ENVIRONMENTAL ASSESSMENT WORKSHEET

This Environmental Assessment Worksheet (EAW) form and EAW Guidelines are available at the Environmental Quality Board’s website at: http://www.eqb.state.mn.us/EnvRevGuidanceDocuments.htm. The EAW form provides information about a project that may have the potential for significant environmental effects. The EAW Guidelines provide additional detail and resources for completing the EAW form. Cumulative potential effects can either be addressed under each applicable EAW Item, or can be addresses collectively under EAW Item 19.

Note to reviewers: Comments must be submitted to the RGU during the 30-day comment period following notice of the EAW in the EQB Monitor. Comments should address the accuracy and completeness of information, potential impacts that warrant further investigation and the need for an EIS.

1. Project title: The Orchards at Cahanes Farm Residential Development in Baytown Township, Minnesota

2. Proposer: Croix Capital Group, Inc.
   Contact person: Chris Aamodt
   Title: CEO
   Address: PO Box 295
   City, State, ZIP: Stillwater, MN 55082
   Phone: 651-235-7212
   Fax: 651-292-0083
   Email: chris@aamondtapplefarm.com

3. RGU: Baytown Township
   Contact person: Sherri Buss
   Title: Town Planner
   Address: 444 Cedar Street, Suite 1500
   City, State, ZIP: St Paul, MN 55101-2140
   Phone: 651-292-4582
   Fax: 651-292-0083
   Email: Sherri.Buss@tkda.com

4. Reason for EAW Preparation: (check one)
   Required:
   ☒ EIS Scoping
   ☑ Mandatory EAW
   Discretionary:
   ☐ Citizen petition
   ☐ RGU discretion
   ☐ Proposer initiated

   If EAW or EIS is mandatory give EQB rule category subpart number(s) and name(s):

   Minnesota Rules 4410.4300, Subp. 19 Residential development, Item A. “....100 unattached units or 150 attached units in a sewered unincorporated area.”

5. Project Location:
   County: Washington County
   City/Township: Baytown Township
   PLS Location (¼, ¼, Section, Township, Range): NE ¼ of NE ¼ of Section 8; NW ¼ & SW ¼ of NE ¼, NW 1/4, and NE ¼ of SW ¼ of Section 9; Township 29; Range 20.
   Watershed (81 major watershed scale): Lower St. Croix River Watershed; HUC 07030005
   GPS Coordinates: 92° 48′ 40.672″ N; 45° 01′ 0.207″ W
At a minimum attach each of the following to the EAW:

- County map showing the general location of the project;
- U.S. Geological Survey 7.5 minute, 1:24,000 scale map indicating project boundaries (photocopy acceptable); and
- Site plans showing all significant project and natural features. Pre-construction site plan and post-construction site plan.

**Figures**

Figure 1: Site Location Map  
Figure 2: Site Aerial Photo  
Figure 3: Site Development Plan  
Figure 4: Pre-Development Land Cover  
Figure 5: Post-Development Land Cover  
Figure 6: Prime Farmland  
Figure 7: Baytown Township 2013 Zoning Map  
Figure 8: Wells and Geologic Hazards  
Figure 9: Impaired Waters and Public Waters  
Figure 10: Delineated Wetlands

**Attachments**

Attachment 1: Phase I ESA  
Attachment 2: NHIS Results and Query  
Attachment 3: SHPO Results and Query

6. Project Description:

a. Provide the brief project summary to be published in the *EQB Monitor*, (approximately 50 words).

Croix Capitol Group is proposing to construct 115 new single-family homes on an approximately 223-acre site located in Baytown Township, Washington County, Minnesota. The homes will be constructed on 0.75-acre lots within a cluster development to preserve open space. The development will include new roads and a community wastewater treatment system to serve neighborhood residents.

b. Give a complete description of the proposed project and related new construction, including infrastructure needs. If the project is an expansion include a description of the existing facility. Emphasize: 1) construction, operation methods and features that will cause physical manipulation of the environment or will produce wastes, 2) modifications to existing equipment or industrial processes, 3) significant demolition, removal or remodeling of existing structures, and 4) timing and duration of construction activities.

Croix Capital Group (project proposer) is proposing to construct a new residential development on an approximately 223-acre site located in Baytown Township, Washington County, Minnesota. The project site is located northwest of the intersection of Osgood Avenue and 47th Street (Figure 1). The project will include the construction of
115 single-family residential homes on approximately 0.75-acre lots. To preserve open space, the homes will be arranged in a cluster style development with blocks of 5 to 10 homes. Approximately 106 acres of the site will be developed leaving 117 acres as open space post development. There will be 3.4 acres of orchards included within the open space area. The development will be called The Orchards at Cahanes Farms. The site will be proposed as an Open Space Development (OSD), which will require zoning approval and a Conditional Use Permit (CUP) through the Baytown Township zoning code.

The site currently consists of a combination of agricultural lands, including crop fields and a farmstead, grasslands, wetlands, and forested areas. An aerial photograph of the site is provided as Figure 2, and a site development plan is provided as Figure 3. The project site includes seven parcels which are summarized in Table 1.

<table>
<thead>
<tr>
<th>Parcel ID</th>
<th>Parcel Size</th>
<th>Current Use</th>
<th>Project Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>0902920130008</td>
<td>27.9 ac</td>
<td>Agricultural</td>
<td>Existing farmstead to be removed</td>
</tr>
<tr>
<td>0902920210001</td>
<td>159.9 ac</td>
<td>Agricultural</td>
<td>Existing outbuildings to be removed</td>
</tr>
<tr>
<td>0902920120002</td>
<td>10.8 ac</td>
<td>Agricultural</td>
<td>Existing outbuildings to be removed</td>
</tr>
<tr>
<td>0902920310001</td>
<td>7.6 ac</td>
<td>Agricultural</td>
<td>No existing infrastructure</td>
</tr>
<tr>
<td>0802920110010</td>
<td>2.9 ac</td>
<td>Residential</td>
<td>No residential units planned for this parcel</td>
</tr>
<tr>
<td>0802920110011</td>
<td>8.6 ac</td>
<td>Residential</td>
<td>Existing residential home to remain</td>
</tr>
<tr>
<td>0802920110012</td>
<td>5.6 ac</td>
<td>Residential</td>
<td>Existing residential home to remain</td>
</tr>
</tbody>
</table>

The wetland areas as well as portions of forested areas will be avoided and preserved as part of the cluster development. The development will require mass grading over much of the grasslands and agricultural areas in order to properly prepare the site for construction of the roads, utilities, and home sites. There is one existing farmstead located in the southeastern portion of the project site on parcel 0902920130008. The farmstead will be demolished and removed. There is a new residence in the northwest corner of the project site located on parcels 0802920110011 and 0802920110012. This residence will remain and be incorporated into the proposed residential development.

The current access point to the site is from the Osgood Avenue just to the north of 47th Street (Figure 2), which is the existing driveway to the farmstead. The proposed development will have two access points: one on the east side from Osgood Avenue and one on the northwest side from Northbrook Boulevard. The main entrance will be located at the current site access point and will be constructed (Figure 3) as part of the Washington County planned reconstruction of Osgood Avenue. The second entrance will be at the northwest corner of the site from Northbrook Boulevard, and will generally located where the driveway to the existing residence is located. There will be a second access point to Osgood Avenue located north of main access point, however this second access to Osgood Avenue will be for emergency vehicle access only. New roads will be constructed within the development to serve the new home sites. There is an existing powerline that is oriented north/south in the center of the project site, which will not be disturbed by the development (Figure 3).
Stormwater will be managed on site through the construction of stormwater ponds and infiltration basins as well as ditches and storm sewer infrastructure. Wastewater from the residential development will be managed onsite through the construction of a centralized community subsurface wastewater treatment system. The wastewater system will include a neighborhood-wide sewer collection system to serve the entire development. Water will be supplied to homes through a new connection to the City of Bayport water supply.

