Bridwell, Wisconsin Land Surveyor, S-516, do hereby certify that I have surveyed, divided and mapped a division of PARCEL "A", CERTIFIED SURVEY MAP NO. 325 as recorded in Volume 2 of CERTIFIED SURVEY MAPS on Pages 77 and 78 under DOCUMENT NO. 1256147 of the Dane County Registry, formerly part of Outlot 1, BURKE ASSESSOR'S PLAT NO. 1, located in the NE 1/4, SW 1/4 of Section 31, T8N, R10E, City of Madison, Dane County, Wisconsin, more particularly described as follows:

Commencing at the NE corner of said PARCEL "A" and the point of beginning of this description:

Thence S 10° 14' 30" W, along the Westerly right-of-way line of the CHICAGO, MILWAUKEE, ST. PAUL and PACIFIC RAILROAD, 621.19 feet (erroneously recorded as 613.91 feet) to the SE corner of said PARCEL "A";

Thence N 80° 08' 40" W, along the South line of said PARCEL "A", 206.22 feet to a point on the Easterly right-of-way line of HUXLEY STREET;

Thence along said right-of-way line on the arc of a 1026.00 foot radius curve to the left whose long chord bears N 02° 02' 40" W, 276.00 feet;

Thence continue along said right-of-way line, N 09° 36' 20" W, 80.59 feet to the SW corner of PARCEL "B" of said CERTIFIED SURVEY MAP NO. 325;

Thence S 89° 57' 50" E, along the South line of said PARCEL "B" 100.00 feet to the SE corner thereof;

Thence N 09° 36' 40" W, along the Easterly line of said PARCEL "B", 230.00 feet to the NE corner thereof and the South right-of-way line of ABERG AVENUE;

Thence N 89° 57' 55" E, along said South right-of-way line and the North line of PARCEL "A", CERTIFIED SURVEY MAP NO. 325, 275.11 feet to the NE corner of said PARCEL "A" and the point of beginning of this description.

Said described parcel contains 142,305 sq. ft. or 3.27 acres.

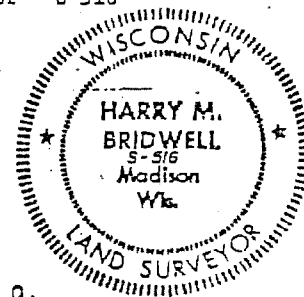
I also certify that this map is a correct representation of all exterior boundaries of the land surveyed and the land division thereof made, and that I have fully complied with the provisions of Chapter 236.34 of the Wisconsin Statutes and the Subdivision Regulations of the City of Madison in surveying, dividing and mapping the same.

Date: 6-16-82  
Revised: July 16, 1982

Harry M. Bridwell  
Harry M. Bridwell  
Wisconsin Land Surveyor - S-516

APPROVED FOR RECORDING PER SECRETARY  
MADISON PLANNING COMMISSION

Date: 8/2/82  
Charles R. Dinauer  
Charles R. Dinauer  
Secretary



CERTIFICATE OF COUNTY REGISTER OF DEEDS

Received for recording this 2nd day of Aug, 1982  
at 11:46 o'clock, A M. and recorded in Volume 16 of Certified Survey  
Maps of Dane County on Pages 213 & 214

Carol R. Mahnke  
Carol R. Mahnke, Register of Deeds  
Dane County

BRIDWELL ENGINEERING COMPANY, INC.  
222 N. MIDVALE BOULEVARD  
MADISON, WI 53705  
DATE OF SURVEY: JUNE 11, 1982  
DWG. NO. C-1253(1)-2  
SHEET 2 OF 2

By: Carol Mahnke, Deputy  
CERTIFIED SURVEY MAP NO. 3949  
DOCUMENT NO. 1747445  
VOLUME 16 PAGE 214

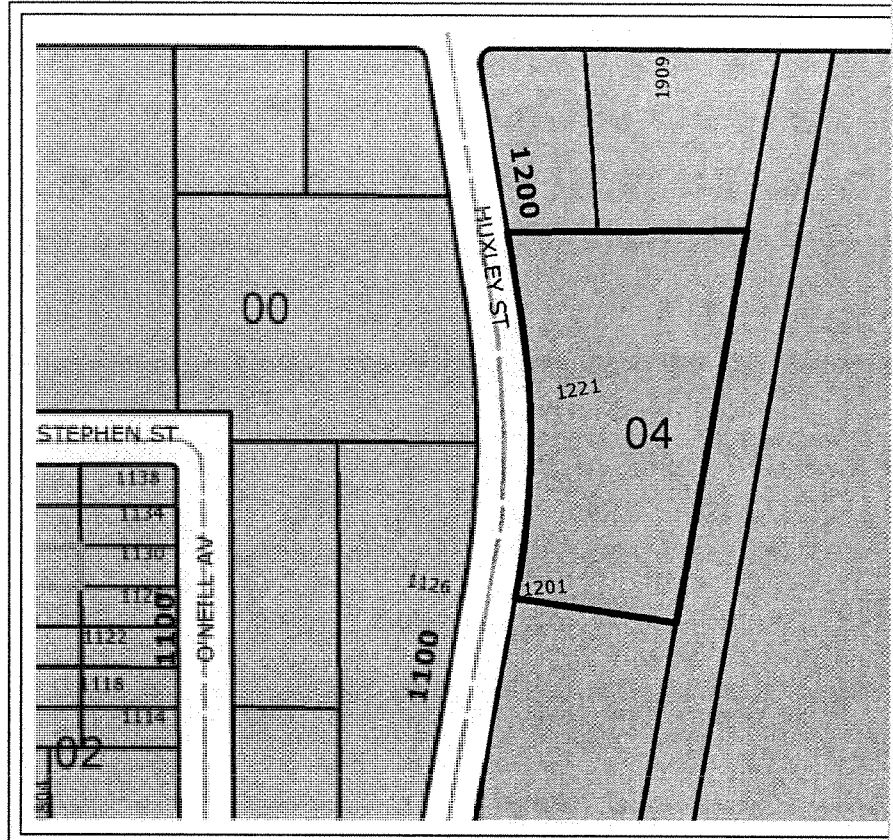


[Parcels By Owner](#)
[Sanitary Sewer](#)
[Revised](#)
[HELP](#)
  
[Parcels By Data](#)
[Storm Sewer](#)
[Introduction](#)

City of Mac  
Wisconsin

City of Madison, Wis. - GeoSpatial Information System (MADMAPS)

<b>Parcel Data for:</b>
<b>Parcel Number:</b> 0810-313-0403-3
<b>Parcel (situs) Address:</b> 1201 Huxley St
<b>Owner's Name(s):</b> OSCAR MAYER FOODS CORP KRAFT FOODS INC
<b>Owner's Address:</b> 910 MAYER AVE MADISON, WI 53704
<b>Lot Size (Sq Ft):</b> 110,934
<b>Current Assessment:</b> Land: \$0 Improvements: \$0 Total: \$0
<b>Parcel Class:</b> COMMERCIAL
<b>Parcel Use:</b> COMMERCIAL EXEMPT
<b>Predominant Land Use:</b> Automobile surface parking
<b>Zoning and Description:</b> M1 - Limited Manufacture
<b>School District:</b> Madison <b>Elem. School:</b> Emerson <b>Middle School:</b> Sherman <b>High School:</b> East



Building Data

- [All Addresses on a Parcel](#)
- [Political Representatives](#)
- [Legal Description](#)
- [Sales Information](#)
- [Property Taxes](#)
- [Special Assessments](#)

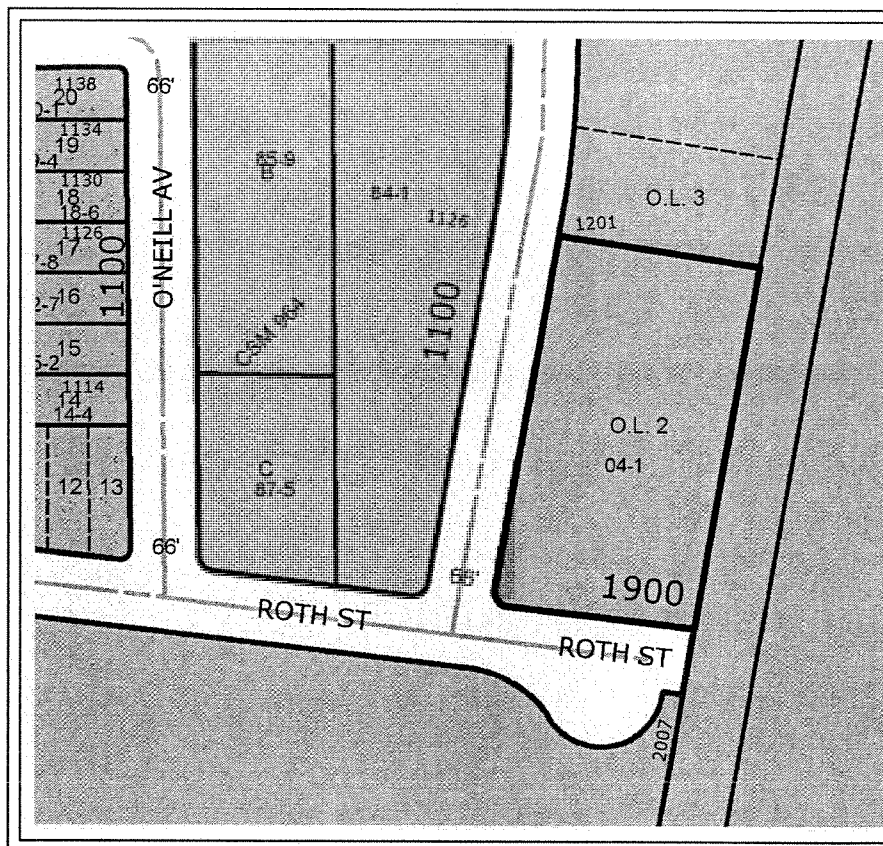
Create Map	Parcel Number	Primary Parcel Address - Situs address (A parcel may have more than one)	Owner's Name	Create Report
------------	---------------	--	--------------	---------------

[Parcels By Owner](#)  
 [Sanitary Sewer](#)  
 [Recreation](#)  
 [HELP](#)  
[Parcels By Data](#)  
 [Storm Sewer](#)  
 [Introduction](#)

City of Mac  
Wisconsin

City of Madison, Wis. - GeoSpatial Information System (MADMAPS)

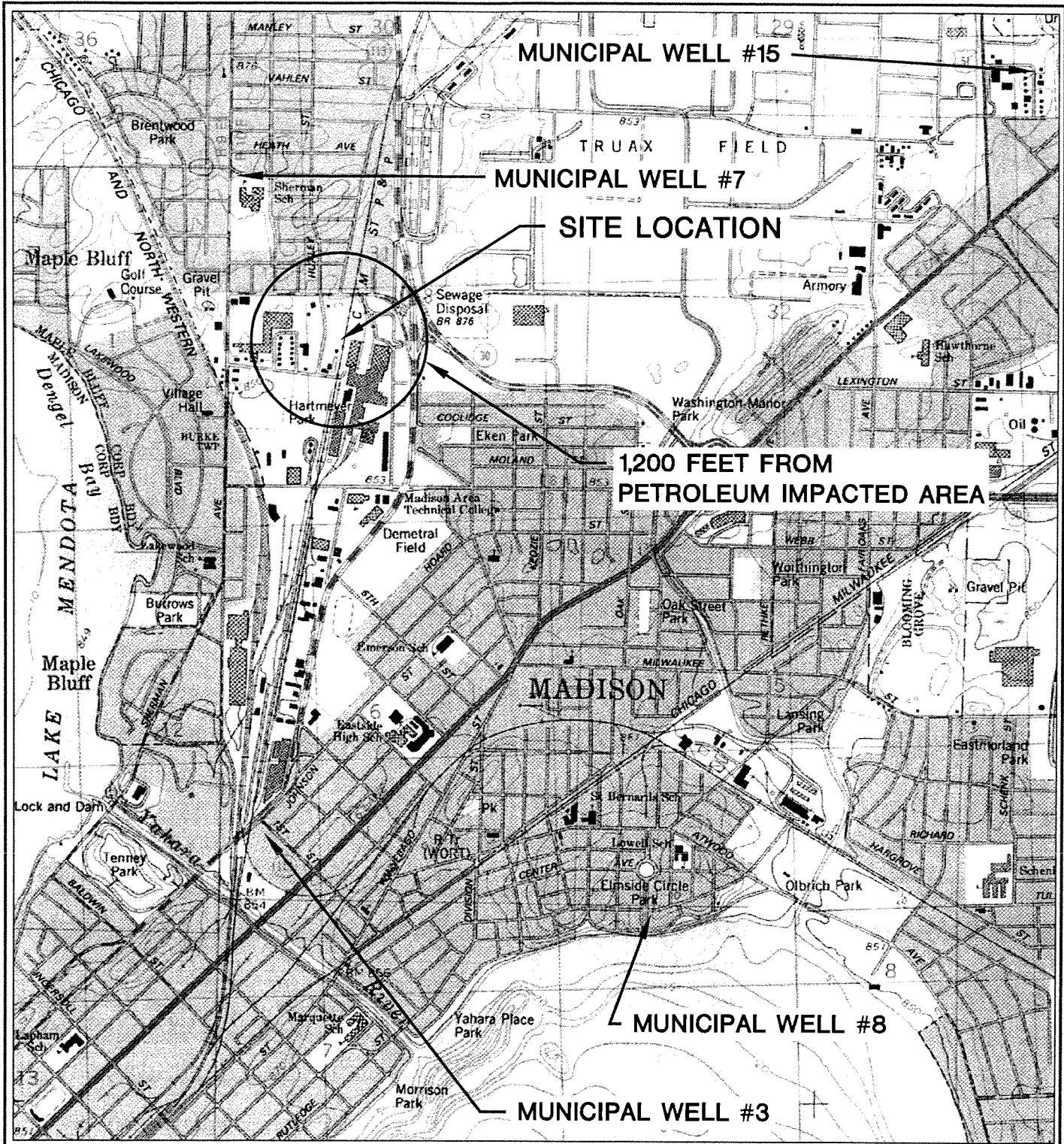
<b>Parcel Data for:</b>
<b>Parcel Number:</b> 0810-313-0404-1
<b>Parcel (situs) Address:</b> 1910 Roth St
<b>Owner's Name(s):</b> OSCAR MAYER FOODS CORP KRAFT FOODS INC
<b>Owner's Address:</b> THREE LAKES DR--NF 217 NORTHFIELD, IL 60093
<b>Lot Size (Sq Ft):</b> 71,987
<b>Assessed By State - Previous Year Assessment:</b> Land: \$106,300 Improvements: \$128,500 Total: \$234,800
<b>Parcel Class:</b> INDUSTRIAL
<b>Parcel Use:</b> MANUFACTURING
<b>Predominant Land Use:</b> Meat packing - manufacturing
<b>Zoning and Description:</b> M1 - Limited Manufacture
<b>School District:</b> Madison <b>Elem. School:</b> Emerson <b>Middle School:</b> Sherman <b>High School:</b> East



- Building Data
- [All Addresses on a Parcel](#)
- [Political Representatives](#)
- [Legal Description](#)
- [Sales Information](#)
- [Property Taxes](#)
- [Special Assessments](#)

<a href="#">Create Map</a>	<a href="#">Parcel Number</a>	<a href="#">Primary Parcel Address - Situs address (A parcel may have more than</a>	<a href="#">Owner's Name</a>	<a href="#">Create Report</a>
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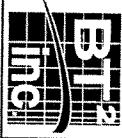
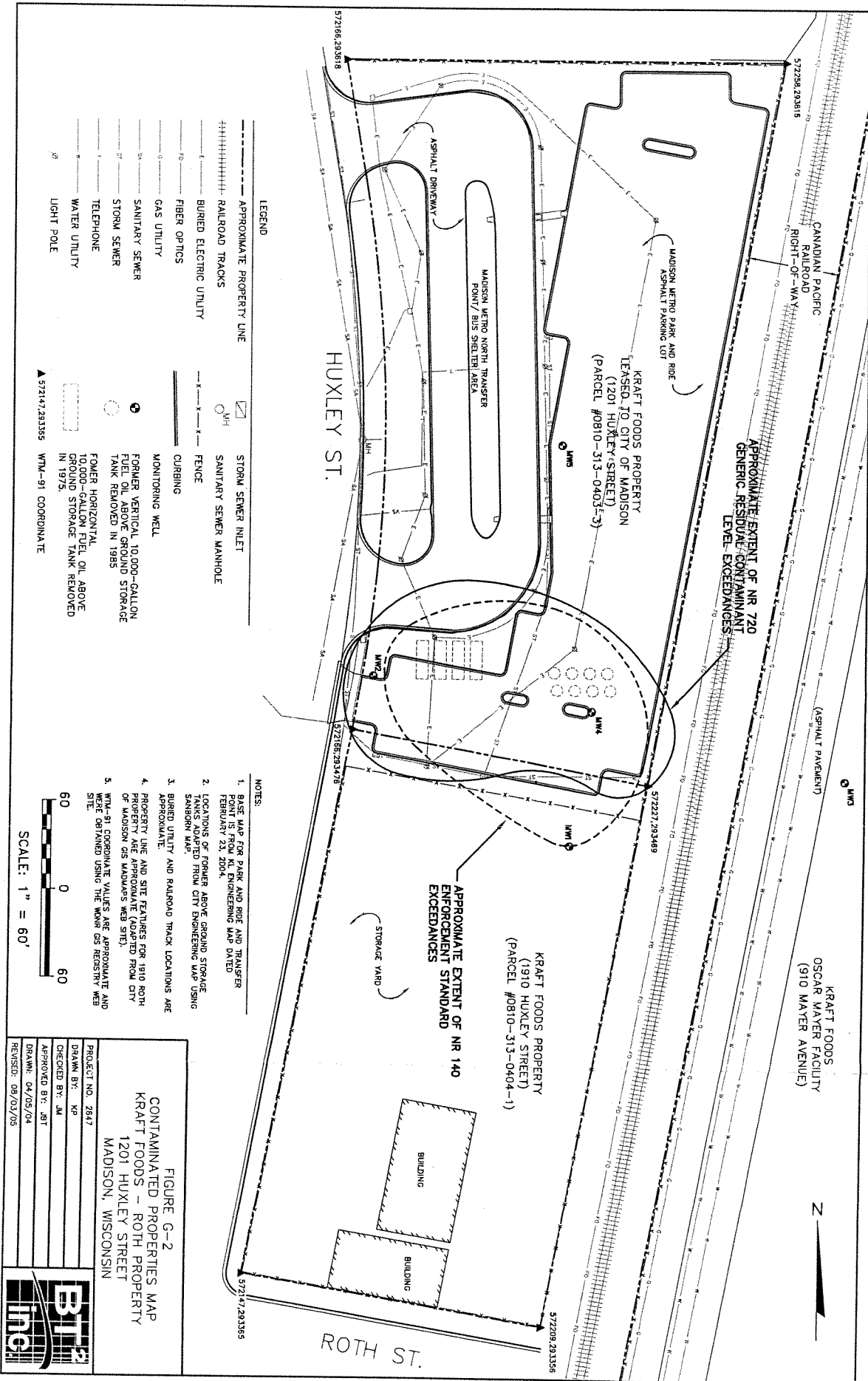
MADISON EAST QUADRANGLE  
 WISCONSIN-DANE CO.  
 7.5 MINUTE SERIES (TOPOGRAPHIC)  
 SE/4 MADISON 15' QUADRANGLE  
 1983  
 SCALE: 1" = 2,000'



PROJECT NO. 2647
DRAWN BY: KP
CHECKED BY: JM
APPROVED BY: JBT
DRAWN: 04/05/04
REVISED: 08/01/05

FIGURE G-1  
 SITE LOCATION MAP  
 KRAFT FOODS - ROTH PROPERTY  
 1201 HUXLEY STREET  
 MADISON, WISCONSIN







**Table G-1**  
**Groundwater Analytical Results Summary - VOCs**  
**Kraft Foods - Roth Property / BT<sup>2</sup> Project #2647**  
 (Results are in µg/l)

Sample	Date	Lab Notes	Benzene	Ethylbenzene	Toluene	Xylenes	TMBs	MTBE	Other VOCs
GB2	3/31/2004	(1)	127	10.1	<6.00	215	435.4 SIH, S2H	<6.00	NA
GB5	3/31/2004	(1)	320	18.4	1.53	137.33	249.1	<1.50	NA
GB8	3/31/2004	(2)	<3.10	<5.00	<3.00	19.4	26.4	<3.00	NA
GB9	3/31/2004	--	<0.31	<0.5	<0.3	0.647 J	<0.71	<0.3	NA
GB11	7/29/2004	--	<0.5	<5.0	<5.0	<5.0	<10.0	<0.511	Naphthalene <8.0
MW1	8/11/2004	(3)	24.6	<5.0	<5.0	<5.0	<10.0	<0.290	Naphthalene 41.1 n-Propylbenzene 6.42
	11/15/2004	--	<0.5	<5.0	<5.0	<5.0	<10.0	<0.511	Naphthalene <8.0 Other VOCs NA
	2/8/2005	--	8.55	<5.0	<5.0	<5.0	<10.0	0.277	Naphthalene 16.2 Other VOCs NA
	5/11/2005	(8)	20	0.46 JJ	0.54	1.7	<0.44	<0.23	Naphthalene 29 Other VOCs NA
MW2	8/11/2004	(3) (4)	<0.5	<5.0	<5.0	<5.0	<10.0	<0.290	Isopropylbenzene 6.38 Naphthalene 25.7
	11/15/2004	--	<0.5	<5.0	<5.0	<5.0	<10.0	<0.511	Naphthalene <8.0 Other VOCs NA
	2/8/2005	--	<0.5	<5.0	<5.0	<5.0	<10.0	<0.276	Naphthalene 29 Other VOCs NA
	5/11/2005	(8)	<0.25	<0.22	<0.11	<0.39	<0.44	<0.23	Naphthalene 2.3 Other VOCs NA
MW3	8/11/2004	(3) (5)	<0.5	<5.0	<5.0	<5.0	<10.0	<0.290	ND
	11/15/2004	--	<0.5	<5.0	<5.0	<5.0	<10.0	<0.511	Naphthalene <8.0 Other VOCs NA
	2/8/2005	(7)	<0.5	<5.0	<5.0	<5.0	<10.0	<0.276	Naphthalene <8.0 Other VOCs NA
	5/11/2005	--	<0.25	<0.22	<0.11	0.51 JJ	<0.44	<0.23	Naphthalene <0.50 Other VOCs NA

**Table G-1**  
**Groundwater Analytical Results Summary - VOCs**  
**Kraft Foods - Roth Property / BT<sup>2</sup> Project #2647**  
 (Results are in µg/l)

Sample	Date	Lab Notes	Benzene	Ethylbenzene	Toluene	Xylenes	TMBs	MTBE	Other VOCs
MW4	8/11/2004	(3)	108	40.4	<100	43.8	63.2	<5.8	Naphthalene 207
	11/15/2004	--	223	567	110	440	772	16.8	Naphthalene 893 Other VOCs NA
	11/15/04 (Dup)	--	159	206	<50	147	185.2	<5.11	Naphthalene 523 Other VOCs NA
	2/8/2005	--	109	71.1	<4.0	64.8	81	0.908	Naphthalene 303 Other VOCs NA
	02/08/05 (Dup)	--	152	104	<5.6	94.2	119.1	1.5	Naphthalene 250 Other VOCs NA
	5/11/2005	(8)	150 JJ	92 JJ	<22	80 JJ	174 JJ	<46	Naphthalene 590 Other VOCs NA
	05/11/05 (Dup)	(8)	160 JJ	110 JJ	<22	90 JJ	186 JJ	<46	Naphthalene 590 Other VOCs NA
	8/11/2004	(3) (5)	<0.5	<5.0	<5.0	<5.0	<10.0	<0.290	ND
	11/15/2004	--	<0.5	<5.0	<5.0	<5.0	<10.0	<0.511	Naphthalene <8.0 Other VOCs NA
	2/8/2005	(7)	<0.5	<5.0	<5.0	<5.0	<10.0	<0.276	Naphthalene <8.0 Other VOCs NA
MW5	5/11/2005	--	<0.25	<0.22	<0.11	<0.39	<0.44	<0.23	Naphthalene <0.50 Other VOCs NA
	8/11/2004	(3)	<0.5	<5.0	<5.0	<5.0	<10.0	<0.290	ND
	8/11/2004	(6)	<0.5	<5.0	<5.0	<5.0	<10.0	<0.290	ND
	11/15/2004	--	<0.5	<5.0	<5.0	<5.0	<10.0	<0.511	Naphthalene <8.0 Other VOCs NA
	2/8/05	(7)	<0.5	<5.0	<5.0	<5.0	<10.0	<0.276	Naphthalene <8.0 Other VOCs NA
	5/11/2005	--	<0.25	<0.22	<0.11	<0.39	<0.44	<0.23	Naphthalene <0.50 Other VOCs NA
	8/11/2004	(3)	5	700	1,000	10,000	480	60	Naphthalene 40
	8/11/2004	(6)	0.5	140	200	1,000	96	12	Naphthalene 8
	11/15/2004	--							
	2/8/05	(7)							
5/11/2005	--								
NIR 140 Enforcement Standards (ES)									
NIR 140 Preventive Action Limits (PAL)									



**Table G-1**  
**Groundwater Analytical Results Summary - VOCs**  
**Kraft Foods - Roth Property / BT<sup>2</sup> Project #2647**

**ABBREVIATIONS:**  
 µg/l = micrograms per liter or parts per billion (ppb)      TMBs = 1,2,4- and 1,3,5-trimethylbenzenes      MTBE = Methyl-tert-butyl ether  
 VOCs = Volatile Organic Compounds      NA = Not Analyzed      ND = Not Detected  
 (Dup) = Duplicate Sample

**NOTES:**  
**Bold** values meet or exceed NR 140 enforcement standards.  
 NR 140 ES - Wisconsin Administrative Code (WAC), Chapter NR 140.10 Table 1 - Public Health Groundwater Quality Standards  
 NR 140 PAL - WAC, Chapter NR 140.10 Table 1 - Public Health Groundwater Quality Standards

**LABORATORY NOTES:**  
 J = Estimated concentration below laboratory quantitation level.  
 JJ = Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL).  
 The user of this data should be aware that this data is of unknown quality.

- SIH = Sample matrix spike recovery was high. Sample result may be biased high.
- S2H = Sample matrix spike duplicate recovery was high. Sample result may be biased high.
- (1) EPA 8310 Method: Mud layer present, liquid decanted off (JEG).
- (2) Cannot run lower due to the concentration of naphthalene = 994 µg/l.
- (3) VOCs analysis - The result for one or more quality control measurements associated with this sample did not meet the laboratory and/or source method acceptance criteria. Vinyl chloride analysis - The recovery of this analyte in the check standard is above the method specified acceptance criteria.
- (4) VOCs analysis - The pH of this volatile sample was checked prior to analysis and was found to be above the method specified pH of 2.
- (5) Surrogate: Dibromofluoromethane analysis - This quality control measurement is below the laboratory established limit.
- (6) VOCs analysis - The result for one or more quality control measurements associated with this sample did not meet the laboratory and/or source method acceptance criteria. Surrogate: 4-Bromofluorobenzene analysis - This quality control measurement is below the laboratory established limit.
- (7) VOCs analyses - One or more internal standard recoveries were below the method specified acceptance criteria.
- (8) VOCs analysis - Unquantitated hydrocarbons present in the sample outside of the reported carbon range.

Created by: LMH 4/15/04  
 Checked by: JMM 2/24/05, JMM 6/2/05

I:\2647\Tables-General\GW\_VOCs.xls\Notes and Lab Notes

**Table G-2**  
**Groundwater Analytical Results Summary - PAHs**  
**Kraft Foods - Roth Property / BT<sup>3</sup> Project #2647**  
 (Results are in µg/l)

Sample	Date	Lab Notes	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(e)pyrene	Benzo(ghi)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methyl-naphthalene	2-Methyl-naphthalene	Naphthalene	Phenanthrene	Pyrene
GB2	3/31/2004	--	<5.20	<6.24	<5.20	<4.16	<4.16	<4.16	<1.77	<5.20	<5.20	<6.24	<6.24	<12.5	<5.20	4,150	6,470	1,370	<8.32	<9.36
GB5	3/31/2004	--	<0.06	<0.06	<0.05	<0.04	<0.04	<0.04	<0.017	<0.05	<0.05	<0.06	<0.06	<0.12	0.056	107	160	78.3	<0.08	<0.09
MW1	8/11/2004	--	<5.0	<5.0	<5.0	<0.1	<0.02	<0.1	<0.02	<5.0	<0.02	<0.1	<5.0	<5.0	<0.2	19.8 O11	16.2	72.2	<5.0	<5.0
MW4	8/11/2004	(1)	<5.0	<5.0	<5.0	<0.1	<0.02	<0.1	<0.02	<5.0	<0.02	<0.1	<5.0	5.73	<0.2	115	129	78.5	<5.0	<5.0
MW5	8/11/2004	--	<5.0	<5.0	<5.0	<0.1	<0.02	<0.1	<0.02	<5.0	<0.02	<0.1	<5.0	<5.0	<0.2	<5.0 O11	<5.0	<5.0	<5.0	<5.0
Rinse Blank	8/11/2004	--	<5.0	<5.0	<5.0	<0.1	<0.02	<0.1	<0.02	<5.0	<0.02	<0.1	<5.0	<5.0	<0.2	<5.0 O11	<5.0	<5.0	<5.0	<5.0
NR 140 Enforcement Standards			NE	NE	3,000	NE	0.2	NE	0.2	NE	0.2	NE	400	400	NE	NE	NE	40	NE	250
NR 140 Preventive Action Limits			NE	NE	600	NE	0.02	NE	0.02	NE	0.02	NE	80	80	NE	NE	NE	8	NE	50

**ABBREVIATIONS:**

µg/l = micrograms per liter or parts per billion (ppb)

PAHs = Polynuclear Aromatic Hydrocarbons

NE = No Standard Established

**NOTES:**

**Bold** values meet or exceed NR 140 enforcement standards.

*Italic* values meet or exceed NR 140 preventive action limits.

NR 140 ES - Wisconsin Administrative Code (WAC), Chapter NR 140.10 Table 1 - Public Health Groundwater Quality Standards

NR 140 PAL - WAC, Chapter NR 140.10 Table 1 - Public Health Groundwater Quality Standards

**LABORATORY NOTES:**

O11 = The check standard that corresponds to this sample met the SW846 method requirements. However, it should be noted that the recovery for this individual compound in the check standard was below 85%.

(1) Surrogate: Carbazole analysis - This quality control measurement is above the laboratory established limit.

Created by: LMH 4/15/04

Checked by: JMM 4/19/04

I:\2647\Tables-General\GW\_PAHs.xls\GW PAHs



Table G-3

Soil Analytical Results Summary - VOCs  
 Kraft Foods - Roth Property / BT<sup>2</sup> Project #2647  
 (Results are in µg/kg, except where noted otherwise)

Sample	Date	Depth (feet)	Lab Notes	DRO (mg/kg)	GRO (mg/kg)	Benzene	Ethylbenzene	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB	MTBE
B-1A	3/3/2004	3.5-5.5	(1)	4,290 T10, T8	1,060 T15, T2	139	1,470	160	6,170	3,930	4,940	<25
B-1B	3/3/2004	3.5-5.5	--	12.5 T15	<5.58	<25	<25	<25	<25	27.6	<25	<25
B-1C	3/3/2004	3.5-5.5	--	12.6 T10, T15	<6.94	<25	<25	<25	29.7	26.7	<25	<25
B-1E	3/3/2004	8.5-10.5	--	76.8 T10, T8	35.6 T15, T2	<25	<25	<25	163	486 A-01	174	<25
B-1F	3/3/2004	8.5-10.5	--	572 T10, T8	93.5 T15, T2	<25	88	<25	809	2,270 A-01	430	<25
GB2 S2	3/31/2004	2-4	--	NA	NA	<400	614	<400	3,192	10,900	8,490	<400
GB2 S4	3/31/2004	6-8	--	NA	NA	<100	408	<100	2,910	5,730	2,920	<100
GB3 S2	3/31/2004	2-4	--	NA	NA	<25	<25	<25	66.8	265	214	<25
GB7 S4	3/31/2004	6-8	--	10,600 D1	455 G2, G6	<1,000	<1,000	<1,000	3,660	4,510	3,900	<1,000
GB8 S3	3/31/2004	4-6	--	21,000 D1,D2B, D5	26.8 G2, G6	<100	<100	<100	483	1,350	421	<100
GB10 S2	3/31/2004	2-4	--	3,780 D2B, D5	38.9 G2, G6	<100	<100	<100	346	681	255	<100
GB11 S3	7/29/2004	4-6	--	39.1 QC, T10, T13, T15	<8.18	<25	<25	<25	<25	<25	<25	<25
GB12 S3	7/29/2004	4-6	--	42.2 QC, T11	<5.62	<25	<25	<25	<25	<25	<25	<25
GB13 S3	7/29/2004	4-6	--	<5.62 QC	<5.62	<25	<25	<25	<25	<25	<25	<25
MW1 S3	7/29/2004	4-6	--	53.3 QC, T10, T8	<6.43	<25	<25	<25	<25	<25	<25	<25
MW2 S3	7/29/2004	4-6	--	1,890 QC, T10, T15, T8	57 T15, T2	<25	99.3	<25	233	339	631	<25
S10-Waste	6/16/2004	3	--	NA	446	<25	615	<25	3,140	5,520	2,670	<50
S26-Waste	6/17/2004	4	(1)	139 T10, T8	190	131	402	260	1,460	3,070	2,690	<50
S57-Waste	6/21/2004	1	(1)	5,820 T10, T8	869 T15, T2	130	590	226	1,220	4,020	8,310	<50

**Table G-3**  
**Soil Analytical Results Summary - VOCs**  
**Kraft Foods - Roth Property / BT<sup>2</sup> Project #2647**  
 (Results are in µg/kg, except where noted otherwise)

Sample	Date	Depth (feet)	Lab Notes	DRO (mg/kg)	GRO (mg/kg)	Benzene	Ethylbenzene	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB	MTBE
Methanol	3/4/2004	--	--	<5.0	<5.0	<25	<25	<25	<25	<25	<25	<25
Blank	6/16/2004	--	--	NA	<5.0	<25	<25	<25	<25	<25	<25	<25
	6/17/2004	--	--	NA	<5.0	<25	<25	<25	<25	<25	<25	<25
	6/21/2004	--	--	NA	<5.0	<25	<25	<25	<25	<25	<25	<25
	7/29/2004	--	--	NA	<5.0	<25	<25	<25	<25	<25	<25	<25
NR 720 Residual Contaminant Level (RCL)				100	100	5.5	2,900	1,500	4,100	NE	NE	NE
NR 746 Table 1				NE	NE	8,500	4,600	38,000	42,000	83,000	11,000	NE
NR 746 Table 2				NE	NE	1,100	NE	NE	NE	NE	NE	NE

**ABBREVIATIONS:**

µg/kg = micrograms per kilogram or parts per billion (ppb)  
 mg/kg = milligrams per kilogram or parts per million (ppm)  
 DRO = Diesel Range Organics  
 GRO = Gasoline Range Organics  
 NA = Not Analyzed  
 TMB = Trimethylbenzene  
 MTBE = Methyl-tert-butyl ether  
 -- = Not Applicable

**NOTES:**

**Bold** values exceed NR 720 RCLs.  
 NR 720 RCL - Wisconsin Administrative Code (WAC), Chapter NR 720 Residual Contaminant Level.  
 NR 746 Table 1 - WAC, Chapter NR 746.06(2)(b) Table 1 - Indicators of Residual Petroleum Product in Soil Pores.  
 NR 746 Table 2 - WAC, Chapter NR 746.06(2)(b) Table 2 - Protection of Human Health from Direct Contact with Contaminated Soil.  
 Soil samples B-1A, B-1B, B-1C, B-1E, and B-1F were collected by KL Engineering, Madison, Wisconsin.

**LABORATORY NOTES:**

A-01 = The daily instrument blank had a 1,2,4-TMB hit of .523 ppb.  
 D1 = The chromatogram is characteristic for a fuel oil/diesel (i.e., #1 or #2 diesel, jet fuel, kerosene, aged or degraded diesel, etc.).  
 D2B = The chromatogram is characteristic for a heavier petroleum product other than diesel (i.e., motor oil, hydraulic oil, etc.).  
 D5 = The chromatogram contained significant peaks and a raised baseline outside the DRO window.  
 G2 = The chromatogram has characteristics of an aged gasoline sample.  
 G6 = The chromatogram contains a significant number of peaks and a raised baseline outside the GRO window.  
 QC = The result for one or more quality control measurements associated with this sample did not meet the laboratory and/or source method acceptance criteria.



**Table G-3**  
**Soil Analytical Results Summary - VOCs**  
**Kraft Foods - Roth Property / BT<sup>2</sup> Project #2647**  
(Results are in µg/kg, except where noted otherwise)

LABORATORY NOTES (Continued):

T2 = Late Peaks.

T8 = Diesel Pattern.

T10 = Diesel Range.

T11 = Motor Oil Range.

T13 = Several Large Peaks.

T15 = Late Elevated Baseline.

(1) Surrogate: 1-C1-4-FB (PID) analysis = This quality control measurement is above the laboratory established limit.

Created by: LMH 4/5/04

Checked by: JMM 4/6/04, 4/19/04, 4/20/04, 8/31/04

I:\2647\Tables-General\Soil\_VOCs.xls\Soil VOCs

Table G-4

Soil Analytical Results Summary - PAHs

Kraft Foods - Roth Property / BT, Project #2647

(Results are in µg/kg, except where noted otherwise)

Sample	Date	Depth (feet)	Lab Notes	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(e)pyrene	Benzo(ghi)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methyl-naphthalene	2-Methyl-naphthalene	Naphthalene	Phenanthrene	Pyrene
GB2 S2	03/31/04	2-4	--	<5.2	1,440	<11.1	<45.5	<32.2	<32.2	<23.5	<23.3	<23.5	<15.5	<11.1	<22.2	<17.8	17,300	17,200	5,160	<25.5	<11.1
GB2 S4	03/31/04	6-8	--	<6.37	<8.95	<1.36	<5.36	<2.85	<3.93	<3.12	<2.85	<3.12	<1.9	<1.36	<2.71	<1.7	1,840	2,790	448	<11.2	<1.36
GB3 S2	03/31/04	2-4	(1)	<26.6	<37.4	<5.66	<23.2	81.6	40.1	30.5	111	<13	77.1	<5.66	<11.3	82	220	71.3	<9.06	<13	<5.66
GB11 S2	07/29/04	2-4	(1)	<125	<251	<125	102	107	<125	117 O10	<125	<125	27.2	179	<125	126	<125	<125	<125 O11	<125	<125
GB12 S2	07/29/04	2-4	(1)	<112	<225	<112	<56.2	<56.2	<112	<56.2	<112	<112	<5.62	<112	<112	<56.2	<112	<112	<112 O11	<112	<112
GB13 S2	07/29/04	2-4	(1)	<108	<17	<108	<54.2	<54.2	<108	<54.2	<108	<108	<5.42	<108	<108	<54.2	<108	<108	<108 O11	<108	<108
MW1 S2	07/29/04	2-4	(1)	<126	<252	<126	<63.0	<63.0	<126	13.5 O10	<126	<126	<6.3	<126	<126	<63.0	<126	<126	<126 O11	<126	<126
MW2 S2	07/29/04	2-4	(1)	126	<220	<110	90.2	84.8	<110	77.5 O10	<110	<110	<5.50	110	<110	118 O10	111	<110	<110	<110	<110
WDNR Generic RCLs (Interim Guidance - April 1997)																					
Groundwater Pathway																					
				38,000	700	3,000,000	17,000	360,000	870,000	48,000	6,800,000	37,000	38,000	500,000	100,000	680,000	23,000	20,000	400	1,800	8,700,000
				900,000	18,000	3,000,000	88	88	880	8.8	1,800	8,800	8.8	600,000	600,000	88	1,100,000	600,000	20,000	15,000	500,000
				60,000,000	360,000	300,000,000	3,900	3,900	39,000	390	39,000	390,000	390	40,000,000	40,000,000	3,900	70,000,000	40,000,000	110,000	390,000	30,000,000
				NE	NE	NE	880	880	NE	88	NE	NE	88	NE	NE	880	NE	NE	NE	NE	NE
Non-Industrial Direct Contact																					
				900,000	18,000	3,000,000	88	88	880	8.8	1,800	8,800	8.8	600,000	600,000	88	1,100,000	600,000	20,000	15,000	500,000
Industrial Direct Contact																					
				60,000,000	360,000	300,000,000	3,900	3,900	39,000	390	39,000	390,000	390	40,000,000	40,000,000	3,900	70,000,000	40,000,000	110,000	390,000	30,000,000
				NE	NE	NE	880	880	NE	88	NE	NE	88	NE	NE	880	NE	NE	NE	NE	NE
Site-Specific RCLs																					

ABBREVIATIONS:

NE = Not Established

PAHs = Polynuclear Aromatic Hydrocarbons

RCL = Residual Contaminant Level

µg/kg = micrograms per kilogram or parts per billion (ppb)

WDNR = Wisconsin Department of Natural Resources

NOTES:

Bold values indicate concentrations greater than WDNR's generic groundwater pathway RCL.

Bold and underlined values indicate concentrations greater than site-specific RCLs (SSRCLs).

For five PAH compounds, SSRCLs were developed in accordance with WDNR Guidance PUB-RR-519-97 titled "Soil Cleanup Levels of Polycyclic Aromatic Hydrocarbons (PAHs), Interim Guidance" (April 1997). The SSRCLs are equal to ten times the generic RCLs for the non-industrial, direct-contact pathway.

The factor of ten increase is based on increasing the target risk for these five carcinogenic PAHs from the 10<sup>-6</sup> value used in the generic RCLs to the 10<sup>-5</sup> value allowed under NR 720.19(5)(a)(1). The cumulative excess cancer risk will remain well below the 10<sup>-5</sup> value required under NR 720.19(5)(a)(2).

LABORATORY NOTES:

O10 - The check standard that corresponds to this sample met the SW846 method requirements. However, it should be noted that the recovery for this individual compound in the check standard was above 115%.

O11 - The check standard that corresponds to this sample met the SW846 method requirements. However, it should be noted that the recovery for this individual compound in the check standard was below 85%.

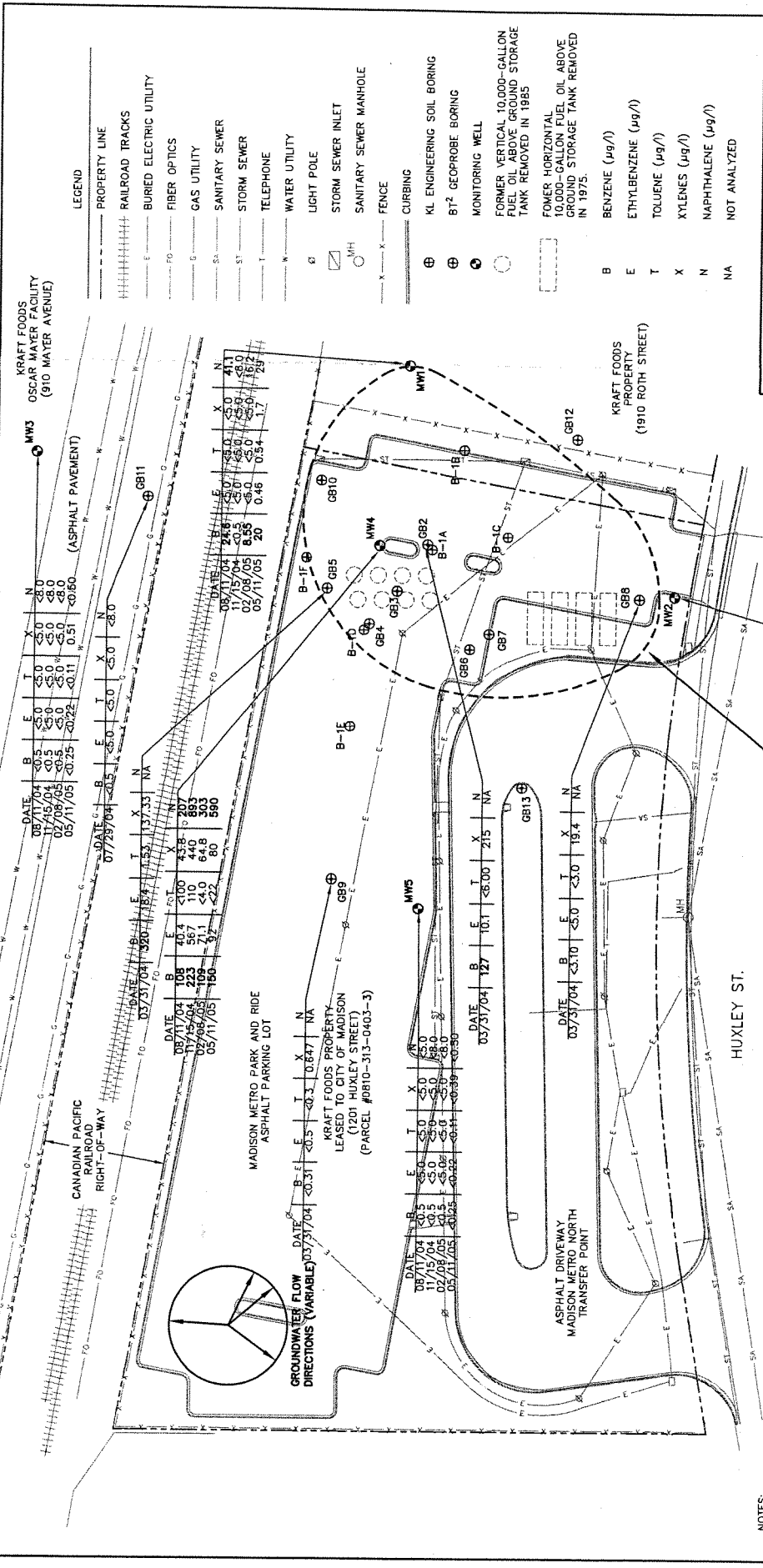
(1) PAHs analysis - The result for one or more quality control measurements associated with this sample did not meet the laboratory and/or source method acceptance criteria.

Created by: LMH 4/15/04

Checked by: JMM 4/19/04, 8/31/04

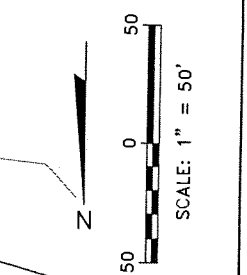
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**FIGURE G-3**  
**GROUNDWATER ISOCONCENTRATION MAP**  
**KRAFT FOODS - ROTH PROPERTY**  
**1201 HUXLEY STREET**  
**MADISON, WISCONSIN**

PROJECT NO. 2847  
 DRAWN BY: KP  
 CHECKED BY: JM  
 APPROVED BY: BT  
 DRAWN: 08/01/05  
 REVISED: 08/03/05



**APPROXIMATE EXTENT OF NR 140 ENFORCEMENT STANDARD EXCEEDANCES**

DATE	B	E	T	X	N
08/11/04	<0.5	<0.5	<0.5	<0.5	28.7
11/15/04	<0.5	<0.5	<0.5	<0.5	29.0
02/05/05	<0.5	<0.5	<0.5	<0.5	29.0
05/11/05	<0.25	<0.22	<0.11	<0.39	2.3

- NOTES:**
1. BASE MAP FOR PARK AND RIDE AND TRANSFER POINT IS FROM KL ENGINEERING MAP DATED FEBRUARY 23, 2004.
  2. LOCATIONS OF FORMER ABOVE GROUND STORAGE TANKS ADAPTED FROM CITY ENGINEERING MAP USING SANBORN MAP, APPROXIMATE.
  3. BURIED UTILITY AND RAILROAD TRACK LOCATIONS ARE APPROXIMATE.
  4. BORINGS B-1A THROUGH B-1F WERE DRILLED AND SAMPLED UNDER THE DIRECTION OF KL ENGINEERING, MARCH 3, 2004.
  5. BOLD VALUES INDICATE EXCEEDANCE OF NR 140 ENFORCEMENT STANDARD.

**LEGEND**

---	PROPERTY LINE
++++	RAILROAD TRACKS
---	BURIED ELECTRIC UTILITY
---	FIBER OPTICS
---	GAS UTILITY
---	SANITARY SEWER
---	STORM SEWER
---	TELEPHONE
---	WATER UTILITY
---	LIGHT POLE
---	STORM SEWER INLET
---	SANITARY SEWER MANHOLE
---	FENCE
---	CURBING
⊕	KL ENGINEERING SOIL BORING
⊕	B1 <sup>2</sup> GEOPROBE BORING
⊙	MONITORING WELL
○	FORMER VERTICAL 10,000-GALLON FUEL OIL ABOVE GROUND STORAGE TANK REMOVED IN 1985
○	FORMER HORIZONTAL 10,000-GALLON FUEL OIL ABOVE GROUND STORAGE TANK REMOVED IN 1975.
B	BENZENE (μg/l)
E	ETHYLBENZENE (μg/l)
T	TOLUENE (μg/l)
X	XYLENES (μg/l)
N	NAPHTHALENE (μg/l)
NA	NOT ANALYZED

**GROUNDWATER FLOW DIRECTIONS (VARIABLE)**

DATE	B	E	T	X	N
08/11/04	<0.5	<0.5	<0.5	<0.5	<0.5
11/15/04	<0.5	<0.5	<0.5	<0.5	<0.5
02/05/05	<0.5	<0.5	<0.5	<0.5	<0.5
05/11/05	<0.25	<0.22	<0.11	0.31	<0.60

**GROUNDWATER FLOW DIRECTIONS (VARIABLE)**

DATE	B	E	T	X	N
08/11/04	<0.5	<0.5	<0.5	<0.5	<0.5
11/15/04	<0.5	<0.5	<0.5	<0.5	<0.5
02/05/05	<0.5	<0.5	<0.5	<0.5	<0.5
05/11/05	<0.25	<0.22	<0.11	0.31	<0.60

**GROUNDWATER FLOW DIRECTIONS (VARIABLE)**

DATE	B	E	T	X	N
08/11/04	<0.5	<0.5	<0.5	<0.5	<0.5
11/15/04	<0.5	<0.5	<0.5	<0.5	<0.5
02/05/05	<0.5	<0.5	<0.5	<0.5	<0.5
05/11/05	<0.25	<0.22	<0.11	0.31	<0.60

**GROUNDWATER FLOW DIRECTIONS (VARIABLE)**

DATE	B	E	T	X	N
08/11/04	<0.5	<0.5	<0.5	<0.5	<0.5
11/15/04	<0.5	<0.5	<0.5	<0.5	<0.5
02/05/05	<0.5	<0.5	<0.5	<0.5	<0.5
05/11/05	<0.25	<0.22	<0.11	0.31	<0.60

**GROUNDWATER FLOW DIRECTIONS (VARIABLE)**

DATE	B	E	T	X	N
08/11/04	<0.5	<0.5	<0.5	<0.5	<0.5
11/15/04	<0.5	<0.5	<0.5	<0.5	<0.5
02/05/05	<0.5	<0.5	<0.5	<0.5	<0.5
05/11/05	<0.25	<0.22	<0.11	0.31	<0.60

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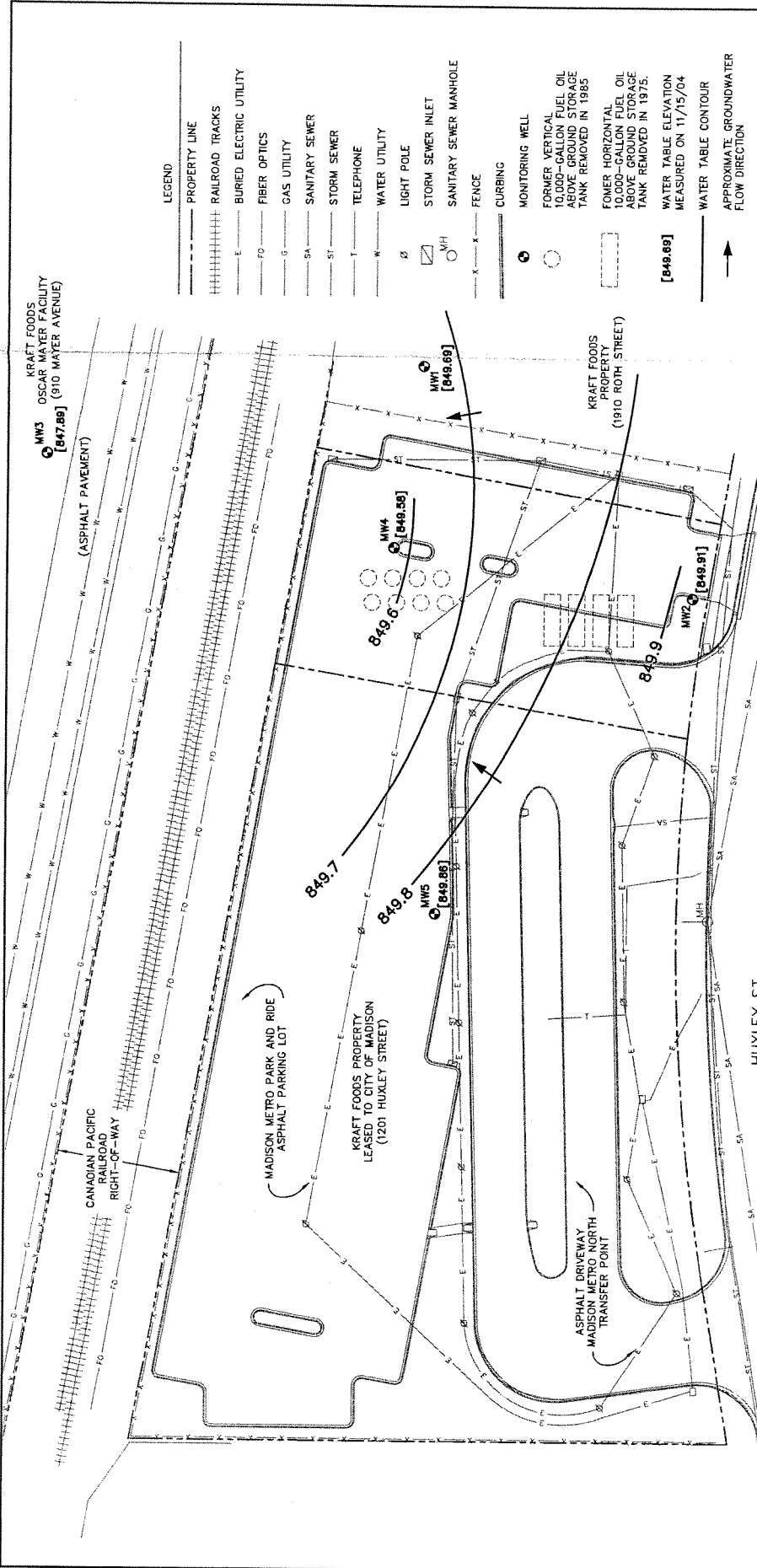
**Table G-5  
Water Level Summary  
Kraft - Roth Property / Project #2647  
Madison, Wisconsin**

Raw Data		Depth to Water in feet below top of well casing				
		MW1	MW2	MW3	MW4	MW5
<b>Measurement Date</b>						
11-Aug-04		3.24	3.15	4.90	3.66	3.75
15-Nov-04		4.48	4.10	6.31	5.15	5.31
08-Feb-05		4.19	4.00	5.87	4.64	4.98
11-May-05		3.26	3.36	5.65	4.03	4.52

Well Number Top of Casing Elevation (feet amsl)		Ground Water Elevation in feet above mean sea level (amsl)				
		MW1	MW2	MW3	MW4	MW5
		854.17	854.01	854.20	854.73	855.17
<b>Measurement Date</b>						
11-Aug-04		850.93	850.86	849.30	851.07	851.42
15-Nov-04		849.69	849.91	847.89	849.58	849.86
08-Feb-05		849.98	850.01	848.33	850.09	850.19
11-May-05		850.91	850.65	848.55	850.70	850.65

Note: Vertical elevation of monitoring wells MW1, MW2, MW4, and MW5 were surveyed relative to MW3 on August 11, 2004. MW3 was surveyed relative to mean sea level datum on October 3, 2001, by Keith Notbohm, Land Surveying.





**FIGURE G-4**  
**GROUNDWATER FLOW DIRECTION MAP FOR**  
**NOVEMBER 15, 2004**  
**KRAFT FOODS - ROTH PROPERTY**  
**1201 HUXLEY STREET**  
**MADISON, WISCONSIN**

PROJECT NO.	2647
DRAWN BY:	KP
CHECKED BY:	JM
APPROVED BY:	
DRAWN DATE:	08/02/05
REVISED:	09/03/05

- LEGEND**
- PROPERTY LINE
  - RAILROAD TRACKS
  - BURIED ELECTRIC UTILITY
  - FIBER OPTICS
  - GAS UTILITY
  - SANITARY SEWER
  - STORM SEWER
  - TELEPHONE
  - WATER UTILITY
  - LIGHT POLE
  - STORM SEWER INLET
  - SANITARY SEWER MANHOLE
  - FENCE
  - CURBING
  - MONITORING WELL
  - FORMER VERTICAL 10,000-GALLON FUEL OIL ABOVE-GROUND STORAGE TANK REMOVED IN 1985
  - FORMER HORIZONTAL 10,000-GALLON FUEL OIL ABOVE-GROUND STORAGE TANK REMOVED IN 1975.
  - WATER TABLE ELEVATION MEASURED ON 11/15/04
  - WATER TABLE CONTOUR
  - APPROXIMATE GROUNDWATER FLOW DIRECTION

**NOTES:**

1. BASE MAP FOR PARK AND RIDE AND TRANSFER POINT IS FROM KL ENGINEERING MAP DATED FEBRUARY 23, 2004.
2. BURIED UTILITY LOCATIONS ARE APPROXIMATE.
3. RAILROAD TRACK LOCATIONS ARE APPROXIMATE.
4. BORINGS B-1A THROUGH B-IF WERE DRILLED AND SAMPLED UNDER THE DIRECTION OF KL ENGINEERING, MARCH 5, 2004.
5. MW3 WATER LEVEL WAS NOT USED IN THE PREPARATION OF THIS WATER TABLE MAP.

**SCALE: 1" = 50'**

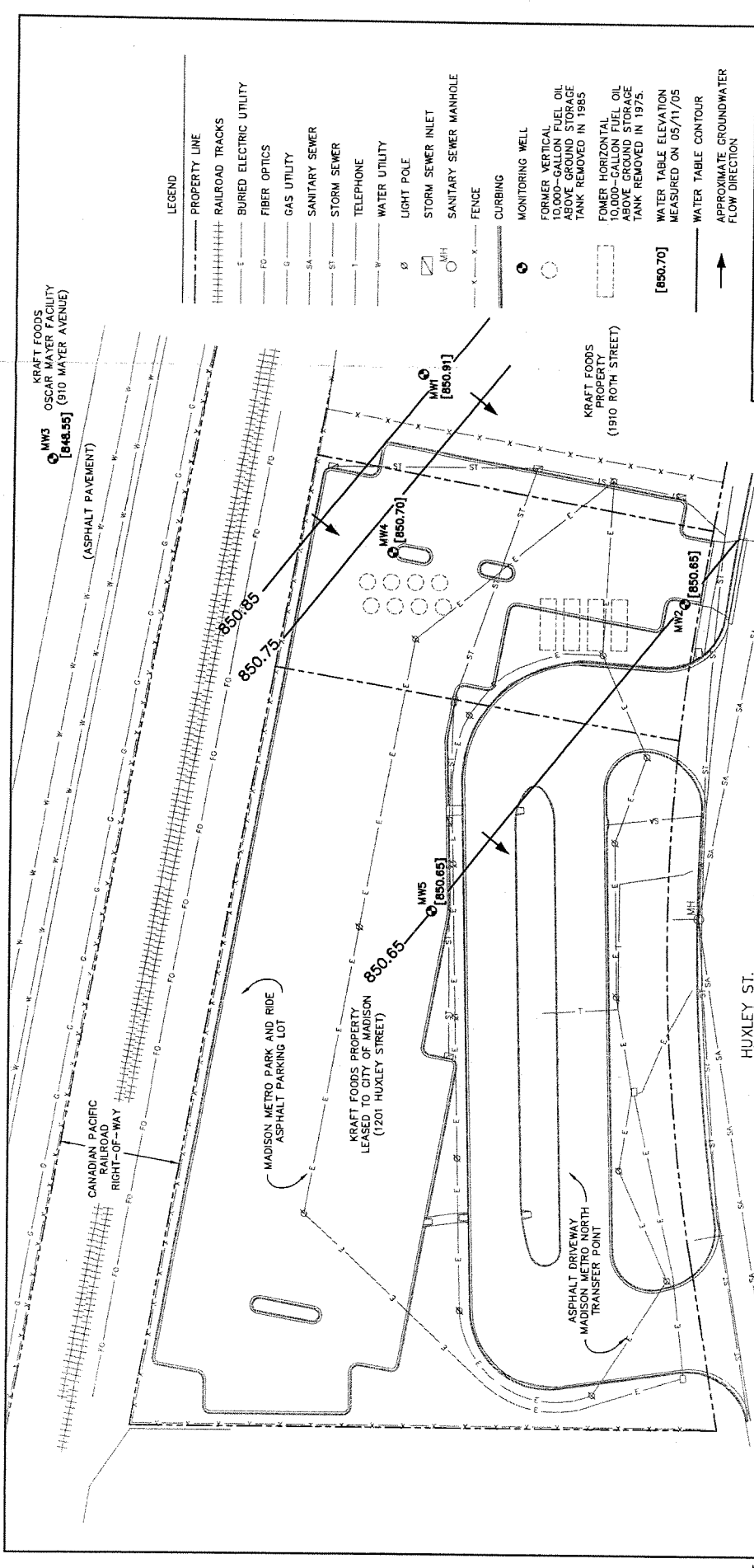
**50 0 50**

**N**

**BTI inc.**





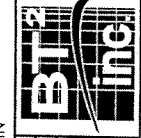


**LEGEND**

-----	PROPERTY LINE
+++++	RAILROAD TRACKS
-----	BURIED ELECTRIC UTILITY
-----	FIBER OPTICS
-----	GAS UTILITY
-----	SANITARY SEWER
-----	STORM SEWER
-----	TELEPHONE
-----	WATER UTILITY
⊙	LIGHT POLE
⊠	STORM SEWER INLET
○	SANITARY SEWER MANHOLE
---	FENCE
---	CURBING
⊙	MONITORING WELL
○	FORMER VERTICAL 10,000-GALLON FUEL OIL ABOVE GROUND STORAGE TANK REMOVED IN 1985
□	FORMER HORIZONTAL 10,000-GALLON FUEL OIL ABOVE GROUND STORAGE TANK REMOVED IN 1975
[850.70]	WATER TABLE ELEVATION MEASURED ON 05/11/05
→	WATER TABLE CONTOUR
→	APPROXIMATE GROUNDWATER FLOW DIRECTION

**FIGURE G-6**  
**GROUNDWATER FLOW DIRECTION MAP FOR**  
**MAY 11, 2005**  
**KRAFT FOODS - ROTH PROPERTY**  
**1201 HUXLEY STREET**  
**MADISON, WISCONSIN**

PROJECT NO. 2647
DRAWN BY: KP
CHECKED BY: JM
APPROVED BY:
DRAWN: 08/22/05
REVISED: 09/03/05



- NOTES:**
1. BASE MAP FOR PARK AND RIDE AND TRANSFER POINT IS FROM KL ENGINEERING MAP DATED FEBRUARY 23, 2004.
  2. BURIED UTILITY LOCATIONS ARE APPROXIMATE.
  3. RAILROAD TRACK LOCATIONS ARE APPROXIMATE.
  4. BORINGS B-1A THROUGH B-IF WERE DRILLED AND SAMPLED UNDER THE DIRECTION OF KL ENGINEERING, MARCH 3, 2004.
  5. MW3 WATER LEVEL WAS NOT USED IN THE PREPARATION OF THIS WATER TABLE MAP.







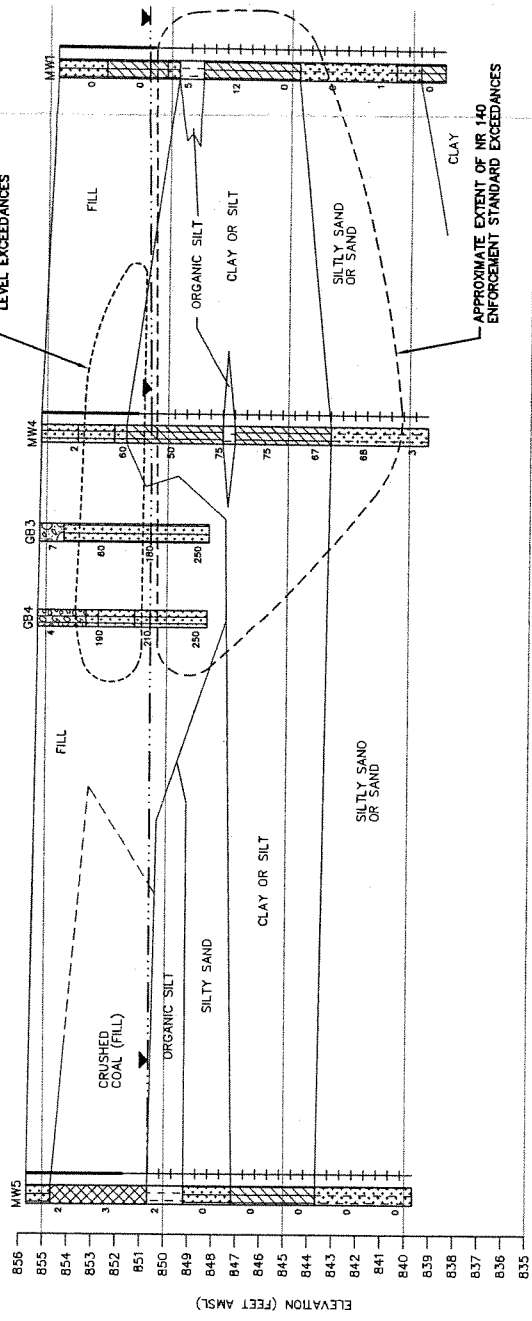






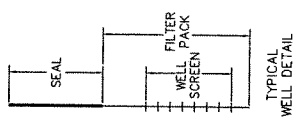
B  
(NORTH)

B'  
(SOUTH)



NOTES:

1. EXTENT OF POLYNUCLEAR AROMATIC HYDROCARBON (PAH) COMPOUNDS IN SOIL NOT SHOWN. SEE TABLE G-4 FOR PAH SOIL SAMPLING RESULTS SUMMARY.



0 30  
HORIZONTAL SCALE: 1" = 30'  
VERTICAL SCALE: 1" = 5'  
VERTICAL EXAGGERATION = 6X

LEGEND

- CRUSHED COAL (FILL).
- SAND, WELL GRADED, LITTLE OR NO FINES (SW).
- SILT (ML).
- ORGANIC SILT OR CLAY (OL OR OH).
- LEAN CLAY, LOW PLASTICITY (CL).
- GRAVEL, WELL GRADED, LITTLE OR NO FINES (GW).
- SILTY SAND (SM).
- CLAYEY SAND (SC).
- SILTY GRAVEL (GM).
- SAND, POORLY GRADED WITH SILT FINES (SP-SM).
- SILTY CLAY (CL-ML).
- PEAT (PT).
- WATER TABLE ELEVATION MEASURED ON MAY 11, 2005
- PHOTO-IONIZATION DETECTOR READING

FIGURE G-10  
GEOLOGIC CROSS SECTION B-B'  
KRAFT FOODS - ROTH PROPERTY  
1201 HUXLEY STREET  
MADISON, WISCONSIN

PROJECT NO. 2647  
DRAWN BY: RP  
CHECKED BY: JM  
APPROVED BY:  
DRAWN: 08/02/05  
REVISED: 08/03/05



Kraft Foods

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September 28, 2005

To: Wisconsin Department of Natural Resources

Subject: Statement that all Legal Descriptions for Properties within the  
Contaminated Site Boundaries have been Included  
Madison Metro North Transfer Point (KRAFT Roth Property)  
Former Petroleum Aboveground Storage Tank Site  
1201 Huxley Street, Madison, WI 53704  
Commerce # 53704-9999-01  
BRRTS # 02-13-524010  
BT<sup>2</sup> Project #2647

To Whom it May Concern:

To the best of my knowledge, I believe that with the submittal of the attached property information the legal description for each property within, or partially within the contaminated site boundary has been included with the closure request.

The attached property information includes the Deed and Legal Descriptions for properties located at 1201 Huxley Street and 1910 Roth Street, Madison, Wisconsin.

If you need additional information, please contact me at (608) 285-6882.

Sincerely,

A handwritten signature in cursive script that reads "Robert J. Sherman".

Mr. Robert Sherman  
Associate Director, Environmental Affairs





September 28, 2005

CERTIFIED MAIL WITH RETURN RECEIPT

Mr. Ray Fisher  
City of Madison Clerk  
Room 103  
210 Martin Luther King Blvd.  
Madison, WI 53703-3342

**SUBJECT: Notification of Potential Soil Contamination in the Huxley Street Right-of-Way  
Adjacent to Madison Metro North Transfer Point (KRAFT Roth Property)  
Former Petroleum Aboveground Storage Tank Site  
1201 Huxley Street, Madison, Wisconsin  
Commerce #53704-9999-01  
WDNR BRRTS #02-13-524010  
BT<sup>2</sup> Project #2647**

Dear Mr. Fisher:

BT<sup>2</sup>, Inc., has prepared this letter on behalf of KRAFT Foods (KRAFT), to fulfill the requirements set forth in Wisconsin Administrative Code (WAC) NR 726.05 for notification of the potential presence of soil contamination in the right-of-way for a public street or highway. For the location of the 1201 Huxley Street property and contamination limits, see the attached site location and contaminated properties maps.

We have completed the investigation of the site, and have prepared a site closure request, to be submitted to the Wisconsin Department of Commerce. According to NR 726.05, each property with NR 140 enforcement standard (ES) and/or NR 720 generic soil residual contaminant level (RCL) exceedances will be included on the WDNR Geographic Information System (GIS) Registry of closed remediation sites when the source site is granted closure. Affected street and railroad right-of-ways will also be shown on the GIS Registry.

Soil contamination may exist within the Huxley Street right-of-way. Soil boring MW2, located near the property boundary, contained diesel range organics at a concentration greater than the NR 720 RCL.

Polynuclear aromatic hydrocarbon (PAH) compounds were detected in soil sampled at MW2, in exceedance of Wisconsin Department of Natural Resources generic RCL interim guidance. However, the PAH soil contamination is not related to the petroleum release associated with the site and may be found in near-surface fill materials on other properties in the area.

Mr. Ray Fisher, City of Madison  
September 28, 2005  
Page 2

If you have any questions or would like to discuss this project further, please contact us at 224-2830.

Sincerely,  
BT<sup>2</sup>, Inc.



John B. Tweddale, P.G.  
Principal, Hydrogeologist



John Mason, P.G.  
Hydrogeologist

Attachments: Figure G-1 – Site Location Map  
Figure G-2 – Contaminated Properties Map

cc: Mr. Jim Chritton, Oscar Mayer Foods  
Mr. Rob Sherman, KRAFT  
Joe DeMorett, City of Madison

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BT2, INC.  
2830 DAIRY DRIVE  
MADISON, WI 53718-6751

ATTN: JMM

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1. Article Addressed to:

Ray Fisher  
City of Madison Clerk  
210 Martin Luther King Blvd  
Rm 103  
Madison WI 53703-3342

**COMPLETE THIS SECTION ON DELIVERY**

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X *Debra Schmidt*

- Agent
- Addressee

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Debra Schmidt

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9/30/01

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September 28, 2005

CERTIFIED MAIL WITH RETURN RECEIPT

Canadian Pacific Railway  
Attn: Thomas Parsons  
Environmental Engineer  
501 Marquette Avenue South, Room 804  
Minneapolis, MN 55440

**SUBJECT: Notification of Potential Soil Contamination in the Railway Right-of-Way  
Adjacent to Madison Metro North Transfer Point (KRAFT Roth Property)  
Former Petroleum Aboveground Storage Tank Site  
1201 Huxley Street, Madison, Wisconsin  
Commerce #53704-9999-01  
WDNR BRRTS #02-13-524010  
BT² Project #2647**

Dear Mr. Parsons:

BT², Inc., has prepared this letter on behalf of KRAFT Foods (KRAFT), to fulfill the requirements set forth in Wisconsin Administrative Code NR 726.05 for notification of the potential presence of soil contamination in the right-of-way for a railroad. For the location of the 1201 Huxley Street property and contaminant limits, see the attached site location and contaminated properties maps.

We have completed the investigation of the site, and have prepared a site closure request, to be submitted to the Wisconsin Department of Commerce. According to NR 726.05, each property with NR 140 enforcement standard (ES) and/or NR 720 generic soil residual contaminant level (RCL) exceedances will be included on the WDNR Geographic Information System (GIS) Registry of closed remediation sites when the source site is granted closure. Affected street and railroad right-of-ways will also be shown on the GIS Registry.

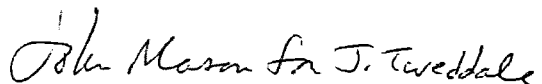
Soil contamination may exist within the Canadian Pacific Railroad right-of-way. Soil borings GB10 and B-1F, located near the property boundary, continued diesel range organics at concentrations greater than the NR 720 RCL.



Mr. Thomas Parsons, Canadian Pacific Railway  
September 28, 2005  
Page 2

If you have any questions or would like to discuss this project further, please contact us at 608-224-2830.

Sincerely,  
BT<sup>2</sup>, Inc.



John B. Tweddale, P.G.  
Principal, Hydrogeologist



John Mason, P.G.  
Hydrogeologist

Attachments: Figure G-1 – Site Location Map  
Figure G-2 – Contaminated Properties Map

cc: Mr. Jim Chritton, Oscar Mayer Foods  
Mr. Rob Sherman, KRAFT

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**APPENDIX K**

**BRRTS #02-13-315773  
Burke Wastewater Treatment Plant  
Site Investigation Workplan  
&  
Groundwater Monitoring Results**

**Reyco Site Investigation Work Plan  
Property Redevelopment  
Reyco Madison, Inc.  
BRRTS 02-13-315773  
1401 Packers Avenue  
Madison, Wisconsin**

**April 12, 2012**

**Prepared for:**

**Reyco Madison, Inc.**

**Wisconsin DNR  
3911 Fish Hatchery Road  
Madison, WI**

**Prepared by:  
IverTech LLC  
2880 Jonathan Circle  
Madison, WI 53711**

**Project No. 7562**



# IVERTECH LLC

## MEMO

**TO:** Jim Walden-Wisconsin DNR  
**FROM:** Dennis Iverson-IverTech LLC  
**SUBJECT:** Reyco Site Investigation Work Plan  
**DATE:** April 19, 2012

Copies

---

Jim,

Per your request, attached is a hard copy of our Reyco Work Plan.

Regards,

Dennis

RECEIVED

APR 20 2012

Remediation &  
Redevelopment

# IVERTECH LLC

---

April 12, 2012

Mr. James Walden, Hydrogeologist  
Remediation and Redevelopment  
Wisconsin DNR  
3911 Fish Hatchery Road  
Madison, WI 53711

Re: Reyco Site Investigation Work Plan  
Property Redevelopment  
Reyco Madison, Inc.  
BRRTS 02-13-315773  
1401 Packers Avenue  
Madison, Wisconsin

Dear Mr. Walden:

On behalf of Reyco Madison, Inc. (Reyco) and in response to our February 21, 2012 meeting, our February 22, 2012 meeting memo, and your subsequent March 1, 2012 email, we are submitting a proposed work plan for investigating the source of the elevated chromium levels in groundwater identified on the subject Property.

As agreed, following resolution of the groundwater exceedance issue, we intend to submit a request for an exemption to build on an abandoned landfill as part of site redevelopment.

Since the DNR has indicated that chromium in groundwater is believed to be a site wide issue, we have structured our proposed workplan based a review of what we feel is applicable historic information on the property and the adjacent Truax landfill site (Section 1.0). We then identified point of standards application issues (Section 2.0) and subsequent analysis of the information (Section 3.0) to formulate conclusions on likely source areas to assist in proposed investigation activity (Section 4.0).

To date, the primary investigation strategy has focused on the existence of sludge lagoons on the Property. Historic property use included a wastewater treatment plant from about 1914 to 1978. Sludge lagoons were used as part of the treatment process over the period from about the early 1950's to the mid 1970's.

*IverTech LLC  
2880 Jonathan Circle  
Madison, WI 53711*



## **1.0 SUMMARY OF KEY HISTORIC INFORMATION**

### **JANUARY 10, 2002 PHASE I ESA**

The following information was obtained from the Phase I ESA dated January 10, 2002 completed by Midwest Environics, Inc. (MEI). We understand that the DNR has a file copy of this document.

The text of the Phase I ESA summarizes information provided in the attached appendices. The following are key items gleaned from the report. Refer to the diagram in Appendix A for location of site features.

- Page 11 summarizes information from a May 16, 1980 Warzyn Engineering report. The MEI report noted that, while the report was primarily tasked with geotechnical issues related to site development, it did note the existence of "Shallow lagoons have been constructed along the east sections of the Property." The report noted the issue of the adjacent Truax landfill, but the concerns were primarily related to landfill gas.
- Page 14 noted that Reyco, in the late 1980's or early 1990's "Former sludge lagoons at the property were also closed by filling them in with fill material brought to the property by Madison Crushing and Excavating. "
- Page 14 also noted from discussions with James Nemke of MMSD that six sludge lagoons were constructed for use by Oscar Mayer, four of which were located on the parcel to the east and two on the Property. Lagoon 7 was constructed in 1968 and further noted, "Therefore, sludge was disposed in the former sludge lagoons at the subject property during the years that Oscar Mayer operated the wastewater treatment plant."
- Page 15 noted, "At one point, it was alleged that past disposal of sludge in the sludge lagoons at the Burke Wastewater Treatment Plant contributed to contamination at the landfill but nothing ever came of this allegation and MMSD was never named as a responsible party for the Truax Field Landfill contamination."
- Page 16 the report notes that, based on an interview with a former Oscar Mayer employee, Oscar Mayer also buried ash prior to 1958. "The ash was primarily used to prepare roads to the north and northeast of the Burke Wastewater Treatment facilities on the property." He estimated that the ash was disposed in an area that was to the northeast of the wastewater treatment plant's trickling filter and about 250 feet east of the western chain link security fence. The hog hair and toenails were also disposed in the northeast area of the subject property."
- Page 19 notes the wastewater treatment plant was in operation from about 1914-1978. Sludge lagoons 3 and 4 on the Property were constructed in the early 1950's and may have been in use until 1978. Sludge lagoon 7 was reportedly constructed in 1968 and may have been used until plant closure in 1978.

- Page 27 notes from discussions with RMT staff (consultant retained by Dane County to monitor the Truax landfill) addressing the discovery of heavy metals in soils at the landfill sit, "The remediation of high levels of heavy metals in soils can obviously be accomplished by excavation of the soils." This obviously suggests there is a heavy metals issue associated with the adjacent Truax landfill.
- Page 28 under Conclusions it states that "materials known to have been disposed at the subject property include, 1) sludge in the former sludge lagoons in the northeast and southeast areas of the property, 2) ash in the northeast area of the property from Oscar Mayer's coal-fired boilers during the 1950's, 3) hog hair and toenails in the northeast area of the subject property from the slaughtering of hogs at Oscar Mayer in the early 1950's to 1978, and 4) pieces of concrete and bricks from the razing of the former wastewater treatment facilities."

### ***Appendix G- Air Photos***

September 7, 1962 air photo-shows the location of sludge lagoons 3 and 4, which appear to be on the Property. Lagoons 1-2 and 5-6 are on the parcel to the east. It also shows the Truax landfill is in operation near the northern Property boundary. It appears that sludge lagoons 1 and 5 are in use.

May 8, 1968 air photo shows lagoon 1 appears to be in service and the proposed sludge lagoon shown west of Lagoons 5 and 6 is not yet constructed as suggested on the May 2, 1968 Oscar Mayer drawing referred hereafter as Lagoon 7. The landfill appears to be in operation and is not yet covered.

September 12, 1976 air photo shows lagoons 3 and 4 may be in operation, but lagoons 1-2 and 5-6 may be abandoned or not in use. Sludge lagoon 7 does not appear to be in use. The landfill no appears to be capped.

April 22, 1980 air photo shows Lagoons 1-2 and 5-6 do not appear to be in use. Lagoons 3-4 may be in use and are not covered. The Lagoon 7 area appears to be graded as a sludge lagoon, but there does not appear to be in use. The landfill appears to be closed. The treatment plant structures appear to remain in place.

April 10, 1986 air photo shows that sludge lagoons 3-4 have been covered/abandoned. The wastewater trickling filter is no longer evident but the sludge drying beds appear to remain. The Shopko store is now evident on the parcel to the southeast.

April 7, 1990 air photo shows fill material being placed over the former sludge lagoons 3-4 and other structures have been removed from the site. There is no obvious activity associated with the landfill.

March 16, 2000 shows fill material being placed in the Lagoon 3-4 area and the trickling filter has been removed. There is no obvious activity at the landfill. The golf course is now evident on the parcel to the northeast.



## Appendix H-MMSD File Information

May 14, 1968 letter to MMSD from Oscar Mayer requesting permission to construct an additional sludge lagoon as shown on their attached drawing (Appendix B). The letter notes the lagoon will replace lagoons 1-2 "These two lagoons were constructed under the US Air Force approval, but since this land has been taken over by the City, our continued use is unlikely." The lagoon was proposed to have an effective 6 foot depth.

Undated Burke Sewerage Treatment Plant flow data notes Sludge Lagoons 1-4 were constructed in 1956 with 1 and 2 being constructed on Air Force land. Sludge lagoons 5 and 6 were constructed in 1957-1958. Sludge lagoon 7 was constructed in 1968.

Undated (August 1988?) Engineering report by Dennis Stack. The report was reportedly generated to assess contamination at the Truax landfill area "...to make a preliminary determination of the presence or absence of chemical contamination which may have been caused by DOD-related activities." Page 1-1 notes four potential sources of contamination in the area to include the Practice Burn Pit, Truax landfill, Burke wastewater treatment plant, and Jet Fuel Storage area. There was groundwater monitoring completed "downgradient" of the landfill, treatment plant and burn pit. The results show in well TG-2 "A relatively shallow monitoring well (TG-2) installed downgradient of the former treatment plant had concentrations of chromium, lead, and cadmium in excess of MCLs and/or MCLGs." The well is located west of the treatment plant and landfill and had a chromium concentration of 94 ug/L. TC-9 located directly west of the southwest corner of the landfill had a chromium concentration of 302 ug/L and TG-10, located west of the northern portion of the landfill has chromium concentration of 178 ug/L (see Table 1-1 in Appendix B).

October 2, 1990 letter to MMSD from Attorney Linda Clifford at LaFollette Snykin noted, "The results suggest detects and exceedances for arsenic, cadmium, and selenium concentrated at well MW-5, MW-5A, and MW-5B, and MS-6 located in the vicinity of the former sludge lagoons. This information leads to the conclusion that hazardous substances are being released from the treatment plant facility." MMSD responded October 17, 1990 stating "The District feels strongly that any pollutants, which might be confirmed in the Truax area are not the result of the District's operation of the Burke plant."

An October 29, 1990 letter from Axley Brynelson to Wausau Insurance answered a number of questions about the operation of the Burke treatment plant site. On Page 4 when asked about any releases that may have taken place on the treatment plant site, the attorney for the MMSD responded "We are not aware of any leaks, spills or other releases at the site." The letter noted Oscar Mayer ran the plant from about 1951-1978.

Letter dated December 14, 1990 from MMSD to Dave Trainor at Dames & Moore regarding asking for comments on their draft report on the Truax landfill. The letter takes

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dliverson@charter.net

exception to the statement that suggests the MMSD site operations may have an impact on a monitoring well located between the landfill and the treatment plant (MW-10). The letter states, "The District is unaware of any discharge that would have occurred in the vicinity of MW-10."

August 28, 1991 letter from DNR to Peter Peshek, regarding a consent order in the Finding in Fact... asking, among other issues that additional wells be installed upgradient to the northwest and recommended grading activity be halted until the remedial action plan is developed for the landfill. The order notes groundwater flow is to the south and may be influenced by local high capacity wells to the west.

November 4, 1991 letter to DNR from Reyco requesting approval to close former sludge pond, which appears to be the Lagoon 7 area.

February 4, 1992 letter to Reyco from MMSD regarding lab results of a sludge sample they analyzed. The letter noted, "These results are typical of a domestic wastewater sludge, and should not preclude the type of closure activities that you have proposed for the former burke wastewater treatment plant." The chromium concentration noted in the sample # 1 was 10.3 ppm or 18.3 mg/kg and 7.8 ppm or 13.4 mg/kg for Sample 2.

March 30, 1992, letter from DNR to Reyco conditionally approving the lagoon closure. The conditions included maintaining groundwater monitoring wells, sampling wells quarterly for NO<sub>3</sub>, chlorides, fecal coliform, and COD (no metals). The sludge was recommended to be landspread by incorporation based on nitrogen.