Croix Capital is proposing The Orchards at Cahanes Farms as a phased development with installation of utilities and roadways to be completed concurrently to each phase. Site grading, utility installation, and roadways are anticipated to be completed from east to west and will be completed prior to home construction. The first phase will develop homes on the east side of the powerline. The second phase will develop homes on the west side. The access point along Osgood Avenue will be constructed to serve the first phase of the development. The access point from Northbrook Boulevard will be constructed as part of the second phase.

The project will be constructed in several steps: demolition, site preparation and infrastructure, and construction of residential housing. Development of the project is anticipated to take approximately four to five years, beginning during the third quarter of 2018 with full build out and project completion anticipated by 2022. Step 1 – Demolition is anticipated to occur in late summer of 2018 with the demolition and proper removal and disposal of the existing farmstead in the southeast portion of the project site. Step 2 – Site Preparation and Infrastructure is anticipated to begin in Fall 2018, continuing through 2021, and include grading, land clearing, installation of sewer and water infrastructure, and street construction. Step 3 – Residential Housing Construction is anticipated to begin following completion of Steps 1 and 2 in 2018. Construction of residential housing will be dependent on the sale of lots and timing of each parcel owner. Residential housing construction will occur over time as the market dictates with full buildout (i.e., all lots are sold and developed) in 2022.

c. Project magnitude:

<table>
<thead>
<tr>
<th>Table 2: Project Magnitude Data</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total Project Acreage</strong></td>
</tr>
<tr>
<td><strong>Linear project length</strong></td>
</tr>
<tr>
<td><strong>Number and type of residential units</strong></td>
</tr>
<tr>
<td><strong>Commercial building area (in square feet)</strong></td>
</tr>
<tr>
<td><strong>Industrial building area (in square feet)</strong></td>
</tr>
<tr>
<td><strong>Institutional building area (in square feet)</strong></td>
</tr>
<tr>
<td><strong>Other uses – specify (in square feet)</strong></td>
</tr>
<tr>
<td><strong>Structure height(s)</strong></td>
</tr>
</tbody>
</table>

d. Explain the project purpose; if the project will be carried out by a governmental unit, explain the need for the project and identify its beneficiaries.
The purpose of the proposed project is for a private developer to construct new residential homes on primarily agricultural lands.

e. Are future stages of this development including development on any other property planned or likely to happen? ☒ Yes ☐ No

If yes, briefly describe future stages, relationship to present project, timeline and plans for environmental review.

The total development will include 115 homes. Croix Capitol is proposing to construct the development in two phases. The first phase is anticipated to begin during the third quarter of 2018 after all permits and approvals are acquired. This first phase is expected to include approximately one half of the homes in the development on the eastern half of the site and take two to three years for construction. The second phase of the development is anticipated to begin in approximately 2020 and will include the remaining homes. Phase two of the development will be the western half of the site. Actual timing of the development will be driven by market conditions. All aspects of both phase one and phase two of the development have been considered and evaluated as part of this environmental review. No additional stages of development are proposed beyond the two phases described.

f. Is this project a subsequent stage of an earlier project? ☐ Yes ☒ No

If yes, briefly describe the past development, timeline and any past environmental review.

There were no previous stages of this development.

7. Cover types: Estimate the acreage of the site with each of the following cover types before and after development:

Land cover analysis at the project site utilized the Minnesota Land Cover Classification System (MLCCS) to determine pre-development land cover. For the pre-development land cover analysis, the generalized land cover classification within MLCCS was used. Land cover categories are listed in Table 3 below. A site-specific refinement for the land cover analysis included incorporation of the delineated wetlands into the pre-development land cover (Figure 4). Wetlands are further described under item 11a.

A preliminary site development plan was utilized to compare land cover between before and after development conditions. Post development land cover is displayed in Figure 5. The majority of the land cover changes at the site include the change from agriculture, grasslands, and forest over to developed residential, open space lawn, landscaping, & grasslands, and impervious roadway surfaces (Table 3). The post development land cover will also include new stormwater management features (there are currently none on the project site) and new forest areas in the form of planted orchards. There will be no direct impacts to wetlands from the development, and there is no change to the wetland acreage between the pre and post development conditions.
Table 3: Land cover for the project site Before and After the proposed development.

<table>
<thead>
<tr>
<th></th>
<th>Before</th>
<th>After</th>
<th></th>
<th>Before</th>
<th>After</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetlands</td>
<td>10.8</td>
<td>10.8</td>
<td>Cropland</td>
<td>112.1</td>
<td>0</td>
</tr>
<tr>
<td>Deep water/streams</td>
<td>0</td>
<td>0</td>
<td>Lawn/landscaping</td>
<td>0</td>
<td>71.3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(includes open</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>space areas)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wooded/forest</td>
<td>21.0</td>
<td>8.5</td>
<td>Impervious surface</td>
<td>1.9</td>
<td>21.3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(roadways)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brush/Grassland</td>
<td>71.5</td>
<td>14.3</td>
<td>Stormwater Pond</td>
<td>0</td>
<td>13.9</td>
</tr>
<tr>
<td>(includes wetland</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>buffer)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Orchard</td>
<td>0</td>
<td>3.4</td>
<td>Developed/Residential</td>
<td>6.1</td>
<td>79.9</td>
</tr>
<tr>
<td>TOTAL</td>
<td>223.4</td>
<td>223.4</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

8. **Permits and approvals required**: List all known local, state and federal permits, approvals, certifications and financial assistance for the project. Include modifications of any existing permits, governmental review of plans and all direct and indirect forms of public financial assistance including bond guarantees, Tax Increment Financing and infrastructure. *All of these final decisions are prohibited until all appropriate environmental review has been completed. See Minnesota Rules, Chapter 4410.3100.*

The permits listed in Table 4 are the permits for the proposed project, which is the construction of the proposed residential development and the associated streets and utilities.

Table 4: Required Project Permits and Approvals

<table>
<thead>
<tr>
<th>Unit of Government</th>
<th>Types of Application</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Federal</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>U.S. Army Corps of Engineers (USACE)</td>
<td>Section 404 Wetland Permit</td>
<td>To be applied for, if needed</td>
</tr>
<tr>
<td><strong>State</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minnesota Department of Health (MDH)</td>
<td>Well Registration Permit</td>
<td>To be applied for</td>
</tr>
<tr>
<td></td>
<td>Abandonment of Water Wells</td>
<td>To be applied for</td>
</tr>
<tr>
<td></td>
<td>Watermain Extension Permit</td>
<td>To be applied for</td>
</tr>
<tr>
<td>Minnesota Department of Natural Resources (MDNR)</td>
<td>Water Appropriation Permit</td>
<td>To be applied for, if needed</td>
</tr>
<tr>
<td><strong>Local</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minnesota Pollution Control Agency (MPCA)</td>
<td>State Disposal System (SDS) Permit</td>
<td>To be applied for</td>
</tr>
<tr>
<td></td>
<td>NPDES Discharge Permit</td>
<td>To be applied for, if needed</td>
</tr>
<tr>
<td></td>
<td>NPDES Construction Stormwater Permit</td>
<td>To be applied for</td>
</tr>
<tr>
<td></td>
<td>Underground Storage Tank Notification (UST) Permit</td>
<td>To be applied for</td>
</tr>
<tr>
<td></td>
<td>Demolition notification checklist</td>
<td>To be submitted</td>
</tr>
<tr>
<td>Unit of Government</td>
<td>Types of Application</td>
<td>Status</td>
</tr>
<tr>
<td>--------------------</td>
<td>----------------------</td>
<td>--------</td>
</tr>
<tr>
<td><strong>Local</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Washington County</td>
<td>Driveway Access Permit(s)</td>
<td>To be applied for</td>
</tr>
<tr>
<td></td>
<td>Right-of-way Excavation Permit</td>
<td>To be applied for, if needed</td>
</tr>
<tr>
<td></td>
<td>Demolition Permit</td>
<td>To be applied for</td>
</tr>
<tr>
<td>Baytown Township</td>
<td>Zoning Approval</td>
<td>In process</td>
</tr>
<tr>
<td></td>
<td>Conditional Use Permit (CUP)</td>
<td>To be applied for</td>
</tr>
<tr>
<td></td>
<td>Right-of-way Excavation Permit</td>
<td>To be applied for, if needed</td>
</tr>
<tr>
<td></td>
<td>Building permits</td>
<td>To be applied for</td>
</tr>
<tr>
<td></td>
<td>Demolition Permit</td>
<td>To be applied for</td>
</tr>
<tr>
<td></td>
<td>Wetland Conservation Act (WCA) permit</td>
<td>To be applied for, if needed</td>
</tr>
<tr>
<td>City of Bayport</td>
<td>Utility Connection Permits</td>
<td>To be applied for, if needed</td>
</tr>
<tr>
<td></td>
<td>Utility Repair Permit</td>
<td>To be applied for, if needed</td>
</tr>
<tr>
<td></td>
<td>JPA Amendment (with Baytown Township)</td>
<td>To be applied for</td>
</tr>
<tr>
<td>Middle St. Croix Watershed Management Organization</td>
<td>MSCWMO Project Review – Erosion Control, Stormwater Management, Wetlands</td>
<td>To be applied for</td>
</tr>
</tbody>
</table>