#### **Appendix J DNR Information**

August 9, 2000 letter report from RMT to DNR regarding monitoring device management. It contained a map showing all monitoring points associated with the Truax landfill (Appendix E) including wells MW-5, 5A, and 5B, TG-2, and MW-10 that appear to be on or very near the Reyco property.

November 22, 2000 RMT monitoring letter to DNR indicating, "Groundwater continues to flow to the northwest, and downward hydraulic gradients observed at well nests MW-3, MW-4, and MW-5."

#### **DNR FILE REVIEW FOR TRUAX SITE**

IverTech conducted a DNR file review associated with the Truax Landfill site. While there is a substantial amount of information on the site, we were searching for information relative to the Reyco Site. The following summarizes key information from the file review:



**Truax Landfill Environmental Contamination Assessment Report dated May 1992**  
(Appendix C) contained:

- a summary table of monitoring well construction information including wells on the Reyco Property.
- Page 6-10 information suggesting a clay deposit underlies the Property. The report notes the clay deposit acts as a confining unit separating the upper aquifer for which the water table flows north-northwest and the lower bedrock aquifer flows southerly or westerly and is influenced by nearby high capacity wells.
- Page 6-10 which states that groundwater flow across the area "...is to the west-northwest..." "Groundwater flow over the eastern portion of the landfill appears to be to the east toward Starkweather Creek..." and "Groundwater flow near the southern edge of the landfill is south, east, and west, or away from the groundwater mound created by the perched water condition in this area of the site."
- Page 7-19, 7-30 and 7-55 notes, in regard to Groundwater Samples notes, "The heavy metals arsenic, cadmium, chromium, lead, and selenium were detected in several monitoring well samples." It also notes that arsenic concentrations of MW-10 (off the southeast corner on the landfill) exceeded the ES. Chromium was also detected in piezometer MW-3A, which is west of the landfill.
- Page 7-61 concludes that heavy metals in general were found in the area of the former wastewater treatment plant, but "...the absence of heavy metals in the piezometers screened in the lower bedrock aquifer below the aquitard, indicates that movement of these constituents are constrained by the aquitard."
- Page 7-64 under Heavy Metals states, "Shallow aerobic (oxygenated) groundwater zones are especially susceptible to hexavalent chromium contamination. Under oxidizing conditions, insoluble trivalent (Cr+3) becomes oxidized to the more soluble hexavalent chromium (Cr+6) and undergoes little retardation by adsorption."

**December 15, 2010 Second Semi Annual 2010 Groundwater Monitoring Results**  
(Appendix D)

This document, prepared by RMT for Dane County, provides a summary of monitoring activity completed September 28-30, 2010. The report notes "Shallow groundwater at the site flows radially away from the landfill. This interpretation is historically consistent." "Regional groundwater likely flows southwesterly toward the Yahara River/Lake Mendota."

The report attached a monitoring well location map dated August 1994 prepared by Dames & Moore. The map shows that monitoring well nest MW-5, 5A, and 5B and MW-10 and TG-2 appear to be located on the Property.

**Phase II ESA by REA dated April 10, 2002**

The Phase II ESA by REA (we understand DNR has a copy of the report) completed soil probes, soil sampling, and groundwater sampling in three areas of the site recommended by MEI. The locations sampled included the northern portion of sludge lagoon 3, sludge lagoon 7, the decant pond, and the sludge drying bed area.

The results suggest about 9 feet of fill soils and some not putrescible waste overlying a layer of sludge in the northeastern portion of the sludge lagoon 3 area with no sludge identified in other probes. The probes in the sludge lagoon and decant pond area showed sandy fill soils to about 12-16 feet. The probes in the sludge drying bed area showed about two to three feet of fill over about a four foot layer of native clay overlying sand. Chromium levels in excess of NR 140 enforcement standards were identified at each location.

**REVIEW OF AVAILABLE GROUNDWATER MONITORING DATA FOR THE TRUAX SITE**

DNR staff recommended IverTech access the DNR GEMs database for groundwater monitoring data associated with the Truax landfill.

Using the Dames & Moore monitoring location map (Appendix E) and the website database, IverTech downloaded selected monitoring well locations for chromium data. Selected wells included MW 5 and 5A, MW-10, and TG-2 which appear to be located on the Property. The only low level (below PAL) detection noted for chromium was three out of eight sampling events at TG-2.

Upgradient MW-2 had detection for chromium. MW-4 located southwest of the Property and southwest of the intersection of Aberg Avenue and Packers Avenue had detections of chromium in seven of ten sampling events, however nearby TG-1 did not reveal detection. MW-6 located southeast of the Property had a detection of chromium in one of ten sampling events. MW-7 and MW-8 located east of the Property did not reveal detection for chromium. MW-11 located west of the landfill did not indicate a detection of chromium. See Appendix E for summary data sheets.

**DISCOVERY OF A FORMER CITY OF MADISON LANDFILL RESEARCH PROJECT**

As part of site redevelopment activities in the summer of 2011, the concrete walls of the former sludge drying beds (see Figure 2 in Appendix F) were removed. The removal activity was completed from southeast to northwest. The concrete structures were partially visible, but mostly buried at depths of about 6-8 feet. The top area of the beds were nearly at grade level and covered with vegetation varying from native grass to small trees. Upon removal the foundations in the area identified on Figure 2, the excavation contractor identified what appeared to be solid waste.



IverTech was retained by Reyco to provide assistance in mid August 2011. Initial measures included conducting test pits to determine the nature and vertical extent of the exposed waste. It was determined that the waste appeared to be municipal in nature with no signs of hazardous materials. The waste appeared to be well stabilized (no sign of garbage, limited sign of paper, no odor, mostly soil, glass, and plastic). The waste was about 4-6 feet in depth.

As the excavation of waste expanded laterally it became evident that the waste placement was far more extensive than anticipated and the waste disposal area included what appeared to be a bituminous paved/plastic sheeting liner system in individual cells that sloped to what appeared to be leachate sumps. As such it became evident that the waste was placed in an engineered fashion and not randomly dumped.

Reyco had contact with MMSD and the City regarding the situation and MMSD indicated it wanted more information on the nature and extent of the waste prior making any offer of assistance.

Because the volume of waste far exceeded the initial volume estimate, Reyco (with direction provided by IverTech) decided to define the extent of the waste placement by excavation and stockpiling within the footprint of the waste area. The waste was found to be about 5-6 feet in depth and contained within the walls of the former sludge drying beds. The limit of waste was found to be as noted on attached Figure 2. The waste is primarily stockpiled in quadrant labeled "2" on Figure 2. The waste volume has been estimated to be about 2000 cubic yards. Based on the truck tonnages, it appears the unit weight of the waste is about 2000 pounds per cubic yard. The waste consists primarily of soil (perhaps 75% by weight), with lesser quantities of plastic, glass, some wood, limited organics (carpeting, paper, etc).

Following discussions with Linda Hanefeld during waste removal, it was agreed that IverTech would collect soil samples from beneath the "liner system". Two soil samples were collected from beneath cell labeled "2" on Figure 2. The samples were analyzed for VOC. There were no detections noted.

## **2.0 POINT OF STANDARDS APPLICATION ISSUE**

NR 140.22 Point of Standards Application for Design and Compliance provides information on the point of standards application (design management zone or DMZ) for various regulated activities.

Table 4 in that section notes the DMZ for landfills is 250 feet from the landfill and/or the property line. Based on a review of recent property survey mapping, it appears the Truax landfill has encroached onto the subject property suggesting the DMZ extends 250 feet beyond the southern portion of the landfill as noted on the RMT location noted in Appendix E. The marked up Figure 2 (Appendix A) from the REA Phase II ESA notes the approximate extent of the landfill DMZ.

*2880 Jonathan Circle Madison, WI 53711  
608-273-3751 608-273-3754 (fax)  
dliverson@charter.net*

The Monitoring Locations map attached to the December 15, 2010 RMT quarterly Monitoring report (Appendix D) also shows the locations of sampling points, limits of waste, and limits of the 250 foot Design Management Zone, which appears to extend well onto the subject property.

Based on Table 4 in NR 140.22 the DMZ for the former sludge lagoons is 100 feet from the edge of the lagoons.

Based on the above information and the marked up REA Figure 2 Appendix A), it appears that the Phase II ESA activity completed by REA was conducted in the sludge lagoon 3 (SL 3) area for probes B-1 through B-4 and in sludge lagoon 7 for probes B-9 through B-11, the former decant pond for probes B-12 and with the sludge drying beds for probes B-5 and B-6, and very near the sludge drying beds for probes B-7 and B-8. NR 140.24 requires response for exceedances which are measured at the point of standards application.

### **3.0 ASSESSMENT OF BACKGROUND INFORMATION**

Based on the above information, it appears that former sludge lagoons No. 3, No. 4 and No. 7, and possibly fly ash disposal were the only potential sources identified on the Property that required further investigation. The former long time owner, MMSD, repeatedly has stated they are not aware of any release on the Property. The Phase II ESA activities included soil and groundwater sampling in the three former lagoon areas. There were no other potential source areas identified.

The only indication of encountering sludge noted in the Phase II ESA was probe B-1 within former sludge lagoon No. 3, and that was only 1-2 feet at one location. The samples collected in the Phase II ESA activity appear to have been obtained from directly beneath the sludge lagoons/sludge drying beds and not at the DMZ.

There is limited information available on the volume or handling of the sludge in the lagoons, except for decommissioning activity by Reyco in sludge lagoon 7 where the sludge was removed. In addition, over 30 years have passed since the time the lagoons were in service. As such, it is highly probable that any sludge that remained at that time has decomposed and along with it, the potential source area for ongoing release of contaminants.

The former sludge drying beds located in the area of B-5 and B-6 in the Phase II ESA did not encounter sludge and the area of the landfill experiment (Appendix F) was reconfigured in the early 1970's. As such there was no documented sludge in that area since that time. In approving the decommissioning of sludge lagoon 7 the DNR, in their March 30, 1992 approval noted that the chemical composition of the sludge was typical for municipal sludge and there was no additional requirement to sample the sludge for heavy metals.



Site investigation information completed associated with the Truax landfill site suggests the Property is located over a clay layer that appears to act as a confining unit/aquitard separating the shallow groundwater flow system, which appears locally to be flowing northwesterly, and the deeper bedrock aquifer which appears to flow southerly.

The adjacent Truax landfill has documented groundwater contamination that includes heavy metals including chromium. In addition, there is documentation that a groundwater mound exists within the landfill that has created radial groundwater flow that has likely reached the Property. The DMZ for the landfill extends about 250 feet onto the Property along much of the northern boundary. As such, data collected within the DMZ or perhaps further from the landfill, could likely be representative of comingling of two potential contaminant source area plumes (landfill and sludge lagoons) and separation of impacts is thus likely very subjective.

Historic monitoring data from the existing monitoring network associated with the Truax landfill, specifically data from the late 1980's compared to more recent data, suggest the chromium concentrations in groundwater have reduced on the Property and the vicinity.

There currently appears to be three groundwater monitoring locations on the Property that are monitored as part of the Truax landfill situation. The data generated from historical sampling of these sampling locations revealed no detection of chromium in two locations, (MW-10 and MW-5). MW-10, which appears to be located near the boundary of former sludge lagoon No 3 did not reveal a detection for chromium. TG-2 located in the south-central portion of the Property did reveal a low level (below PAL) in three historic sampling events nearly ten years ago. This information suggests that although there may be localized elevated levels of chromium, there does not appear to be exceedances with distance from the site.

In terms of potential receptors, it appears that the clay underlying the site may limit contaminant migration into the locally used aquifer.

#### **4.0 PROPOSED INVESTIGATION PROGRAM**

The Phase II ESA investigation, former sludge lagoon decommissioning ( Sludge Lagoon 7 and Decant Pond area), and the work last fall in the former landfill experimental area suggest there are limited contaminant source areas on the Property and any identified contaminants are likely residual impacts from historic on site sludge lagoon activity and/or impact from the adjacent Truax landfill. As such, the proposed site investigation activity will be limited to additional direct push soil and groundwater sampling in the former sludge pond areas (GP-1, GP-2, GP-4, GP-5), the former sludge drying bed area (GP-7), and two sampling locations about 100 feet (DMZ) west (GP-3) and northwest (GP-6) from the sludge lagoons (see marked up Figure 2 in Appendix A).

The soil sampling will include observing and logging the soil column, and collecting one sample per location for laboratory analysis for total chromium. The soil sample will be collected in any area of identified sludge, or if no sludge is observed, it will be collected native soils underlying the fill soils. The soil probe locations and elevations will be obtained by surveying.

Groundwater samples at each sampling location will be obtained by extending the push probe into the top few feet of the groundwater table, which is expected to be encountered between 12 and 16 feet. The groundwater samples will not be filtered and will be analyzed for total chromium.

If access can be secured groundwater samples for total chromium and water table elevations will be obtained from MW-5, MW-10, and TG-2.

The results and analysis of the sampling activity will be summarized in an investigation report to the DNR.

We intend to complete the investigation work within 45 days of receiving DNR concurrence to proceed.

#### 5.0 SUMMARY

We believe the workplan reflects a diligent effort to assess relevant historic information to develop recommended investigative efforts of likely source areas.

If you have any questions, please feel free to contact us at any time.

Sincerely,  
IverTech LLC



Dennis L. Iverson, P.E.  
Principal Engineer

Copies: Mr. David Reynolds-Reyco Madison, Inc  
Mr. Carl Ruedebusch-Ruedebusch Development

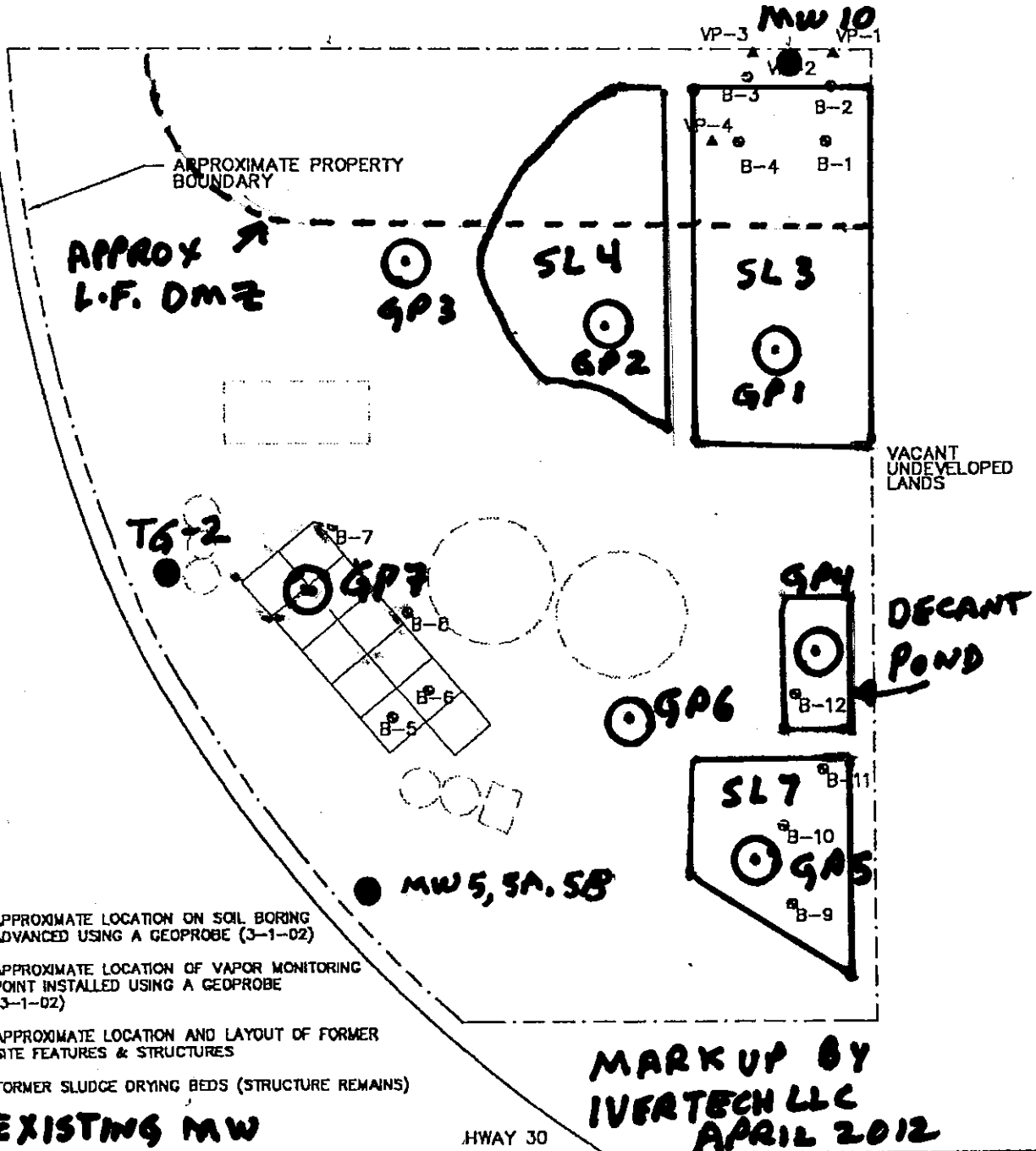


**APPENDIX A**

**FIGURE 2-SITE MAP AND PROPOSED SAMPLING LOCATIONS**

FORMER TRUAX LANDFILL  
(CURRENT BRIDGES GOLF COURSE)

PACKERS AVENUE



**LEGEND**

- ⊙ B-12 APPROXIMATE LOCATION ON SOIL BORING ADVANCED USING A GEOPROBE (3-1-02)
- ▲ VP-3 APPROXIMATE LOCATION OF VAPOR MONITORING POINT INSTALLED USING A GEOPROBE (3-1-02)
- [ ] APPROXIMATE LOCATION AND LAYOUT OF FORMER SITE FEATURES & STRUCTURES
- [ ] FORMER SLUDGE DRYING BEDS (STRUCTURE REMAINS)
- **EXISTING MW**

HWAY 30

**MARK UP BY  
IVERTECH LLC  
APRIL 2012**

**⊙ PROPOSED  
SAMPLING  
LOCATION**



SCALE: 1" = 200'

**NOTES**

- 1) All dimensions and locations are approximate and are based on data from previous site reports and maps.
- 2) Geoprobe soil borings and vapor sampling points installed on March 1, 2002 by Soil Essentials. Sampling points located using fence line.
- 3) See Figure 1 for site location relative to Madison, Wisconsin.



**RESOURCE  
ENGINEERING  
ASSOCIATES, INC.**

8505 University Green, Suite 200  
Middleton, Wisconsin 53562-2507  
608-831-6563 (Fax 831-6564)

**REYNOLDS PROPERTY**  
1401 Packers Avenue  
Farmer Burke Wastewater Treatment Plant  
Madison, Wisconsin

**SITE LOCATION, FORMER FEATURES &  
GEOPROBE SOIL BORING LOCATIONS**

Date: Mar 2002  
Drawn: SKB  
Ck'd: WWB  
Proj: #02008.1

reynolds2.dwg

**FIGURE 2**



**APPENDIX B**

**1968 SLUDGE LAGOON LOCATION MAP AND  
STACK INVESTIGATION REPORT MAP AND TABLE 1-1**

PROJ. NO. 4-131-M

DRG. NO. A-1075

HIGHWAY 113

**REVCO PROPERTY**

CITY

M.M.S.D. PROP. LINE

BURKE

SLUDGE 4 3

LAGOONS 2 1

MADISON

PLANT

Power Tower

SLUDGE 5

LAGOONS 6

PROPOSED SLUDGE LAGOON NO. 7

CONNECTOR HIGHWAY

PROPOSED 1968 SLUDGE LAGOON  
BURKE WASTE TREATMENT PLANT

**OSCAR MAYER & CO.**  
GENERAL PLANNING  
& ENGINEERING DIV.  
MADISON, WISCONSIN

SCALE  
NONE

DRAWN BY  
DOD

CHK'D BY

PROJ. NO. 4-131-M

SHEET 1  
OF 1

DATE  
5-2-68

APP'D BY

DRG. NO. A-1075



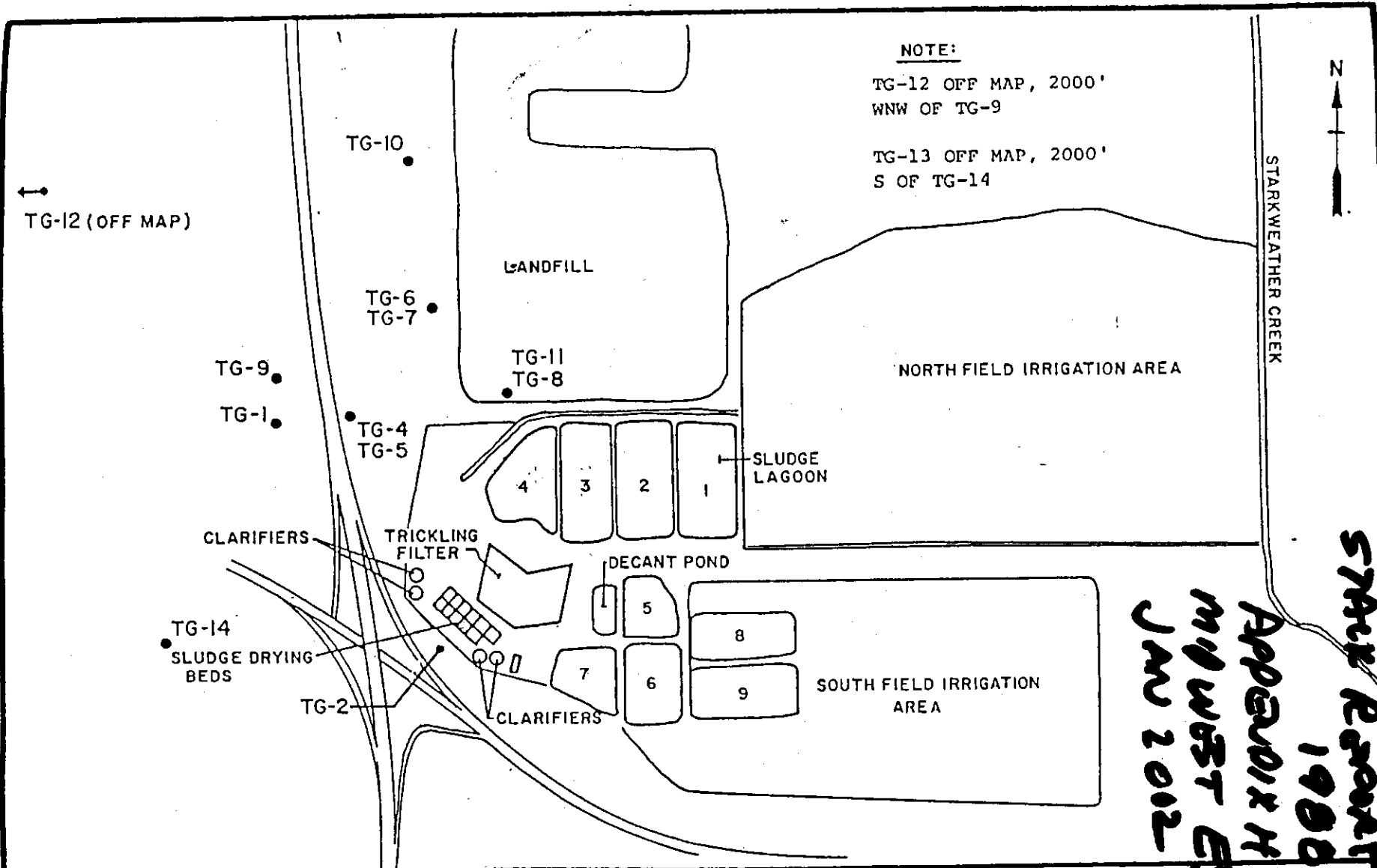


FIGURE 3-2

Location of Groundwater Wells

*SOURCE - DENNIS STARK REPORT - APPROX 1988? MHWBT ESA JAN 2012*

SOURCE -

DENNIS STACK  
REPORT

1988 ?

TABLE 1-1

SUMMARY OF CONTAMINANTS PRESENT IN GROUNDWATER  
IN EXCESS OF MCLS AND MCLGS

Well Designation	Site Description	Level of Contaminants, (MCLG/MCL), ug/l						
		Chromium (120*/50)	Cadmium (5*/10)	Mercury (3*/2)	Lead (20*/50)	TCE <sup>a</sup> (0/5)	Vinyl Chloride (0/2)	Xylene (440*/-)
TG-1	Downgradient of landfill				30			
TG-2	Downgradient of WWTP	94	7		124			
TG-3	Near Burn Pit				24			705
TG-5	Well 200S Downgradient of landfill							
TG-9	Well 152 Downgradient of landfill	302	12		333			
TG-10	Well 104 Downgradient of landfill	178	5		157	3.9		
TG-11	Well 101 Downgradient of landfill			2	62		16.7	
TG-12	Madison Well No. 7							
TG-13	Oscar Mayer Well No. 3					11.0		
TG-14	Oscar Mayer Well No. 5					2.2		

\* = Proposed

a = TCE = Trichloroethylene

MCLG = Maximum Contaminant Level Goal

MCL = Maximum Contaminant Level

Blank entries indicate MCLs and/or MCLGs were not exceeded



**APPENDIX C**

**PORTIONS OF DAMES & MOORE REPORT MAY 1992**

**OFFICE COPY**

**RECEIVED**

JUN 02 1992

**BUREAU OF SOLID  
HAZARDOUS WASTE MANAGEMENT**

---

**TRUAX LANDFILL  
ENVIRONMENTAL CONTAMINATION  
ASSESSMENT REPORT**

**MADISON, WISCONSIN**

**MAY 1992**

---

 **DAMES & MOORE**

JOB NO. 16289-007



WELL NUMBER	ELEVATION TOP OF PVC (FT MSL)	ELEVATION GROUND SURFACE (FT MSL)	TOTAL BOREHOLE DEPTH (FT)	DEPTH SCREEN BOTTOM (FT)	ELEVATION SCREEN BOTTOM (FT MSL)	DEPTH SCREEN TOP (FT)	ELEVATION SCREEN TOP (FT MSL)	DEPTH BOTTOM OF SEAL (FT)	ELEVATION TOP OF FILTER PACK (FT MSL)
MW-1	858.43	856.0	19.5	19.0	837.0	9.0	847.0	5.2	850.8
MW-1A	858.33	856.0	203	200.0	656.0	195.0	661.0	191.0	665.0
MW-2	885.15	883.1	66.5	55.0	828.1	45.0	838.1	41.0	842.1
MW-3	884.37	881.4	62.0	62.0	819.4	52.0	829.4	47.3	834.1
MW-3A	884.48	881.4	127.5	125.0	756.4	120	761.4	115.0	766.4
MW-4	860.89	858.9	19.5	18.2	840.7	8.2	850.7	4.0	854.9
MW-4A	860.55	858.7	204.0	191.4	667.3	186.4	672.3	174.8	683.9
MW-4B	859.91	858.5	280	278.0	580.5	273.0	585.5	267.9	590.6
MW-5	856.31	854.3	18.0	17.9	836.4	7.9	846.4	4.0	850.3
MW-5A	855.53	854.3	176.5	176.0	678.3	171	683.3	167.0	687.3
MW-5B	855.67	854.3	372	348.0	506.3	343.0	511.3	338.0	516.3
MW-6	853.60	851.7	14.0	13.5	838.2	3.5	848.2	2.5	849.2
MW-7	852.68	847.7	15.0	12.5	835.2	2.5	845.2	1.5	846.2
MW-8	852.10	849.1	15.0	12.0	837.1	2.0	847.1	1.5	847.6
MW-9	888.84	886.4	78.0	61.0	825.4	51.0	835.4	46.5	839.9
MW-10	859.57	857.2	15.4	15.4	841.8	5.4	851.8	3.0	854.2
MW-11	883.91	881.6	45.0	44.0	837.6	34.0	847.6	30.0	851.6
MW-12A	884.80	882.3	22.0	20.0	862.3	10.0	872.3	5.9	876.4
MW-12B	884.68	882.3	62.0	59.3	823.0	49.3	833.0	45.0	837.3
MW-13	893.61	891.7	66.5	66.0	825.7	56.0	835.7	47.5	844.2
MW-13A	893.67	891.5	149.0	148.3	743.2	143.3	748.2	137.0	754.5
MW-14	864.79	863.0	29.0	27.5	835.5	17.5	845.5	13.4	849.6
TG-1	865.68	862.9	28.8	28.3	834.6	18.3	844.6	16.8	846.1
TG-2	861.09	858.4	25.5	24.5	833.9	14.5	843.9	12.9	845.5

1 - All depths are measured from ground surface

2 - Includes fine-grained sand seal

Plan Sheet 16. The potentiometric surface map is not entirely valid because the piezometers in the bedrock are screened at different elevations. In addition, two piezometers are installed below the clay confining unit while the other two piezometers installed in the bedrock are under unconfined conditions. However, based on the hydrogeologic data obtained from this investigation, the groundwater flow direction in the lower aquifer as illustrated on the potentiometric surface map (Plan Sheet 16) is believed to be representative of actual conditions.

## 4.2.1 Groundwater Flow

Groundwater flows through geologic materials from points of higher hydraulic head to points of lower head; hydraulic head being indicated by water levels. The rate of groundwater flow is proportional to the permeability of the geologic material and the hydraulic gradient. Permeability indicates the ease through which water can move through the material. The hydraulic gradient is the ratio between the difference in hydraulic head and the distance along the flow path.

The water table contour maps illustrate that groundwater flow across the landfill site area is to the west-northwest at an average horizontal gradient of 0.016 ft/ft. The horizontal hydraulic gradient over the central part of the landfill is approximately 0.007 ft/ft. The gradient increases to approximately 0.026 ft/ft as the bedrock high or groundwater trough is approached. Groundwater flow over the eastern part of the landfill appears to be east towards Starkweather Creek at a gradient of approximately 0.007 ft/ft. Groundwater flow near the southern edge of the landfill is south, east, and west, or away from the groundwater mound created by the perched water condition in this area of the site. A comparison of the two water table contour maps presented on Plan Sheet 14 and Plan Sheet 15 indicate that seasonal water level fluctuations have little effect on flow conditions in the upper aquifer in the site area.

Groundwater flow conditions in the unconfined glacial aquifer are consistent with flow conditions presented in a study performed by Kaufman in 1969. A water table contour map prepared by Kaufman is presented in Appendix F. The most significant data presented on this



### 7.2.1.1 Groundwater Samples

The indicator parameters alkalinity, chemical oxygen demand (COD), hardness and Total Dissolved Solids generally exceeded background levels in the monitoring wells downgradient of the landfill and wastewater treatment plant. The highest values for alkalinity, COD, and hardness were measured in samples from the water table wells MW-10, MW-5, and MW-6, respectively. The highest values were consistently found in the water table well samples, although COD values were considerably higher than background levels in samples from the piezometers MW-4B and MW-5A. Specific conductance was significantly higher than background levels in many samples from the downgradient wells. Similarly, TDS levels were also generally higher than background levels for the downgradient wells. Indicator parameter concentrations were occasionally higher in samples from the wells screened in the deeper aquifer compared to samples from wells screened in the shallow aquifer in some well nests.

Chloride, manganese, copper, color, Nitrate/Nitrogen and sulfate all exceeded the Public Welfare Enforcement Standards (ES) for these compounds in some well samples. Nitrate/Nitrogen exceeded the ES at water table wells MW-4 and MW-5, and also the PAL at water table wells MW-3, MW-9, and TG-2, and at intermediate depth piezometer MW-3A. The heavy metals arsenic, cadmium, chromium, lead, and selenium were detected in several monitoring well samples. Arsenic concentrations exceeded the PAL in samples from shallow monitoring wells 200S and MW-8 and in samples from the intermediate depth piezometers MW-4A and MW-5A. In the area of the former treatment plant, arsenic concentrations exceeded the ES in a sample from monitoring well MW-10 with a concentration of 84.5  $\mu\text{g/l}$ .

Selenium concentrations exceeded the PAL in samples collected from monitoring wells MW-9 and TG-2 and approached the ES in the sample from well MW-5. Concentrations of heavy metals were also detected in samples from wells in the wastewater treatment plant area and in the WWTP irrigation area east of the landfill. In addition, no heavy metals were detected in the deeper sandstone aquifer except for trace amounts of chromium in the sample from piezometer MW-3A, cadmium in the sample from piezometer MW-1A, and lead in the sample from Oscar Mayer cooling water supply well OM-5.

Chloride was detected in L of 125 mg/l in six shallow water table wells and one deep piezometer. Four of the six shallow wells exceeded the ES of 250  $\mu\text{g/l}$ . A concentration of 210  $\mu\text{g/l}$  was detected in the deep piezometer MW-5B screened below the aquitard. Fluoride was detected at concentrations above the PAL of 0.44 mg/l in a total of seven monitoring wells, none of which exceeded the ES of 2.2 mg/l. Sulfate exceeded the PAL of 125 mg/l in six shallow water table wells: MW-6, MW-7, MW-8, MW-9, MW-10, TG-1. The highest concentration was detected in MW-8 at 1210 mg/l.

The heavy metals arsenic, barium, chromium, and lead were detected in several monitoring well samples. Arsenic concentrations exceeded the PAL of 5  $\mu\text{g/l}$  in four shallow water table wells (MW-10, MW-8, MW-6, and 200S) and in two piezometers (MW-4A and MW-5A). The concentration detected in MW-10 (90.6  $\mu\text{g/l}$ ) also exceeded the ES of 50  $\mu\text{g/l}$ . Trace amounts of arsenic were detected in the shallow water table wells MW-2 and TG-2 and the upgradient piezometer MW-1A. The arsenic concentration detected in MW-7 (4.0  $\mu\text{g/l}$ ) approached the PAL of 5  $\mu\text{g/l}$ . No arsenic was detected below the aquitard. Arsenic concentrations appear to be highest near MW-10 which is located between the Truax Landfill and the Burke Wastewater Treatment Plant.

Barium was detected in trace amounts in a total of six shallow water table wells and one piezometer MW-1A. These values were the same as or slightly exceeded the PAL and detection limit of 0.2 mg/l. None of the concentrations were above the ES of 1 mg/l or the upgradient background levels.

Chromium was detected in trace amounts in piezometer MW-3A and in four shallow water table wells including the upgradient well MW-1. Lead was also detected in trace amounts in three shallow water table wells and the two Oscar Mayer water supply wells. Neither the PAL or ES for either lead or chromium were exceeded in any of the well samples.

Manganese was detected in 14 wells at concentrations exceeding the PAL of 0.025 mg/l. Twelve of these are also above the ES of 0.05 mg/l. The highest values detected were for MW-6 (1.00 mg/l), MW-10 (1.00 mg/l), TG-1 (0.83 mg/l), MW-5 (0.82 mg/l), and MW-8 (0.45 mg/l).



exceeded the PAL of 0.025 mg/l in samples from all wells at least once during the investigation with the exception of one water table well (MW-14) and three piezometers (MW-3A, MW-5A, and MW-13A), which had samples with no detectable manganese throughout the study. Samples from sixteen wells had manganese concentrations that regularly exceeded the ES of 0.05 mg/l.

Zinc was detected in samples collected from seven water table wells, two water supply wells, and one piezometer. All detects were significantly less than the PAL of 2.5 mg/l. The highest concentration was detected in a sample from monitoring well MW-10 at 0.51 mg/l.

The heavy metals arsenic, barium, chromium, cadmium, lead and selenium were detected in samples from many wells throughout the investigation. Arsenic concentrations were detected in samples collected from ten wells during the investigation. Sample concentrations exceeded the PAL of 5  $\mu\text{g/l}$  from four water table wells (MW-5, MW-6, MW-8, and MW-10), air lift well P-200S, and two deep piezometers (MW-4A and MW-5A). Samples from wells MW-4A, MW-5A, and MW-10 consistently showed the highest concentrations of arsenic. Samples from well MW-10 exceeded the ES of 50  $\mu\text{g/l}$  twice with concentrations of 84.5  $\mu\text{g/l}$  and 90.6  $\mu\text{g/l}$  in samples collected during Phase I of the investigation. Arsenic concentrations have generally remained stable or increased slightly with time in samples collected from the deep piezometers. Arsenic concentrations have remained stable or decreased slightly with time as indicated by results of samples obtained from the shallow water table wells.

Barium concentrations attained or exceeded the PAL of 0.2 mg/l in samples from shallow water table wells TG-1 and MW-11 and from the piezometer MW-1A. The highest concentration of 0.67 mg/l was detected in a sample collected from MW-11 during the September 1991 sampling event. Trace concentrations were detected in samples from all other wells.

Trace concentrations of chromium were detected in samples from six shallow water table wells and two piezometers throughout the investigation. The highest concentration was measured in a sample collected from water table well MW-9 at 2.9  $\mu\text{g/l}$  (Phase I), which is well below the PAL of 5  $\mu\text{g/l}$ .

Nitrogen (nitrate + nitrite) concentrations are generally low in the upper aquifer and in the lower bedrock aquifer. Nitrogen concentrations exceeded the ES in samples from water table observation wells MW-3, MW-4, MW-5, MW-7, MW-8, and TG-2 and piezometer MW-3A. The highest readings were measured in samples obtained from monitoring wells located downgradient of active agricultural fields.

The heavy metals arsenic, barium, chromium, and lead were detected in samples from several monitoring wells and piezometers. In general, elevated levels of heavy metals were found in samples obtained from water table wells located in the area of the former wastewater treatment plant. The detection of heavy metals in the water table observation wells and the intermediate piezometers screened above the aquitard, and the absence of heavy metals in the piezometers screened in the lower bedrock aquifer below the aquitard, indicates that movement of these constituents are constrained by the aquitard.

Total aromatic (volatile organic) compounds were detected at least once in 17 of the 25 monitoring wells during the investigation. With the exception of well MW-5, all of the detects measured in samples collected from the monitoring wells during the Phase I investigation showed non-detect during the Phase II Investigation. Toluene was detected in all three rounds of samples collected from monitoring well MW-13 during the second phase of the investigation. Benzene was detected in samples from monitoring well MW-12B during the first and second rounds of (phase II) sampling. No aromatic compounds were detected in samples from either Phase I or Phase II in monitoring wells MW-4B, MW-5A, MW-5B, MW-10, MW-11, MW-13A, MW-14 or 200S. Concentrations of aromatic compounds detected in monitoring wells MW-1, MW-1A and MW-13 indicate that upgradient sources could be contributing aromatic compounds to the groundwater.

Chlorinated aliphatic (volatile organic) compounds were detected at least once in 7 of the 26 wells sampled during the investigation. Chlorinated compounds were detected in monitoring wells MW-2, MW-4B, MW-5B, MW-12B, and MW-14, and cooling water supply wells OM-3 and OM-5. Significant concentrations of tetrachloroethene and trichloroethene were detected in



chloride may result from the weathering of sedimentary and evaporite deposits. Elevated chloride concentrations in groundwater generally indicate seepage from sludge or sewage facilities or other contamination sources. Chloride concentrations are generally a good indicator of contamination because chlorides are not adsorbed or attenuated by soils.

### **7.5.6 Heavy Metals**

Concentrations of metals in most natural groundwater systems are generally low except in heavily mineralized regions. Metals are less likely to be a cause of significant deterioration of groundwater quality than most other contaminants. Elevated concentrations of metals in groundwater have been attributed to industrial and municipal landfills, mining operations, spills, sludge disposal operations and industrial sources.

The primary attenuation processes controlling metal ion concentrations in groundwater are adsorption-desorption and solution-precipitation reactions. Metal ions are relatively immobile in normal groundwater conditions due to their limited solubility and their affinity for adsorption to soil particles. Metal ions become more mobile in conditions of extreme pH which exerts an influence on the solubility and adsorption of these contaminants.

Shallow aerobic (oxygenated) groundwater zones are especially susceptible to hexavalent chromium contamination. Under oxidizing conditions, insoluble trivalent chromium ( $\text{Cr}^{+3}$ ) becomes oxidized to the more soluble hexavalent chromium ( $\text{Cr}^{+6}$ ) and undergoes little retardation by adsorption.

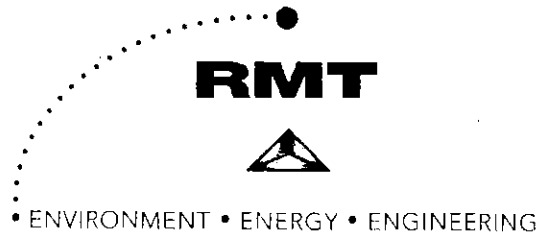
### **7.5.7 Organic Compounds**

Contamination of groundwater by organic compounds has increased due to the increased use and production of synthetic organic compounds and advanced detection methods of analytical chemistry. The toxicity of many of these compounds is unknown; however, it is recognized that low levels of these contaminants represent an environmental and health concern.

**APPENDIX D**

**RMT GROUNDWATER MONITORING REPORT  
DECEMBER 15, 2010**





December 15, 2010

Mr. Jim Kralick  
Hydrogeologist  
South Central Region Office  
Wisconsin Department of Natural Resources  
3911 Fish Hatchery Road  
Fitchburg, WI 53711

Subject: Second Semiannual 2010 Groundwater Monitoring Results  
Dane County Truax Landfill; License No. 03306

Dear Mr. Kralick:

On behalf of Dane County Regional Airport (DCRA), RMT is submitting this September 2010 semiannual groundwater monitoring report for the Truax Landfill, in accordance with the October 15, 2007 Plan Approval Modification. A copy of the exceedence report and a computer diskette containing the groundwater results have been submitted to the GEMS Data Coordinator of the Bureau of Waste Management, Wisconsin Department of Natural Resources (WDNR), Central Office.

### Groundwater Monitoring Program

Groundwater from the following 20 monitoring wells/piezometers was sampled and analyzed for field and indicator parameters during the September 2010 monitoring round:

- MW-1 / MW-1A
- MW-3 (with duplicate sample)/ MW-3A
- MW-4 / MW-4A / MW-4B
- MW-5 / MW-5A / MW-5B
- MW-7
- MW-10
- MW-11
- MW-12B / MW-12C
- MW-13 / MW-13A (with duplicate sample)
- MW-14
- MW-15
- TG-02

E:\WPMSN\PJT\00-03915\16\L000391516-037.DOCX

744 Heartland Trail • Madison, WI 53717 • 608.831.4444 • 608.831.3334 FAX • www.rmtinc.com

### Groundwater Levels and Flow

Water levels were measured at all the landfill monitoring wells on September 28 to 30, 2010. The following observations were made:

- Groundwater elevations have remained relatively consistent over the last few years, with 18 out of the 20 well locations exhibiting a steady elevation trend over the last couple of monitoring rounds.
- Groundwater elevations in the deeper wells, most notably MW-1A, MW-4B, and MW-5B continue to remain relatively consistent, since approximately 2006.
- The groundwater elevations in the "A-series" wells, including MW-1A, MW-3A, MW-4A, MW-5A, and MW-13A, have continued to match the groundwater elevation in the water table wells.
- Overall, the monitoring results continue to indicate a steady decrease in magnitude of the vertical downward gradients over the last several years. These downward gradients have diminished from historical values and flow has become more horizontal across the aquifer(s).

Shallow groundwater at the site flows radially away from the landfill. This interpretation is historically consistent. The shallow groundwater flow may be affected by the proximity of the landfill to the Bridges Golf Course (recharge from irrigation and surface ditches along the southeastern side of the landfill), the DCRA (large impervious surfaces), and industrial/commercial areas (numerous storm drains and impervious surfaces). Regional groundwater likely flows southwesterly toward the Yahara River/Lake Mendota.

### Groundwater Quality

Attachment 1 includes:

- the environmental monitoring data certification for the groundwater data
- a summary of the water quality indicator parameters that exceeded the current NR 140.10 Preventive Action Limits (PALs) and Enforcement Standards (ESs)
- a summary of the water quality indicator parameters that exceeded the well-specific PALs

Groundwater analytical results that exceeded NR 140.10 limits included the following:

- The ES exceedences occurred in 7 of the 20 wells sampled during the September 2010 round.
- The PAL exceedences occurred in 15 of the 20 wells sampled during the September 2010 round.
- The three wells with no NR 140.10 ES or PAL exceedences were MW-13A, MW-14, and MW-15.

The distribution and magnitude of NR 140 exceedences were evaluated by observing the trends in the concentrations at individual wells from over 18 years of monitoring data. Only parameters with exceedences during the September 2010 monitoring event were evaluated as follows:



Mr. Jim Kralick

Wisconsin Department of Natural Resources

December 15, 2010

Page 3

- **Arsenic – Arsenic (dissolved)** exceeded the ES standards in two wells (MW-4A and MW-5A), which is consistent with previous years. Arsenic concentrations have exhibited an overall decreasing trend since 2006 at MW-4A and since 2007 at MW-5A. Arsenic concentrations were between the PAL and ES in two wells (MW-7 and MW-10), which is consistent with previous years. The trend in arsenic concentrations had historically fluctuated markedly in MW-10, which is in the design management zone (DMZ), but remains within the historic range of values.
- **Cadmium – Cadmium (dissolved)** concentration was between the PAL and ES at one well, MW-7 (estimated), which is consistent with previous years.
- **Iron – Iron (dissolved)** exceeded the ES standard in two wells (MW-4B and MW-5B) and concentrations were between the PAL and ES in three wells (MW-04A, MW-05A and MW-10), which is consistent with previous years. Concentrations have historically shown variability at these monitoring locations, except at MW-5A. The iron concentration is highest in well MW-10 (DMZ well), however the concentration has exhibited a decreasing trend since 2008.
- **Manganese – Manganese (dissolved)** exceeded the ES standard in four wells (MW-4B, MW-5, MW-5B, and MW-7) and concentrations were between the PAL and ES in three wells (MW-1A, MW-10, and MW-12C), with MW-10 and MW-12C located in the DMZ. The concentration at MW-7 appears to be decreasing since 2002. The PAL exceedence at MW-12C is the first exceedence recorded for that well. Historical concentrations in these wells exhibit minor fluctuations at similar concentrations. The highest concentration is in MW-10.
- **Nitrates/Nitrites, as Nitrogen – Nitrates/nitrites** exceeded the ES standard in three wells (MW-5, MW-7, and MW-13) and nitrates/nitrites concentrations were between the PAL and ES in seven wells (MW-1, MW-3, MW-4, MW-5B, MW-11 (DMZ well), MW-12B (DMZ well), and MW-12C (DMZ well)). The nitrates/nitrites concentrations in MW-3 and MW-5B have been trending downward for several years. Concentrations at the other wells are relatively stable, with the exception of MW-1, MW-12B, and MW-13, all of which have exhibited an increasing trend over the past few monitoring rounds. The concentration at MW-7 is quite variable, ranging from below the PAL of 2.0 mg/L to over 200 mg/L.
- **Sulfate – Sulfate** exceeded the ES at one well (MW-7), and the PAL at one well, TG-02. The concentration in MW-7 is consistent with previous years, while the concentration in TG-02 has increased slightly over the past three monitoring rounds.
- **Tetrachloroethene – Tetrachloroethene (PCE)** was detected at concentrations, just above the PAL, at wells MW-12B and MW-12C (both are DMZ wells). The PCE concentration appears to have stabilized at MW-12B over the last several monitoring rounds and the concentration at MW-12C has exhibited a slight decreasing trend since 2008.

Mr. Jim Kralick  
Wisconsin Department of Natural Resources  
December 15, 2010  
Page 4

- **Trichloroethene** – Trichloroethene (TCE) was detected at concentrations between the ES and PAL in two wells, MW-12B (estimated and a DMZ well) and MW-12C (DMZ well), which is consistent with the previous 10 years.
- **Vinyl Chloride** – Vinyl chloride was detected at a concentration between the ES and PAL in one well, MW-12C (an estimated value and a DMZ well), which has exhibited a slight decreasing trend over the past two monitoring rounds.
- **Well-Specific PALs** – Alkalinity had minor PAL exceedences at two wells (MW-3A and MW-12C (DMZ well)), both of which have displayed historical variability. The hardness concentration exceeded the PAL slightly at two wells (MW-12C (DMZ well) and MW-13), with the concentration at MW-12C and MW-13 exhibiting an increasing trend. There were no well-specific PAL exceedences for specific conductance during the September 2010 monitoring round.

### Summary of Monitoring Results


The September 2010 exceedences of NR 140 groundwater quality standards are generally consistent with previous monitoring rounds. There is no evidence that suggests a contaminant plume is migrating away from the landfill. Groundwater quality data exhibit both increasing and decreasing trends at wells both upgradient and downgradient of the landfill.

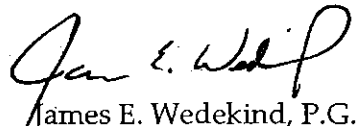
Changes in parameter concentrations over time may reflect changing redox conditions from the degradation of traces of organic compounds, or from the long-term changes in aquifer chemistry associated with increased commercial/industrial development around the DCRA.

In conclusion, analytical results from the September 2010 monitoring event are consistent with previous monitoring results. As stated in previous groundwater monitoring reports, RMT, on behalf of the DCRA, will be submitting a Plan Modification Request in 2011 for a reduction in the groundwater monitoring program. Please contact us if you would like to discuss any proposed changes prior to issuance of this request. If you have any questions or comments, please call us at (608) 831-4444.

Sincerely,

RMT, Inc.

  
Jason R. Schoephoester  
Environmental Scientist

  
James E. Wedekind, P.G.  
Senior Hydrogeologist

Attachments: 1. Environmental Monitoring Data Certification and Exceedence Summaries

cc: Mike Kirchner – DCRA  
Curt Madsen – RMT

I:\WPMSN\PJT\00-03915\16\L000391516-037.DOCX



PARAMETERS THAT EXCEED CURRENT NR140 REGULATORY STANDARDS  
DANE COUNTY TRUAX LANDFILL  
LICENSE # 03306, FID # 113183620  
SEPTEMBER 2010

CHEMICAL PARAMETER	UNITS	NR140 PAL	NR140 ES	WELL ID	DATE	RESULT	DATA FLAGS	EXCEEDANCE	IN DMZ
ARSENIC, DISSOLVED	UG/L	1	10	MW-004A	9/29/2010	35.5		ES	
				MW-005A	9/29/2010	34.8		ES	
				MW-007	9/30/2010	4.74		PAL	
				MW-010	9/30/2010	35.4		PAL	Y
CADMIUM, DISSOLVED	UG/L	0.5	5	MW-007	9/30/2010	0.93	J	PAL	
IRON, DISSOLVED	UG/L	150	300	MW-004A	9/29/2010	238		PAL	
				MW-004B	9/29/2010	674		ES	
				MW-005A	9/29/2010	276		PAL	
				MW-005B	9/29/2010	1070		ES	
				MW-010	9/30/2010	23500		PAL	Y
MANGANESE, DISSOLVED	UG/L	25	50	MW-001A	9/28/2010	326		PAL	
				MW-004B	9/29/2010	182		ES	
				MW-005	9/29/2010	424		ES	
				MW-005B	9/29/2010	95.5		ES	
				MW-007	9/30/2010	139		ES	
				MW-010	9/30/2010	549		PAL	Y
				MW-012C	9/30/2010	39		PAL	Y
NITROGEN, NITRATE + NITRITE	MG/L	2	10	MW-001	9/28/2010	3.03		PAL	
				MW-003	9/30/2010	3.67		PAL	
				MW-004	9/29/2010	5.47		PAL	
				MW-005	9/29/2010	11		ES	
				MW-005B	9/29/2010	4.79		PAL	
				MW-007	9/30/2010	54.8		ES	
				MW-011	9/29/2010	3.02		PAL	Y
				MW-012B	9/30/2010	7.71		PAL	Y

**PARAMETERS THAT EXCEED CURRENT NR140 REGULATORY STANDARDS**  
**DANE COUNTY TRUAX LANDFILL**  
**LICENSE # 03306, FID # 113183620**  
**SEPTEMBER 2010**

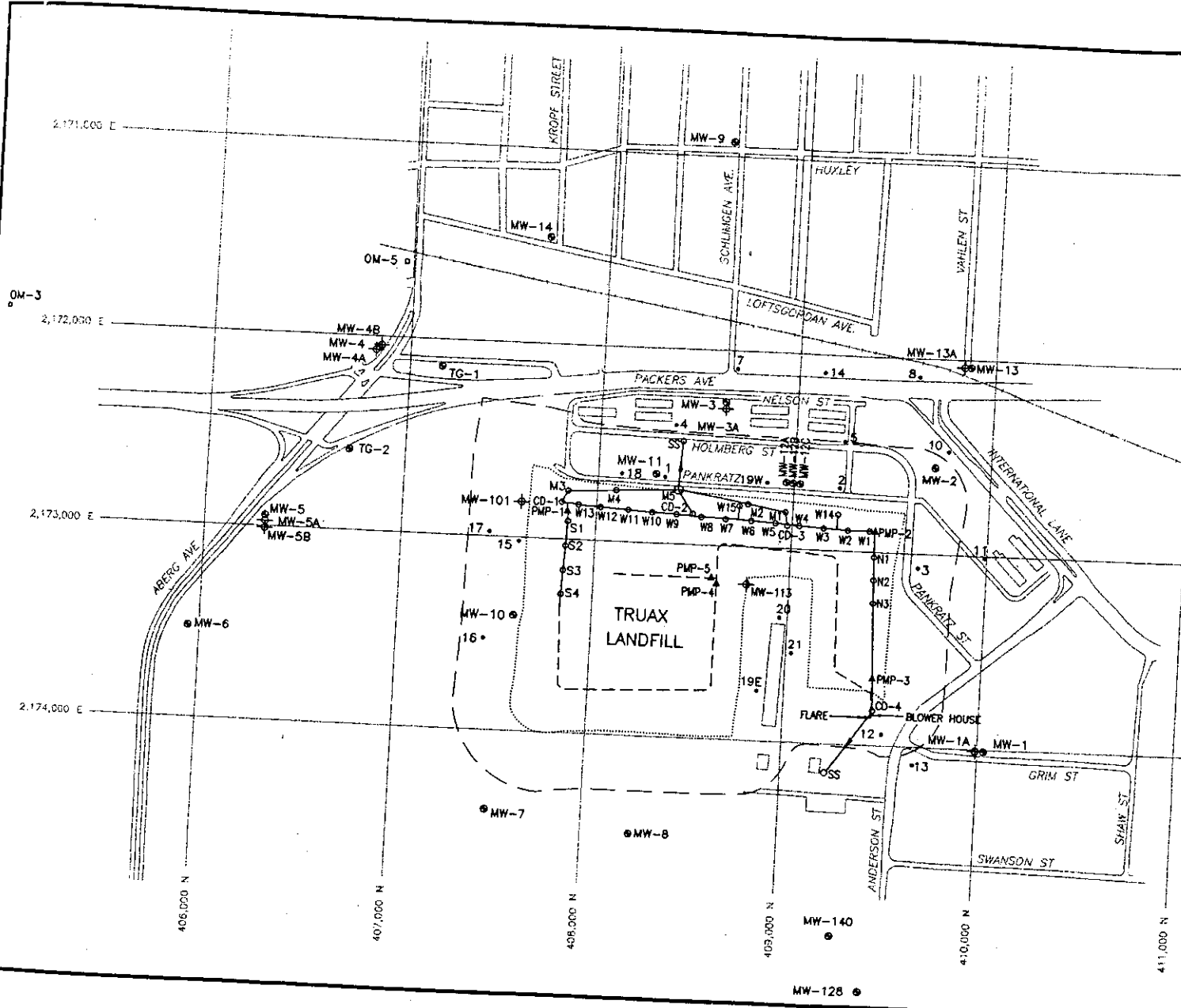
CHEMICAL PARAMETER	UNITS	NR140 PAL	NR140 ES	WELL ID	DATE	RESULT	DATA FLAGS	EXCEEDANCE	IN DMZ
NITROGEN, NITRATE + NITRITE	MG/L	2	10	MW-012C	9/30/2010	2.81		PAL	Y
				MW-013	9/28/2010	15.5		ES	
SULFATE	MG/L	125	250	MW-007	9/30/2010	1270		ES	
				TG-02	9/29/2010	139		PAL	
TETRACHLOROETHENE	UG/L	0.5	5	MW-012B	9/30/2010	1.27		PAL	Y
				MW-012C	9/30/2010	1.11		PAL	Y
TRICHLOROETHENE	UG/L	0.5	5	MW-012B	9/30/2010	0.61	J	PAL	Y
				MW-012C	9/30/2010	2.41		PAL	Y
VINYL CHLORIDE	UG/L	0.02	0.2	MW-012C	9/30/2010	0.29	J	PAL	Y

**DATA FLAGS**

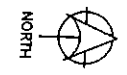
J: ESTIMATED CONCENTRATION BELOW LABORATORY QUANTIFICATION LEVEL



FILE: C:\DCA\TRUAX\MONLOC.DWG



- LEGEND**
- GAS PROBE
  - MW-2 ● MONITORING WELL
  - OM-3 ■ HIGH CAPACITY WATER SUPPLY WELL
  - DESIGN MANAGEMENT ZONE
  - ..... LIMIT OF WASTE
  - W2 LANDFILL GAS EXTRACTION WELL AND HEADER PIPE
  - PMP-5 A PRESSURE MONITORING PROBE
  - M5 O CONDENSATE LIFT STATION
  - M1 O CONDENSATE DRAIN MANHOLE
  - CD-1 O CONDENSATE DRAIN
  - SS O SANITARY SEWER
  - - - PERFORATED LANDFILL GAS COLLECTION PIPE



APPROXIMATE SCALE: 1"=500'

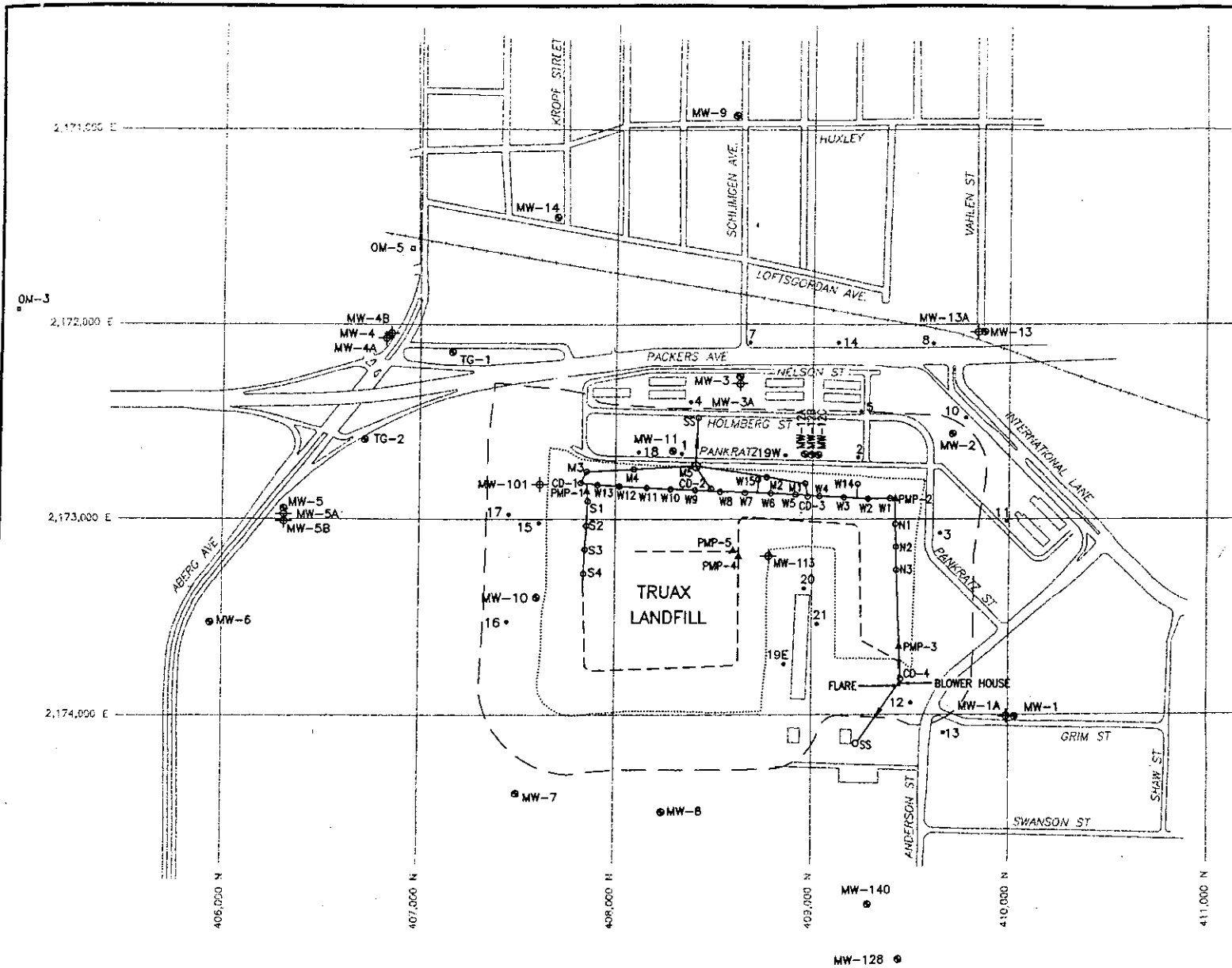
CITY OF MADISON TRUAX LANDFILL	
MONITORING LOCATIONS	
DRN BY MC-N	PROJ. NO. 16289-014
DATE AUGUST 1994	DAMES & MOORE

**APPENDIX E**

**MONITORING LOCATION MAP  
SELECTED MONITORING DATA**

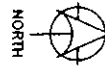


FILE: C:\DCA\TRUAX\MONLOC.DWG



**LEGEND**

- 8• GAS PROBE
- MW-2• MONITORING WELL
- OM-3• HIGH CAPACITY WATER SUPPLY WELL
- DESIGN MANAGEMENT ZONE
- ..... LIMIT OF WASTE
- W2 LANDFILL GAS EXTRACTION WELL AND HEADER PIPE
- PMP-5▲ PRESSURE MONITORING PROBE
- M5○ CONDENSATE LIFT STATION
- M1○ CONDENSATE DRAIN MANHOLE
- CD-1○ CONDENSATE DRAIN
- SS○ SANITARY SEWER
- PERFORATED LANDFILL GAS COLLECTION PIPE

NORTH 

APPROXIMATE SCALE: 1"=500'

<b>CITY OF MADISON TRUAX LANDFILL</b>	
<b>MONITORING LOCATIONS</b>	
DRN. BY MC-N	PROJ. NO. 16289-014
DATE AUGUST 1994	DAMES & MOORE



## All Results for Parameter From Point

License: 3306, Facility Name: DANE CNTY TRUAX LF  
 Facility Location: ANDERSON & PANKRATZ - MADISON, Facility Owner: DANE COUNTY

Point ID: 17, Common Name: MW-5

Parameter Code: 1030 - CHROMIUM, DISSOLVED (UG/L CR)

• GEMS Contacts for License (2 Rows)

Sample Date	Duplicate Sample #	Result Amount	Result Qualifier	Result Units Text	LOD	LOQ	Reporting Limit	Analysis Method Code
07/17/1990	1		Non-Detect	ug/L			1.00	NOT REPORTED
10/25/1990	1		Non-Detect	ug/L			1.00	NOT REPORTED
10/21/1991	1		Non-Detect	ug/L			2.00	NOT REPORTED
12/10/1991	1		Non-Detect	ug/L			2.00	NOT REPORTED
03/24/1992	1		Non-Detect	ug/L			2.00	NOT REPORTED
06/24/1992	1		Non-Detect	ug/L			2.00	NOT REPORTED
09/21/1992	1		Non-Detect	ug/L			2.00	NOT REPORTED
12/07/1992	1		Non-Detect	ug/L			2.00	NOT REPORTED
03/09/1993	1		Non-Detect	ug/L			2.00	NOT REPORTED
06/09/1993	1		Non-Detect	ug/L			2.00	NOT REPORTED

Records 1 to 10 of 10

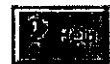
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License: 3306, Facility Name: DANE CNTY TRUAX LF  
 Facility Location: ANDERSON & PANKRATZ - MADISON, Facility Owner: DANE COUNTY

Point ID: 19, Common Name: MW-5A

Parameter Code: 1030 - CHROMIUM, DISSOLVED (UG/L CR)

• GEMS Contacts for License (2 Rows)

Sample Date	Duplicate Sample #	Result Amount	Result Qualifier	Result Units Text	LOD	LOQ	Reporting Limit	Analysis Method Code
07/17/1990	1		Non-Detect	ug/L			1.00	NOT REPORTED
10/25/1990	1		Non-Detect	ug/L			1.00	NOT REPORTED
10/21/1991	1		Non-Detect	ug/L			2.00	NOT REPORTED
12/10/1991	1		Non-Detect	ug/L			2.00	NOT REPORTED
03/24/1992	1		Non-Detect	ug/L			2.00	NOT REPORTED
06/24/1992	1		Non-Detect	ug/L			2.00	NOT REPORTED
09/21/1992	1		Non-Detect	ug/L			2.00	NOT REPORTED
12/07/1992	1		Non-Detect	ug/L			2.00	NOT REPORTED
03/09/1993	1		Non-Detect	ug/L			2.00	NOT REPORTED
06/09/1993	1		Non-Detect	ug/L			2.00	NOT REPORTED

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License: 3306, Facility Name: DANE CNTY TRUAX LF  
 Facility Location: ANDERSON & PANKRATZ - MADISON, Facility Owner: DANE COUNTY

Point ID: 31, Common Name: MW-10

Parameter Code: 1030 - CHROMIUM, DISSOLVED (UG/L CR)

• GEMS Contacts for License (2 Rows)

Sample Date	Duplicate Sample #	Result Amount	Result Qualifier	Result Units Text	LOD	LOQ	Reporting Limit	Analysis Method Code
07/24/1990	1		Non-Detect	ug/L			1.00	NOT REPORTED
10/26/1990	1		Non-Detect	ug/L			1.00	NOT REPORTED
10/21/1991	1		Non-Detect	ug/L			2.00	NOT REPORTED
12/10/1991	1		Non-Detect	ug/L			2.00	NOT REPORTED
03/24/1992	1		Non-Detect	ug/L			2.00	NOT REPORTED
06/24/1992	1		Non-Detect	ug/L			2.00	NOT REPORTED
09/21/1992	1		Non-Detect	ug/L			2.00	NOT REPORTED
12/07/1992	1		Non-Detect	ug/L			2.00	NOT REPORTED
03/09/1993	1		Non-Detect	ug/L			2.00	NOT REPORTED
06/09/1993	1		Non-Detect	ug/L			2.00	NOT REPORTED

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License: 3306, Facility Name: DANE CNTY TRUAX LF  
 Facility Location: ANDERSON & PANKRATZ - MADISON, Facility Owner: DANE COUNTY

Point ID: 35, Common Name: TG-2

Parameter Code: 1030 - CHROMIUM, DISSOLVED (UG/L CR)

• GEMS Contacts for License (2 Rows)

Sample Date	Duplicate Sample #	Result Amount	Result Qualifier	Result Units Text	LOD	LOQ	Reporting Limit	Analysis Method Code
07/19/1990	1	3.1	Detect	ug/L				NOT REPORTED
10/25/1990	1		Non-Detect	ug/L			1.00	NOT REPORTED
10/21/1991	1		Non-Detect	ug/L			2.00	NOT REPORTED
12/10/1991	1	2	Detect	ug/L				NOT REPORTED
03/24/1992	1		Non-Detect	ug/L			2.00	NOT REPORTED
06/24/1992	1		Non-Detect	ug/L			2.00	NOT REPORTED
12/07/1992	1		Non-Detect	ug/L			2.00	NOT REPORTED
03/09/1993	1	2	Detect	ug/L				NOT REPORTED

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License: 3306, Facility Name: DANE CNTY TRUAX LF  
 Facility Location: ANDERSON & PANKRATZ - MADISON, Facility Owner: DANE COUNTY

Point ID: 5, Common Name: MW-2

Parameter Code: 1030 - CHROMIUM, DISSOLVED (UG/L CR)

• GEMS Contacts for License (2 Rows)

Sample Date	Duplicate Sample #	Result Amount	Result Qualifier	Result Units Text	LOD	LOQ	Reporting Limit	Analysis Method Code
07/18/1990	1	1.1	Detect	ug/L				NOT REPORTED
10/24/1990	1	1	Detect	ug/L				NOT REPORTED
10/21/1991	1		Non-Detect	ug/L			2.00	NOT REPORTED
12/10/1991	1		Non-Detect	ug/L			2.00	NOT REPORTED
03/24/1992	1		Non-Detect	ug/L			2.00	NOT REPORTED
06/24/1992	1		Non-Detect	ug/L			2.00	NOT REPORTED
09/21/1992	1		Non-Detect	ug/L			2.00	NOT REPORTED
12/07/1992	1		Non-Detect	ug/L			2.00	NOT REPORTED
03/09/1993	1		Non-Detect	ug/L			2.00	NOT REPORTED
06/09/1993	1		Non-Detect	ug/L			2.00	NOT REPORTED

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License: 3306, Facility Name: DANE CNTY TRUAX LF  
 Facility Location: ANDERSON & PANKRATZ - MADISON, Facility Owner: DANE COUNTY

Point ID: 11, Common Name: MW-4

Parameter Code: 1030 - CHROMIUM, DISSOLVED (UG/L CR)

• GEMS Contacts for License (2 Rows)

Sample Date	Duplicate Sample #	Result Amount	Result Qualifier	Result Units Text	LOD	LOQ	Reporting Limit	Analysis Method Code
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10/26/1990	1	1.7	Detect	ug/L				NOT REPORTED
10/21/1991	1		Non-Detect	ug/L			2.00	NOT REPORTED
12/10/1991	1		Non-Detect	ug/L			2.00	NOT REPORTED
03/24/1992	1	2	Detect	ug/L				NOT REPORTED
06/24/1992	1		Non-Detect	ug/L			2.00	NOT REPORTED
09/21/1992	1	2	Detect	ug/L				NOT REPORTED
12/07/1992	1	2	Detect	ug/L				NOT REPORTED
03/09/1993	1	2	Detect	ug/L				NOT REPORTED
06/09/1993	1	2	Detect	ug/L				NOT REPORTED

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License: 3306, Facility Name: DANE CNTY TRUAX LF  
 Facility Location: ANDERSON & PANKRATZ - MADISON, Facility Owner: DANE COUNTY

Point ID: 33, Common Name: TG-1

Parameter Code: 1030 - CHROMIUM, DISSOLVED (UG/L CR)

• GEMS Contacts for License (2 Rows)

Sample Date	Duplicate Sample #	Result Amount	Result Qualifier	Result Units Text	LOD	LOQ	Reporting Limit	Analysis Method Code
07/23/1990	1		Non-Detect	ug/L			1.00	NOT REPORTED
10/25/1990	1		Non-Detect	ug/L			1.00	NOT REPORTED
10/21/1991	1		Non-Detect	ug/L			2.00	NOT REPORTED
12/10/1991	1		Non-Detect	ug/L			2.00	NOT REPORTED
03/24/1992	1		Non-Detect	ug/L			2.00	NOT REPORTED
06/24/1992	1		Non-Detect	ug/L			2.00	NOT REPORTED
09/21/1992	1		Non-Detect	ug/L			2.00	NOT REPORTED
12/07/1992	1		Non-Detect	ug/L			2.00	NOT REPORTED
03/09/1993	1		Non-Detect	ug/L			2.00	NOT REPORTED

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License: 3306, Facility Name: DANE CNTY TRUAX LF  
 Facility Location: ANDERSON & PANKRATZ - MADISON, Facility Owner: DANE COUNTY

Point ID: 23, Common Name: MW-6

Parameter Code: 1030 - CHROMIUM, DISSOLVED (UG/L CR)

• GEMS Contacts for License (2 Rows)

Sample Date	Duplicate Sample #	Result Amount	Result Qualifier	Result Units Text	LOD	LOQ	Reporting Limit	Analysis Method Code
07/18/1990	1		Non-Detect	ug/L			1.00	NOT REPORTED
10/25/1990	1		Non-Detect	ug/L			1.00	NOT REPORTED
10/21/1991	1		Non-Detect	ug/L			2.00	NOT REPORTED
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03/24/1992	1		Non-Detect	ug/L			2.00	NOT REPORTED
06/24/1992	1		Non-Detect	ug/L			2.00	NOT REPORTED
09/21/1992	1	2	Detect	ug/L				NOT REPORTED
12/07/1992	1		Non-Detect	ug/L			2.00	NOT REPORTED
03/09/1993	1		Non-Detect	ug/L			2.00	NOT REPORTED
06/09/1993	1		Non-Detect	ug/L			2.00	NOT REPORTED

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## All Results for Parameter From Point

License: 3306, Facility Name: DANE CNTY TRUAX LF  
 Facility Location: ANDERSON & PANKRATZ - MADISON, Facility Owner: DANE COUNTY

Point ID: 25, Common Name: MW-7

Parameter Code: 1030 - CHROMIUM, DISSOLVED (UG/L CR)

• GEMS Contacts for License (2 Rows)

Sample Date	Duplicate Sample #	Result Amount	Result Qualifier	Result Units Text	LOD	LOQ	Reporting Limit	Analysis Method Code
07/24/1990	1		Non-Detect	ug/L			1.00	NOT REPORTED
10/24/1990	1		Non-Detect	ug/L			1.00	NOT REPORTED
10/21/1991	1		Non-Detect	ug/L			2.00	NOT REPORTED
12/10/1991	1		Non-Detect	ug/L			2.00	NOT REPORTED
03/24/1992	1		Non-Detect	ug/L			2.00	NOT REPORTED
06/24/1992	1		Non-Detect	ug/L			2.00	NOT REPORTED
09/21/1992	1		Non-Detect	ug/L			2.00	NOT REPORTED
12/07/1992	1		Non-Detect	ug/L			2.00	NOT REPORTED
03/09/1993	1		Non-Detect	ug/L			2.00	NOT REPORTED
06/09/1993	1		Non-Detect	ug/L			2.00	NOT REPORTED

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## All Results for Parameter From Point

License: 3306, Facility Name: DANE CNTY TRUAX LF  
 Facility Location: ANDERSON & PANKRATZ - MADISON, Facility Owner: DANE COUNTY

Point ID: 27, Common Name: MW-8

Parameter Code: 1030 - CHROMIUM, DISSOLVED (UG/L CR)

• GEMS Contacts for License (2 Rows)

Sample Date	Duplicate Sample #	Result Amount	Result Qualifier	Result Units Text	LOD	LOQ	Reporting Limit	Analysis Method Code
07/24/1990	1		Non-Detect	ug/L			1.00	NOT REPORTED
10/24/1990	1		Non-Detect	ug/L			1.00	NOT REPORTED
10/21/1991	1		Non-Detect	ug/L			2.00	NOT REPORTED
12/10/1991	1		Non-Detect	ug/L			2.00	NOT REPORTED
03/24/1992	1		Non-Detect	ug/L			2.00	NOT REPORTED
06/24/1992	1		Non-Detect	ug/L			2.00	NOT REPORTED
09/21/1992	1		Non-Detect	ug/L			2.00	NOT REPORTED
12/07/1992	1		Non-Detect	ug/L			2.00	NOT REPORTED
03/09/1993	1		Non-Detect	ug/L			2.00	NOT REPORTED
06/09/1993	1		Non-Detect	ug/L			2.00	NOT REPORTED

Records 1 to 10 of 10

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 The Official Internet site for the Wisconsin Department of Natural Resources

101 S. Webster Street · PO Box 7921 · Madison, Wisconsin 53707-7921 · 608.267.3123



## All Results for Parameter From Point

License: 3306, Facility Name: DANE CNTY TRUAX LF  
 Facility Location: ANDERSON & PANKRATZ - MADISON, Facility Owner: DANE COUNTY

Point ID: 63, Common Name: MW-11

Parameter Code: 1030 - CHROMIUM, DISSOLVED (UG/L CR)

• GEMS Contacts for License (2 Rows)

Sample Date	Duplicate Sample #	Result Amount	Result Qualifier	Result Units Text	LOD	LOQ	Reporting Limit	Analysis Method Code
10/21/1991	1		Non-Detect	ug/L			2.00	NOT REPORTED
12/10/1991	1		Non-Detect	ug/L			2.00	NOT REPORTED
03/24/1992	1		Non-Detect	ug/L			2.00	NOT REPORTED
06/24/1992	1		Non-Detect	ug/L			2.00	NOT REPORTED
09/21/1992	1		Non-Detect	ug/L			2.00	NOT REPORTED
12/07/1992	1		Non-Detect	ug/L			2.00	NOT REPORTED
03/09/1993	1		Non-Detect	ug/L			2.00	NOT REPORTED
06/09/1993	1		Non-Detect	ug/L			2.00	NOT REPORTED

Records 1 to 8 of 8

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**APPENDIX F**  
**SOLID WASTE DISPOSAL AREA**

FORMER TRUAX LANDFILL  
(CURRENT BRIDGES GOLF COURSE)

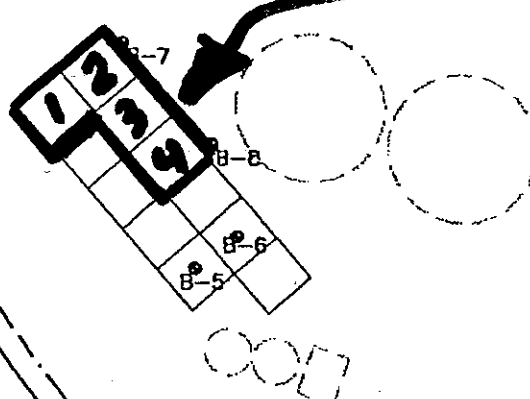
PACKERS AVENUE

APPROXIMATE PROPERTY  
BOUNDARY

VP-3 VP-1  
VP-2  
B-3 B-2  
VP-4 B-4 B-1

**SOLID WASTE  
DISPOSAL AREA**

VACANT  
UNDEVELOPED  
LANDS



B-12  
B-11  
B-10  
B-9

**LEGEND**

- B-12 APPROXIMATE LOCATION ON SOIL BORING ADVANCED USING A GEOPROBE (3-1-02)
- VP-3 APPROXIMATE LOCATION OF VAPOR MONITORING POINT INSTALLED USING A GEOPROBE (3-1-02)
- APPROXIMATE LOCATION AND LAYOUT OF FORMER SITE FEATURES & STRUCTURES
- FORMER SLUDGE DRYING BEDS (STRUCTURE REMAINS)
- APPROXIMATE LOCATION, SIZE AND LAYOUT OF FORMER SLUDGE LAGOONS

HIGHWAY 30

**1 UERTEN  
12/2/11**

**NOTES**

- 1) All dimensions and locations are approximate and are based on data from previous site reports and maps.
- 2) Geoprobe soil borings and vapor sampling points installed on March 1, 2002 by Soil Essentials. Sampling points located using fence line.
- 3) See Figure 1 for site location relative to Madison, Wisconsin.



SCALE: 1" = 200'

**REA RESOURCE ENGINEERING ASSOCIATES, INC.**  
8505 University Green, Suite 200  
Middleton, Wisconsin 53562-2507  
608-831-6563 (Fax 831-6564)

**REYNOLDS PROPERTY**  
1401 Packers Avenue  
Former Burke Wastewater Treatment Plant  
Madison, Wisconsin

Date: Mar 2002  
Drawn: SKB  
Ck'd: WWB  
Proj: #02008.1

**SITE LOCATION, FORMER FEATURES &  
GEOPROBE SOIL BORING LOCATIONS**

reynolds2.dwg  
**FIGURE 2**



Route To:

- Watershed/Wastewater  
 Remediation/Redev.  
 Waste Management  Other \_\_\_\_\_

**SOIL BORING LOG INFORMATION**

Form 4400-122  
Revised by SCS 1-2016

7-98

Facility/Project Name Former Burke Wastewater Treatment Plant Property			SCS # 25218175.00			License/Permit/Monitoring Number			Boring Number GP-104						
Boring Drilled By (Firm name and name of crew chief) On-Site Environmental Services Inc, Tony Kapugi						Drilling Started			Drilling Completed			Drilling Method Geoprobe			
DNR Facility Well No.		WI Unique Well No.		Common Well Name			Static Water Level			Surface Elevation			Borehole Diam.		
Boring Location State Plane SW 1/4 of NE 1/4 of Section 31, T. 8 N., R. 10E						Lat. Long.			Local Grid Location (If applicable) N., E.						
County United States						DNR County Code			Civil Town/City/or Village Madison						

Sample Number	Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Max. PID/FID	Soil Properties			RQD/ Comments
									Standard Penetration	Moisture Content	P200	
S1	32"			Silt, brown w/trace organics	ML			2.1			M	
S2				Silty sand, brown to black w/trace cinders and gravel	SM						M	
S3			5	Clayey sand brown w/red mottling fine-medium grain, trace fibers	SC			3.3			M	
S4	26"			Organic silt dark brown-black trace fibers.	OL			1.9			M	
S5			10	<del>Organic silt, black (possible sludge)</del>				2.2			M	
S6	29"			<del>Clayey silt, grey</del> Silt w/clay, grey	ML			1.8			U	
S7			15					2.4				
S8	48"			Sand, fine to coarse grain, on gray transitions to light brown	SM			1.5				

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

Signature	Firm SCS ENGINEERS
-----------	-----------------------

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

Facility/Project Name Former Burke Wastewater Treatment Plant Property		SCS # 25218175.00		License/Permit/Monitoring Number		Boring Number GP-301 104	
Boring Drilled By (Firm name and name of crew chief) On-Site Environmental Services Inc, Tony Kapugi				Drilling Started 8/15/19		Drilling Completed 8/15/19	
DNR Facility Well No.		WI Unique Well No.		Common Well Name		Static Water Level	
						Surface Elevation	
						Borehole Diam. 2"	
Boring Location State Plane SW 1/4 of NE 1/4 of Section 31, T. 8 N, R. 10E				Lat. Long.		Local Grid Location (If applicable) N, E.	
County United States				DNR County Code		Civil Town/City/or Village Madison	

Sample Number	Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Max. PID/FID	Soil Properties			RQD/Comments
									Standard Penetration	Moisture Content	P200	
S1	43"		0'	SILT, dk. brown (topsoil) SAND, brown, F-C, little small gravel SILT, dk. brown, w/gravel	SM			2.2				
S2				Silty sand, tan-brown F-C w/gravel sm trace cylinders (fill)				2.2			M	
S3	46"		5'	Clay w/silt gray w/gravel trace organics wood fibers/parts	CL			1.1			M	
S4				Clay w sand, F grains, tan-brown trace gravel	CL			1.0			M	
S5	42"		10'	Organic silt very dark grey to black trace organic fibers (potential wastewater sludge) Gravel, fine gravel, light grey-white	OL			1.1			M	
S6				Clay, brown w trace roots and gravel	CL			0.8			M	
S7	35"		15'	Clay, black, w/trace fibers Potential wastewater sludge Clay, grey, light grey	CL						M	
S8				Clay w trace silt, gray w/BROWN silt.	CL						M	
S8				Silt w clay, brown-tan, grey clay to 19' and grey to 20'	ML			0.7			W	

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

Signature	Firm SCS ENGINEERS
-----------	-----------------------

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Route To:

- Watershed/Wastewater  
 Remediation/Redev.  
 Waste Management  Other \_\_\_\_\_

**SOIL BORING LOG INFORMATION**

Form 4400-122  
Revised by SCS 1-2016

7-98

Facility/Project Name Former Burke Wastewater Treatment Plant Property		SCS # 25218175.00		License/Permit/Monitoring Number		Boring Number GP-102	
Boring Drilled By (Firm name and name of crew chief) On-Site Environmental Services Inc, Tony Kapugi				Drilling Started 8/15/19		Drilling Completed 8/15/19	
DNR Facility Well No.		WI Unique Well No.		Common Well Name		Static Water Level	
						Surface Elevation	
						Borehole Diam. 2"	
Boring Location State Plane SW 1/4 of NE 1/4 of Section 31, T. 8 N., R. 10E				Lat. Long.		Local Grid Location (If applicable) N., E.	
County United States				DNR County Code		Civil Town/City/or Village Madison	

Sample Number	Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Max. PID/FID	Soil Properties			RQD/ Comments
									Standard Penetration	Moisture Content	P200	
S1	18"			Silt w/clay brownish gray w fibers & roots				5.5				
S2				clayey sand fine grain, light brown, w/trace gravel	SP					M		
S3	20"		5	silt w/trace clay, black w/trace organics	ML			6.1				
S4				Peat, black-dark brown w/ greyish black bits with petroleum smell.	PT			6.0		M		
S5			10	chunks of wood at bottom								
S6	30"			Peat, brown-dark brown w/bits of wood	PT			2.3		M		
S7				Silt w/trace clay, brown, w/trace wood and fiber	ML			1.2		W		
S8			15	Silt w/trace clay, gray	ML							
S9	28"			Poorly graded sand, fine-medium grain, gray.	SM			2.5		U		
S10				Silt w/trace clay, gray	ML			3.1		U		

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

Signature \_\_\_\_\_ Firm **SCS ENGINEERS**

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Facility/Project Name Former Burke Wastewater Treatment Plant Property		SCS # 25218175.00		License/Permit/Monitoring Number		Boring Number GP-103					
Boring Drilled By (Firm name and name of crew chief) On-Site Environmental Services Inc, Tony Kapugi				Drilling Started		Drilling Completed		Drilling Method Geoprobe			
DNR Facility Well No.		WI Unique Well No.		Common Well Name		Static Water Level		Surface Elevation		Borehole Diam.	
Boring Location State Plane SW 1/4 of NE 1/4 of Section 31, T. 8 N, R.10E				Lat. Long.		Local Grid Location (If applicable) N., E.					
County United States				DNR County Code		Civil Town/City/or Village Madison					