Cumulative potential effects may be considered and addressed in response to individual EAW Item Nos. 9-18, or the RGU can address all cumulative potential effects in response to EAW Item No. 19. If addressing cumulative effect under individual items, make sure to include information requested in EAW Item No. 19.

9. Land use:
   a. Describe:
      i. Existing land use of the site as well as areas adjacent to and near the site, including parks, trails, prime or unique farmlands.

      The site is located in a rural community close to several developing communities on the east side of the Twin Cities Metropolitan Area. Nearby developing communities include Stillwater, Oak Park Heights, Bayport, and Lake Elmo. Land use on the site is primarily agricultural crop land, a farmstead, and combination of grasslands, wetlands, and forested areas. An aerial photograph of the site is provided as Figure 2. The site is bordered along the east by Osgood Avenue N (State Highway 24); on the south by the Union Pacific Railroad; on the north by the Bayport Wildlife Management Area (WMA); and on the west by single-family housing on large rural lots along Northbrook Boulevard N. The land use in proximity to the site is mainly rural residential areas as well as some agricultural areas. The St. Croix Preparatory Academy is located approximately 0.5 mile southeast of the site. The Oak Park Heights State Correctional Facility is located approximately 0.5 mile northeast of the site. In general, there is large-lot, single-family residential development within proximity surrounding the site. There are no public trails or parks near the site. The majority of the site is considered prime farmland and/or farmland of...
statewide importance (Figure 6). Additional discussion about soils is provided in Item 10.

ii. Plans. Describe planned land use as identified in comprehensive plan (if available) and any other applicable plan for land use, water, or resources management by a local, regional, state, or federal agency.

Baytown Township regulates land use based on a comprehensive plan and zoning and subdivision ordinances. The current plan in place is the 2030 Comprehensive Plan Update (Comp Plan), approved by the Metropolitan Council (Met Council) on June 24, 2009, and adopted by the township on July 6, 2009. The Comp Plan uses the requirements in the Metropolitan Land Planning Act, Met Council’s 2030 Regional Development Framework, Met Council’s Local Planning Handbook, and the Washington County Comprehensive Plan. The 2030 Comp Plan was updated to the 2040 Comp Plan (draft September 2017), which was officially approved on February 14, 2018 and adopted in May 2018. The Township’s adopted 2040 Comprehensive Plan will be submitted to the Metropolitan Council in June 2018.

The purpose of the Comp Plan is to guide local government decisions for guiding land use development and to preserve the existing character of the Township. It is important to note that zoning applications must be reviewed based on the zoning ordinance and Comprehensive Plan that were in effect on the date that the application was submitted. The Orchards at Cahanes Farms application was submitted to the Township on January 17, 2018. At that time, the Township’s 2030 Comprehensive Plan and Open Space Development (OSD) Ordinance were in effect. For the purposes of this EAW, the 2030 Comp Plan was used, which identifies a number of categories for goals and policies. Some of the goals and policies are similar among categories, and therefore, the most relevant categories to the project are Natural Resources Protection and Land Use. The relevant goals and policies for each of these categories is outlined below.

Natural Resources Protection:
Goal:
• Protect, preserve, and manage the existing environmental and natural features and ecological resources of the Township.

Policies:
• Encourage protection and preservation of wetlands, lakes, woodlands, hills, woods, wildlife, water resources, and other valuable natural resources.
• Watershed Management Organization’s (WMO) will review proposed subdivision and development plans to meet performance standards with their Watershed Management Plans.
• Design of subdivisions will encourage preservation of natural drainage systems.
• Land will not be developed in a manner which will significantly increase surface water runoff or cause potential erosion of natural drainage routes.
• New development will be required to meet WMO performance standards for water quality and water quantity.
• Wetlands, buffers, and natural ponding areas will be preserved, including protection of wetlands consistent with the Wetland Conservation Act (WCA).

Land Use:

Goals:
• Protect and preserve the rural character of the Township.
• Encourage development that protects or restores the health of water and natural resources.
• Develop in accordance with the adopted Comp Plan.
• Encourage low-density residential development.

Policies:
• Single family homes will be the preferred type of housing allowed.
• Cluster type development will be an option to preserve and protect agricultural land, natural resources, and open space.
• Open spaces designated through cluster development will be contiguous to existing open spaces as deemed appropriate by the Township.
• Designated open space will be held through a conservation easement where appropriate.
• All land development cost will be borne by the developer.
• Subdivision proposal require Township review.

The 2040 Comp Plan identifies the existing land use and zoning for the site as Single Family Estates (SFE), which allows up to 16 dwelling units per 40 acres. The 2040 Comprehensive Plan’s goals and policies support Open Space Development in the Single-Family Estates zoning district where the project is located. The RR land use area encourages rural housing on lands not capable of supporting long-term agricultural production. Clustering within the RR areas is allowed.

The Comp Plan identifies future Post-2030 land use as Single Family Estates for the project site, which allows up to 16 dwelling units per 40 acres. Subdivision development using lot averaging and clustering is allowed.

The proposed project is expected to include up to 115 new single-family homes (up to 115 new households). The Metropolitan Council forecasts, included in the 2040 Comprehensive Plan, estimate the number of households in the Township in 2014 to be 619, and forecast 760 households by 2040. The difference is 141 households that could be developed through 2040 within the current forecast. The number of units in the proposed project does not exceed the current forecast.
The Township will submit a Comprehensive Plan Amendment to update the forecasts if required. The Township sent a letter to the Metropolitan Council on May 23, 2018 requesting Council guidance regarding the timing for submittal of a Comprehensive Plan Amendment and detailing the land use policies in the adopted 2040 Comprehensive Plan.

Baytown Township also has a Local Surface Water Management Plan that is incorporated into the Comp Plan. The Local Water Plan meets the requirements of Minnesota Statutes 103B and Minnesota Rules 8410, as well as the Metropolitan Council’s Water Resources Management Policy Plan and applicable WMO plans for Valley Branch Watershed District and Middle St. Croix WMO. The Township works with the WMOs by communicating development activities and informing landowners and developers about potential WMO permits or other enforcement that may be required for proposed projects.

iii. Zoning, including special districts or overlays such as shoreland, floodplain, wild and scenic rivers, critical area, agricultural preserves, etc.

The Township administers its own zoning ordinance which regulates most land use through its zoning and subdivision ordinances adopted in 2016. Land within Shoreland Districts, floodplain areas, the St. Croix River District, subsurface septic treatment systems, and Mining uses are regulated jointly by Baytown Township and Washington County. The 2013 Township Zoning Map currently indicates the project site is located in the Single Family Estates (SFE) zoning district, allowing for 16 dwelling units per 40 acres (Figure 7). The Township has a Development Code that includes Chapter 3 Subdivision Regulations, adopted August 1, 2016. These Subdivision Regulations are consistent with the Comp Plan and outline the requirements and procedures for subdivision development within the Township.

The proposed project would be developed under the OSD ordinance regulations. The OSD ordinance encourages development of rural housing clusters that permanently preserve open space, retain rural character, fit new development and homes into the landscape, and create district rural neighborhoods consistent with the Comp Plan. Single-family detached and multifamily residential uses are permitted, as well as conservation, agriculture, and recreational uses are allowed in the designated open space.