Sample Number	Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Max. PID/FID	Soil Properties			RQD/ Comments
									Standard Penetration	Moisture Content	P200	
S1	27"			<del>Silt w/trace gray and gravel</del> Silt, brown w/trace gray and gravel	ML			1.5				
S2			5	Silty sand, <del>trace</del> fine grain, brown	SM			2.5		M		
S3	34"			Clay, brown w/trace fibers and gravel				2.7				
S4			10	organic silt, dark gray brown (possible waste water sludge)	OL			1.6		M		
S5	22"			organic silt, dark brown (possible waste water sludge)	OL			1.9		M		
S6								0.8				
S7			15	Mostly wood fibers w/silt, brown	PT			1.2		M		
S8				Silt, brown transition to gray w/wood fibers.	ML			1.1		W		

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

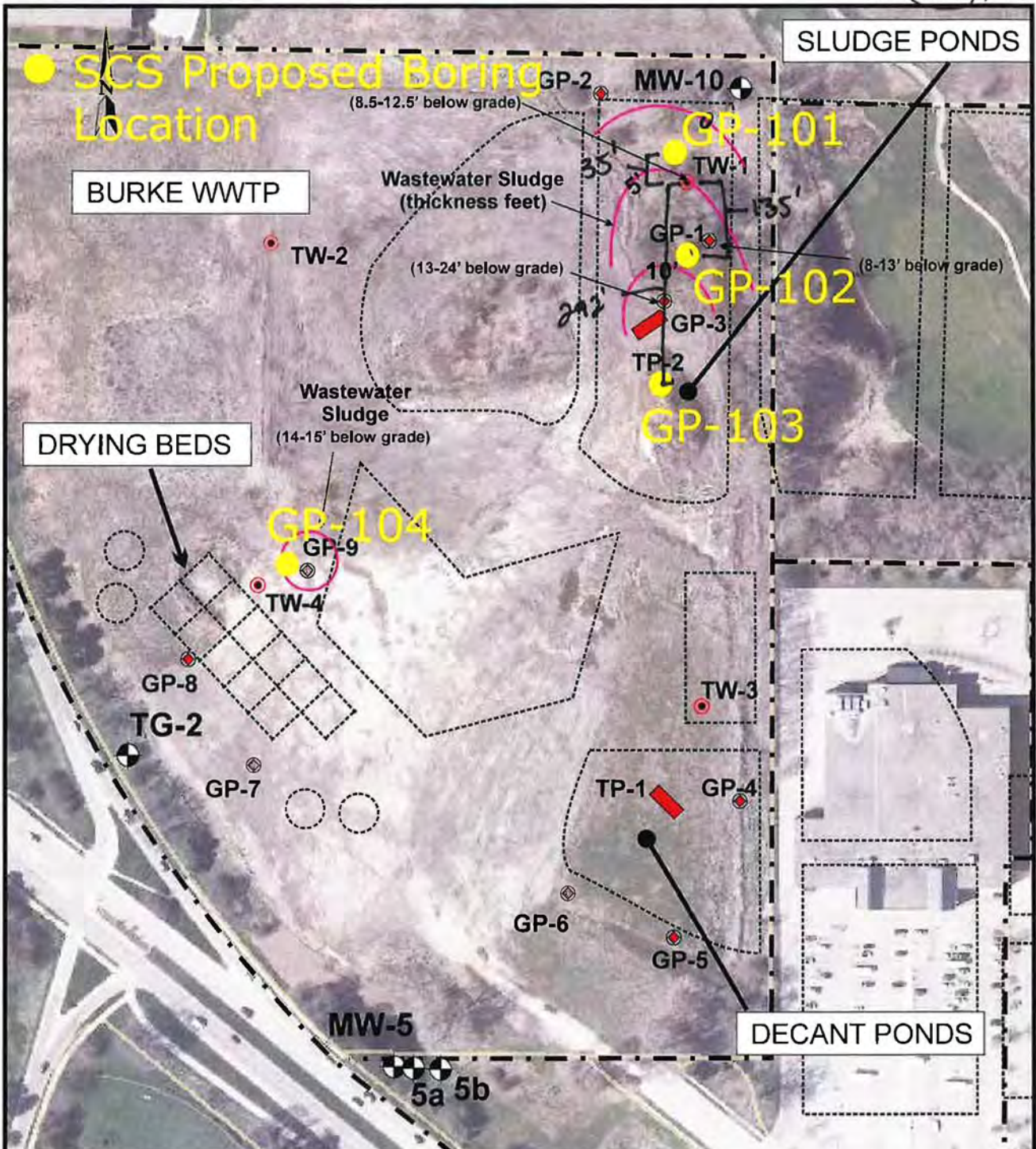
Signature	Firm SCS ENGINEERS
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# Figure 2. Site Plan

101 - 10-12  
 102 - 8-7-5  
 2.5-10  
 103 2-9, 10-12.5, 20-25



**LEGEND**

TW-1  
 ● - Monitoring Well (Seymour 2018)

MW-6  
 ⊕ - Monitoring Well (Former Truax Landfill)

0 200' 400'

1 INCH = 200 FEET  
 SCALE IS APPROXIMATE

FILE/PATH: D:\PROJECTS\RUEDBUSCH\BurkeWWTP-layout.cdr  
 DATE: 01/08/2019  
 PREPARED: MDF APPROVED:  
 SOURCE: Dane County Public Mapping - 2017 Aerial REA Basemap 2002

**SEYMOUR ENVIRONMENTAL SERVICES, INC.**

LOCATIONS OF WASTEWATER SLUDGE  
 Burke Wastewater Treatment Plant  
 1401 Packers Avenue  
 Madison, Wisconsin

**FIGURE 4**

**Table 2. Groundwater Analytical Results Summary - PFAS**  
**MGE Burke WWTP Site - Madison / SCS Engineers Project #25218175**  
 (Results are in ng/L)

Free Acid Name			Perfluorobutanoic acid	Perfluoropentanoic acid	Perfluorohexanoic acid	Perfluoroheptanoic acid	Perfluorooctanoic acid	Perfluorononanoic acid	Perfluorodecanoic acid	Perfluoroundecanoic acid	Perfluorododecanoic acid	Perfluorotridecanoic acid	Perfluorotetradecanoic acid	Perfluoro-n-hexadecanoic acid	Perfluorobutanesulfonic acid
Acronym			PFBA	PFPeA	PFHxA	PFHpA	PFOA	PFNA	PFDA	PFUnA	PFDoA	PFTriA	PFTeA	PFHxDA	PFBS
Sample	Date	CAS #	375-22-4	2706-90-3	307-24-4	375-85-9	335-67-1	375-95-1	335-76-2	2058-94-8	307-55-1	72629-94-8	376-06-7	67905-19-5	375-73-5
TW-1	2/26/2019		15	<17 G	<4.2 G	3.3	<u>25</u>	<0.23	<0.26	<0.93	<0.46	<1.1	<0.24	NA	3.0
	8/23/2019		14	12	14	4.4	<u>26</u>	0.3 J	<0.29	<1.0	<0.52	<1.2	<0.27	<0.84	7.5
TW-2	2/26/2019		33 B	<0.43	<0.51	<0.22	3.1	<0.24	<0.27	<0.97	<0.49	<1.2	<0.26	NA	<0.18
	8/23/2019		34	<0.45	<0.53	0.26 J	2.9	<0.25	<0.28	<1.0	<0.50	<1.2	<0.27	<0.82	0.75 J
TW-3	2/26/2019		31 B	<4.4 G	2.7	1.7 J	3.6	<0.24	<0.28	<0.98	<0.49	<1.2	<0.26	NA	1.9
	8/23/2019		26	2.4	3.3	1.3 J	5.2	<0.24	<0.28	<0.99	<0.50	<1.2	<0.26	<0.80	1.3 J
TW-4	2/26/2019		26	<0.45	2.3	2.0	<u>18</u>	2.4 B	<0.28	<1.0	<0.50	<1.2	<0.26	NA	2.9
	8/23/2019		29	0.79 J	1.3 J	1.6 J	<u>14</u>	0.91 J	<0.29	<1.0	<0.52	<1.2	<0.27	<0.84	2.3
	8/23/2019 (Dup)		29	0.75 J	1.2 J	1.1 J	<u>16</u>	1.0 J	<0.28	<1.0	<0.50	<1.2	<0.26	<0.81	2.1
MW-10	8/23/2019		20	3.9	7.2	1.8	3.6	<0.25	<0.29	<1.0	<0.51	<1.2	<0.27	<0.82	1.8
Field Blank	2/26/2019		<0.32	<0.45	<0.53	<0.23	<0.78	<0.25	<0.29	<1.0	<0.51	<1.2	<0.27	NA	<0.18
	8/23/2019		<0.33	<0.46	<0.54	<0.23	<0.79	<0.25	<0.29	<1.0	<0.51	<1.2	<0.27	<0.83	<0.19
Equipment Blank	2/26/2019		<0.39	<0.54	<0.64	<0.28	<0.94	<0.30	<0.34	<1.2	<0.61	<1.4	0.33 J	NA	<0.22
	8/23/2019		<0.36	<0.50	<0.59	<0.25	<0.87	<0.28	<0.32	<1.1	<0.56	<1.3	<0.30	<0.91	<0.20



Table 2. Groundwater Analytical Results Summary - PFAS  
MGE Burke WWTP Site - Madison / SCS Engineers Project #25218175  
(Results are in ng/L)

Free Acid Name			Perfluoro-n-octadecanoic acid	Perfluoropentanesulfonic acid	Perfluorohexanesulfonic acid	Perfluoroheptanesulfonic acid	Perfluorooctanesulfonic acid	Perfluorononanesulfonic acid	Perfluorodecane sulfonic acid	Perfluorooctanesulfonamide	2-(N-Methylperfluorooctanesulfonamido) acetic acid	2-(N-Ethylperfluorooctanesulfonamido) acetic acid	4:2 Fluorotelomer sulfonic acid	6:2 Fluorotelomer sulfonic acid	8:2 Fluorotelomer sulfonic acid
Acronym			PFODA	PFPeS	PFHxS	PFHpS	PFOS	PFNS	PFDS	FOSA	N-MeFOSAA	N-EtFOSAA	4:2 FTS	6:2 FTS	8:2 FTS
Sample	Date	CAS #	16517-11-6	2706-91-4	355-46-4	375-92-8	1763-23-1	68259-12-1	335-77-3	754-91-6	2355-31-9	2991-50-6	757124-72-4	27619-97-2	39108-34-4
TW-1	2/26/2019		NA	2.5	50 B	<0.16	<u>9.7</u>	<0.13	<0.27	<0.29	<2.6	<1.6	<4.4	3.3 J	<1.7
	8/23/2019		<0.43	2.3	58 B	<0.18	<u>13</u> I	<0.15	<0.30	<0.33	<2.9	<1.8	<4.9	<1.9	<1.9
TW-2	2/26/2019		NA	<0.27	1.8 B	<0.17	5.1	<0.14	<0.28	<0.31	<2.7	<1.7	<4.6	<1.8	<1.8
	8/23/2019		<0.42	<0.27	1.50 JB	<0.17	5.7	<0.15	<0.29	0.46 JB	<2.8	<1.7	<4.8	<1.8	<1.8
TW-3	2/26/2019		NA	<0.27	7.8 B	<0.17	<0.48	<0.14	<0.28	<0.31	<2.8	<1.7	<4.6	6.3 J	<1.8
	8/23/2019		<0.42	<0.27	10 B	<0.17	<0.49	<0.14	<0.29	0.59 JB	<2.8	<1.7	<4.7	<1.8	<1.8
TW-4	2/26/2019		NA	1.3 J	5.4 B	1.9	<u>23</u>	<0.15	<0.29	<0.32	<2.8	<1.7	<4.7	4.2 J	<1.8
	8/23/2019		<0.43	0.56 J	4.5 B	0.81 J	<u>9.7</u> I	<0.15	<0.30	<0.33	<2.9	<1.8	<4.9	49	<1.9
	8/23/2019 (Dup)		<0.42	0.75 J	4.70 B	0.77 J	<u>8.8</u> I	<0.15	<0.29	<0.32	<2.8	<1.7	<4.7	41	<1.8
MW-10	8/23/2019		<0.43	1.0 J	2.7 B	<0.18	8.3	<0.15	<0.30	<0.32	<2.9	<1.8	<4.8	4.8 J	<1.8
Field Blank	2/26/2019		NA	<0.28	0.30 JB	<0.17	<0.50	<0.15	<0.29	<0.32	<2.9	<1.7	<4.8	<1.8	<1.8
	8/23/2019		<0.43	<0.28	0.26 JB	<0.18	<0.50	<0.15	<0.30	0.41 JB	<2.9	<1.8	<4.8	<1.9	<1.9
Equipment Blank	2/26/2019		NA	<0.33	0.33 JB	<0.21	<0.60	<0.18	<0.36	<0.39	<3.4	<2.1	<5.8	<2.2	<2.2
	8/23/2019		<0.47	<0.31	0.27 JB	<0.19	<0.55	<0.16	<0.33	<0.36	<3.2	<1.9	<5.3	<2.0	<2.0

Table 2. Groundwater Analytical Results Summary - PFAS  
MGE Burke WWTP Site - Madison / SCS Engineers Project #25218175  
(Results are in ng/L)

Free Acid Name			10:2 Fluorotelomer sulfonic acid	N-Ethylperfluorooctanesulfonamide	N-Methylperfluorooctanesulfonamide	Perfluorododecanesulfonic acid	N-Methylperfluorooctanesulfonamidoethanol	N-Ethylperfluorooctanesulfonamidoethanol	4,8-Dioxa-3H-perfluorononanoic acid	Perfluoro(2-((6-chlorohexyl)oxy)ethanesulfonic acid)	Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	2-[(8-Chloro-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-hexadecafluorooctyl)oxy]-1,1,2,2-tetrafluoroethanesulfonic acid	NaDONA	DONA	Ammonium Perfluorooctanoate	PFOA + PFOS Combined	
Acronym			10:2 FTS	N-EtFOSA	N-MeFOSA	PFDoS	N-MeFOSE	N-EtFOSE	ADONA	F-53B Major	GenX	F-53B Minor	NaDONA	DONA	APFO		
Sample	Date	CAS #	120226-60-0	4151-50-2	31506-32-8	79780-39-5	24448-09-7	1691-99-2	919005-14-4	756426-58-1	13252-13-6	763051-92-9	NE	919005-14-4	3825-26-1		
TW-1	2/26/2019		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<u>34.7</u>
	8/23/2019		<0.18	<0.82	<0.40	<0.42	<1.3	<0.80	<0.18	<0.23	<1.4	<0.30	<0.18	<0.17	27	39.0	
TW-2	2/26/2019		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.2
	8/23/2019		<0.17	<0.80	<0.39	<0.41	<1.3	<0.78	<0.17	<0.22	<1.4	<0.29	<0.17	<0.16	3.0	8.6	
TW-3	2/26/2019		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.6
	8/23/2019		<0.17	<0.79	<0.39	<0.41	<1.3	<0.77	<0.17	<0.22	<1.4	<0.29	<0.17	<0.16	5.4	5.2	
TW-4	2/26/2019		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<u>41.0</u>
	8/23/2019		<0.18	<0.82	<0.41	<0.42	<1.3	<0.80	<0.18	<0.23	<1.4	<0.30	<0.18	<0.17	15	<u>23.7</u>	
	8/23/2019 (Dup)		<0.17	<0.79	<0.39	<0.41	<1.3	<0.77	<0.17	<0.22	<1.4	<0.29	<0.17	<0.16	16	<u>24.8</u>	
MW-10	8/23/2019		<0.18	<0.80	<0.40	<0.42	<1.3	<0.79	<0.18	<0.22	<1.4	<0.30	<0.18	<0.17	3.8	11.9	
Field Blank	2/26/2019		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.28
	8/23/2019		<0.18	<0.81	<0.40	<0.42	<1.3	<0.79	<0.18	<0.22	<1.4	<0.30	<0.18	<0.17	<0.82	<1.29	
Equipment Blank	2/26/2019		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.54
	8/23/2019		<0.19	<0.89	<0.44	<0.46	<1.4	<0.87	<0.19	<0.24	<1.5	<0.33	<0.19	<0.18	<0.90	<1.42	

Abbreviations:

µg/kg = micrograms per kilogram or parts per billion (ppb)  
CAS No. = Chemical Abstracts Service Number

NE = Not Established  
-- = Not Applicable

NA = Not Analyzed

Notes:

Brown shading indicates compound was also detected in one or more soil samples

Laboratory Notes/Qualifiers:

**Bold+Underlined** results exceed the proposed groundwater enforcement standard of 20 ng/L for PFOS+PFOS combined.

\* = LCS or LCSD is outside acceptance limits. Isotope Dilution analyte is outside acceptance limits.

B = Compound was found in the blank and sample.

E = Result exceeded calibration range.

J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

I = Value is estimated maximum possible concentration.

Created by: AJR  
Last revision by: EO  
Checked by: AJR  
Proj Mgr QA/QC: EO

Date: 9/20/2019  
Date: 10/7/2019  
Date: 10/8/2019  
Date: 10/8/2019



**Table 1. Soil Analytical Results Summary - PFAS**  
**MGE Burke WWTP Site - Madison / SCS Engineers Project #25218175**  
 (Results are in µg/kg)

Free Acid Name			Perfluorobutanoic acid	Perfluoropentanoic acid	Perfluorohexanoic acid	Perfluoroheptanoic acid	Perfluorooctanoic acid	Perfluorononanoic acid	Perfluorodecanoic acid	Perfluoroundecanoic acid	Perfluorododecanoic acid	Perfluorotridecanoic acid	Perfluorotetradecanoic acid	Perfluoro-n-hexadecanoic acid	Perfluorobutanesulfonic acid
Acronym			PFBA	PFPeA	PFHxA	PFHpA	PFOA	PFNA	PFDA	PFUnA	PFDoA	PFTriA	PFTeA	PFHxDA	PFBS
Sample	Date	CAS #	375-22-4	2706-90-3	307-24-4	375-85-9	335-67-1	375-95-1	335-76-2	2058-94-8	307-55-1	72629-94-8	376-06-7	67905-19-5	375-73-5
GP-101 (10-12')	8/15/2019		0.11 J	<0.21	<0.12	<0.080	0.35 J	<0.10	<0.061	<0.10	<0.19	<0.14	<0.15	<0.12 *	3.6 B
GP-102 (7.5-10')	8/15/2019		0.42 J	<0.17	<0.094	<0.065	0.61	<0.081	<0.049	<0.081	<0.15	<0.11	<0.12	<0.099 *	1.7 B
GP-103 (8-9')	8/15/2019		0.53	0.18 J	0.39 J	0.23 J	0.74	<0.084	<0.051	<0.084	<0.16	<0.12	<0.13	<0.10 *	5.7 B
GP-103 (10-12.5') <sup>1</sup>	8/15/2019		0.30 JB	<0.30	<0.16	<0.11	<0.34	<0.14	<0.0086	<0.14	<0.26	<0.20	<0.21	<0.17	<0.097
GP-103 (20-24')	8/15/2019		7.8	<0.41	<0.23	<0.16	<0.46	<0.19	<0.12	0.20 J	<0.36	<0.27	<0.29	<0.24 *	5.3 B
GP-104 (9-10')	8/15/2019		0.14 J	<0.098	<0.053	<0.037	<0.11	<0.046	<0.028	<0.046	<0.085	<0.065	<0.068	<0.056 *	1.0 B
GP-104 (13-15')	8/15/2019		0.036 J	<0.099	<0.054	<0.037	<0.11	<0.046	<0.028	<0.046	<0.086	<0.065	<0.069	<0.056 *	1.2 B
Equipment Blank	8/15/2019		<0.31	<0.43	<0.51	<0.22	<0.74	<0.24	<0.27	<0.96	<0.48	<1.1	<0.25	<0.78	<0.18

**Table 1. Soil Analytical Results Summary - PFAS**  
**MGE Burke WWTP Site - Madison / SCS Engineers Project #25218175**  
 (Results are in µg/kg)

Free Acid Name			Perfluoro-n-octadecanoic acid	Perfluoropentanesulfonic acid	Perfluorohexanesulfonic acid	Perfluoroheptanesulfonic acid	Perfluorooctanesulfonic acid	Perfluorononanesulfonic acid	Perfluorodecane sulfonic acid	Perfluorooctanesulfonamide	2-(N-Methylperfluorooctanesulfonamido) acetic acid	2-(N-Ethylperfluorooctanesulfonamido) acetic acid	4:2 Fluorotelomer sulfonic acid	6:2 Fluorotelomer sulfonic acid	8:2 Fluorotelomer sulfonic acid
Acronym			PFODA	PFPeS	PFHxS	PFHpS	PFOS	PFNS	PFDS	FOSA	N-MeFOSAA	N-EtFOSAA	4:2 FTS	6:2 FTS	8:2 FTS
Sample	Date	CAS #	16517-11-6	2706-91-4	355-46-4	375-92-8	1763-23-1	68259-12-1	335-77-3	754-91-6	2355-31-9	2991-50-6	757124-72-4	27619-97-2	39108-34-4
GP-101 (10-12')	8/15/2019		<0.077 *	<0.055	<0.086	<0.097	1.2 J	<0.055	<0.11	<0.23	<1.1	<1.0	<1.0	<0.42	<0.69
GP-102 (7.5-10')	8/15/2019		<0.063 *	<0.045	1.4	<0.079	27	<0.045	<0.088	<0.18	<0.88	<0.83	<0.83	<0.34	<0.56
GP-103 (8-9')	8/15/2019		<0.065 *	<0.046	0.88	1.2	85 E	0.25 J	0.92	0.79	<0.91	14	<0.86	<0.35	<0.58
GP-103 (10-12.5') <sup>1</sup>	8/15/2019		<0.11 *	<0.078	<0.12	<0.14	<0.78	<0.078	<0.15	<0.32	<1.5	<1.4	<1.4	<0.58	<0.97
GP-103 (20-24')	8/15/2019		<0.15 *	<0.11	0.28 J	<0.19	4.1	<0.11	<0.21	<0.44	<2.1	<2.0	<2.0	<0.80	<1.3
GP-104 (9-10')	8/15/2019		<0.035 *	<0.025	<0.039	<0.044	1.1	<0.025	<0.049	<0.10	<0.49	<0.47	<0.47	<0.19	<0.32
GP-104 (13-15')	8/15/2019		<0.036 *	<0.026	<0.040	<0.045	<0.26	<0.026	<0.050	<0.11	<0.50	<0.47	<0.47	<0.19	<0.32
Equipment Blank	8/15/2019		<0.40	<0.26	0.22 J, B	<0.17	<0.47	<0.14	<0.28	<0.31	<2.7	<1.7	<4.6	<1.8	<1.8



**Table 1. Soil Analytical Results Summary - PFAS**  
**MGE Burke WWTP Site - Madison / SCS Engineers Project #25218175**  
 (Results are in µg/kg)

Free Acid Name			10:2 Fluorotelomer sulfonic acid	N-Ethylperfluorooctanesulfonamide	N-Methylperfluorooctanesulfonamide	Perfluorododecane sulfonic acid	N-Methylperfluorooctanesulfonamidoethanol	N-Ethylperfluorooctanesulfonamidoethanol	4,8-Dioxa-3H-perfluorononanoic acid	Perfluoro(2-((6-chlorohexyloxy)ethanesulfonic acid)	Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	2-[(8-Chloro-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-hexadecafluorooctyloxy]-1,1,2,2-tetrafluoroethanesulfonic acid	NaDONA	DONA	Ammonium Perfluorooctanoate
Acronym			10:2 FTS	N-EtFOSA	N-MeFOSA	PFDoS	N-MeFOSE	N-EtFOSE	ADONA	F-53B Major	GenX	F-53B Minor	NaDONA	DONA	APFO
Sample	Date	CAS #	120226-60-0	4151-50-2	31506-32-8	79780-39-5	24448-09-7	1691-99-2	919005-14-4	756426-58-1	13252-13-6	763051-92-9	NE	919005-14-4	3825-26-1
GP-101 (10-12')	8/15/2019		<0.14 *	<0.066	<0.11	<0.17	<0.20	<0.10	<0.053	<0.075	<0.30	<0.061	<0.053	<0.050	0.36 J
GP-102 (7.5-10')	8/15/2019		<0.11 *	<0.054	<0.092	<0.13	<0.16	1.2	<0.043	<0.061	<0.25	<0.049	<0.043	<0.040	0.64
GP-103 (8-9')	8/15/2019		<0.12 *	<0.056	<0.095	<0.14	<0.16	<0.084	<0.044	<0.063	<0.26	<0.051	<0.044	<0.042	0.77
GP-103 (10-12.5') <sup>1</sup>	8/15/2019		<0.19	<0.094	<0.16	<0.23	<0.28	<0.14	<0.074	<0.11	0.54 J	<0.086	<0.074	<0.070	<0.035
GP-103 (20-24')	8/15/2019		<0.27 *	<0.13	<0.22	<0.32	<0.38	<0.19	<0.10	<0.14	<0.59	<0.12	<0.10	<0.097	<0.48
GP-104 (9-10')	8/15/2019		<0.063 *	<0.030	<0.052	<0.076	<0.090	<0.046	<0.024	<0.034	<0.14	<0.028	<0.024	<0.023	<0.11
GP-104 (13-15')	8/15/2019		<0.064 *	<0.031	<0.053	<0.077	<0.091	<0.046	<0.024	<0.035	<0.14	<0.028	<0.024	<0.023	<0.11
Equipment Blank	8/15/2019		<0.17	<0.76	<0.38	<0.39	<1.2	<0.74	<0.17	<0.21	<1.3	<0.28	<0.17	<0.16	<0.77

Abbreviations:

µg/kg = micrograms per kilogram or parts per billion (ppb)

CAS No. = Chemical Abstracts Service Number

NE = Not Established

-- = Not Applicable

Notes:

Blue shading indicates compound was detected in one or more groundwater samples.

Laboratory Notes/Qualifiers:

\* = LCS or LCSD is outside acceptance limits. Isotope Dilution analyte is outside acceptance limits.

B = Compound was found in the blank and sample.

E = Result exceeded calibration range.

J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

<sup>1</sup> = Sample was prepped or analyzed beyond the specified holding time.

Created by: AJR  
 Last revision by: EO  
 Checked by: LMH  
 Proj Mgr QA/QC: EO

Date: 9/20/2019  
 Date: 10/11/2019  
 Date: 10/14/2019  
 Date: 10/21/2019

**APPENDIX L**

**City Directory Report**



**910 Mayer St**  
910 Mayer St  
Madison, WI 53704

Inquiry Number: 5995086.5  
March 12, 2020

# The EDR-City Directory Image Report

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*Thank you for your business.*  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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## EXECUTIVE SUMMARY

### DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

### RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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Data by

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### RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
2014	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
2010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
2005	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
2000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
1995	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
1992	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
1989	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Wright's City Directory
1985	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Wright's City Directory
1980	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Wright's City Directory
1975	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Wright's City Directory
1970	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Wright's City Directory
1966	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Wright's City Directory
1960	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Wright's City Directory





## FINDINGS

### TARGET PROPERTY STREET

910 Mayer St  
Madison, WI 53704

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
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### MAYER AVE

2014	pg A2	EDR Digital Archive
2010	pg A6	EDR Digital Archive
2005	pg A10	EDR Digital Archive
2000	pg A14	EDR Digital Archive
1995	pg A17	EDR Digital Archive
1992	pg A21	EDR Digital Archive
1989	pg A25	Wright's City Directory
1985	pg A28	Wright's City Directory
1980	pg A32	Wright's City Directory
1975	pg A36	Wright's City Directory
1970	pg A39	Wright's City Directory
1966	pg A43	Wright's City Directory
1960	pg A47	Wright's City Directory

# FINDINGS

## CROSS STREETS

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
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## COMMERCIAL AVE

2014	pg. A1	EDR Digital Archive
2010	pg. A5	EDR Digital Archive
2005	pg. A9	EDR Digital Archive
2000	pg. A13	EDR Digital Archive
1995	pg. A16	EDR Digital Archive
1992	pg. A20	EDR Digital Archive
1989	pg. A24	Wright's City Directory
1985	pg. A27	Wright's City Directory
1980	pg. A31	Wright's City Directory
1975	pg. A35	Wright's City Directory
1970	pg. A38	Wright's City Directory
1966	pg. A41	Wright's City Directory
1966	pg. A42	Wright's City Directory
1960	pg. A46	Wright's City Directory

## PACKERS AVE

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2010	pg. A7	EDR Digital Archive	
2005	pg. A11	EDR Digital Archive	
2000	pg. A15	EDR Digital Archive	
1995	pg. A18	EDR Digital Archive	
1992	pg. A22	EDR Digital Archive	
1989	-	Wright's City Directory	Target and Adjoining not listed in Source
1985	-	Wright's City Directory	Target and Adjoining not listed in Source
1980	-	Wright's City Directory	Target and Adjoining not listed in Source
1975	-	Wright's City Directory	Target and Adjoining not listed in Source
1970	-	Wright's City Directory	Target and Adjoining not listed in Source
1966	-	Wright's City Directory	Target and Adjoining not listed in Source
1960	-	Wright's City Directory	Target and Adjoining not listed in Source



## FINDINGS

Year            CD Image            Source

### ROTH ST

2014	pg. A4	EDR Digital Archive
2010	pg. A8	EDR Digital Archive
2005	pg. A12	EDR Digital Archive
1995	pg. A19	EDR Digital Archive
1992	pg. A23	EDR Digital Archive
1989	pg. A26	Wright's City Directory
1985	pg. A29	Wright's City Directory
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1966	pg. A45	Wright's City Directory
1960	pg. A48	Wright's City Directory

## **City Directory Images**



**COMMERCIAL AVE 2014**

1719	DELGADO, ESTHER
1741	APEX EQUITY HOLDINGS LLC
	APEX INVESTMENT GROUP II LLC
	APEX INVESTMENT GROUP III LLC
	APEX INVESTMENT GROUP IX LLC
	APEX INVESTMENT GROUP V LLC
	APEX INVESTMENT GROUP VI LLC
	APEX INVESTMENT GROUP VII LLC
	APEX INVESTMENT GROUP VIII LLC
	MARKET SQUARE ASSOCIATES LLC
	ROUNDHOUSE ASSOCIATES LLC
1743	UNIVERSITY WISCONSIN SYSTEM
2125	MADISON AREA TECHNICAL
2301	ROSEMARY CORPORATION
2302	NATIONAL RENTAL (US) INC
2315	ADC LOCK & KEY
2401	RESALE RECORDS
2409	TRACY, WILLIAM F
2410	HANKS, STEPHEN T
2414	HERRFORTH, CAITLIN
2418	KATHMAN, NANCY R
2420	REMINGTON, GEORGE C
2422	PARK, JOANNE H
2424	CAO, LEONARD W

**MAYER AVE 2014**

713 AMERICAN POSTAL WORKERS UNION  
717 HOON, DAVID R  
721 WIERSMA, LARRY S  
725 SALVAT, MARIA C  
727 KNIGHT, CAROL M  
729 GROSSBERG, LESLIE D  
731 OCCUPANT UNKNOWN,  
801 GEHRKE, JASON D  
LANGHAM, STEPHANIE  
805 CULLEN, PETER  
809 WELCH, ERROL A  
825 WOLD, CAROLYN J  
910 BOCA FOODS COMPANY  
KRAFT FOODS GROUP INC  
LOUIS RICH CO  
QUORUM FEDERAL CREDIT UNION



**PACKERS AVE 2014**

1310 CUDD, COLLIN T  
1314 GRINDLE, GARY L  
1318 OPHIME, DENNIS R  
1322 HAGEN, LAWRENCE J  
1402 ROY, JOSHUA E  
1406 ALEXANDER, PATRICK N  
1410 POLLY JANES PICKLES & JAMS LLC  
REOTT, CHRISTOPHER N  
1414 PETERSON, LISA M  
1418 RYAN, ABIGAIL A  
1422 7459 O MARA MVG SYSTEMS  
OMARA MOVING SYSTEMS INC

**ROTH ST 2014**

1738	COLLINS, DENISE A GARDNER, JOHN B
1802	PALMER, ANITA M SAUNDERS, JUDITH L
1810	HOOPS SPORTS BAR & GRILL
2250	PRIHODA, PAT A



**COMMERCIAL AVE 2010**

1718 KURTH, ANGELA  
OUTHOUSE, BRAD  
PRECIADO, MATTHEW  
SEVERIN 24

1719 BREWER, PAUL E  
BREWERS MOBIL RV SERVICE  
KINGSWAN, QUINTON R

1741 APEX INVESTMENT GROUP VII LLC  
MARKET SQUARE ASSOCIATES LLC  
RICHARD LINGREN

1834 PATRIOTS YOUTH HOCKEY  
SPENCERS PRO SHOP

2125 MADISON AREA TECHNICAL

2301 PENLO INC

2302 NATIONAL RENTAL (US) INC  
RENT-A-CENTER INC

2315 ADC LOCK & KEY

2401 RESALE RECORDS

2409 CORPORA, BRYAN

2410 HANKS, STEPHEN T

2414 DUFFY, RYAN

2418 QUEEN, MAXWELL H

2420 REMINGTON, GEORGE

**MAYER AVE 2010**

713 AMERICAN POSTAL WORKERS UNION  
717 HOON, DAVID R  
721 WIERSMA, LARRY S  
725 SALVAT, MARIA C  
727 QUINN, FLORENCE A  
729 GROSSBERG, LESLIE D  
731 LOEHNERTZ, EMMA  
801 BELLO, EDILBERTO  
DOCKS, GELA  
ERRERA, NEMORIO  
HORTON, CALVIN  
805 PENN, ANTHONY  
809 WELCH, ERROL A  
825 WOLD, CAROLYN J  
910 AMERICAN OCCPTNAL HLTH MGT INC  
BOCA FOODS COMPANY  
INDUSTRIAL SYSTEMS ASSOC INC  
KRAFT FOODS GLOBAL INC  
LOUIS RICH CO  
QUORUM FEDERAL CREDIT UNION



**PACKERS AVE 2010**

1310 HENDERSON, RANDY P  
1314 GRINDLE, GARY L  
1318 OPHIME, DENNIS R  
1322 HAGEN, LAWRENCE J  
1402 ROY, JOSHUA E  
1406 ALEXANDER, PATRICK N  
1410 REOTT, POLLY  
1414 PETERSON, MICHAEL L

**ROTH ST 2010**

1714	POLLOCK AUTO BODY INC
1738	ANDERSON, JOHN R
	BATTLE, RAY
	CURTIN, KEVIN W
	DEAN, SAMUEL
	EDMONDS, FRANKLIN
	ELLARSON, TORY
	JOHNSON, YELONDA
	KACENA, ROBERT
	KIRKLEWSKI, RICHARD
	KLEEMAN, MARY E
	KUEHN, JOAN N
	LARSON, MATTHEW J
	LILLIGAN, JOEL
	MCGINNIS, TIM F
	NICHOLS, JAKE
	PASCHAL, PAMELA A
	PAYSON, DENICE
	RIGSBY, CORNELIUS
	SAFE HAVEN
	THOMAS, JIMMY L
	WANKE, RICHARD D
	ZIMMERMAN, STEVEN
1802	PALMER, ANITA M
	SAUNDERS, JUDITH L
1810	HOOPS SPORTS BAR & GRILL
2250	ROLF, P



**COMMERCIAL AVE 2005**

1718	BUENING, ADAM L
	CHITICA, NANCY E
	KASSIEN, KATHERINE
	KURTH, A
	MARQUEZ, APOLLO
	VAHARES, MICHAEL
1719	BREWER, PAUL E
	BREWERS MOBIL RV SERVICE
1834	SPENCERS PRO SHOP
2125	AMTC APPRENTICESHIP CENTE
	MADISON AREA TECHNICAL COLLEGE
2315	ADC LOCK & KEY
	ADC LOCK AND KEY LLC
	THERING CONSTRUCTION
2401	RESALE RECORDS
2409	MARLOW, ERIC J
2410	OWENS, ROY D
2414	CARLSON, TERRE
2418	WILSON, COURTNEY
2420	VANO, JOHN J
2422	NOVINSKA, MATT K
2426	CHEADLE, JEFFERY T
2428	LEASER, MARCY
2444	LITWIN, FLORIAN R
2448	BUIE, CARRIE R

**MAYER AVE 2005**

713 AMERICAN POSTAL WORKERS UNION  
717 HOON, DAVID R  
721 WIERSMA, LARRY S  
725 SALVAT, MARIA C  
727 QUINN, FLORENCE A  
729 GROSSBERG, LESLIE D  
731 SMITH, JOHN W  
801 ALARCON, DAVID D  
DE, JESUS O  
ERRERA, NEMORIO  
LEON, MARIA G  
MONFIL, JUAN M  
805 ZIMMERMAN, CAROL A  
809 WELCH, ERROL A  
825 PAUL, RUDY  
910 BOCA FOODS COMPANY  
KRAFT FOODS FEDERAL CREDIT UN  
KRAFT FOODS GLOBAL INC  
SDI INC



**PACKERS AVE 2005**

1314 CRAWFORD, PAUL S  
1318 OPHIME, DENNIS R  
1322 HAGEN, LAWRENCE J  
1410 REOTT, CHUCK N  
1414 PETERSON, MICHAEL L  
1418 HUGHES, DIANE M  
1422 MADISON ROTO MOLD SERVICES LLP  
1514 WIPPERFURTH, TONIA A  
1518 MARX, RANDY W  
1520 JANOWSKI, EDWIN C  
1522 STEVENS, JOHN C

**ROTH ST 2005**

1714	POLLOCK AUTO BODY INC
1738	ANDERSON, RENEE M
	BROZEK, BRENT E
	BRUMMEL, CHARLES
	BURGI, STEVEN H
	CHAMBERLIN, GEROLDINE L
	GILBERT, SHAWN R
	JENKINS, TONY L
	KUBERSKI, ALICIA J
	LEWIN, LEE A
	PETERSON, CHARLES M
	SAFE HAVEN
	SAVAGE, BRENDA F
	SAVANHU, CHIPO N
	SCHMIDT, HEATHER L
	SCHNOOR, GILBERT B
	SCHUCH, CINDY F
	SIMPSON, CHARLES
	STARCK, JOSEPH B
	WRIGHT, KEVIN
1802	PALMER, ANITA M
	SAUNDERS, JUDITH L
1810	HOOPS SPORTS BAR & GRILL
2250	PRIHODA, PAT A



**COMMERCIAL AVE 2000**

1718 ROCHA, CARLOS  
SCOTT, JOHN L  
1719 BREWER, PAUL  
KANE, JOHN F  
1741 ROUNDHOUSE MKTG & PROM INC  
1750 WELLINGTON EQUIPMENT CORP  
2125 AMTC APPRENTICESHIP CENTE  
MADISON AREA TECHNICAL COLLEGE  
2401 RESALE RECORDS  
2409 MARLOW, ERIC S  
2504 HAIR FLAIR  
2510 KLONGLAND, JERRY A  
2514 LUTTIG, JOHN P  
2518 GOSDA, JULIE A

**MAYER AVE 2000**

713 AMERICAN POSTAL WORKERS 241  
717 HOON, DAVID R  
721 WIERSMA, LARRY  
725 SALVAT, MARIA  
727 KNIGHT, CAROL M  
729 GROSSBERG, LESLIE  
731 SMITH, JOHN W  
801 FLORICK, MATTHEW K  
JOHNSTON, JAMES P  
YUSTEN, KRISTIA  
805 ZIMMERMAN, CAROL A  
809 WELCH, ERROL A  
825 KENDALL, DAWN  
910 KRAFT FOODS FEDERAL CREDIT UN  
KRAFT FOODS INC  
PHILIP MORRIS INCORPORATED  
SUPERIOR AGRESOURCE INC



**PACKERS AVE 2000**

1306 ABERG & PACKER STORAGE  
1310 COUGHLIN, RAY A  
1314 CRAWFORD, PAUL S  
1318 OPHIME, DENNIS R  
1322 HAGEN, L J  
1402 COPELAND, WILLIAM  
1406 ALEXANDER, ALONZO P  
1410 EVERSON, MARY K  
1414 PETERSON, LISA M  
1418 ARNOLD, CAROL A  
1422 WISCONSIN PELLETIZING CORP

**COMMERCIAL AVE 1995**

1718 LINDEN, D R  
ROSITAS RESTAURANT & BAR  
WATSON, D  
1719 GERSCH, LISA M  
1741 DESIGN WEST INC  
1800 OVERNITE TRANSPORTATION CO  
1834 HARTMEYER ICE ARENA  
2125 AREA VOCATIONAL TECH AND ADULT  
2301 PENLO INC  
2401 RESALE RECORDS  
2409 MARLOW, ERIC S  
2504 MARLINS ROFFLER HAIR STYLING



**MAYER AVE 1995**

713 AMERICAN POSTAL WORKERS 241  
717 HOON, DAVID R  
721 WIERSMA, LARRY  
725 SALVAT, MARIA  
727 QUINN, F A  
729 SCHULTZ, LARRY  
731 SMITH, JOHN W  
801 FRASER, C  
THOMAS, M  
805 OCCUPANT UNKNOWNN  
809 WELCH, ERROL A  
825 TAYLOR, KIMBERL  
910 MAYER OSCAR FOODS CORPORATION

**PACKERS AVE 1995**

1306 ABERG & PACKER STORAGE  
1310 COUGHLIN, RAY A  
1314 STRAND, PEARL  
1318 OPHIME, DENNIS R  
1322 HAGEN, L J  
1402 COPELAND, WILLIAM  
1406 KOEPKE, DENNIS L  
1410 ADAMS, PHILLIP  
1414 BURNETT, DON  
1418 EVANS, JAMES  
1422 WISCONSIN PELLETIZING CORP



**ROTH ST 1995**

1714	POLLOCK AUTO BODY INC
1738	ASCHEBROOK, JASON E
	BIRNSCHEIN, JASON
	BUSS, JASON
	DUBOIS, MICHAEL JR
	ROGERS, R S
	SARENPA, BRIAN L
	SCHNELLER, N
1802	PALMER, ANITA M
	SAUNDERS, JUDITH
1810	KNUCKLES
1910	MAYER OSCAR FOODS CORPORATION
2250	WAGMILLER, THOMAS

**COMMERCIAL AVE 1992**

1713 SUTERS GOLD MEDAL SPORTS  
1718 YESTERDAYS ONCE MORE  
1834 HARTMEYER ICE ARENA  
2125 AREA VOCATIONAL TECH AND ADULT  
2301 PENLO INC  
2401 RESALE RECORDS  
2504 MARLINS ROFFLER HAIR STYLING  
2510 KLONGLAND, JERRY A  
2518 GOSDA, GEORGE W  
2526 KOLOEN, JAMES