The OSD ordinance regulates base density, lot sizes, and performance standards. A density analysis was completed for the proposed project based on the current OSD Ordinance standards. The results of this analysis are as follows:

- The proposed project includes 223 total acres: 117 acres of Open Space and 106 acres of single-family residential use. Based on minimum lot sizes of 2.5 acres (16 units per 40 acres), the proposed project could have had a maximum of 89 lots to comply with the density standards for developments in the SFE District. The Yield Plan analysis of the proposed density of the proposed project identified 88 potential lots.
• The OSD ordinance permits the number of units in an OSD to be increased up to 12.5% in the SFE district if at least 50% of the development area is dedicated as permanent open space. The proposed project meets those standards and earned the 12.5% bonus.

• Additional Bonus units are permitted in an OSD by a maximum of three additional density bonus units per each 40 acres of the development if it complies with the following standards:
  o 1 bonus unit per 40 acres for developments served by community wells
  o 1 bonus unit per 40 acres for developments served by a joint waste water treatment system
  o 1 bonus density unit per 40 acres for a trail system that allows public access and serves the development in a comprehensive manner.

• The Preliminary Plat states that the development proposes to be served by a community water system connection to the City of Bayport and a community septic system. The Preliminary Plat shows a trail system within the proposed Open Space area that will be accessible to the public. Therefore, the proposed project earned the Additional Bonus units.

• As shown on the table below, the Township may permit up to 117 units within the Preliminary Plat based on the permitted densities in the SFE district (Base Units), Bonus based on 50% Open Space dedication and compliance with the criteria for Additional Bonus units. The Preliminary Plat includes 115 units and is consistent with the OSD ordinance standards.

<table>
<thead>
<tr>
<th>Number of Base Units</th>
<th>Bonus Units 12.5% x 88 units for 50% Open Space</th>
<th>Additional units per criteria: 227-acre development</th>
<th>Maximum Bonus Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>88</td>
<td>11</td>
<td>18</td>
<td>117</td>
</tr>
</tbody>
</table>

The proposed project will require approval of a Conditional Use Permit for an Open Space Development and approval of a Major Subdivision based on the Township’s Subdivision Ordinance. The site is not located within a shoreland, floodplain, or wild and scenic river district.

b. Discuss the project’s compatibility with nearby land uses, zoning, and plans listed in Item 9a above, concentrating on implications for environmental effects.

The proposed project is compatible with nearby land uses in a developing area of Baytown Township. Surrounding land uses include large lot, single family residential to the west, the MDNR Bayport WMA to the north with subdivisions beyond the MDNR property in Oak Park Heights, and large lots and rural residential to the south and east. Areas to south, west, and east are zoned as SFE, which allow 16 dwelling units per 40 acres. The proposed project is an Open Space/Cluster development that is located within the SFE District. The proposed project is consistent with the 2030 Comprehensive Plan and the adopted 2040 Comprehensive Plan and allowable under the Open Space Development Ordinance as a conditional use within the SFE district, including the bonus densities permitted by that Ordinance. The development as
proposed is consistent with the Townships ordinance requirement. The proposed project will require approval of a Conditional Use Permit for an Open Space Development and approval of a Major Subdivision based on the Township’s Subdivision Ordinance.

As part of the site planning process, Croix Capital has submitted a Preliminary Plat application for the proposed project to Baytown Township. Comments received by the Township included requests to maximize open space where possible and maintaining setbacks from the Bayport WMA along the north side of the development. The MDNR has also provided comments regarding setbacks from the Bayport WMA to limit the potential for impacts to the WMA from the residential development. The Preliminary Plat has incorporated the comments from the Township and MDNR regarding setbacks from the WMA.

c. Identify measures incorporated into the proposed project to mitigate any potential incompatibility as discussed in Item 9b above.

In January 2018, the Township approved reinstating the Open Space Development Ordinance, which will allow for open space design developments in the SFE zone as a conditional use. The proposed project will require a CUP for construction. Additional requirements will be determined based on the amended Township ordinance. Specific development requirements will be identified as conditions within the CUP for the project and will need to be implemented as part of the design and construction of the site to ensure compliance with zoning rules.

The Preliminary Plat has incorporated the comments from the Township and MDNR regarding setbacks from the WMA and maintains a minimum of setback of 100 feet from all structures to the WMA. As part of the development Croix Capital will notify potential buyers of the adjacent WMA area and that recreational activities, including hunting and trapping, are allowed within the WMA, to ensure new potential residents are aware of the nearby land uses. The Township will require that the Final Plat incorporate minimum 100-foot structure setbacks from the Bayport WMA boundary for all lots in the development.

Additionally, the Township will also require that open space areas be planted with native vegetation and maintained based on the Minnesota Board of Water and Soil Resources (BWSR) Native Vegetation Establishment and Enhancement Guidelines (June 2017) to successfully establish the native vegetation and to control noxious weeds. Erosion control materials utilized during construction will be made from wildlife friendly materials as identified in the DNR informational pamphlet.

10. Geology, soils and topography/land forms:
   a. Geology - Describe the geology underlying the project area and identify and map any susceptible geologic features such as sinkholes, shallow limestone formations, unconfined/shallow aquifers, or karst conditions. Discuss any limitations of these features for the project and any effects the project could have on these features. Identify any project designs or mitigation measures to address effects to geologic features.
Bedrock geology below the project site includes the St. Peter Sandstone formation, which consists of fine- to medium-grained quartz sandstone and is predominate throughout Washington County (Mossler and Bloomgren, 1990). This formation covers a small portion of the project site’s east and west boundaries. The remainder of the site is dominated by the Prairie du Chien group, which includes dolostone comprised of sandstone and chert. Surficial geology is that of the Superior Lobe lacustrine sand and silty sediment, and outwash consisting of sand, loamy sand, and gravel (Meyer, Baker and Patterson, 1990). Depth to bedrock in this area ranges from less than 50 feet to 100 feet below ground surface (Patterson, Mossler and Bloomgren, 1990).

Washington County is located above the Cambrian-Ordovician aquifer system, which is comprised of sandstone formations with limestone or dolomite inclusions in the upper layers. This includes the St. Peter – Prairie du Chien – Jordan aquifer in the project site location and for much of Washington County (USGS Groundwater Atlas, 1992). There are no known identified karst formations within the project site, though one feature is located southwest within a one-mile radius of the site boundaries (Figure 8) and seven additional formations are located between one and 2.5 miles from the site to the southwest. There are two features between one and two miles southeast of the site, towards the St. Croix River. Each of these features is identified as a sinkhole. There are no anticipated impacts to karst features as a result of the project.

b. Soils and topography - Describe the soils on the site, giving NRCS (SCS) classifications and descriptions, including limitations of soils. Describe topography, any special site conditions relating to erosion potential, soil stability or other soils limitations, such as steep slopes, highly permeable soils. Provide estimated volume and acreage of soil excavation and/or grading. Discuss impacts from project activities (distinguish between construction and operational activities) related to soils and topography. Identify measures during and after project construction to address soil limitations including stabilization, soil corrections or other measures. Erosion/sedimentation control related to stormwater runoff should be addressed in response to Item 11.b.ii.

The topography on the site is variable and undulating, sloping generally from the southwest towards the northeast. Site elevations range from 872 to 966 feet. Table 5 below lists the soil map units identified within the project site by the Natural Resource Conservation Service (NRCS) Web Soil Survey for Washington County. Soil map units within the project site are predominately sandy loam or silt loam with a 0 to 10% hydric rating (non-hydric). The Web Soil Survey indicates that site K factor (erosion factor) ranges between 0.10 and 0.49 for the map units contained within the project site. K factor values may range from 0.02 to 0.69, indicating that site erodibility factors range from low to moderate.