**MAYER AVE 1992**

717 HOON, DAVID R  
725 ADAMS, TERRY E  
SLEATH, BETSY L  
727 QUINN, ROBERT S  
729 SCHULTZ, LARRY  
731 SMITH, JOHN W  
801 VARGA, MARK  
809 WELCH, ERROL A  
825 ACE, COLIN J  
910 MAYER OSCAR FOODS CORPORATION  
WAGONS-LITS TRAVEL USA INC

**PACKERS AVE 1992**

1310 COUGHLIN, RAY A  
1314 STRAND, PEARL  
1318 OPHIME, DENNIS R  
1322 ROWE, VERNON  
1402 COPELAND, WILLIAM  
1406 KILGORE, BRIAN J  
1414 BURNETT, DON  
1514 NORDNESS, ELEANOR M  
1518 ANDERSON, FREIDA M  
1522 PFEIFFER, M C  
1526 AFFHOLDER, TONY JR



**ROTH ST 1992**

1714	POLLOCK AUTO BODY INC
1738	LITTLE, CHARLES A PASKE, RAYMOND
1802	PALMER, ANITA M
1910	MAYER OSCAR FOODS CORPORATION
2250	NEUSEN, ANNA L
18021	SAUNDERS, JUDITH

**COMMERCIAL AVE 1989**

6 Vacant	
1719 Apartments	
1 Duerst Jeff	
2 Penner Robt T 246-0279	
SUPERIOR STREET ENDS	
C & NW RR CROSSES	
1741 Vacant	
1800 Yellow Freight Systems Inc 244-1300	
P I E Nationwide Inc trkg 244-8565	
A-One Welding Specialists Inc	
1834 Hartmeyer Ice Arena 246-4512	
	<b>16</b>
PENNSYLVANIA AV INTERSECTS	
VINE ST ENDS	
LIVONIA ST INTERSECTS	
2125 Madison Area Tech College 246-5200	
PACKERS AV INTERSECTS	
2301 Deon's gas sta 244-5880	
2315 Stark Harold R Co snowplowing 244-2204	
SCHOFIELD ST INTERSECTS	
	<b>46</b>
NORTH ST INTERSECTS	



**MAYER AVE 1989****16****MAYER AV -FROM INTERSECTION OF  
COMMERCIAL AV AND NORTH ST  
NORTHWEST****ZIP CODE 53704****713 American Postal Workers Union 249-2755****717 Hoon David R © 249-9596****721★Schwark Michl J © 244-5575****725 Vacant****727 Quinn Robt S © 249-2758****729 Schultz Lawrence R © 249-4750****731 Smith John W © 249-3913****DEXTER ST INTERSECTS****801 Apartments****1 Lyerly Warren Jr****2 Anderson Marie H 244-8659****3 Vacant****4 Vacant****805 No Return****809★Welch Errol 249-1939****825★Ace Colin J 241-9791****PACKERS AV INTERSECTS****910 Wagons-Lits Travel U S A 241-7777****Oscar Mayer Foods Corp 241-3311****99**

ROTH ST 1989

18

**ROTH ST -FROM 2700 SHERMAN AV  
EAST**

ZIP CODE 53704

CROWLEY AV BEGINS

1714 Pollock Auto Body Inc repr 244-1726

1736 Humane Restraint Co Inc 244-2313

1738★Leary Sean P 241-9313

RUSKIN ST BEGINS

1802 Floors

Upper Richardson Terry 241-2570

Lower Saunders Judith © 241-9668

1810 Knuckle's Bar & Grill bar & restr  
244-5656

O'NEILL AV BEGINS

HUXLEY AV BEGINS

1910 O M Ingredients spices whol 241-6811

PACKERS AV INTERSECTS

2250 Neusen Lora Mrs © 244-3857

59-A



## COMMERCIAL AVE 1985

**COMMERCIAL AV —FROM 500 N  
SHERMAN AV EAST****18****ZIP CODE 53704****1713 Suters Medal Sports sls 244-7370****No Return****1718 Yesterday Once More tavern 241-0411****Apartments****6a★Kluever Darrell 241-0411****1★Lopez Fernando****2 Davis Bruce M 249-3815****3★Williams Stan****4★Webb Victoria 244-7691****5★Dickson Marc****1719 Schiefelbein Theo W © 249-5876****SUPERIOR STREET ENDS****C & NW RR CROSSES****1741 Vacant****1800 Yellow Freight Systems Inc 244-1300****Ryder-P I E Nationwide 244-8565****1834 Hartmeyer Ice Arena 246-4512****16****PENNSYLVANIA AV INTERSECTS****OLIE ST ENDS****VINE ST ENDS****LIVONIA ST INTERSECTS****2125 Madison Area Tech College 246-4650****PACKERS AV INTERSECTS****2301 Deon's gas sta 244-5880****2315 Mack's Ash Line septic tank clnrs****249-6344****SCHOFIELD ST INTERSECTS****46****NORTH ST INTERSECTS****2401 Resale Records 249-4364****2409 Parker Lou Ann 244-2583****2504 Marlin's Hairstyling 244-9762****2510 Klouglund Jerry A 244-5446**

**MAYER AVE 1985**

16

**MAYER AV —FROM INTERSECTION OF  
COMMERCIAL AV AND NORTH ST  
NORTHWEST****ZIP CODE 53704**

713 Tu-Lips Salon Of Beauty 241-5400  
 717 Hoon David R © 249-9596  
 721 Guitzkow Gladys R Mrs © 244-5575  
 725 Villarreal Anselmo  
 727 Quinn Robt S © 249-2758  
 729 Johnson Lawrence A © 244-9165  
 731 Smith John W © 249-3913

**DEXTER ST INTERSECTS**

801 Apartments  
 1★Lyerly Warren Jr  
 2 Tiedt Kenneth 241-7809  
 3★Jones David 241-3677  
 4★Murray Chas T 246-2645  
 805 Klock Johnny 249-4065  
 809 Kenyon Rodney © 249-0639  
 825 Ipsen Peter A 241-5660

**PACKERS AV INTERSECTS**

910 Oscar Mayer Foods Corp 241-3311



ROTH ST 1985

**ROTH ST —FROM 2700 SHERMAN AV  
EAST****ZIP CODE 53704****CROWLEY AV BEGINS****1714 Pollock Auto Body Inc repr 244-1726****1736 Humane Restraint Mfg Co 244-2313****1738 Baumann Francis X 244-7732****Burkfield R E 244-1945****Quinn K J 241-7868****RUSKIN ST BEGINS****1802 Moyes Marcella M Mrs © 244-7861****1810 Riesen's Rendevous restr 244-5656****O'NEILL AV BEGINS****HUXLEY AV BEGINS**

ROTH ST 1985

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**ROTH ST—Contd**

1910 O M Ingredients whol 241-6811

PACKERS AV INTERSECTS

2250 Neusen Lora Mrs © 244-3857

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## COMMERCIAL AVE 1980

**COMMERCIAL AV —FROM 500 N  
SHERMAN AV EAST****ZIP CODE 53704****1713 Vacant****1718 Harold's Zodiac Club tavern 244-6671****Apartments****A★Bailey Harold R 244-5420****1★Rupel Bill W 241-0987****2 Vacant****3★Anderson Gerald****4★Buttris Donald****5★Hirayama Leila 241-5957****1719 Bliss Pamela A****Schiefelbein Theo W © 249-5876****SUPERIOR STREET ENDS****C & NW RR CROSSES****1741 Wholesale Kitchen & Appliance cabts  
241-1538****1800 Liberty Trucking Co 244-2455****1818 Northside Garage 249-3267****1834 Hartmeyer Ice Arena 249-0139****PENNSYLVANIA AV ENDS****OLIVE ST ENDS (NOT OPEN-****VINE ST ENDS (NOT OPEN-****LIVONIA ST ENDS****2125 Madison Area Tech College 266-5009****PACKERS AV INTERSECTS****2301 Haneys Transport gas sta 244-9729****2314 Display Productions Inc 249-1716****2315 Mack's Ash Line 249-0344****SCHOFIELD ST ENDS**



**MAYER AVE 1980**

2741 Kyle John E 238-0346  
2742 Purucker Ralph E © 233-6278  
FRANKLIN AV INTERSECTS  
2800 Hopkins Edw L © 233-1310  
2801 Zitnick Johanna M Mrs © 238-5203  
Fleckenstein M C  
2805★Lettofsky Jean 238-9251  
2809 Blondin Geo A © 238-0123  
2810 Nordheim Erik V © 233-8151  
2813 Code Arth D © 238-2256  
2814 Dunkel Paul R © 238-5928  
2817 Rich Danl H © 233-3647  
2818 Bergemann Debra  
2819 Ahrons Constance R ©  
2822 Rafoth Harold A © 233-8288  
2826 Pondrom Lee G © 238-7548

**MASTHEAD DR —FROM ISLAND DR EAST**

ZIP CODE 53705  
6213 Heilman David D © 231-1874  
6215★Tebo Larry E 233-9307  
6305 Yussen Steven R © 233-8652  
6310 Buboltz Thos C © 238-6915  
6314 Vacant  
6317 Percy Donald E © 233-6921  
6318 Keisler H Jerome © 231-3386  
6321 Gilbert Robt D © 238-2411  
6322 Yeazel Roy V © 233-6002  
6325 Kammer John M © 231-1549  
6326 Kinaast John © 238-9901  
6329 Schlimgen Gilbert W © 238-3735  
6330 Anderson John M © 233-2672  
6333 Lundeen Geo T 233-0375  
6334 Wagner Leon A © 238-0587  
6337 Davies James R © 238-7802  
6338 Morgan James W © 238-9082  
6401 Stevenson John W © 238-3058  
6402★Goedjen Richd S 238-1418  
6405★Stier Danl 231-3301  
6406 Sinaiko Patricia A Mrs © 238-3534  
6409★Cunningham Edw © 233-2390  
6410 Hirschfeld Benj 233-3427  
6413 Vacant  
6414 Randall Alvin H © 233-2960  
6417 Kutler Stanley I © 238-0838

**MATHY'S RD (MONONA)—FROM WINNEQUAH RD WEST 3 SOUTH OF NICHOLS RD**

ZIP CODE 53716  
1304 Dowd John C © 221-0467  
1305 Butler J David © 222-1024  
1306 Tygum Phillip E © 221-0491  
1307 Schulze Walter P © 221-2804  
1308 Coakley Harold A © 222-7787  
1309 Wienke John E © 222-4485  
1310 Gutzmer Ivan W © 221-3107  
1400 Vitense Robt W © 222-7943  
1401 Jambura Donald L © 222-4525  
1402 Unmacht Ronald L © 222-7279  
1403 Duckert Harold W © 222-6585  
1404 Seifert Michl E ©  
1406 Zinos Peggy Mrs © 222-6158  
1408 Olson Evadine E Mrs © 221-0750

**MAYER AV —FROM INTERSECTION OF COMMERCIAL AV AND NORTH ST NORTHWEST**

ZIP CODE 53704  
713 Barb & Doris' Park Cafe 241-5052  
717 Hanson Randy J © 244-1253  
721 Guitzkow Carl J © 244-5575  
725 Baker Donald © 244-0566  
727 Quinn Robt S © 249-2758  
729 Johnson Lawrence A © 244-9165  
731 Smith John W 249-3913  
DEXTER ST ENDS  
801 Apartments  
1★Nelson Carolyn 249-3076  
2★Onirs A K 241-0129  
3 Vacant

4★Sanchez Victor 249-4187  
805 Hochstetter James 244-9195  
809 Ditsch Mark A 244-3443  
825 Simmons Jeff S  
PACKERS AV INTERSECTS  
910 Mayer Oscar & Co 241-3311

**MAYFAIR AV —FROM 3600 HIGHWAY 30 NORTH**

ZIP CODE 53714  
614 Koch Delores M Mrs © 244-4448  
615 Am Family Ins (Whse) 249-2111  
622 Benisch Norbert A © 249-8844  
625 Emmer Madison Inc wholesale bldg matls 241-3851  
68 630 Fiscus Donald R © 241-8945  
638 Sundquist Carl R © 244-4275  
BURKE AV INTERSECTS  
703 Georgia-Pacific Corp (Br) 241-3874  
706 Jascon Walton  
710 Elliott Robt L © 244-3985  
714 Mitchell David E © 249-6891  
722 Vacant  
726 No Return  
728★Sobel Patk J 241-1429  
730 Durand Diane R 244-1236  
732 Vacant  
738 Van Buren Janice R 249-4299  
HOME AV INTERSECTS  
801 Ward Bros Transfer & Storage 249-4545  
806 Apartments  
1 Vacant  
2 Emmerich Teri L 241-5518  
3 No Return  
4 Vacant  
810 Apartments  
1 Vacant  
2 No Return  
3 No Return  
4 Beyersdorf Mitchell F 244-1009  
811 Video Images tv equip 241-5281  
814 Apartments  
1 Vacant  
2 Johnson Thos R 241-5175  
3 Vacant  
4 Vacant  
817 Pumps & Equipment Inc wholesale distr 249-2186  
818 Apartments  
1 Vacant  
2 Vacant  
3 No Return  
4 Vacant  
822 Apartments  
1 Vacant  
826 Demrow Carl R 241-2866  
828 Vacant  
LEXINGTON AV INTERSECTS  
902 Gill Wm R © 244-2891  
905 Apartments  
1 Vacant  
2★Neve Joan E 241-5955  
3 Zietlow Roger  
4 Vacant  
5 Vacant  
6 Vacant  
7★Harried Richd W 244-0981  
8★Alley D  
16 906 Thomas Harvey F © 241-5775  
909 Larson Louis L  
910 Tracy Lester © 249-2053  
914 Zutter Ralph E © 244-2608  
918 Najdowski Donald P © 241-2258  
BRIGHAM AV ENDS  
921 Rowe Glenn L © 249-4613  
922 Davis James I © 249-1884  
926★Sokolak Norbert © 241-5409  
929 Dicks Donald A © 244-1240  
930 Van Valkenburg Vern © 244-0634  
933 Zirkel Robt © 249-4079  
934 Calnin Michl J © 244-6106  
937 Chryst A Chester © 249-1505  
938 Brock Charles A © 244-6488  
941 Beuk Otto A © 249-4024  
942 Herling Craig M © 244-4656  
949 Piotrkowski Bernard © 249-9624



## ROTH ST 1980

**ZIP CODE 53704****CROWLEY AV BEGINS (NOT OPEN-****1714 Pollock Auto Body Inc repr 244-1726****1736 Northgate Auto Parts (Br Madison Auto  
Sup) 249-0431****1738 Baumann's Paint Co contr 244-7732****Baumann Francis X 244-7732****Burkfield Ralph 244-4904****\*Johns Richd A 244-0368****RUSKIN ST BEGINS****1802 Moyes Marcella M Mrs © 244-7861****1810 Caravello's Bar & Restaurant 244-5656****O'NEILL AV BEGINS****HUXLEY AV BEGINS**

ROTH ST 1980

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**ROTH ST—Contd**

**1910 Quality Control Spice Co Inc whol  
241-4637**

**C M ST P&P CROSSES**

**CITY LIMITS**

**PACKERS AV INTERSECTS**

**2250 Neusen Lora Mrs © 244-3857**

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**COMMERCIAL AVE 1975****COMMERCIAL AV —FROM 500 N  
SHERMAN AV EAST****18****ZIP CODE 53704**1713 Lennie's Bait & Tackle 241-2767  
Hamer Rae M Mrs 241-4505

1714 Vacant

1718 Harold's Club tavern 244-6671  
Apartments

A Vacant

1 Vacant

2 No Return

3★Vanden Heuvel Steph J 241-0625

4★Fleischer M

5★Kuehni Gary S 244-6380

1719★Bliss Pamela A

Schiefelbein Theo W © 249-5876

**SUPERIOR STREET ENDS****C & NW RR CROSSES**

1739 C &amp; N W (Round Hse) 244-0023

1741 Kitchen Wholesalers Corp cabts  
241-1538

1800 Liberty Trucking Co 244-2455

Spector Freight System Inc 241-1271

1818 Allen Wrecking Co bldg wreckers  
249-1930

1834 Hartmeyer Ice Arena 249-0139

**16****PENNSYLVANIA AV INTERSECTS****OLIVE ST ENDS (NOT OPEN-****PACKERS AV BEGINS****VINE ST ENDS (NOT OPEN-****N 8TH ST ENDS****LIVONIA ST ENDS**

2125 Madison Area Tech College 257-6711

**SCOFIELD ST ENDS****MAYER AV BEGINS**

2301 Minor's Transport gas sta 244-9729

2315 Mack's Ash Line 249-6344

**46****NORTH ST INTERSECTS**

2401 Benson Heating Co 244-6580

2409 Jafferis Nick C 249-2283

2504 Jack's Barber Shop 244-9965

2514 Pfliger Thos L © 244-1757

2518 Gosda Geo W © 249-1926

**MAYWOOD ST ENDS**

2522 Kniebuehler Arlene Mrs © 249-0081

2526 Mahoney Donald L 241-0932

2529 Laufenberg Casper T © 249-3925

2530 Dver Murrav K © 249-3622

## MAYER AVE 1975

16

**MAYER AV —FROM INTERSECTION  
OF COMMERCIAL AV AND NORTH  
ST NORTHWEST**

**ZIP CODE 53704**

**713 Park Cafe 244-9773**

**717★Anderson Ray 244-8659**

**721 Guitzkow Carl J © 244-5575**

**725 Baker Lola B Mrs © 244-0566**

**727 Quinn Robt S © 249-2758**

**729 Johnson Lawrence A © 244-9165**

**731 Smith John W © 249-3913**

**DEXTER ST ENDS**

**801 Apartments**

**1 Gutzmer Ronald D 241-1961**

**2★Mc Guire Ken**

**3 Wake James H**

**4 West Kenneth L 241-1693**

**805 Kowalke Bradley R 244-0314**

**809★Kolste Marvin © 241-3356**

**825 Vacant**

**PACKERS AV INTERSECTS**

**910 Mayer Oscar & Co 241-3311**



## ROTH ST 1975

2 Dunnick Wesley A 271-5837  
3 Wiltzius Paula 274-3294  
4★Larson Roger 274-6142

2250 Neusen Lora Mrs © 244-3657

ROSEWOOD CIR —FROM 900  
PONTIAC TRAIL SOUTH

ZIP CODE 53711  
1 Jackson Bill B 274-3562  
2 Wendt Donald A ©  
3 Strassburger Harvey D © 274-3315  
4 Rohde Edw W Jr © 274-1290  
5 Rohde Dale F © 271-8470  
6 Liechty Thornton A 274-0288  
7 Greene L S 724-0185  
9 White Fredk A © 274-0331  
10 Suomi Verner E © 274-3661  
11 Bryson Reid A © 274-0061

ROTHMAN PL (MONONA)—FROM W  
DEAN AV SOUTH 2 WEST OF MC  
KENNA RD

ZIP CODE 53716  
4704 Schwan Edmond F © 222-1096  
4708 Thompson Gary A © 222-9718  
4710 Gosh Bernard E © 222-4447  
4712 Homburg Melvin F © 222-1643  
4714 Hunter Leon J © 222-1776  
4801 Piazza Norman F © 222-0848  
4802 Falkner Creighton E © 222-1386  
4803 Zivney Douglas F © 222-2766  
4804 Mickelson Wesley A © 222-4365  
4805 Jones Howard D Jr © 222-1542  
4806 De Lucca Duane J © 222-3068  
4807 Gaska John T © 222-8002  
4808 Lunde Andrew © 222-9751  
4809 Engbring Gerald E © 222-4493

ROSS ST —FROM OPP 229 S  
FRANKLIN AV WEST

ZIP CODE 53705  
3701 Clingman Hortense H Mrs ©  
233-6740  
3702 Mueller Harriet J Mrs © 233-7045  
3705 Bondo Palma K Mrs © 238-6284  
3706 Jabs Aldro H © 233-2521  
3709 Dunn Philip A ©  
3710 Boelsing Zona D 238-2336  
3713 Hansen Gary L © 238-4561  
3714 Schwab Floyd © 233-3832  
3717 Dietrich Jessie A © 233-8693  
3718 Collins Carol K Mrs © 233-1703  
3722 Amdahl Alvin P mason contr ©  
238-6554  
3723 Hager Virginia Mrs © 233-3822  
3725 Malcolmson Fredk C © 233-4610  
3726 Sadler Grace A Mrs © 233-5806  
3729 Beckman Milo H © 233-6991  
3733 Lillesand Walter J © 233-5224  
3734 Kasten Lloyd A © 233-6952  
3737 Bright Franklyn F © 233-1504  
3738★Werth Karen J 233-9026  
3741★Lee Richd © 233-3275  
3742 Rogers Sion C Jr © 233-2982  
3745 Topp Arth B © 233-3377  
3746 Casey Wm I © 233-1845  
GLENWAY ST INTERSECTS  
CITY LIMITS

PROGRESSIVE LANE ENDS  
4810 Clark Raymond A © 222-3059  
4812 Kraak Leroy E © 222-5031  
4814 Geil Ivan M © 222-2518  
4816 Hooker Loretta A Mrs © 222-0975  
4902 Borchardt Albert R © 222-5907  
4903 Von Allmen Robt H © 222-2324  
4904 Hume Gene M © 222-5891  
4905 Banfi Waldemar E © 222-2955  
4906 Bonfield David W © 222-5444  
4907 Seefeldt Donald A © 222-2116  
4908 Loney Donald E © 222-1657  
4909 Copenhagen Eug © 222-5738  
4910 Lewis Harold F © 222-0974  
4911 Derr Jack E © 222-1427  
4913 Chittenden Virginia M Mrs ©  
4915 Aikins Carl A © 222-1914

ROTH ST —FROM 2700 SHERMAN AV  
EAST

ZIP CODE 53704  
CROWLEY AV BEGINS (NOT OPEN-  
1714 Pollock Auto Body Inc reor 244-1726  
1736 Northgate Auto Parts (Br Madison  
Auto Sup) 249-0431  
1738 Baumann's Paint Co contr 244-7732  
Baumann Francis X 244-7732  
RUSKIN ST BEGINS  
1802 Moyes Marcella M Mrs © 244-7861  
Ruhland Sylvester 249-5889  
1810 Caravello's Bar & Restaurant restr  
244-5656  
O'NEILL AV BEGINS  
HUXLEY AV BEGINS  
1910 Vacant  
C M ST P&P CROSSES  
CITY LIMITS  
PACKERS AV INTERSECTS

ROUND HILL CIR —FROM 7000  
FARMINGTON WAY SOUTH

ZIP CODE 53705  
1 Oertel Howard L Jr © 836-9150  
2 Frank Herbert © 836-3375  
6 Walter James E © 836-8388  
9 Faust Richd C © 836-5747  
13 Under Constn  
14★Gallagher Jerry E 836-1764

ROWELL ST —FROM 400 W LAKESIDE  
ST SOUTH

ZIP CODE 53715  
1001★Jaeger John A 251-0529  
Smith Rose M  
POTTER ST ENDS  
1101 Gibson Thos A © 255-6125  
1105 Feiler James M 251-6613  
★Arttermeier Mark H 256-2750  
VAN DEUSEN ST ENDS  
(NOT OPEN BETWEEN VAN DEUSEN  
AND W OLIN AV-  
W OLIN AV INTERSECTS

ROWLAND AV —FROM 3800 E  
WASHINGTON AV NORTH

ZIP CODE 53704  
1614 O'Kane Steven © 249-2262  
1618 Roth Dorothy Mrs © 244-9595  
RIDGWAY AV INTERSECTS  
1701 Wheaton Kenneth D Jr 244-9146



## COMMERCIAL AVE 1970

2708 Combs Ova B © 233-6389  
 WELLESLEY ST INTERSECTS  
 2800 Solmsen Fredk © 233-1585  
 2803 Timlin Irene A Mrs © 233-6288  
 2804 Jordan Scott B © 233-5071  
 2805 Stein Irvine Y © 233-7651  
 SWEETBRIAR RD BEGINS  
 2809 Lewis Philip H Jr © 238-7219  
 2809½ No Return  
 2816 Beale Georgia R Mrs © 233-1181  
 DARTMOUTH RD INTERSECTS  
 2902 Mossman Harland W © 233-1171  
 2905 Stanley Gladys J Mrs © 233-4872  
 2909 Allhiser Norman C © 233-8684  
 2910 Alexander Winfield V © 233-6172  
 2913 Sirny Rudolf F © 238-3302  
 2916 Steiro Harry © 238-4450

53

COMANCHE WAY —FROM KEARNEY  
RD NORTH, 1 WEST OF SHERMAN  
AV

## ZIP CODE 53704

4810 Lettman Duane © 249-1745  
 4814 Hamilton Jack E © 244-6743  
 818 Albrecht Edw G © 244-0134  
 4825 Roy Lucien L © 249-2206  
 4829 Mc Clarin Gary ©  
 4901 Maerz Ronald A © 249-0970  
 4902 Randall John G © 244-2542  
 Randall John M 244-2542  
 4905 Mc Manamy Phillip A © 249-3339  
 4906 Dillabough Roy V © 244-7560  
 4909 Rahn Alf E © 249-6983  
 4910 Gullickson Donald E © 249-8308  
 4913 Hall Michl © 249-5060  
 4914 Marks Keith A © 249-3130  
 5105 Erich Floyd O © 244-4416  
 5205 Ayen Gordon 249-5210  
 5221 Amacher Donald R © 244-8074  
 5301 Walsh Leroy G © 244-2278  
 5305 Meuer Wm J © 244-6434  
 5309 Davis Wm F © 249-9353  
 5313 Birkley Michl M © 249-1529  
 5317 Brischke Robt J © 249-4612  
 5321 Erickson Orvin T © 249-6019  
 5325 Hartung Paul J © 249-6247  
 5326 Turcott Ruth Mrs © 244-2765  
 5330 Ryan Delbert F bldg contr ©  
 249-8179  
 5333 Cherokee Park Inc (Br) real est  
 249-6417  
 5334 Schlosser John C 249-6006  
 5337 Falck Herbert W © 244-0032  
 5338 Golphin Robt F © 244-4952  
 5341 Hubacher Howard J © 244-4984  
 5346 Vacant  
 5349 Olson Randall W kitchen equip mfrs  
 agt © 249-8034  
 5401 Kopp Richd D © 244-7535

18

COMMERCIAL AV —FROM 500 N  
SHERMAN AV EAST

## ZIP CODE 53704

1713 Lakeland Bait Depot 249-3300  
 Lewis James D © 249-3300  
 1714 Markes Linda Mrs 249-6810  
 1718 Bailey's Spanish Village tavern  
 244-6671  
 Bailey Harold R 249-3976  
 Apartments  
 1 Bonner Karen K 244-1854  
 2 Carlson Mel 249-2623  
 3 No Return  
 4 Picchi B L 244-6339  
 5 No Return  
 1719 Esse Berton F 249-1295  
 Hahn Victor R 241-1072  
 SUPERIOR STREET ENDS  
 C & NW RR CROSSES  
 1739 C & N W (Round Hse) 244-0023

1741 Plywood Madison Inc bldg materials  
 244-1396  
 1822 Trip-A-Lin Tavern 249-2077

16

PENNSYLVANIA AV INTERSECTS  
 OLIVE ST ENDS (NOT OPEN-  
 PACKERS AV BEGINS  
 VINE ST ENDS (NOT OPEN-  
 N 8TH ST ENDS  
 LIVONIA ST ENDS  
 2125 Madison Area Tech College 257-6711  
 SCOFIELD ST ENDS  
 MAYER AV BEGINS  
 2301 Berger's Transport Oil gas sta  
 244-9729

46

## NORTH ST INTERSECTS

2401 Donovan Sheet Metal Works 244-0962  
 2409 Jafferis Nick C 249-2283  
 2504 Ken's Barber Shop 249-0969  
 Turnipseed John  
 2510 Vacant  
 2514 Wilson Guy E © 249-5867  
 2518 Gosda Geo W © 249-1926  
 MAYWOOD ST ENDS  
 2522 Priestley Howard G © 249-3621  
 2526 Ophime Ruth I Mrs 244-8469  
 2529 Laufenberg Casper T © 249-3925  
 2530 Dyer Margt Mrs © 249-3622  
 2534 Rubin Marcella A Mrs © 244-5952  
 2537 La Barro Mabel Mrs © 244-2758  
 2538 Walswick Lewis H © 249-2217  
 2541 Hackbart Wm F 244-5804  
 Du Charme Elaine O 249-3958  
 2542 Disch Ingeborg Mrs © 249-4978  
 2545 Mellor Henry E © 244-2781  
 2546 Wozar Joseph J © 244-5581  
 STANG ST INTERSECTS  
 2601 Viviani Angelo © 244-6193  
 2602 Syverud Arvilla M Mrs 244-6544  
 2605 Cappaert Henry A © 249-6921  
 2606 Donker W G 249-4269  
 2609 Wichern Lottie Mrs © 244-2946  
 2610 Wessels Erwin  
 2613 Schultz Mary L Mrs © 244-4227  
 2614 Winchester Burnhard © 249-0031  
 2617 Goff Anna N Mrs © 244-3163  
 2618 Lunde Mildred A Mrs © 244-1188  
 2621 Schlichenmaier Eug B © 244-4026  
 2622 Morfey Wilson 241-1019  
 2625 France Frank F © 244-5748  
 2626 Gorman Eug J © 249-2557  
 2629 Angus Wm J © 244-5300  
 2630 Studeville Ll 249-9603  
 Everhart R M 249-7287  
 Peterson J 244-1297  
 Kurt Wm E 249-4376

2633 Commercial Avenue Grocery 244-5514

## KEDZIE ST INTERSECTS

2701 Klevgaard Bertha S Mrs © 244-8751  
 2702 Eason F  
 2705 Hilden Heizel G © 244-8083  
 2706 Nelson Melvin C © 249-1855  
 2709 Lacy Eleanor H Mrs © 244-1528  
 2710 Barghahn Emma M Mrs © 244-6311  
 2713 Egstad Robt 249-3586  
 2714 Mc Chesney R © 244-3832  
 2718 Larson Jeffrey A 241-1032  
 Bettisworth David 249-0801  
 2719 Lord W Harold 244-0172  
 2721 Tenuta Winifred Mrs © 249-1596  
 2729 Garner Roy D © 249-2445  
 2733 Mc Micken Norman R © 244-2714  
 PAWLING ST INTERSECTS  
 2734 Duane David 249-3601  
 Cox Mary Mrs © 241-1862  
 2737 Sarrnders Steven 241-1035  
 Fraser Lemuel B 244-3756  
 2738 Olson Harold E © 249-8656  
 2741 Lenz Raymond C © 249-1507  
 2742 Mergen Marian E Mrs © 249-2216  
 2744 Hamre Simon P © 244-3604  
 2745 Stiemke Adolph G © 244-5714



## MAYER AVE 1970

731 Smith John W © 249-3913

DEXTER ST ENDS

801 Mikula Kathryn Mrs 244-1986

Thingstad Ramona Mrs 244-1731

805 Miller Margt

809 Kramer Delbert © 244-7618

825 Ellis Elton W 249-9721

PACKERS AV INTERSECTS

910 Mayer Oscar & Co meats whol  
244-1311

Mayer Oscar Credit Union 249-7321

✓

**ROTH ST 1970**

1738 Baumann's Paint Co pntr contr  
244-7732  
Baumann Francis X © 244-7732  
RUSKIN ST BEGINS  
1802 Moyes Lawrence J © 244-7861  
1810 Under Constn  
O'NEILL AV BEGINS  
HUXLEY AV BEGINS  
1910 Roth C E & P A Inc bldg materials  
244-2461  
C M ST P&P CROSSES  
CITY LIMITS  
PACKERS AV INTERSECTS

**16**

2248 Jungbluth John  
2249 Apartments  
1 No Return  
2 Abramson Morton L 249-7204  
3 Elliott Robt L 249-2213  
4 Mc Gowan Judith K 249-9187  
A 2250 Neusen Herman H © 244-3857  
2253 American Home Improvement contrs  
249-3217  
Subola Peter S contr carp © 249-3217

**58**



COMMERCIAL AVE 1966

5 Carlson Mel

1719 Ease Burton 249-1295

1726 Schultz Harold

1739 C&NWRy (yd ofc)

1741 Plywood Madison Inc bldg materi-  
als 249-9259

Superior st ends

C&NW crosses

1822 Trip-A-Lin Tavern 249-2077

## COMMERCIAL AVE 1966

**COMMERCIAL AV—Contd**

1

**Pennsylvania av intersects****Olive st ends (not open)****Packers av begins****Vine st ends (not open)****N 8th st ends****Livonia st ends****2125 Vocational Tech and Adult Sch****automotive and diesel center****255-4541****Scofield st ends****Mayer av begins****2301 Transport Oil 244-9729**



## MAYER AVE 1966

16

**MAYER AV—From intersection of Commercial av and North st northwest**

**Zip Code 53704**

713 Park Cafe restr 244-6662

717 Klossy Inez 244-0458

721 Guitzkow Carl J © 244-5575

725 Baker Howard D © 244-0566

727 Quinn Robt S © 249-2758

729 Johnson Lawrence © 244-9165

731 Smith John W © 249-3913

**Dexter st ends**

801 Kujawa David 244-8622

Sturlaugson Eleanor E Mrs

Thingstad Ed A 244-1731

Pyle Gerald 249-2889

Olson Terry

Moore Jas

Moe Norman 244-3166

**803 Apartments**

1 Vacant

2 Trachte Kenneth G 244-5993

3 Vacant

4 Paulson Philip

805 Palan Wencil J 249-2914

Retrum Larry 244-4983

825 Stelter Albert H © 244-3902

Orvold Juel V 244-4173

851 Art & Mike's Pl tavern

244-9884

**Packer av intersects**

910 Mayer Oscar & Co meats whol

244-1311

US Dept of Agrl Meat Insp Div

244-6776

Mayer Oscar & Co Credit Union

249-8030

## ROTH ST 1966

18

**ROTH ST—From 2700 Sherman av east**  
**Zip Code 53704**

**Crowley av begins (not open)**

1714 Pollock Auto Body Co 244-1726

1738 Baumann Francis X © 244-7732

Baumann's Paint Co contr

244-7732

Hopinkah Tom 249-2609

**Ruskin st begins**

1802 Weum Charleen 249-4388

Moyes Lawrence J 244-7861

**O'Neill av begins**

1910 Roth C E & P A Inc bldg matls

244-2461

**Huxley st begins**

2007 Stockman's Bar & Restr 244-6066

**CMStP&P crosses**

**City limits**

**Packers av intersects**

16



## ROTH ST 1966

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**ROTH ST—Contd****2248 Wirts James 244-7627****2249 Apartments****1 Aberle Kenneth F jr****2 Gericke Geo 249-1864****3 Green Edw****4 Nevills Boyce 249-3172****2250 Neusen Herman H © 244-3857****2253 Subola Peter S © contr 249-3217****Erickson Ervin**

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## COMMERCIAL AVE 1960

<p><b>Harvard dr intersects</b>            1009 Chard Chester @ ΔCE8-6164            1011 Bloss Truman G @ ΔCE3-4957            1015 Riemen Harry A @ ΔCE3-7654            1021 Johnson Edw M @ ΔCE3-9292            1025 Cain John W @ ΔCE3-4041  <b>Amherst begins</b>  <b>Yale rd ends</b></p>	<p><b>Scofield ends</b>  <b>Mayer av begins</b>            2301 Kyle's Cities Service gas sta            ΔCH9-6849            2309 Sam's Used Furn ΔCH4-6375            2315 Cracker Box Lunch Co pre-            pared lunches            ΔCH4-8123</p>
<p style="text-align: right;">17</p> <p><b>COLUMBIA RD W (Shorewood Hills)-</b>  <b>From 1200 University Bay dr west</b>  <b>to junction of Yale rd and Amherst</b>            2708 Combs Ova B @ ΔCE3-6389  <b>Wellesley intersects</b>            2800 Westing J Howard @ ΔCE3-8957            2803 Timlin Robt J @ ΔCE3-6288            2804 Jordan Scott B @ ΔCE3-5071  <b>Sweetbriar rd begins</b>            2809 Ekern Lily C Mrs @ ΔCE3-1521            2809½ Notari Helen S ΔCE8-1675            2816 Beale Georgia R Mrs @            ΔCE3-1181  <b>Dartmouth rd inter-</b>  <b>sects</b>            2902 Mossman Harlan W @            ΔCE3-1171            2905 Stanley Gladys J Mrs @            ΔCE3-4872            2909 Allhiser Norman C @            ΔCE3-8684            2910 Alexander Winfield V @            ΔCE3-6172            2913 Wilson Chas M @ ΔCE3-4884            2916 Steiro Harry ΔCE3-5211</p>	<p><b>North intersects</b>            2401 Donovan Sht Mtl Wks ΔCH4-5110            2409 Donovan John E @ ΔCH4-5110            2504 Hackbart Barber Shop            2510 Klongland Ella B Mrs @            ΔCH9-2063            2514 Wilson Guy E @ ΔCH9-5867            2518 Gosda Geo W @ ΔCH9-1926  <b>Maywood ends</b>            2522 Priestley Howard G @            ΔCH9-3621            2526 Kong Mabel Mrs ΔCH9-9375            2529 Laufenberg Casper T @            ΔCH9-3925            2530 Anderson Oscar @ ΔCH4-5952            2534 Rubin Marcella A Mrs @            ΔCH4-5952            2537 Jensen Morris A @            ΔCH4-2758            2538 Walsvick Lewie H @            ΔCH9-2217            Koenig Orville ΔCH9-3503            2541 Hackbart Wm F @ ΔCH4-5804            Herritz James E ΔCH4-7885            2542 Disch Henry E @ ΔCH9-4978            2545 Mellor Henry E @ ΔCH4-2781            2546 Wozar Jos J @</p>
<p style="text-align: right;">18</p> <p><b>COMMERCIAL AV-From 500 N</b>  <b>Sherman av east to city limits</b>            1713 Lakeland Live Bait ΔCH9-3300            Lakeland Agcy The insurance            ΔCH9-3300            Atcherson Lorraine M @            ΔCH9-3300            1714 Ryerson Jackson P ΔCH4-4532            1718 Spanish Village tavern            ΔCH4-6671  <b>Apartments:</b>            A Bailey Harold @ ΔCH9-3976            A1 Bradford Danl L            2 Tygum Arnold R            3 Bergin Sylvia Mrs ΔCH4-0960            4 Harris James R            5 Wolke Janice  <b>Street continued</b>            1719 Castagna Vincent @            ΔCH4-3814            McChesney Gordon ΔCH4-5870            1726 Dahl Stanley R ΔCH9-6989            1741 Plywood Madison Inc (br)            ΔCH9-9259  <b>Superior ends</b>  <b>C&amp;NW crosses</b>            1801 Acme Steel &amp; Sup Co ΔCH9-8525            1822 Trip-A-Lin Tavern ΔCH9-2077</p>	<p><b>Stang intersects</b>            2601 Viviani Angelo @ ΔCH4-6193            2602 Syverud Arvilla M Mrs @            ΔCH4-6544            2605 Peterson Richd R @            ΔCH9-3873            2606 Dice Robt E ΔCH9-2944            2609 Wichern Lottie Mrs @            ΔCH4-2946            2610 Martinez Connie Mrs @            ΔCH9-2389            2613 Schultz Mary L Mrs @            ΔCH4-4227            2614 Berkeypile Kenneth L @            ΔCH9-2336            2617 Goff Anna N Mrs @            ΔCH4-3163            2618 Lunde Mildred A Mrs @            ΔCH4-1188            2621 Schlichenmaier Eug B @            ΔCH4-4026            2622 Rice Addie W Mrs ΔCH9-4251            2625 France Frank F @ ΔCH4-5748            2626 Gorman Eug J @ ΔCH9-2557            2629 Angus Wm J @ ΔCH4-5300            2630 Laird Donald G            2633 Commercial Av Gro            ΔCH4-5514            2634 Wells Evelyn H Mrs @            ΔCH9-2306</p>
<p style="text-align: right;">16</p> <p><b>Pennsylvania av inter-</b>  <b>sects</b>  <b>Olive ends (not open)</b>  <b>Packers av begins</b>  <b>Vine ends (not open)</b>  <b>N 8th ends</b>  <b>Livonia ends</b>            2125 Vocational &amp; Adult Sch (auto-            motive dept) ΔCH4-3115</p>	<p><b>Kedzie intersects</b>            2701 Klevgard Ben S @ ΔCH4-8754            2702 Campbell Eva Mrs            2704 Powell Wallace D ΔCH4-4020            2705 Hilden Heizel G @ ΔCH4-8083            2709 Lacy Eleanor H Mrs            ΔCH4-1528            2710 Barghahn Emma M Mrs @            ΔCH4-6311</p>



## MAYER AVE 1960

163

801 Kvalvik Minnie Mrs ©

△CH9-4329

805 Inman Larry G △CH4-8873

809 Kraemer Delbert E © △CH9-2831

825 Stelter Albert H © △CH4-3902

835 Lind Hannah Mrs © △CH4-3043

Lloyd Robt E

837 Meichus Orvin rooming hse

△CH4-9891

839 Thingstad Edw A © △CH4-1731

843 Young Clarence E © △CH4-8670

849 Art &amp; Mike's Pl tavern

△CH4-9884

855 Vacant

**Packers av intersects**

910 Mayer Oscar &amp; Co meats whol

△CH4-1311

US Dept of Agri (meat insp div)

△CH4-1311

Mayer Oscar &amp; Co Credit Union

△CH9-8030

## ROTH ST 1960

16

**ROTH-From 2700 Sherman av east  
bey Packers av**

**Crowley av begins (not  
open)**

1714 Pollock Auto Body Co

△CH4-1726

Louie's Line Up Shop auto  
repr △CH9-9871

1738 Baumann Francis X ⊙

△CH4-7732

**Ruskin begins**

1802 Millette Roger △CH4-1738

**O'Neill av begins**

1910 Roth C E & P A Inc coal dlrs

△CH4-2461

**Huxley begins**

2007 Stockman's Bar tavern

△CH4-6066

2013 Garver's Back Haul Supplies

feeds △CH4-9243

**CMStP&P crosses**

**City limits**

**Packers av intersects**

2238 Bull Len Tavern △CH9-3367

2248 Stacher John △CH9-5631

2249 Christofferson Wayne △CH4-9018

Pence Dudley △CH4-3469

Buscher Robt L △CH4-1512

2250 Neusen Herman H ⊙ △CH4-3857

2253 Subola Peter S ⊙ carp

△CH9-3217

22



**APPENDIX M**

**Aerial Photographs**



**910 Mayer St**

910 Mayer St

Madison, WI 53704

Inquiry Number: 5995086.8

March 04, 2020

## The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)



# EDR Aerial Photo Decade Package

03/04/20

**Site Name:**

910 Mayer St  
910 Mayer St  
Madison, WI 53704  
EDR Inquiry # 5995086.8

**Client Name:**

Sigma Env. Services, Inc.  
1300 W. Canal Street  
Milwaukee, WI 53233  
Contact: Mairead Rauch



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

## Search Results:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2017	1"=500'	Flight Year: 2017	USDA/NAIP
2013	1"=500'	Flight Year: 2013	USDA/NAIP
2010	1"=500'	Flight Year: 2010	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
2000	1"=500'	Acquisition Date: May 16, 2000	USGS/DOQQ
1993	1"=500'	Flight Date: May 06, 1993	NAPP
1986	1"=500'	Flight Date: June 02, 1986	NHAP
1980	1"=500'	Flight Date: November 21, 1980	NHAP
1976	1"=500'	Flight Date: September 12, 1976	USDA
1968	1"=500'	Flight Date: May 08, 1968	ASCS
1962	1"=500'	Flight Date: September 07, 1962	ASCS
1955	1"=500'	Flight Date: September 05, 1955	CSS
1949	1"=500'	Flight Date: September 25, 1949	PMA
1937	1"=500'	Flight Date: July 05, 1937	USDA

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INQUIRY #: 5995086.8

YEAR: 2017

— = 500'







INQUIRY #: 5995086.8

YEAR: 2013

— = 500'







INQUIRY #: 5995086.8

YEAR: 2010

— = 500'







INQUIRY #: 5995086.8

YEAR: 2006

— = 500'







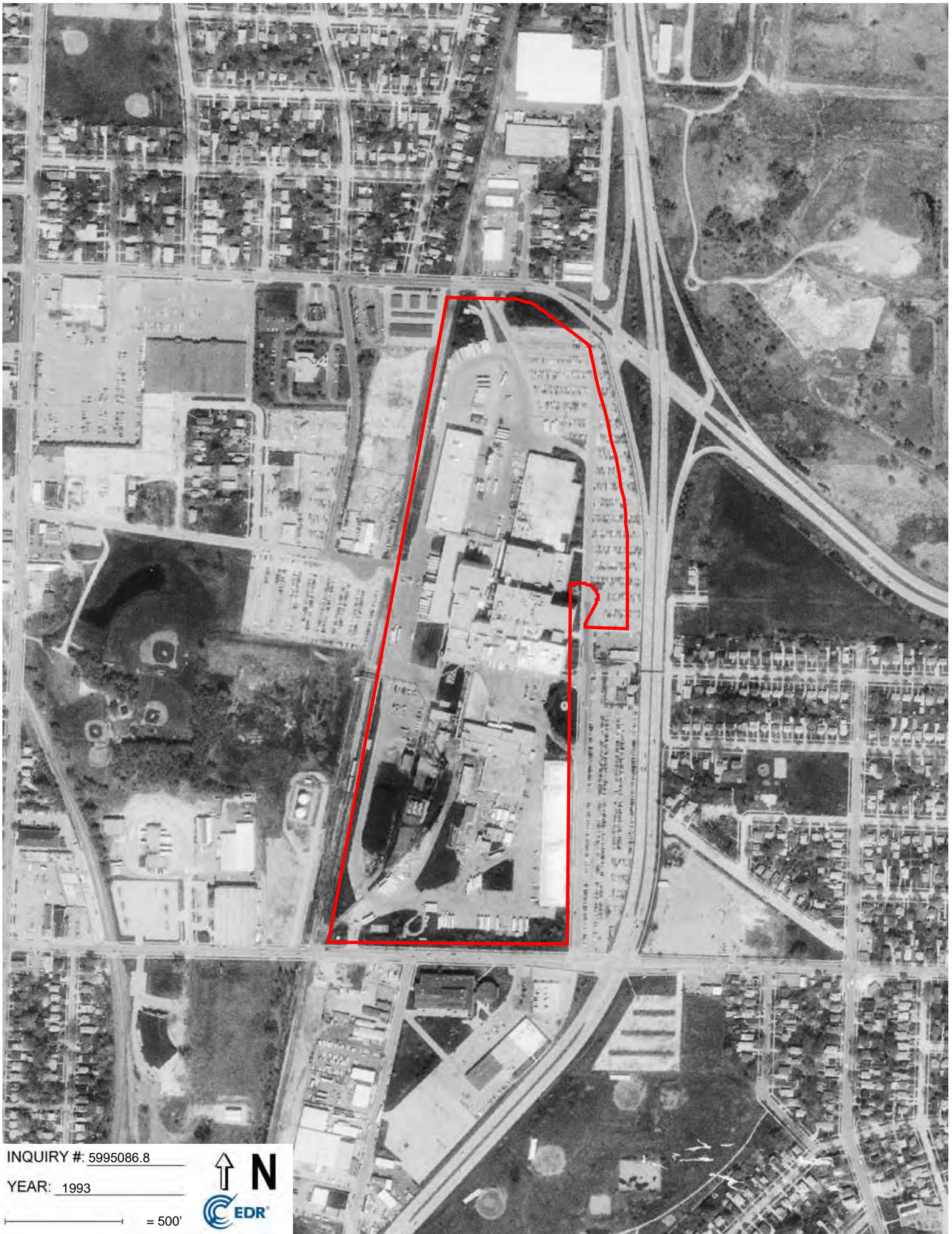
INQUIRY #: 5995086.8

YEAR: 2000

— = 500'







INQUIRY #: 5995086.8

YEAR: 1993

— = 500'







INQUIRY #: 5995086.8

YEAR: 1986

— = 500'







INQUIRY #: 5995086.8

YEAR: 1980

— = 500'







INQUIRY #: 5995086.8

YEAR: 1976

— = 500'







INQUIRY #: 5995086.8

YEAR: 1968

— = 500'







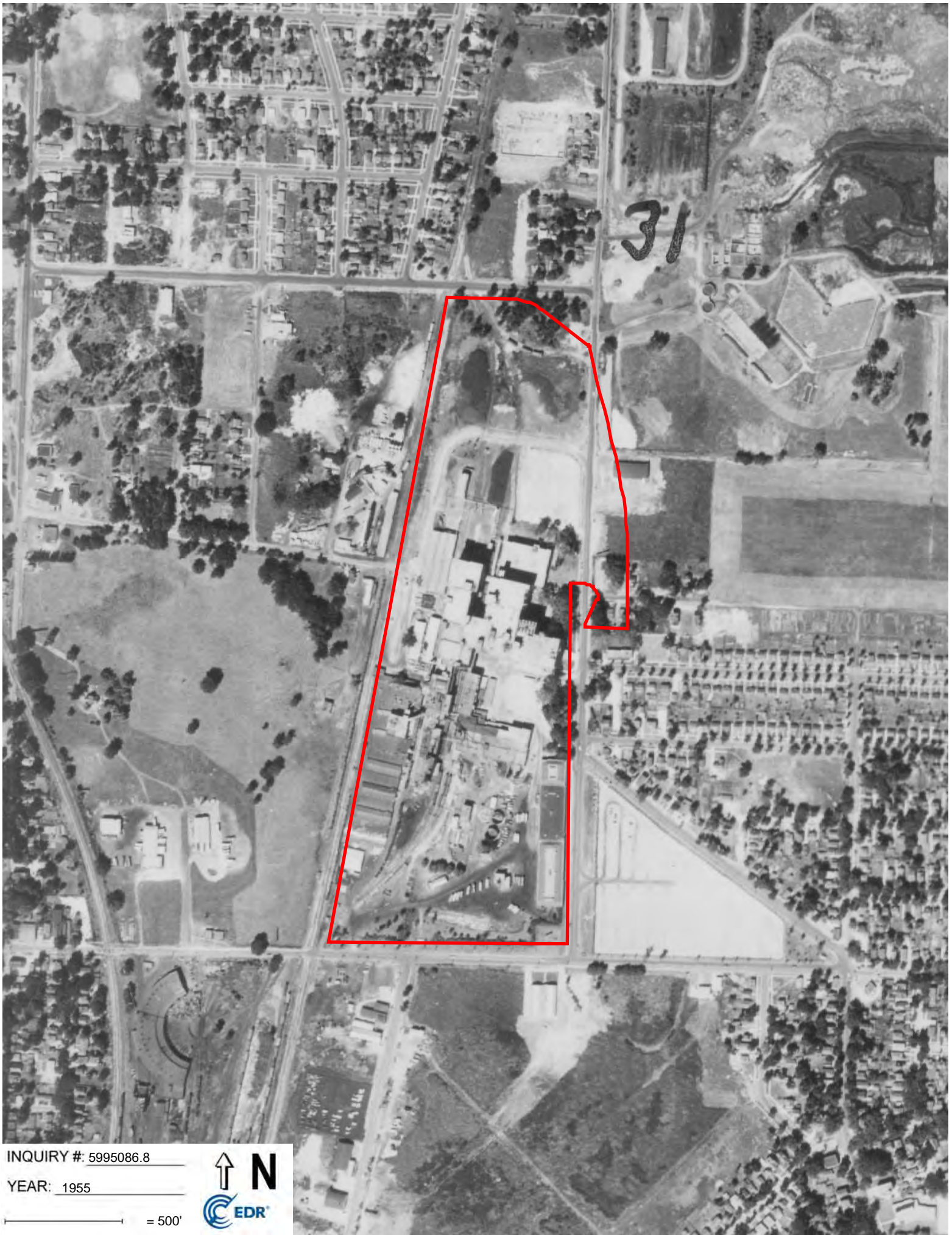
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YEAR: 1962

— = 500'







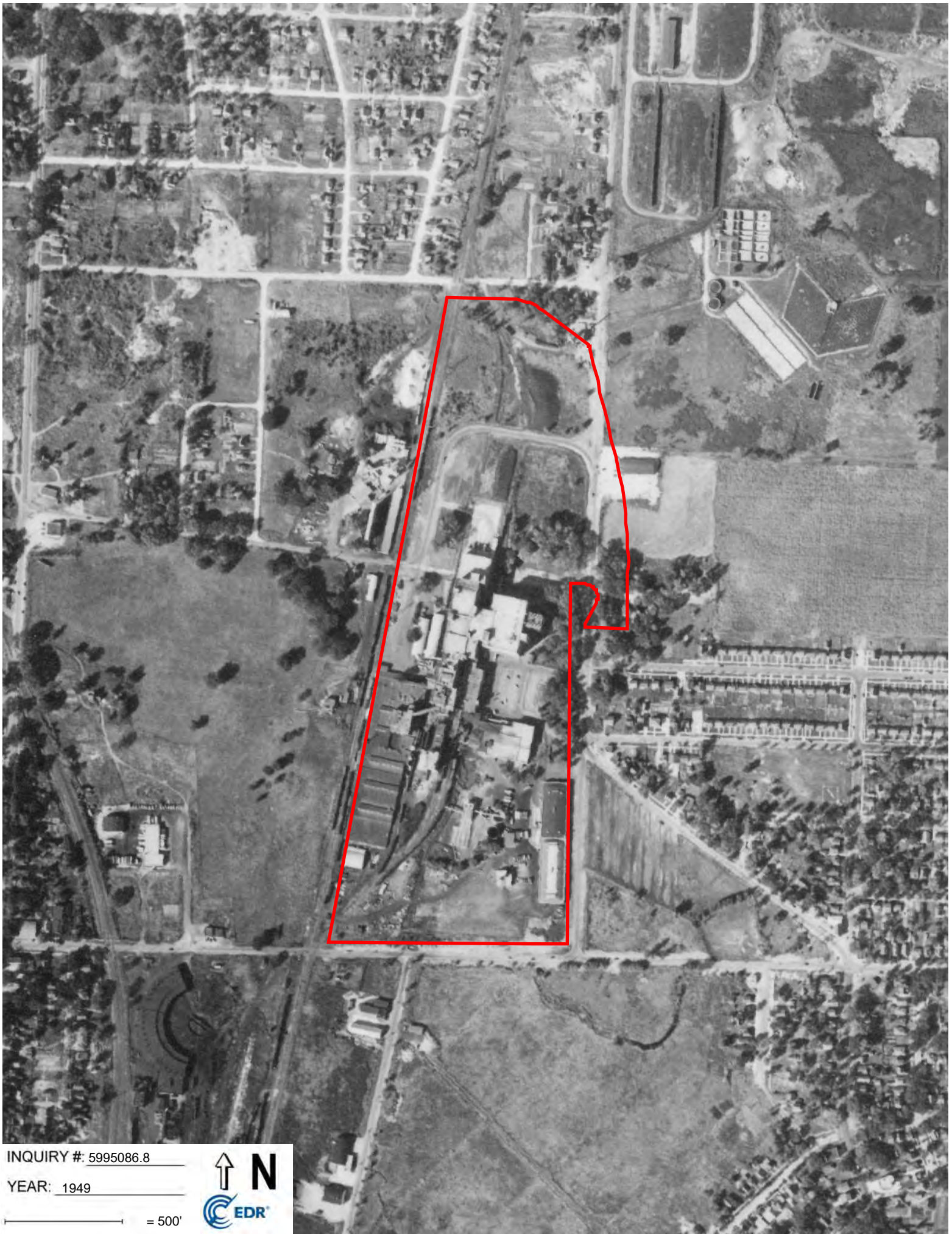
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YEAR: 1955

— = 500'







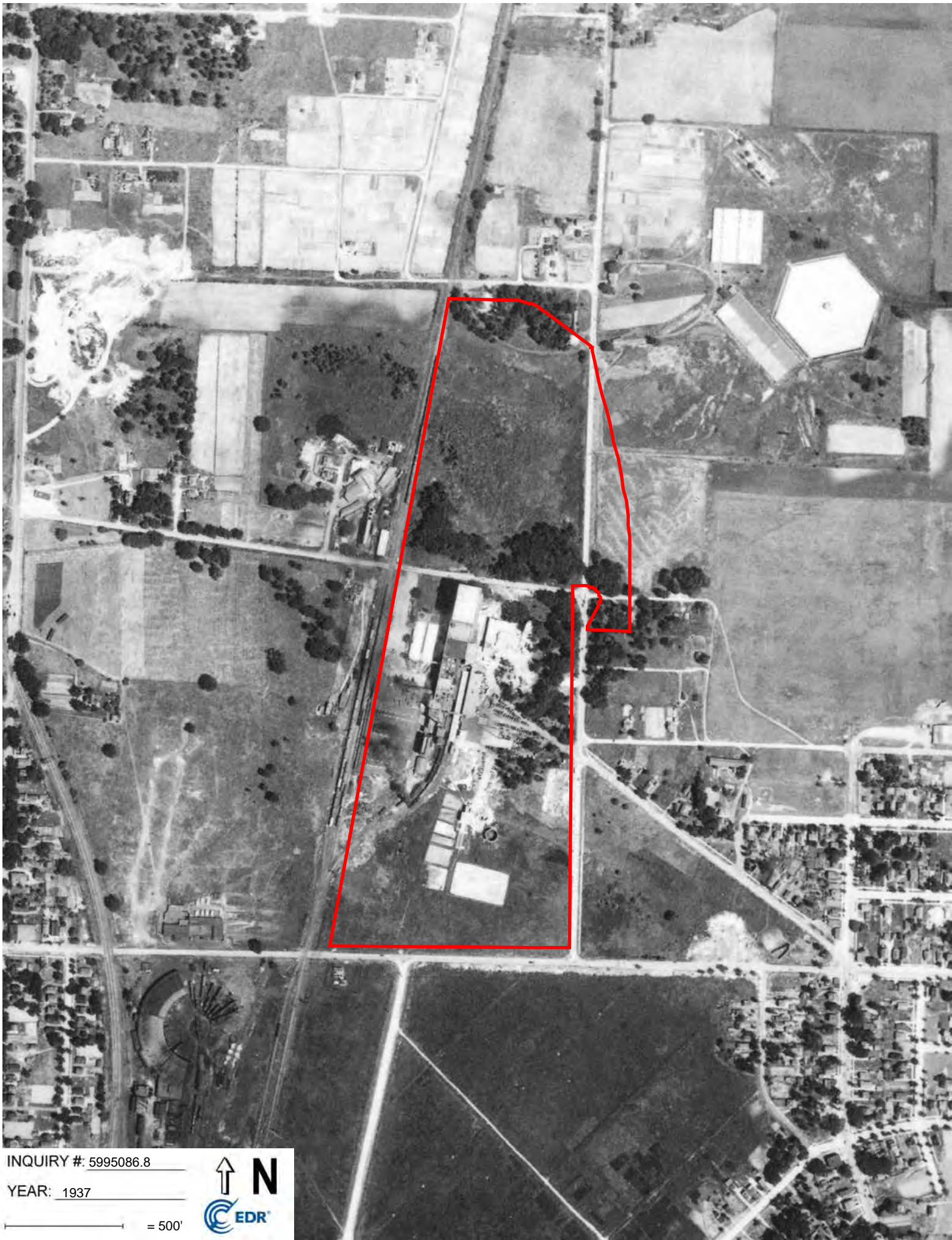
INQUIRY #: 5995086.8

YEAR: 1949

— = 500'







INQUIRY #: 5995086.8

YEAR: 1937

— = 500'



**APPENDIX N**

**Certified Sanborn Map Report**



910 Mayer St  
910 Mayer St  
Madison, WI 53704

Inquiry Number: 5995086.3

March 05, 2020

## Certified Sanborn® Map Report



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# Certified Sanborn® Map Report

03/05/20

**Site Name:**

910 Mayer St  
910 Mayer St  
Madison, WI 53704  
EDR Inquiry # 5995086.3

**Client Name:**

Sigma Env. Services, Inc.  
1300 W. Canal Street  
Milwaukee, WI 53233  
Contact: Mairead Rauch



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## Certified Sanborn Results:

**Certification #** 9456-466F-B86B  
**PO #** 910 Mayer St, Madison, WI  
**Project** 19174

**Maps Provided:**

1986  
1950  
1942



Sanborn® Library search results

Certification #: 9456-466F-B86B

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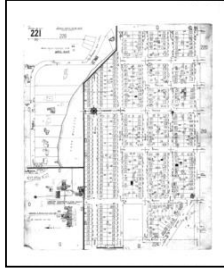


## Sanborn Sheet Key

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### 1986 Source Sheets



Volume 2, Sheet 221  
1986

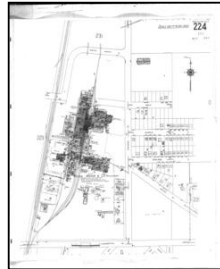


Volume 2, Sheet 224  
1986

### 1950 Source Sheets



Volume 1, Sheet 221  
1950

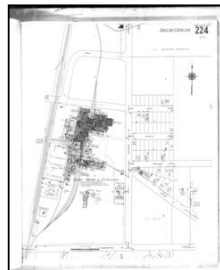


Volume 1, Sheet 224  
1950

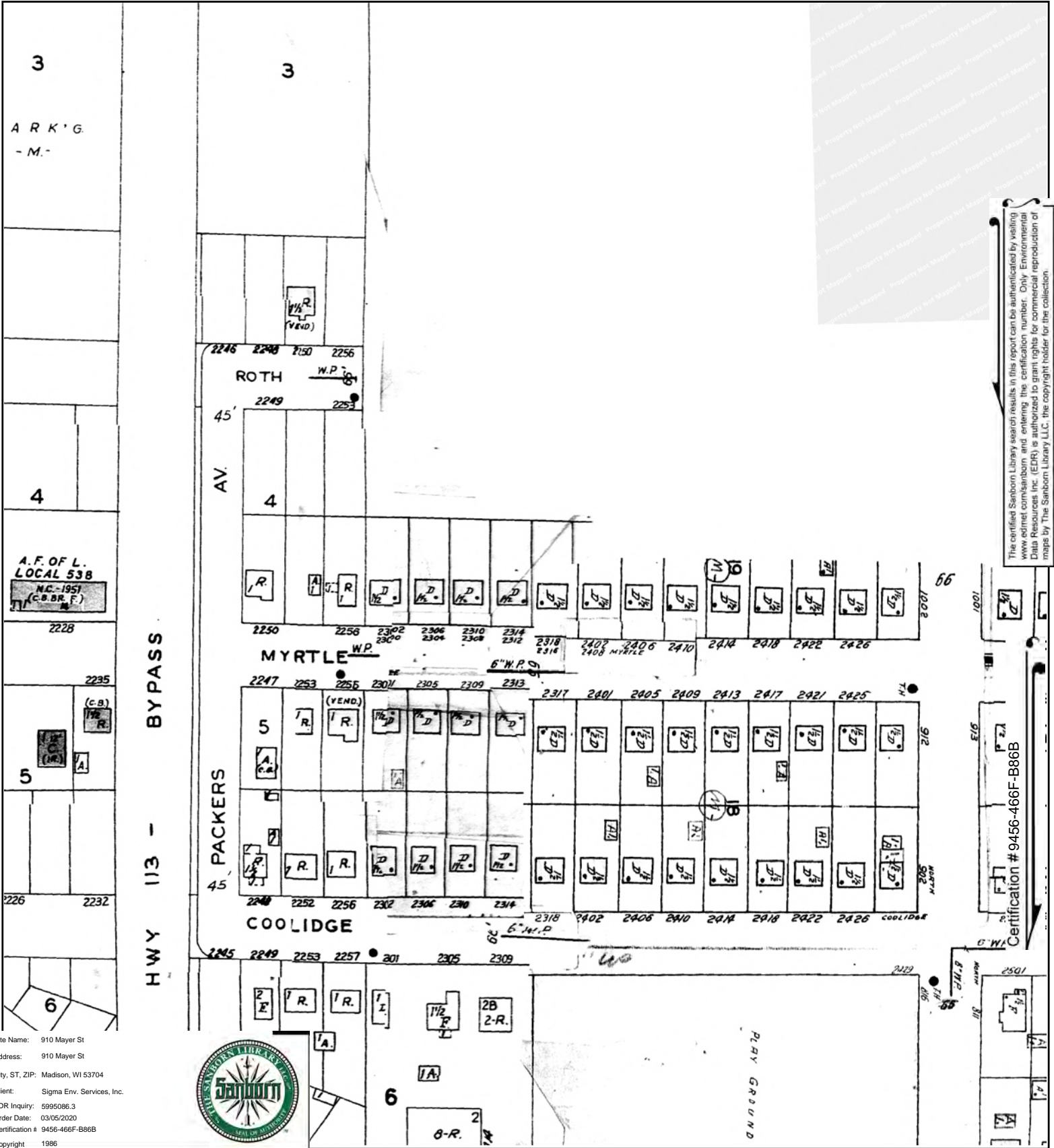
### 1942 Source Sheets



Volume 1, Sheet 221  
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Volume 1, Sheet 224  
1942



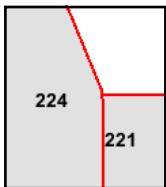
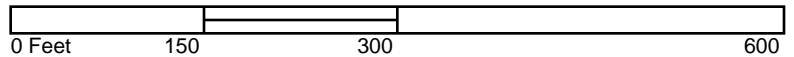
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 Address: 910 Mayer St  
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 Client: Sigma Env. Services, Inc.  
 EDR Inquiry: 5995086.3  
 Order Date: 03/05/2020  
 Certification #: 9456-466F-B86B  
 Copyright: 1986



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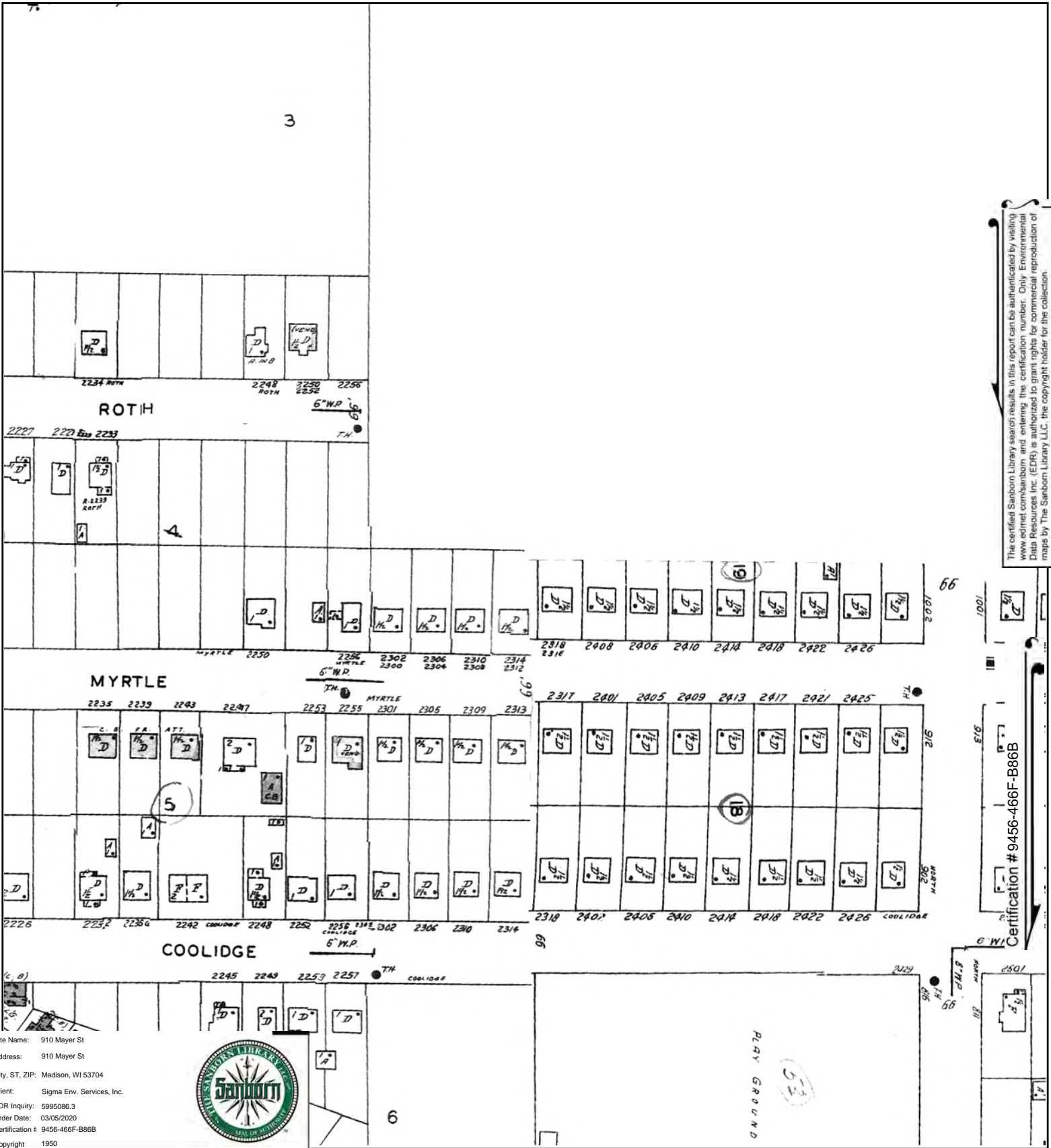
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 Outlined areas indicate map sheets within the collection.



Volume 2, Sheet 224  
 Volume 2, Sheet 221







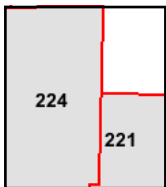
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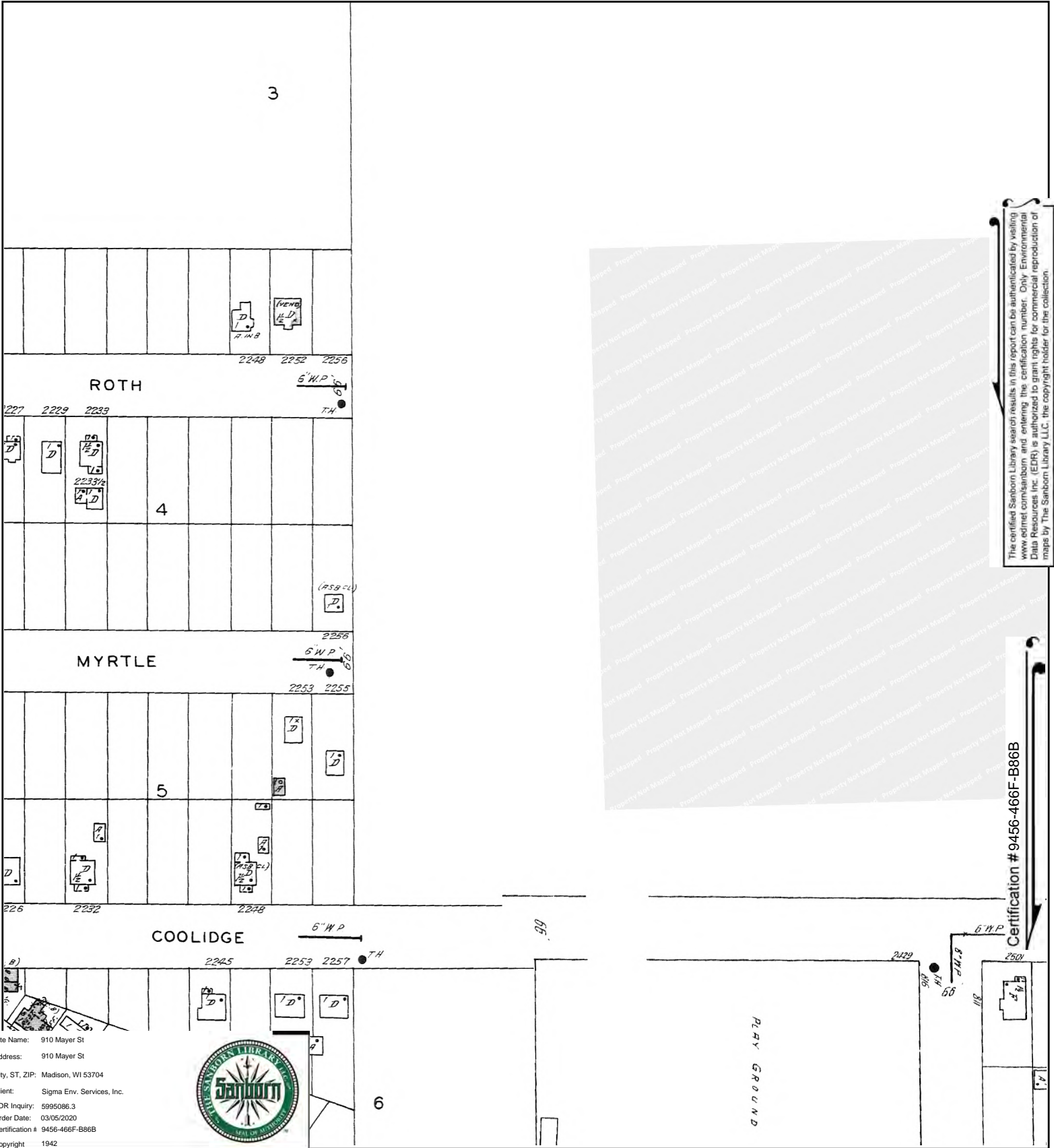
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 EDR Inquiry: 5995086.3  
 Order Date: 03/05/2020  
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Volume 1, Sheet 224  
 Volume 1, Sheet 221



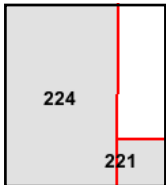
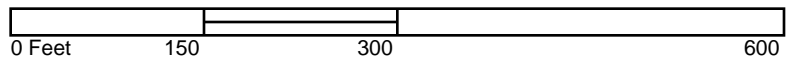
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 City, ST, ZIP: Madison, WI 53704  
 Client: Sigma Env. Services, Inc.  
 EDR Inquiry: 5995086.3  
 Order Date: 03/05/2020  
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Volume 1, Sheet 224  
 Volume 1, Sheet 221





910 Mayer St  
910 Mayer St  
Madison, WI 53704

Inquiry Number: 5995086.3

March 05, 2020

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03/05/20

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EDR Inquiry # 5995086.3

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**Certification #** 9456-466F-B86B  
**PO #** 910 Mayer St, Madison, WI  
**Project** 19174

**Maps Provided:**

1986  
1950  
1942



Sanborn® Library search results

Certification #: 9456-466F-B86B

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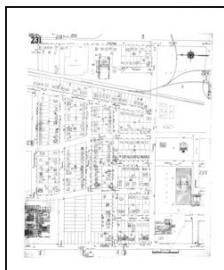


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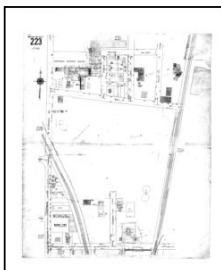
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### 1986 Source Sheets

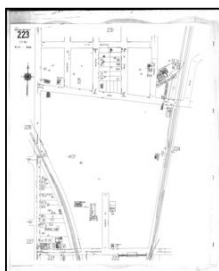


Volume 2, Sheet 231  
1986



Volume 2, Sheet 223  
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Volume 1, Sheet 223  
1950



Volume 1, Sheet 231  
1950

### 1942 Source Sheets



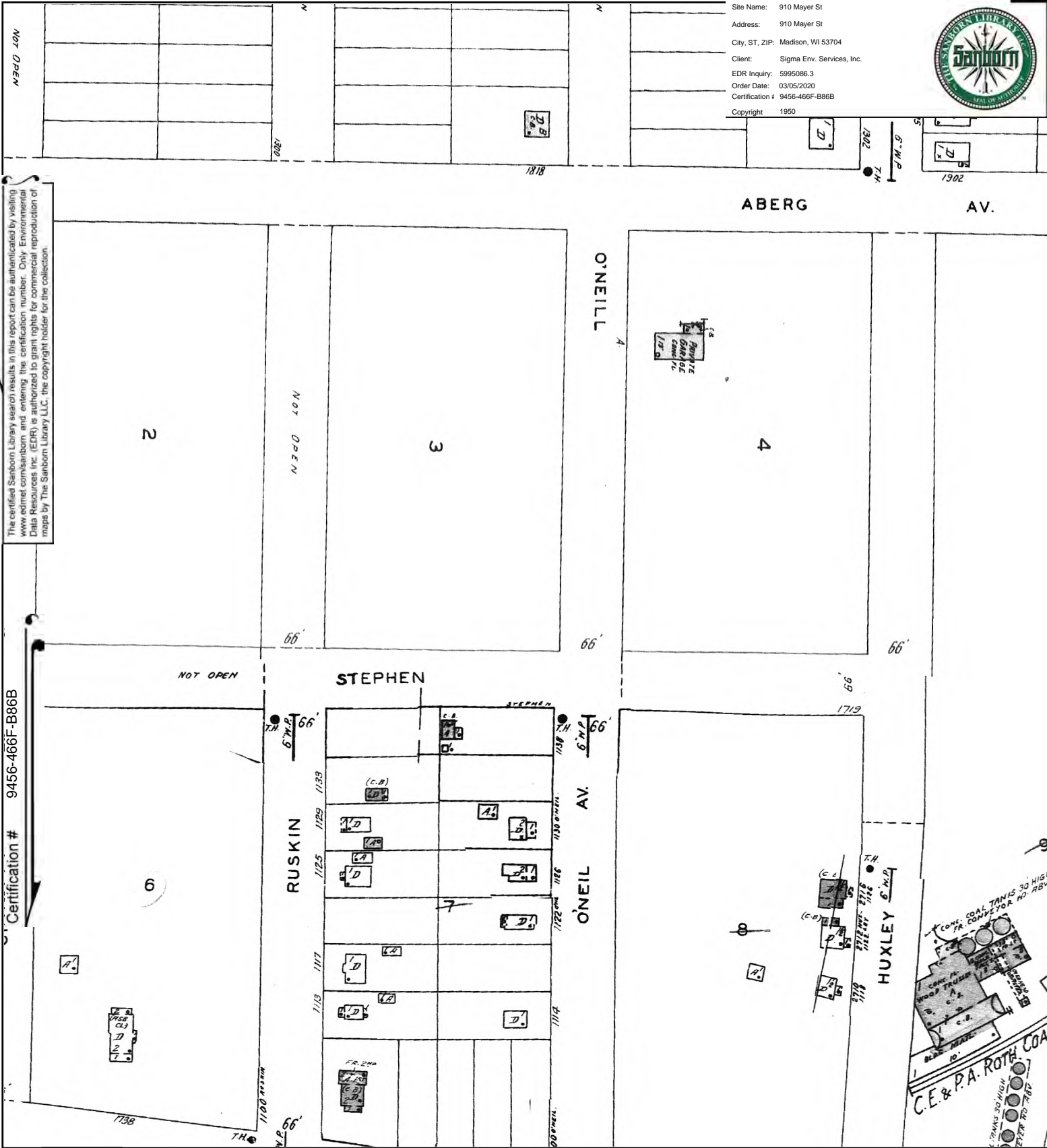
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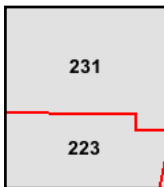
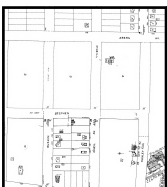
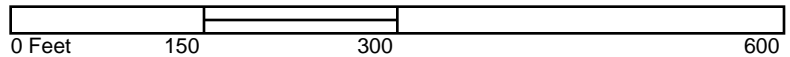
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 City, ST, ZIP: Madison, WI 53704  
 Client: Sigma Env. Services, Inc.  
 EDR Inquiry: 5995086.3  
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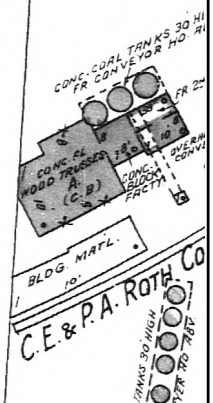
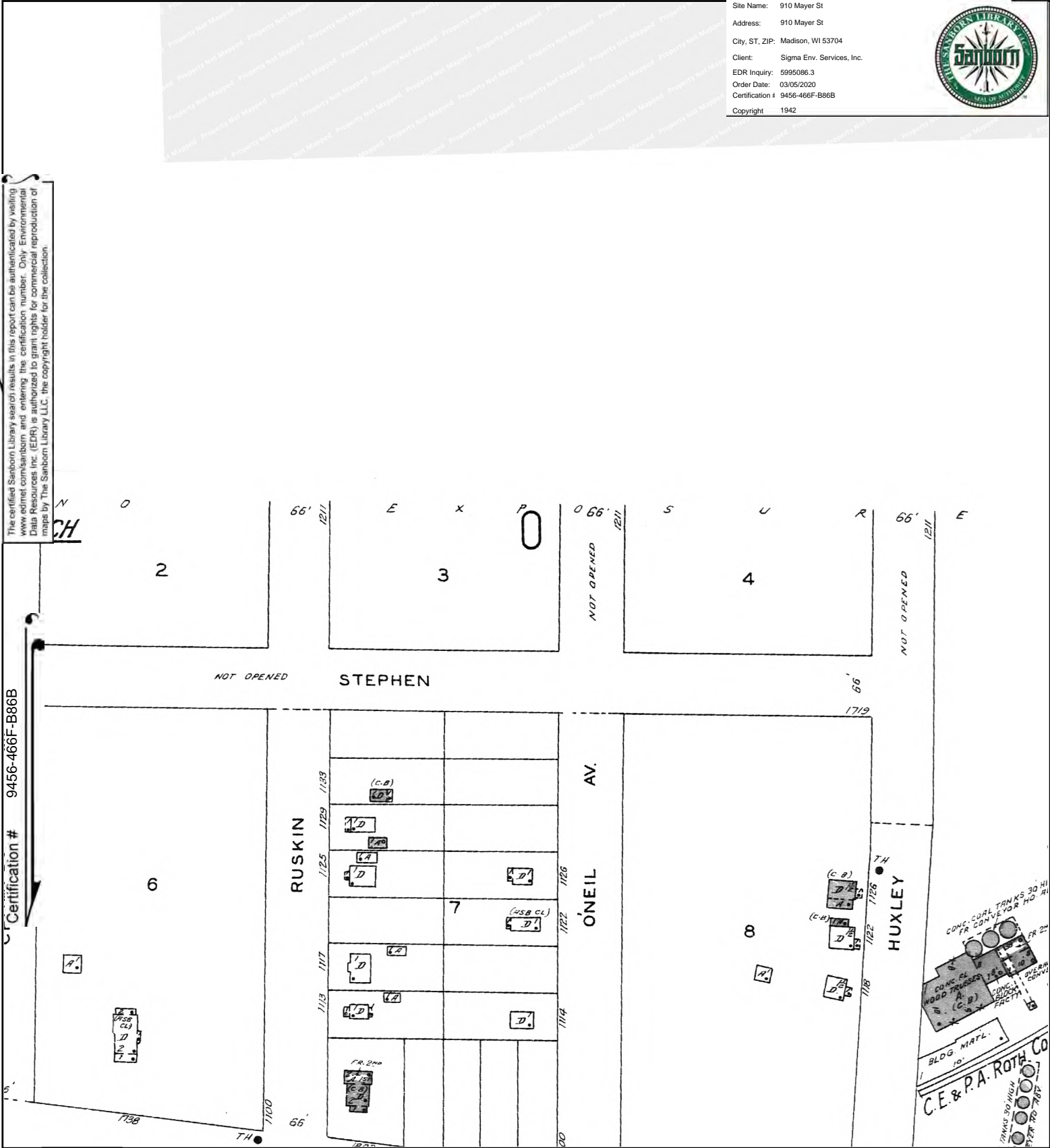
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 Volume 1, Sheet 223



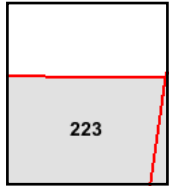
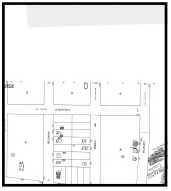
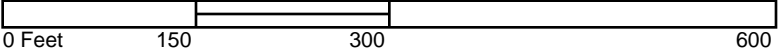
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910 Mayer St  
910 Mayer St  
Madison, WI 53704

Inquiry Number: 5995086.3

March 05, 2020

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**Certification #** 9456-466F-B86B  
**PO #** 910 Mayer St, Madison, WI  
**Project** 19174

**Maps Provided:**

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Sanborn® Library search results

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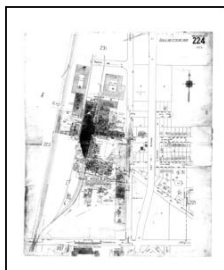


## Sanborn Sheet Key

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### 1986 Source Sheets



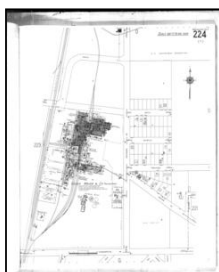
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1986