The NRCS Web Soil Survey lists the dominant soil map unit as 342C, Kingsley sandy loam, 6 to 12 percent slopes, comprising about one-third of the project site. The second most dominant soil map unit is 153B Santiago silt loam, 2 to 6 percent slopes, which also occupies approximately one-third of the project site. Both map units are considered well drained loamy soils formed on glacial moraines with till or loess parent material. Several other soil map units occupy the project site, covering approximately 10 percent of less of the area. Table 5 below provides a summary of the soil types found within the project site.
Table 5: Soil types on the project site.

<table>
<thead>
<tr>
<th>Map Unit Symbol</th>
<th>Map Unit Name</th>
<th>Percent of Project Site</th>
</tr>
</thead>
<tbody>
<tr>
<td>49</td>
<td>Antigo silt loam, 0 to 2 percent slopes</td>
<td>0.1</td>
</tr>
<tr>
<td>49B</td>
<td>Antigo silt loam, 2 to 6 percent slopes</td>
<td>1.0</td>
</tr>
<tr>
<td>1055</td>
<td>Aquolls and Histosols, ponded</td>
<td>0.3</td>
</tr>
<tr>
<td>189</td>
<td>Auburndale silt loam</td>
<td>4.3</td>
</tr>
<tr>
<td>456</td>
<td>Barronett silt loam</td>
<td>0.7</td>
</tr>
<tr>
<td>120</td>
<td>Brill silt loam</td>
<td>2.5</td>
</tr>
<tr>
<td>155C</td>
<td>Chetek sandy loam, 6 to 12 percent slopes</td>
<td>1.9</td>
</tr>
<tr>
<td>452</td>
<td>Comstock silt loam</td>
<td>1.1</td>
</tr>
<tr>
<td>449</td>
<td>Crystal Lake silt loam, 1 to 3 percent slopes</td>
<td>0.1</td>
</tr>
<tr>
<td>264</td>
<td>Freeon silt loam, 1 to 4 percent slopes</td>
<td>3.4</td>
</tr>
<tr>
<td>266</td>
<td>Freer silt loam</td>
<td>9.5</td>
</tr>
<tr>
<td>342D</td>
<td>Kingsley sandy loam, 12 to 18 percent slopes</td>
<td>4.8</td>
</tr>
<tr>
<td>342B</td>
<td>Kingsley sandy loam, 2 to 6 percent slopes</td>
<td>0.8</td>
</tr>
<tr>
<td>342C</td>
<td>Kingsley sandy loam, 6 to 12 percent slopes</td>
<td>31.3</td>
</tr>
<tr>
<td>896C</td>
<td>Mahtomedi-Kingsley complex, 3 to 12 percent slopes</td>
<td>0.6</td>
</tr>
<tr>
<td>325</td>
<td>Prebish loam</td>
<td>1.3</td>
</tr>
<tr>
<td>153B</td>
<td>Santiago silt loam, 2 to 6 percent slopes</td>
<td>29.8</td>
</tr>
<tr>
<td>153C</td>
<td>Santiago silt loam, 6 to 15 percent slopes</td>
<td>6.2</td>
</tr>
</tbody>
</table>

Construction of the project is anticipated to cause impacts to soil through grading and excavation. Total anticipated disturbance to the 223-acre project site is estimated to be approximately 175 acres. The total volume of soil moved during site grading is estimated to be approximately 150,000 cubic yards per phase of development.

This includes previously disturbed areas used for agriculture. Soil disturbance will result from the construction of residential structures, utilities, roads, trails, sidewalks, and stormwater treatment facilities. Excavation depths in the house pad areas are expected to range from approximately eight to ten feet with excavation depths ranging from ten to 20 feet for utility construction.

Material from excavation will be reused onsite. Soils free of organic soil and debris will be used as backfill and fill where needed. Vegetative material from site clearing will be used onsite by the contractor for mulch or erosion and sediment control. Unsuitable vegetative
material will be properly disposed of by the contractor. Once each residential property is stabilized, operation of the project site is not anticipated to impact soils.

NOTE: For silica sand projects, the EAW must include a hydrogeologic investigation assessing the potential groundwater and surface water effects and geologic conditions that could create an increased risk of potentially significant effects on groundwater and surface water. Descriptions of water resources and potential effects from the project in EAW Item 11 must be consistent with the geology, soils and topography/land forms and potential effects described in EAW Item 10.

11. Water resources:

   a. Describe surface water and groundwater features on or near the site in a.i. and a.ii. below.
   
      i. Surface water - lakes, streams, wetlands, intermittent channels, and county/judicial ditches. Include any special designations such as public waters, trout stream/lake, wildlife lakes, migratory waterfowl feeding/resting lake, and outstanding resource value water. Include water quality impairments or special designations listed on the current MPCA 303d Impaired Waters List that are within 1 mile of the project. Include DNR Public Waters Inventory number(s), if any.

      There are no lakes, streams, intermittent channels, or ditches present within the project site (Figure 9). No public waters, trout streams or lakes, wildlife lakes, or outstanding resource value waters were identified within the project site boundaries. The project site contains 31 wetland basins, which were delineated in October of 2017 (Figure 10). Table 6 below provides the classification for each delineated wetland.

Table 6: Classification for each delineated wetland.

<table>
<thead>
<tr>
<th>Wetland ID</th>
<th>Circular 39</th>
<th>Cowardin</th>
<th>Eggers and Reed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Type 1</td>
<td>PEM1A</td>
<td>Seasonally flooded basin</td>
</tr>
<tr>
<td>2</td>
<td>Type 2/5</td>
<td>PEMB/PUBGx</td>
<td>Fresh wet meadow, open water</td>
</tr>
<tr>
<td>3</td>
<td>Type 1</td>
<td>PEM1A</td>
<td>Seasonally flooded basin</td>
</tr>
<tr>
<td>4</td>
<td>Type 2/3</td>
<td>PEM1B/PEM1C</td>
<td>Fresh wet meadow/shallow marsh</td>
</tr>
<tr>
<td>5</td>
<td>Type 1</td>
<td>PEM1A</td>
<td>Seasonally flooded basin</td>
</tr>
<tr>
<td>6</td>
<td>Type 1</td>
<td>PEM1A</td>
<td>Seasonally flooded basin</td>
</tr>
<tr>
<td>7</td>
<td>Type 1</td>
<td>PEM1A</td>
<td>Seasonally flooded basin</td>
</tr>
<tr>
<td>8</td>
<td>Type 1</td>
<td>PEM1A</td>
<td>Seasonally flooded basin</td>
</tr>
<tr>
<td>9</td>
<td>Type 2</td>
<td>PEM1B</td>
<td>Fresh wet meadow</td>
</tr>
<tr>
<td>10</td>
<td>Type 6</td>
<td>PSS1A</td>
<td>Shrub-carr</td>
</tr>
<tr>
<td>11</td>
<td>Type 1</td>
<td>PEM1A</td>
<td>Fresh wet meadow</td>
</tr>
<tr>
<td>12</td>
<td>Type 1</td>
<td>PEM1A</td>
<td>Fresh wet meadow</td>
</tr>
<tr>
<td>13</td>
<td>Type 1/2</td>
<td>PEM1A/PEM1B</td>
<td>Seasonally flooded basin/Fresh wet meadow</td>
</tr>
<tr>
<td>14</td>
<td>Type 1</td>
<td>PEM1Af</td>
<td>Seasonally flooded basin (farmed)</td>
</tr>
<tr>
<td>15</td>
<td>Type 2</td>
<td>PEM1B</td>
<td>Fresh wet meadow</td>
</tr>
</tbody>
</table>
Within the vicinity of the project site there are several public water lakes, including an unnamed waterbody (82031000) approximately 0.5 miles to the northeast and two additional unnamed waterbodies (82031100) approximately 0.3 miles to the southwest. The St. Croix River (82000100) is located approximately 1.7 miles east of the site and McDonald Lake (82001000) is located approximately 0.75 miles directly west. Several National Wetland Inventory (NWI) wetland basins are located near the project site, specifically to the west-southwest.

The St. Croix River within the vicinity of the project site is ranked as a National Scenic Riverway (federal designation) and an Outstanding Resource Value Water by the Environmental Protection Agency (EPA). There are no other waters with these designations within the project site or closer to project site boundaries than the St. Croix.

There is one MPCA 303d stream identified within a one-mile radius of the project site. The unnamed stream is a tributary to the St. Croix and is listed as impaired for E. coli. Though approximately 1.7 miles from the project site, the St. Croix River is also a listed 303d water, impaired for nutrients.

ii. Groundwater – aquifers, springs, seeps. Include: 1) depth to groundwater; 2) if project is within a MDH wellhead protection area; 3) identification of any onsite and/or nearby wells, including unique numbers and well logs if available. If there are no wells known on site or
nearby, explain the methodology used to determine this.

Review of site topography indicates land surface elevations range from 872 to 966 feet above sea level. Depth to groundwater ranges from at the surface to approximately 50 feet in depth below ground surface, though is predominantly between 0-20 feet in depth. The project site is not located within a wellhead protection area, though there are five wellhead protection areas located within a one-mile radius of the boundaries. These include the Stillwater South, Oak Park Heights, MN Correctional Facility, and Bayport 2, 3, and 4 wellhead protection areas.

The Minnesota Well Index identified two wells within the project area, including a domestic 255-foot well (Unique Well ID 645602) that serves the existing residence in the northwest corner of the project site and an unidentified use well of unknown depth (Unique Well ID 273695) that serves the existing farmstead in the southeast portion of the project site (Figure 8). Further investigation identified 389 field verified wells and 30 unverified wells within a one-mile radius of the project site. The wells immediately adjacent to the project site are all for domestic purposes serving residential houses.

The project site is located within a MDH identified Special Well Construction Area (SWCA). There is a well advisory within the SWCA due to past contamination by volatile organic chemicals (VOCs). Baytown Township developed Ordinance 38 in close coordination with the MDH to address potential groundwater concerns within the SWCA. The Ordinance also has requirements for new well construction. New well construction is regulated by MDH and may only be constructed with the written approval of MDH. The Ordinance outlines well sampling requirements and maintenance requirements for individual wells within the SWCA. There are currently no new groundwater wells planned for the proposed residential development.

b. Describe effects from project activities on water resources and measures to minimize or mitigate the effects in Item b.i. through Item b.iv. below.

i. Wastewater - For each of the following, describe the sources, quantities and composition of all sanitary, municipal/domestic and industrial wastewater produced or treated at the site.

1) If the wastewater discharge is to a publicly owned treatment facility, identify any pretreatment measures and the ability of the facility to handle the added water and waste loadings, including any effects on, or required expansion of, municipal wastewater infrastructure.

The wastewater will not be discharged to a publicly owned treatment facility

2) If the wastewater discharge is to a subsurface sewage treatment systems (SSTS), describe the system used, the design flow, and suitability of site conditions for such a system.

The proposed project includes the construction of a subsurface sewage treatment system (SSTS) to treat the wastewater generated by the proposed
residential development. The SSTS will be located in the central portion of the development (Figure 3). The SSTS is considered a large subsurface sewage treatment system (LSTS) as the estimated wastewater flow is more than 10,000 gallons per day (GPD). Permitting of the LSTS will be through the MPCA State Disposal System (SDS) process.

During the preliminary design, expected hydraulic and organic loadings generated from the development were evaluated. Table 7 provides a summary of these loadings. During final design, these loadings will be revisited and finalized prior to LSTS component sizing.

Table 7: Hydraulic and Organic Wastewater Loading Summary

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Units</th>
<th>Values</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dwellings (115)</td>
<td>gpd</td>
<td>41,100</td>
<td>Per MN Rules 7081.0120 &amp; LSTS Design Guidance</td>
</tr>
<tr>
<td>Gravity Sewer Inflow/Infiltration Allowance</td>
<td>gpd</td>
<td>4,800</td>
<td>200 gpd/in. diameter piping/mile Per MN Rules 7081.0140 &amp; LSTS Design Guidance</td>
</tr>
<tr>
<td>Total Peak Wastewater Flow</td>
<td>gpd</td>
<td>46,000</td>
<td>Peak Permit Wet Weather Flow</td>
</tr>
<tr>
<td>Average Wastewater Flow</td>
<td>gpd</td>
<td>23,000</td>
<td>Expected Average Wastewater Flow</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Units</th>
<th>Values</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbonaceous Biochemical Oxygen Demand (CBOD)</td>
<td>lb/day</td>
<td>76</td>
<td>Raw wastewater</td>
</tr>
<tr>
<td>Total Suspended Solids (TSS)</td>
<td>lb/day</td>
<td>90</td>
<td>Raw wastewater</td>
</tr>
<tr>
<td>Total Nitrogen (TN)</td>
<td>lb/day</td>
<td>11</td>
<td>Raw wastewater</td>
</tr>
</tbody>
</table>

The proposed collection system to serve the development is a conventional gravity-based sewer utilizing lift stations with pumps. The system will be comprised of 8-inch diameter mainline that will run within the roadway. The collection system will include laterals, and mains. Due to the site’s undulating topography, multiple lift stations are envisioned, currently estimated to be three based on the preliminary design. Each lift station will include two solids handling pumps and float switches. The float switches will send signals to the control panel that regulates pumping operations. Pumps will be mounted on a guidercail system to allow removal for replacement or if repairs are needed. An aluminum access cover will provide access and include a fall-through prevention grate. Manholes will be located at every major change in pipe direction, intersections, and at intervals of not more than 400 feet. All piping will be designed to achieve a minimum 2.0 feet per second scouring velocity to prevent buildup of solids within the collection system. Raw sewage from...
each connection will flow via gravity through a service lateral and into a sewer main located within the roadway. From the gravity sewer, wastewater will be conveyed to a lift station or the wastewater treatment site depending upon location.

The proposed LSTS will include primary, secondary, and tertiary treatment components and be designed to meet end-of-pipe (prior to soil dispersal) effluent TN limitations of 10 mg/L. This will be accomplished through use of septic tanks, an equalization tank, aerobic treatment units (ATU), and a denitrification unit. Duplex pumps within the equalization tank will dose a specified volume of settled wastewater to ATU treatment trains for purposes of physical, chemical, and biological treatment processes. Each train will consist of an ATU for purposes of reducing CBOD and another for the conversion of ammonia to nitrite/nitrate. Pretreated wastewater will flow downstream to the denitrification unit for purposes of converting nitrate to nitrogen gas. After denitrification, treated wastewater will flow to the dose tank which will deliver effluent to a network of equally sized below-grade drainfield adsorption beds for final dispersal into the ground. A gravel driveway will serve as access to the site and the system perimeter will be fenced. The entire system will be controlled by a main control panel. A small control building (approximately 16 ft. x 22 ft.) will house the control panel, main distribution electrical cabinet, ATU blowers, and chemical-feed equipment. Telemetry features will allow the operator remote, real-time access to detailed data and the ability to change setpoint values.

The LSTS soil absorption site (Figure 3) was selected because of its favorable soil conditions and separation distance to the seasonal high groundwater. The LSTS will treat wastewater such that it will meet end of pipe effluent limitations being less than or equal to 10 mg/L TN. Most wastewater pollutants will be removed in the primary, secondary, and tertiary stages of the treatment system. Pumping of sludge will be monitored on a routine basis. It is expected the first septic tank chamber will be pumped roughly on an annual basis.

The proposed pretreatment technology employs attached growth aerobic treatment processes. Bacteria present in the wastewater attach themselves to the surface of the ATU media substrate. Ambient air is forced from remote blowers through piping and into the center of the ATU module. Air exits the piping at the bottom of the chamber and flows upward lifting aerated wastewater, or mixed liquor, toward the top of the chamber. The mixed liquor gravitates through the media which allows aerobic bacteria to extract nutrients, organic matter, and pathogens by utilizing the dissolved oxygen within the mixed liquor. Oxygen is readily available within the module and promotes various chemical and biological reactions. Excess solids that are created through the treatment process slough off the ATU substrate and accumulate within the tank bottoms.