### 1950 Source Sheets



Volume 1, Sheet 224  
1950

### 1942 Source Sheets



Volume 1, Sheet 224  
1942

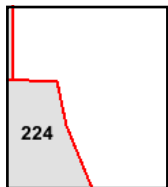
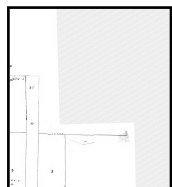
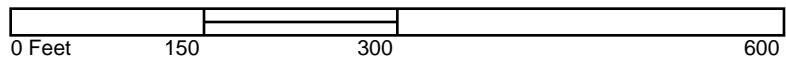
Site Name: 910 Mayer St  
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Client: Sigma Env. Services, Inc.  
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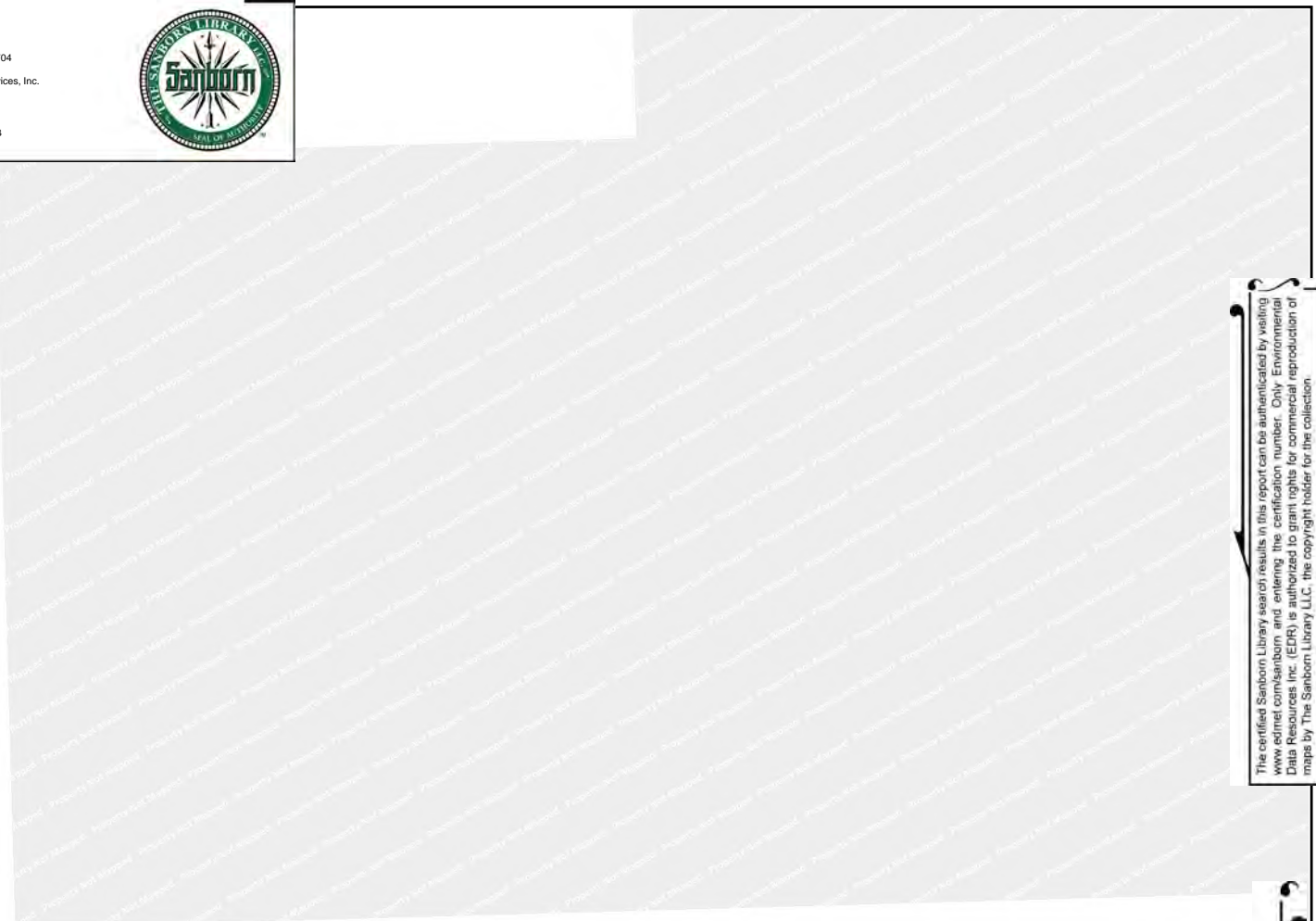


Volume 2, Sheet 224



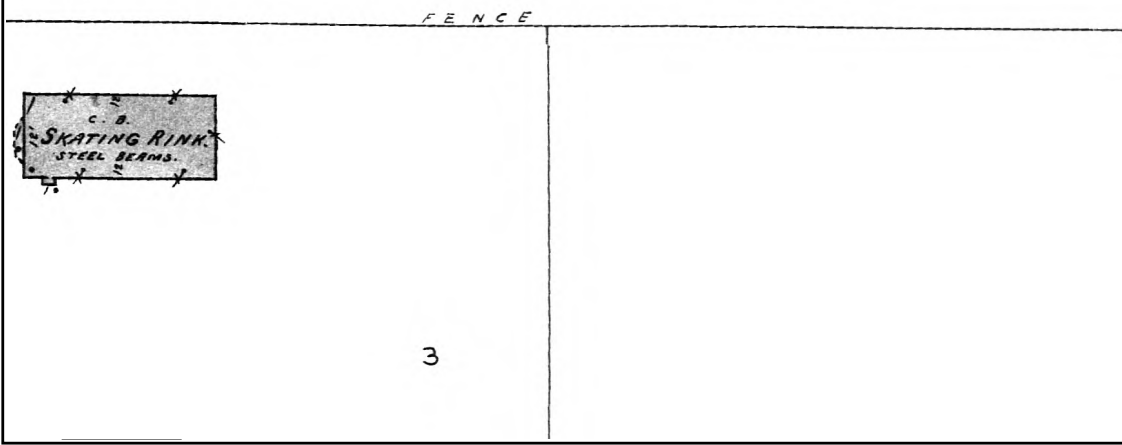


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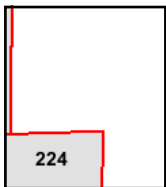
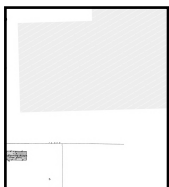
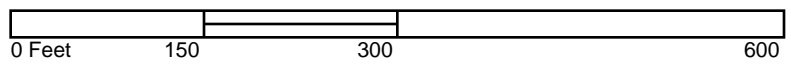


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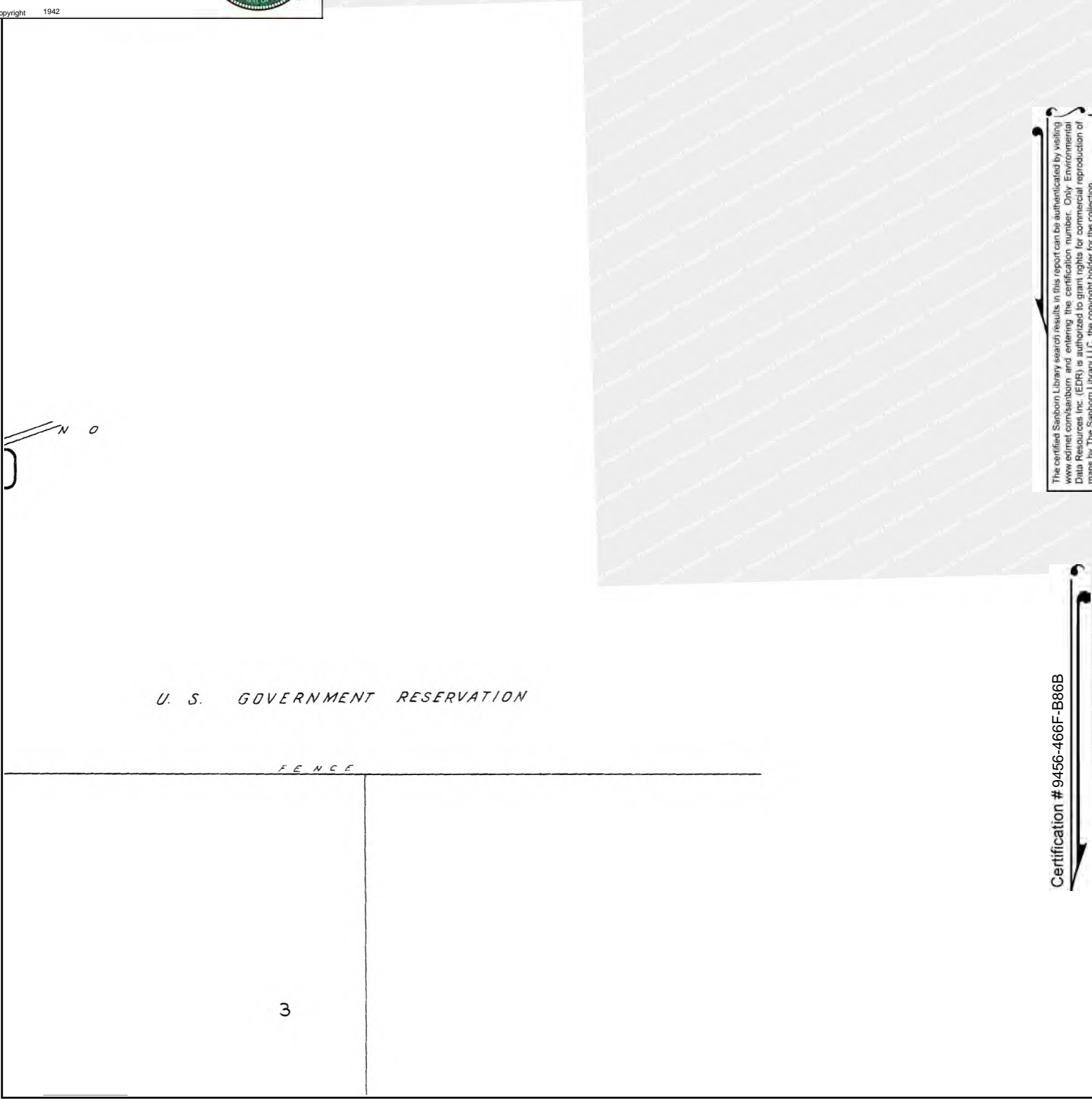
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Volume 1, Sheet 224



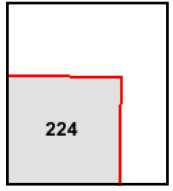
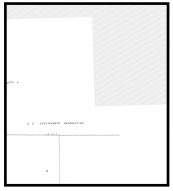
Site Name: 910 Mayer St  
 Address: 910 Mayer St  
 City, ST, ZIP: Madison, WI 53704  
 Client: Sigma Env. Services, Inc.  
 EDR Inquiry: 5995086.3  
 Order Date: 03/05/2020  
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Inquiry Number: 5995086.3

March 05, 2020

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03/05/20

**Site Name:**

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910 Mayer St  
Madison, WI 53704  
EDR Inquiry # 5995086.3

**Client Name:**

Sigma Env. Services, Inc.  
1300 W. Canal Street  
Milwaukee, WI 53233  
Contact: Mairead Rauch



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**PO #** 910 Mayer St, Madison, WI  
**Project** 19174

**Maps Provided:**

1986  
1950  
1942



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Volume 2, Sheet 231  
1986

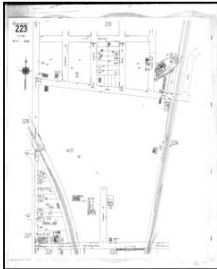


Volume 2, Sheet 223  
1986



Volume 2, Sheet 224  
1986

### 1950 Source Sheets



Volume 1, Sheet 223  
1950



Volume 1, Sheet 224  
1950



Volume 1, Sheet 231  
1950

### 1942 Source Sheets

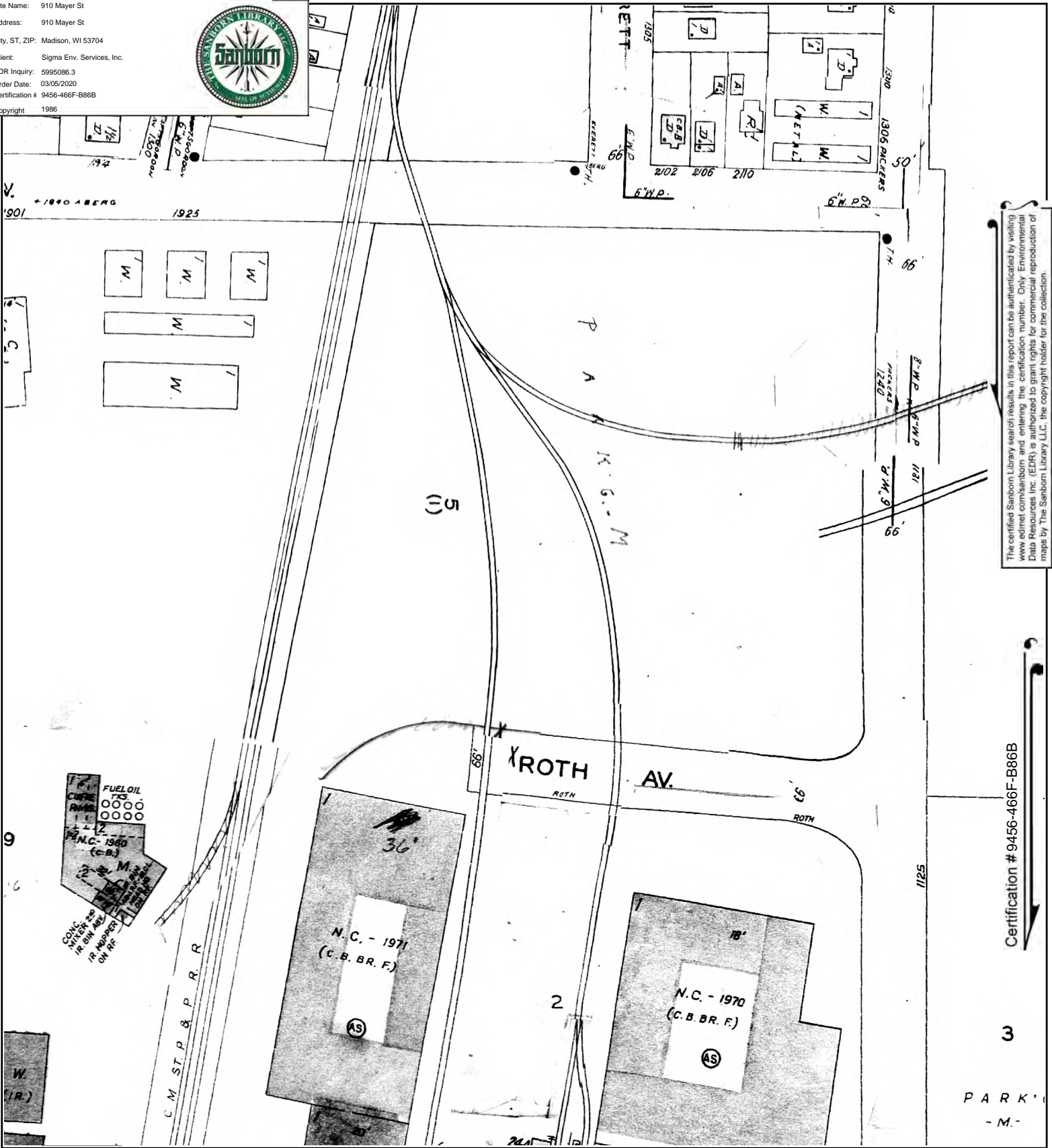


Volume 1, Sheet 223  
1942



Volume 1, Sheet 224  
1942

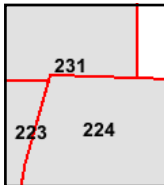
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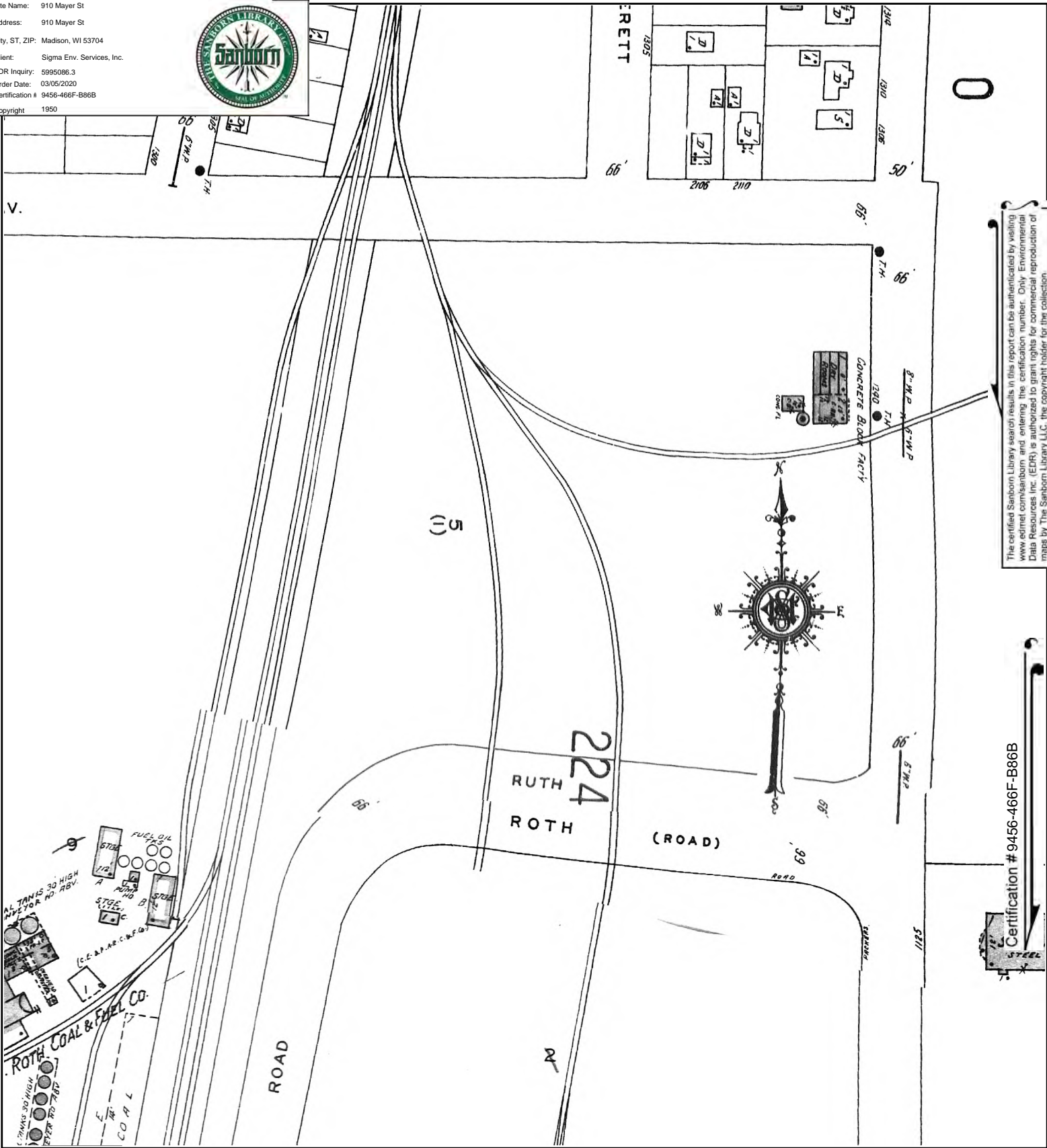


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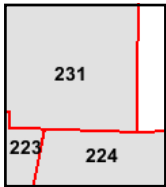
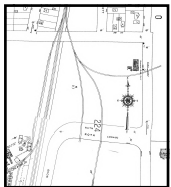
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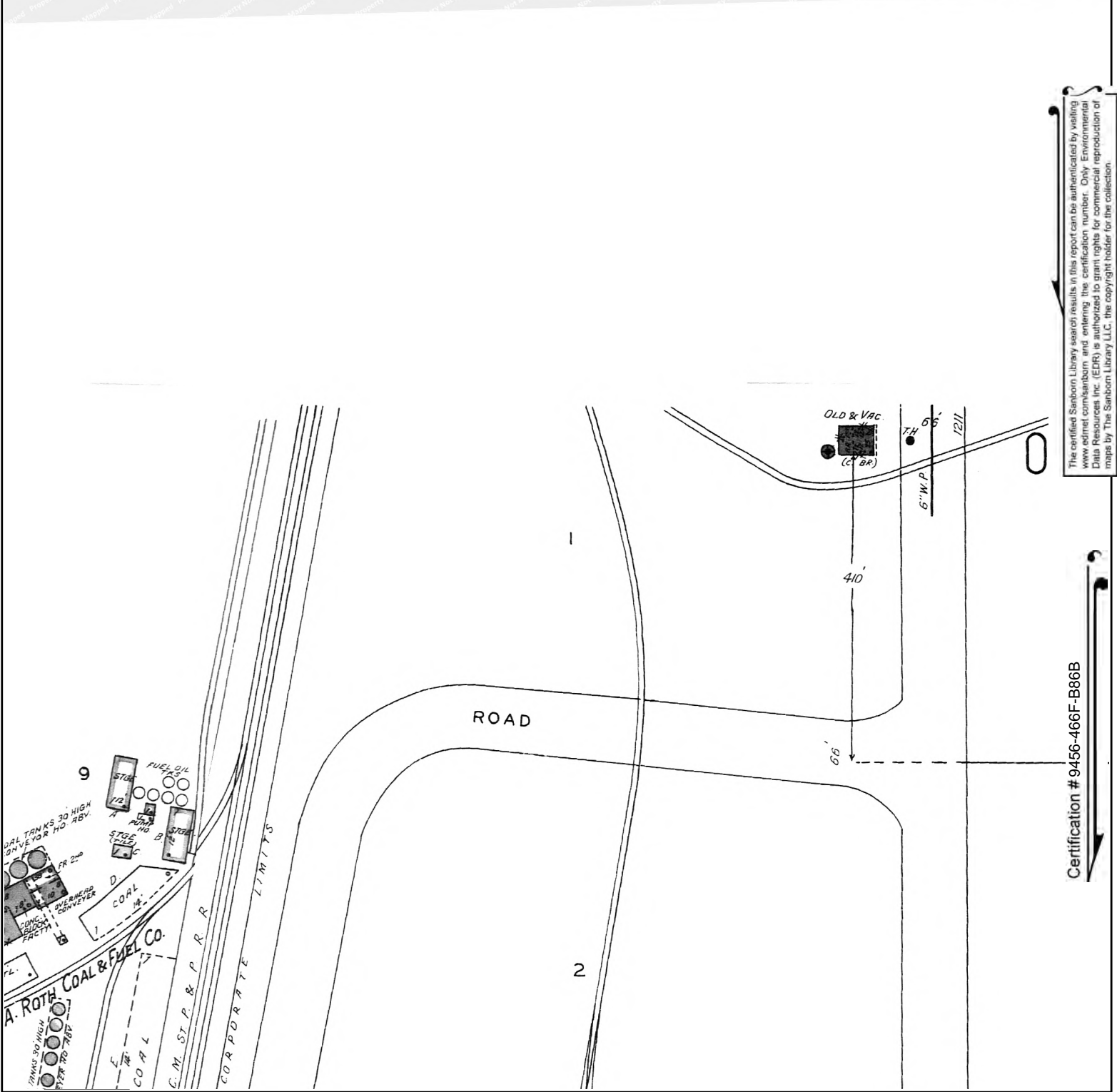
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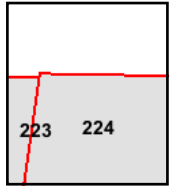
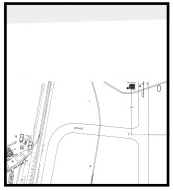
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Inquiry Number: 5995086.3

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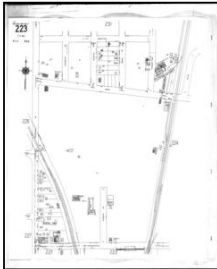


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1986



Volume 2, Sheet 224  
1986

### 1950 Source Sheets



Volume 1, Sheet 223  
1950

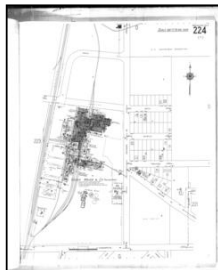


Volume 1, Sheet 224  
1950

### 1942 Source Sheets



Volume 1, Sheet 223  
1942



Volume 1, Sheet 224  
1942

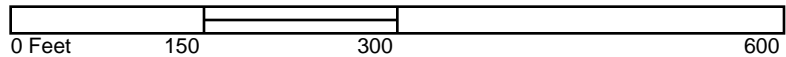


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 Client: Sigma Env. Services, Inc.  
 EDR Inquiry: 5995086.3  
 Order Date: 03/05/2020  
 Certification #: 9456-466F-B86B  
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**OSCAR MAYER & CO. PACKING PLANT**  
 WATERMAN WITH CLOCK HEAT-STEAM.  
 POWER: ELEC. (I.E.P. & OUTSIDE) CITY  
 WATER: S.D.H.B. & 1200' 2 1/2" HOSE ONE STEAM  
 FAIRBANKS-MORSE FIRE PUMP CAPX 200 GPM.  
 CHEM. EXTRACT

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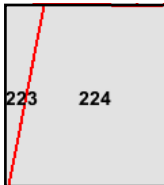
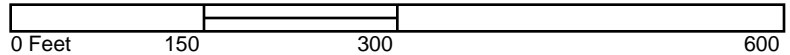
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**OSCAR MAYER & CO. PACKING PLANT**  
 WATCHMAN WITH CLOCK HEAT STEAM.  
 POWER: ELEC (1 E P & OUTSIDE) CITY  
 WATER: 5 D.H.S. & 1200' 2 1/2\"/>

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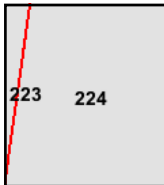
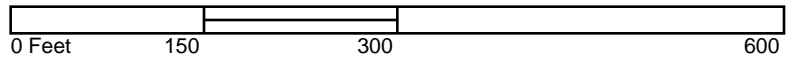
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**OSCAR MAYER & CO. PACKING PLANT**

WATCHMAN WITH CLOCK HEAT-STEAM.  
 POWER: ELEC. (I.E.P. & OUTSIDE) CITY  
 WATER: 6" D.H. & 1200 2 1/2 HOSE. ONE STEAM  
 FAIRBANKS-MORSE FIRE PUMP CAPCY 750 G.P.M.

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**APPENDIX O**

**Site Photographs**



Photo 1: View of the subject property building from the north. Building 50 is on the left and Building 43 is on the right.



Photo 2: View of building 43 from the southwest.





Photo 3: View of the Brine Building from the southeast.



Photo 4: View of the Wellhouse from the south.



Photo 5: View of the former storage yard between Building 43 and Building 50, from the northwest.



Photo 6: View of the debris and soil pile from the west.





Photo 7: View of the emergency generator form the east.



Photo 8: View of the former weld shop in Building 43.



Photo 9: View of the dust collection area in Building 43. The sump pump is in the center-left section of the photograph.

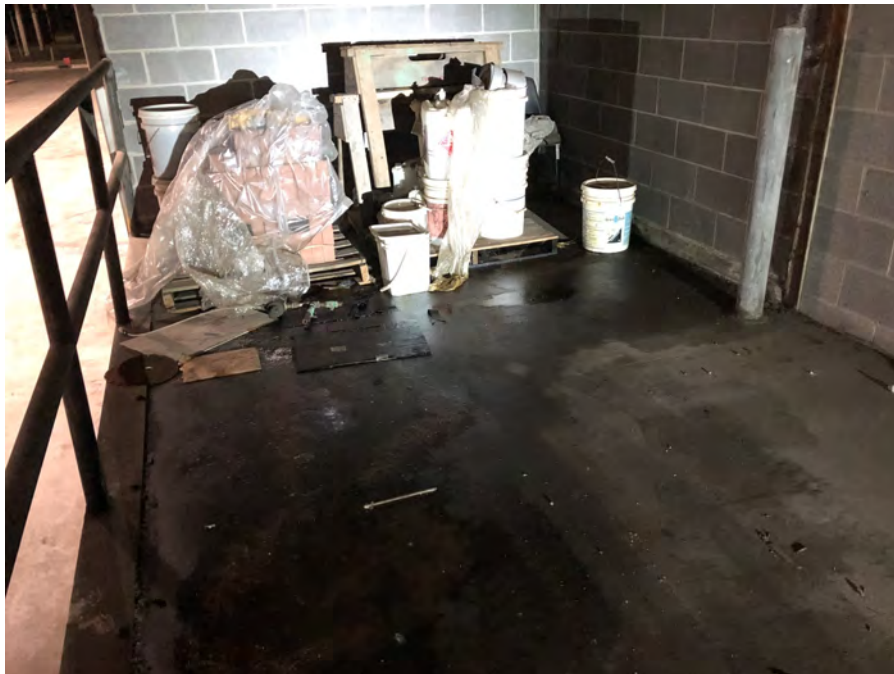


Photo 10: View of the container staging area in Building 50.





Photo 11: View of the former mezzanine in Building 50.

**APPENDIX P**

**Resumes of Project Team**



## Professional Profile

Mairead is a Staff Engineer providing civil and environmental engineering services for a variety of commercial, industrial and municipal clients. Her experience includes Phase 1 Environmental Site Assessment, environmental impact assessment, and environmental compliance.

### Areas of Expertise

- Phase 1 Environmental Site Assessment
- Historic Records Screening
- Environmental Impact Assessment
- Indoor Air Quality Monitoring
- Environmental Compliance

### Education / Training

- B.S. Environmental Resources and Forest Engineering, Minor in Urban Environmental Science – SUNY College of Environmental Science and Forestry, May 2013
- M.S. Civil Engineering, Environmental Engineering specialty – Marquette University, December 2017

### Registrations / Certification

- Engineer-in-Training
- OSHA 40-Hour Health & Safety Training

### Professional Affiliations

- Central States Water Environment Association

## Representative Experience

### Phase I Environmental Site Assessment

Conducts Phase I Environmental Site Assessments in accordance with the ASTM standard. Mairead has reviewed historical records and environmental database information and evaluated likely environmental conditions for more than 50 sites for industrial and commercial clients, as well as Wisconsin State agencies. Assessment locations include current and former industrial plants, college and medical campuses, and fill sites located near harbors and estuaries along Lake Michigan. Representative sites include:

- Lakeland University Campus, Plymouth, WI: Lakeland University's main campus consists of 29 university buildings spread across a 100-acre site. The entire campus was evaluated, including drinking water and wastewater treatment facilities and vehicle maintenance buildings.
- Milwaukee Regional Medical Center, Wauwatosa, WI: The MRMC campus contains hospitals and support facilities for six healthcare institutions, with development dating back to 1852. Historically, these institutions leased land from Milwaukee County. As they navigate land purchase agreements, Mairead has provided Phase I ESA services for sites within the campus.

### Historical Records Screening – Historical Records Research and Fieldwork

As part of the restoration efforts in the St. Louis River Area of Concern, the WDNR commissioned Sigma to prepare a series of historical records screening reports to identify parcels which may have contributed to sediment contamination in St. Louis and Superior Bays in Superior, WI. The reports documented the development of a roughly two square mile area comprising over 200 parcels along the heavily industrialized bayfront. Each report detailed major industries, shoreline filling sequences and environmental response activities for a subsection of the overall task area, covering the period from 1883 through the present day, with a site summary for each identified potential source site. Project tasks included:

- Reviewing primary source documents available through the City of Superior, Lake Superior Maritime Collection, Superior Public Library Area Research Center, and other archives to develop a cohesive narrative of industrial activities within Superior.
- Screening state and federal environmental records, including documents from 50 remediation sites.
- Identifying pathways for contaminants to reach St. Louis and Superior Bays.

### Environmental Impact Assessment

Assesses potential impacts of proposed projects under the Wisconsin Environmental Policy Act and the National Environmental Policy Act. Mairead identifies potentially impacted parties, gathers relevant data from state and local agencies, and provides evaluations of impacts in concise reports. Representative sites include:

- Lakeland University Campus, Plymouth, WI: Lakeland University sought USDA assistance to expand its campus. Mairead prepared an environmental assessment for the project in compliance with USDA and NEPA requirements.
- UW-Eau Claire Campus, Eau Claire, WI: The UW-System plans to construct a new welcome center for the UW-Eau Claire Campus. Mairead prepared an environmental assessment for the project in compliance with WEPA and UW-System requirements.

## Professional Profile

Adam is a Senior Engineer responsible for managing all aspects of environmental brownfield redevelopment projects: designing and implementing subsurface investigations; interpreting soil, groundwater, and soil vapor data; designing and implementing remediation strategies; performing computer analyses; and completing reports for clients and regulatory agencies. He has over 21 years of experience as a geological engineer.

### Areas of Expertise

- Soil/Groundwater / Vapor Investigations & Remediation
- Brownfield Redevelopment
- Voluntary Party Liability Exemption (VPLE) Program
- Methane / Vapor Intrusion Evaluation & Mitigation

### Education / Training

- B.S. in Geological Engineering, University of Wisconsin-Madison, 1997
- B.S. in Geology, University of Wisconsin-Madison, 1997
- "The Remediation Course" by Princeton Groundwater, Inc., October 2005
- OSHA 40-Hour Health & Safety Training

### Registrations / Certification

- Professional Engineer, Wisconsin No. E-35739
- Professional Engineer, Illinois No. 062-058177
- Professional Geologist / Hydrogeologist, WI 1369-13

### Presentations

- Sheboygan South Pier Redevelopment Project, presented at Wisconsin Ground Water Association annual meeting, February 2007
- Case Study: Sheboygan South Pier Redevelopment Project, presented at Brownfields 2006 National Conference, November 2006

## Representative Experience

### Freshwater Plaza Mixed-Use Redevelopment, Milwaukee

Project Manager for all aspects of environmental work, including Phase I ESAs, site investigation, remedial action planning and implementation, and WDNR reporting and communications. This multi-phased redevelopment project on approximately 7.7 acres of formerly industrial property is approximately 65% complete with a Cermak grocery store, mixed-use building (retail and apartments), and an outlot retail store. When complete, the development will represent an approximately \$50 million of investment into this former industrial neighborhood on the near southside of Milwaukee. Sigma has worked closely with the WDNR throughout the investigation and remediation activities to gain regulatory approvals towards securing case closures for multiple WDNR case files.

### Stitchweld Apartments / Vim and Vigor Apartments, Milwaukee

Project Manager for all aspects of environmental work, including Phase I ESAs, site investigation, remedial action planning and implementation, and WDNR reporting and communications for both of these projects. The Stitchweld project involved the redevelopment of an approximately 6-acre industrial property in the Bayview neighborhood into a \$40 million apartment complex with approximately 300 units. Environmental remediation work (source area excavations, NR 718 soil management, vapor mitigation, and engineered barriers) was dovetailed with the site redevelopment between 2016 and 2018, and WDNR closure is expected in 2019. The Vim and Vigor project involves the redevelopment of two parcels (approximately 0.75 acres and 2.5 acres) in the former Pabst Brewery complex into \$40 million apartment/mixed-use buildings with approximately 275 units. Site investigation work is complete and remediation work (source area excavations, NR 718 soil management, vapor mitigation, groundwater monitoring, and engineered barriers) was conducted jointly with the site construction throughout 2017 and 2018; WDNR case closure is expected in 2019.

### 30th Street Industrial Corridor, Milwaukee

Project Manager for over a dozen Phase I ESAs and Phase II ESAs/site investigations at multiple parcels along N. 31<sup>st</sup> Street between W. Galena Street and W. Walnut Street. Site investigations involved use of magnetometer surveys to search for underground storage tanks, installation of soil borings and monitoring wells, and analysis of soil and groundwater samples. Soil and groundwater samples were evaluated on a site-by-site basis; data were also used to evaluate neighborhood from an "area-wide" perspective to best determine geologic conditions, site investigation/remedial strategies, and potential risks. At one parcel, active remediation via organic substrate infiltration was conducted in 2011 and 2012 to reduce the chlorinated solvent mass through anaerobic biodegradation, and post-remediation groundwater sampling is on-going to document natural attenuation. In late 2018, managed the redevelopment of 4 other parcels as a community playground/park, which included on-site NR 718 soil management and capping the site with engineered barriers. Close involvement with WDNR and City stakeholders (RACM and MKE Plays [part of Department of Public Works]) is on-going.



**Ivy on Fourteenth / Varsity Quarters Student Housing, Milwaukee / Madison**

Project Manager for all aspects of VPLE-approved site investigation and remediation activities at two urban redevelopment sites on the Marquette University and UW-Madison campuses. Both projects included remedial soil excavations, groundwater monitoring, and passive subslab venting systems, as well as close communications with the WDNR to obtain approvals in a timely manner to meet expedited construction schedules. Each project was redeveloped with a student apartment building, which included indoor parking and first floor retail/commercial spaces. The WDNR VPLE committee granted final case closure/Certificate of Completions in 2015 (Varsity Quarters) and 2016 (Ivy on Fourteenth).

**Multiple Bulk Storage and Retail Facilities, Wisconsin / Illinois / Indiana / Ohio**

Project Manager for over 25 investigation and/or remediation projects for a Milwaukee-based petroleum distributor. Projects have ranged from heating oil spills at residential homes to leaking storage systems at gas station/cardlock refueling facilities to releases at bulk storage facilities. Two of the sites were former bulk storage facilities on Park Street and Lexington Avenue in Madison, WI. Sigma worked with regulatory agencies to achieve case closure or no further action status in most cases, while several more recent projects are still on-going.

**Milwaukee Regional Medical Center / Froedtert Health Campus Improvements, Wauwatosa**

Project Manager for environmental subsurface aspects of several capital improvement projects, including the current reconstruction of N. 87<sup>th</sup> Street by MRMC and new construction of Parking Structure 6 by Froedtert Health. For both projects, Sigma completed multiple phases of investigation work, prepared Soil Management Plans (including NR 718 soil reuse beneath the parking structure), and performed construction monitoring. Integrated soil remediation work (on-site reuse or off-site disposal) with owner representative/construction manager/earthworks contractor teams. Case closure requests will be presented to WDNR in future when construction work is complete.

**Closed Landfill Redevelopment Planning, Wauwatosa**

Project Manager for redevelopment planning work, including environmental (test pits and methane monitoring) and civil engineering due diligence activities, geotechnical investigation, and survey services. City desires to redevelop approximately 75% of a 25-acre municipal solid waste landfill with tax-generating businesses.

**Bader Philanthropies Headquarters, Milwaukee**

Project Manager for all aspects of environmental work, including site investigation, remedial action planning and implementation, and WDNR reporting and communications. This project involved the rehabilitation of an existing building, plus a new addition, on an approximately 1.1-acre property in the Harambee neighborhood into a \$9.5 million headquarters building for Bader Philanthropies. Site investigation work is complete and remediation work (source area excavations, soil management, and engineered barriers) was conducted in 2017 and 2018 during construction activities. Regulatory case closure from the WDNR is expected in 2019.

**South Pier District, Sheboygan, Wisconsin**

Project Manager for integrating soil and groundwater remedial strategies with the master development plan for a 42-acre site (former C. Reiss Coal Company) at the confluence of the Sheboygan River and Lake Michigan. Managed all remediation work, which consisted of the removal of over 1,275 tons of contaminated soil and construction of engineered barriers. Engineered barrier installation work was dovetailed with over \$50 million in redevelopment activities. WDNR VPLE committee issued final case closure/Certificate of Completion in 2010. This project was a Phoenix Award recipient at the USEPA Brownfields 2006 Conference.

**Former Tissue Mill Facility, Tomahawk, Wisconsin**

Project Manager for VPLE-approved site investigation activities for an approximately 13-acre peninsula on Lake Mohawksin. Designed and implemented a remedial strategy to address residual dioxin/furan, PCB, and petroleum impacts in the subsurface, all of which was approved by the WDNR VPLE committee. Also, helped establish an ETIF district through the City of Tomahawk to offset environmental costs. Final case closure and WDNR VPLE Certificate of Completion were obtained in August 2007.

## Professional Profile

Randy is a Senior Project Manager, responsible for the efficient and effective operation of The Sigma Group Geosciences Department. In this role, he has overall responsibility for identifying project and client objectives and planning investigation and remediation strategies for soil and groundwater contaminated sites. He has more than 30 years' experience in the geological and management disciplines and has provided technical consulting services for a wide variety of municipal clients and private sector industrial and non-industrial clients.

### Areas of Expertise

- Remediation System Design
- Development of Site Closure Strategies

### Education / Training

- B.S. in Geology, University of Wisconsin-Madison, 1986
- B.S. in Economics, University of Wisconsin-Madison, 1980

### Professional Affiliations

- National Groundwater Association

### Registrations / Certification

- Professional Geologist, Wisconsin No. G-844
- OSHA 40-Hour Health & Safety Training

## Representative Experience

### Investigation and Remediation

Project Manager for large hydrocarbon terminal project where 950,000 gallons of product was released from an aboveground storage tank system. Work activities included development of remedial investigation work plan, completion of phased soil and groundwater investigation, and development of comprehensive remedial action plan. Negotiated with the regulatory agency to control/remediate the on-site hydrocarbon source area, and addressed affected soil material using in-situ bioremediation.

Project Coordinator for Superfund landfill project in central Indiana. Soil and groundwater issues included hydrocarbon and chlorinated solvent constituents. Responsibilities included coordination and implementation of two phases of field work, data validation and analysis, and preparation of interim and final remedial investigation reports.

Project Coordinator of extensive pesticide investigation in northwestern Wisconsin. Non-point and site-specific soil and groundwater issues resulted in contamination of numerous shallow domestic water supply wells. Remedial technologies employed included source removal and design of a large municipal well system to supplement and/or replace the individual water supplies.

Project Manager performing environmental assessment activities at large paper mill company in northern Wisconsin. The constituents of concern included nitrate and sulfate. Investigation techniques included use of surface and down-hole geophysical techniques. Negotiated limited action alternatives with regulatory agency.

Project Manager for soil and groundwater investigation involving a chlorinated solvent release in southeastern Wisconsin. A groundwater recovery and operation and maintenance program was implemented. The site is presently approaching closure status using natural attenuation as a final remedial strategy.

Client Manager of 34 hydrocarbon contamination investigation and remediation projects for large national oil company. The project goals generally involved development of a scope-of-work that focused on obtaining site closure in an efficient and cost-effective manner. Worked with State of Wisconsin Reimbursement Program to maximize coverage of applicable site. Remedial technologies employed included groundwater/product recovery utilizing recovery wells and trenches, vacuum-enhanced groundwater recovery, in-situ soil vapor extraction with thermal and catalytic off-gas treatment, and in-situ bioremediation.

Coordinated and designed the investigation and remediation strategy of a former 360,000-square-foot tannery facility planned for development.

Provided litigation support for City of Milwaukee due diligence investigation of former rail yard in the Menomonee Valley.

Coordinated completion of the Menomonee Valley U.S. Environmental Protection Agency Brownfield Pilot Project Grant Program. The scope of work included developing a conceptual model of shallow and deep groundwater evaluating regional groundwater quality.