To meet the 10 mg/L TN end-of-pipe limit, tertiary anoxic denitrification components are proposed. A supplemental carbon feed system will supply a carbon source to the tank for the denitrification process to occur as the
wastewater at this stage will be highly treated and low in carbon. The denitrification unit will include quiescent recirculation pumps that will mix nitrate and carbon throughout the media. Denitrifying bacteria grown on the media utilize nitrate as the final electron acceptor in metabolism transforming nitrate to nitrogen gas. A final polishing ATU is proposed downstream of the denitrification unit to remove any excess carbon. Final pretreated effluent will enter a dose tank that will contain submersible pumps. The pumps will dose eight equally sized below-grade soil absorption beds.

The proposed LSTS will require routine operation and maintenance responsibilities. Initially, operation and maintenance will be the project proposer’s responsibility (Croix Capital Group) and will transfer to the development’s Home Owners Association (HOA) once established. The project proposer and/or HOA would be responsible for hiring a licensed wastewater system operator to run and maintain the system. Use of a licensed operator to run the system will be a requirement of the MPCA permit. Typical operation and maintenance tasks include monitoring and logging wastewater flows, rotating soil absorption beds, inspecting pumps, blowers, and controls; examining ATU and denitrification components, field flushing absorption bed distribution laterals, monitoring wastewater quality, and examining treatment tanks for sludge. Tank sludge will be pumped periodically, as required by MPCA, and hauled to an appropriate approved facility for proper disposal. Telemetry will allow the operator to perform operation and maintenance activities remotely and will notify of alarm conditions. These measures will avoid potential for groundwater contamination from the proposed project by maintaining system performance and efficiency.

The proposed LSTS life span will vary depending on the component of the system. Mechanical items, such as pumps and blowers, typically have a lifespan of 7 to 15 years. These items will be maintained, repaired, and replaced as necessary as part of proper operation of the LSTS. Other items like tanks and pretreatment modules will be anticipated to last 50 years or more. Tanks are manufactured from high grade concrete to provide for long lifespans and will include a concrete additive to prohibit corrosion; extending the life of the system. The drainfield will be expected to last 50 years or longer as well. As the system will produce highly pretreated wastewater, the soil absorption beds will mostly serve as an environment for final polishing of effluent and water discharge.

3) If the wastewater discharge is to surface water, identify the wastewater treatment methods and identify discharge points and proposed effluent limitations to mitigate impacts. Discuss any effects to surface or groundwater from wastewater discharges.

Wastewater from the project will not discharge to a surface water. The proposed project provides a wastewater treatment system that will produce highly pretreated effluent. The result will be a treatment system that properly pretreats wastewater and allows effluent to effectively infiltrate in to the soil absorption area and finally assimilate within the local aquifer. The proposed LSTS will address nitrogen by supplemental tertiary components to treat TN.
to less than or equal to 10 mg/L. These components include a series of fixed activated sludge ATUs and a denitrification unit with external carbon source additive. Impacts to groundwater are not anticipated.

ii. Stormwater - Describe the quantity and quality of stormwater runoff at the site prior to and post construction. Include the routes and receiving water bodies for runoff from the site (major downstream water bodies as well as the immediate receiving waters). Discuss any environmental effects from stormwater discharges. Describe stormwater pollution prevention plans including temporary and permanent runoff controls and potential BMP site locations to manage or treat stormwater runoff. Identify specific erosion control, sedimentation control or stabilization measures to address soil limitations during and after project construction.

The project site is currently used for cultivated agricultural crops including one farm residence. There are also grasslands, wetlands and some wooded areas located in the western and southwestern portions of the site. Currently there is no stormwater management on the project site. Stormwater naturally infiltrates the soil, is temporarily collected in wetland and other depressional areas, and/or runs off the site. The site drains generally to the east, toward the St. Croix River. Within the project site, much of the area drains toward the southeast corner near where the driveway to the farmstead is located. Under current conditions runoff drains towards a wetland in this area, and then leaves the site via a 24-inch culvert under Osgood Avenue.

The project will increase the impervious surfaces which is anticipated to increase the potential for stormwater runoff on the project site. Fifteen proposed stormwater ponds will function in holding and managing stormwater runoff (Figure 3). Middle St. Croix Watershed Management Organization (MSCWMO) Rules and Standards will be followed for this project. The MSCWMO will receive the site development plans once they are available for the approval process. A preapplication meeting was held between the project proposer and MSCWMO to discuss stormwater management strategies and provide input on proposed stormwater infrastructure. All necessary stormwater permits will be applied for, and applications will include a stormwater analysis and a Stormwater Pollution Prevention Plan (SWPPP).

MSCWMO stormwater rate and volume control standards require that new development shall not exceed the 2-, 10-, or 100-year 24-hour storm events. New, non-linear development projects must provide volume control for 1.1 inches of runoff from impervious surfaces. All volume control facilities (infiltration basins) must provide pretreatment for the removal of at least 50 percent of sediment loads.

Construction best management practices (BMPs) for erosion prevention and sedimentation control, such as silt fences, will be implemented on site and will comply with the MPCA Stormwater Management Manual. This complies with the National Pollutant Discharge Elimination System (NPDES) requirements set forth by the U.S. Environmental Protection Agency (USEPA). The goal of stormwater management is to reduce and control stormwater, soil erosion and
sedimentation, while establishing standards and specifications for conservation practices and planning activities which enhance water quality, minimize stormwater pollution, soil erosion, and sediment in waterways, and controlling the volume of water runoff to receiving streams and other water resources.

The project will also implement a temporary construction SWPPP. Construction best management practices (BMPs) for erosion prevention and sedimentation control, such as storm drain inlet protection and silt fences, will be implemented on site and will comply with the MPCA Stormwater Management Manual. Vegetative materials resulting from site preparation will be reused onsite for mulch and erosion and sedimentation control.

iii. Water appropriation - Describe if the project proposes to appropriate surface or groundwater (including dewatering). Describe the source, quantity, duration, use and purpose of the water use and if a DNR water appropriation permit is required. Describe any well abandonment. If connecting to an existing municipal water supply, identify the wells to be used as a water source and any effects on, or required expansion of, municipal water infrastructure. Discuss environmental effects from water appropriation, including an assessment of the water resources available for appropriation. Identify any measures to avoid, minimize, or mitigate environmental effects from the water appropriation.

Water will be supplied to the site via new water main, that will be connected to the City of Bayport water supply system. There is a joint powers agreement (JPA) with the City of Bayport and Baytown Township for the City to coordinate with the Township to provide water to new developments. The project proposer has been coordinating with the City of Bayport and Baytown Township and the JPA will need to be amended to accommodate municipal water service extension to the project site. Based on the initial meetings, the project proposer will be required to provide the water main infrastructure to extend the water service from the residential development at the project site to the City of Bayport water service. The existing City water line is stubbed along Stagecoach Trail near the entrance to the St. Croix Preparatory Academy. The City has indicated that the development will need to install a 10-inch or 12-inch water line to serve the development. Additional infrastructure, such as a booster station, may be required to provide water service to the residences on the project site and will be negotiated between the City of Bayport, Baytown Township, and the project proposer.

The Metropolitan Council Sewer Availability Charge (SAC) Manual provides requirements for residential water supply. The SAC manual identifies 274 gallons per day per residence as the design flow requirements for water supply. Based on the target of 115 residential homes the total average daily water use for the development is 31,500 gallons per day. The City of Bayport has indicated to the project proposer that the water supply system has the necessary capacity to meet the water demand for the proposed residential development.

There are two existing domestic water supply wells on the project site. One is associated with the existing farmstead (Figure 8). The farmstead will be demolished and removed from the site as part of initial site development. During
this process the well will be sealed and closed following MDH rules and procedures. The other domestic well on the project site serves the existing residence on the northwest corner of the site. This residence will be incorporated into the overall development. At that time the existing residence will be tied into the new water supply system for the proposed project. The existing domestic well will be sealed and closed at that time following MDH rules and procedures. The proposed project will not result in other water appropriations or impact the existing residential wells on adjacent properties.

iv. Surface Waters
   a) Wetlands - Describe any anticipated physical effects or alterations to wetland features such as draining, filling, permanent inundation, dredging and vegetative removal. Discuss direct and indirect environmental effects from physical modification of wetlands, including the anticipated effects that any proposed wetland alterations may have to the host watershed. Identify measures to avoid (e.g., available alternatives that were considered), minimize, or mitigate environmental effects to wetlands. Discuss whether any required compensatory wetland mitigation for unavoidable wetland impacts will occur in the same minor or major watershed, and identify those probable locations.

   There are no proposed direct impacts to wetlands in the project area. The development plans are designed to provide substantial open space, which will include 3.4 acres of orchards, once the residences are built and proposes to avoid delineated wetland boundaries with the lot and block layouts. New homes will follow MSCWMO wetland buffer and setback requirements based on the wetland classification. MSCWMO performance standards require a 60-foot buffer for Type A (preserve class) wetlands, a 30-foot buffer for Type B (maintain class) wetlands, and no buffer for Type C (manage class) wetlands. Buffer averaging may be used if deemed necessary. All structures must be setback 20 feet from the buffer. Any proposed impacts to wetland buffers will be permitted through MSCWMO as necessary.

   b) Other surface waters- Describe any anticipated physical effects or alterations to surface water features (lakes, streams, ponds, intermittent channels, county/judicial ditches) such as draining, filling, permanent inundation, dredging, diking, stream diversion, impoundment, aquatic plant removal and riparian alteration. Discuss direct and indirect environmental effects from physical modification of water features. Identify measures to avoid, minimize, or mitigate environmental effects to surface water features, including in-water Best Management Practices that are proposed to avoid or minimize turbidity/sedimentation while physically altering the water features. Discuss how the project will change the number or type of watercraft on any water body, including current and projected watercraft usage.

   The project will not directly impact other surface waters. Indirect impacts during construction will be avoided through construction BMPs. There are no proposed alterations of surface water features, indirect environmental effects, or change in the number or type of watercraft used (not applicable to the project or the site).
12. Contamination/Hazardous Materials/Wastes:

a. Pre-project site conditions - Describe existing contamination or potential environmental hazards on or in close proximity to the project site such as soil or groundwater contamination, abandoned dumps, closed landfills, existing or abandoned storage tanks, and hazardous liquid or gas pipelines. Discuss any potential environmental effects from pre-project site conditions that would be caused or exacerbated by project construction and operation. Identify measures to avoid, minimize or mitigate adverse effects from existing contamination or potential environmental hazards. Include development of a Contingency Plan or Response Action Plan.

The project site consists of agricultural lands as well as grasslands, wetlands, and forested areas. A Phase I Environmental Site Assessment (ESA) was performed on the project site in October 2017. According to sources reviewed within the Phase I ESA the property has been in agricultural use since at least 1938. There are buildings on the site associated with the existing farmstead that have been in place since before 1960 (Figure 2). The site reconnaissance identified a buried 1,000-gallon underground storage tank (UST) used for fuel oil in the past. The property owner indicated that the fuel tank was installed in 1958 but is not currently in use. The UST will be appropriately removed and disposed of during the demolition phase of construction, following all MDH and MPCA rules and regulations for UST removals and closures. There buildings, agricultural structures, and materials located on the property associated with the farmstead that will be removed during site demolition. There are also some various residential and agricultural use items located on one of the parcels at the northeast corner of the property. These buildings, structures, and materials located on the project site may contain regulated materials not identified in the Phase I ESA, such as asbestos. Prior to demolition and removal of these buildings and structures, the selected contractor will be required to complete a site assessment for regulated materials and complete an MPCA pre-demolition environmental checklist. The results of the checklist will then be provided to the MPCA as part of the demolition notification process. If asbestos contain materials or other regulated materials are identified on the project site during the pre-demolition assessment, they will need to be removed and disposed following all applicable MPCA rules and regulations for handling regulated materials.

The Phase I report lists all regulatory inventory sites identified by the GeoSearch Radius Report. The GeoSearch Radius report listed 41 identified sites within the vicinity of the project site. Examples of identified sites include MPCA remediation sites (REMSITES) approximately 0.48 miles from the project site; Registered Leaking Underground Storage Tanks (LUASTS) approximately 0.15 miles from the project site; and a superfund site located on the adjoining property to the east. Review of these items did not identify them as recognized environmental conditions, due to the direction of groundwater flow, site cleanup actions, or distance from the project site (see Attachment 1, Phase I ESA).

The project site is located within a MDH identified SWCA. There is a well advisory within the SWCA due to past contamination by volatile organic chemicals (VOCs). The current identified contaminant within the groundwater in the SWCA is trichloroethene (commonly referred to as TCE). Construction of new wells within the SWCA are
regulated by Baytown Township Ordinance No. 38. No new wells are planned to serve the residential development.

b. Project related generation/storage of solid wastes - Describe solid wastes generated/stored during construction and/or operation of the project. Indicate method of disposal. Discuss potential environmental effects from solid waste handling, storage and disposal. Identify measures to avoid, minimize or mitigate adverse effects from the generation/storage of solid waste including source reduction and recycling.

The project will generate solid wastes typical of a residential construction site. Construction contractors will be responsible for hauling construction generated solid wastes to a disposal site specified for construction debris and refuse. The completed project will have residences that, through routine daily activities, will generate mixed municipal solid waste (MSW). Once residences are occupied, the MSW generated by the project will be managed through a routine, scheduled, disposal plan using a garbage (solid waste) haulers. Waste, such as wood, metal, rubble, will be generated during the construction of the new infrastructure for residential development and will be managed by the contractor selected for the project. Construction debris will temporarily be stored on-site in roll-off dumpsters prior to being hauled to an MPCA permitted solid waste disposal facility. When feasible, construction waste may be recycled.

c. Project related use/storage of hazardous materials - Describe chemicals/hazardous materials used/stored during construction and/or operation of the project including method of storage. Indicate the number, location and size of any above or below ground tanks to store petroleum or other materials. Discuss potential environmental effects from accidental spill or release of hazardous materials. Identify measures to avoid, minimize or mitigate adverse effects from the use/storage of chemicals/hazardous materials including source reduction and recycling. Include development of a spill prevention plan.

There will be no project related storage of hazardous materials. Once constructed, the site will be a 115-lot single family home residential development.

d. Project related generation/storage of hazardous wastes - Describe hazardous wastes generated/stored during construction and/or operation of the project. Indicate method of disposal. Discuss potential environmental effects from hazardous waste handling, storage, and disposal. Identify measures to avoid, minimize or mitigate adverse effects from the generation/storage of hazardous waste including source reduction and recycling.

The project is a proposed residential development and does not include commercial or industrial uses. There is no anticipated project-related generation or storage of hazardous wastes.

13. Fish, wildlife, plant communities, and sensitive ecological resources (rare features):
   a. Describe fish and wildlife resources as well as habitats and vegetation on or in near the site.

The project site is currently agricultural and surrounded by both agricultural and low density rural residential properties. The immediate vicinity of the project site, though residential, is relatively less developed than the greater surrounding area, including the cities of Oak Park Heights and Stillwater. The low density residential development with partial agricultural use
is likely to provide more wildlife habitat than a traditionally developed, medium to high density residential area. There are several waterbodies within Baytown Township which share a moderate amount of habitat connectivity through greenspace.

A review of the MDNR parks, natural lands, and wildlife areas indicates the property directly north of the project site is Bayport WMA, a 452-acre parcel managed for a variety of woodland and grassland wildlife. The site is 72% grassland/aggregate land, 27% woodland, and a small percentage of wetland (MDNR, 2018). The area supports hunting and recreational uses and is known to contain species such as deer, small game, songbirds, and fowl.

Generally, the availability of wildlife habitat within the area is moderate to high given the low-density development in the immediate project vicinity, the proximity to a MDNR WMA, and the location in respect to the St. Croix River corridor. Though agricultural, the project site is adjacent to forested communities and wetland complexes that may provide habitat or may serve as a wildlife corridor for movement between patches of habitat. The presence of wetlands and unfarmed areas on the project site likely supports wildlife similar to that of a park, providing a small area of habitat for deer, migratory waterfowl, birds, and other wildlife found in a developed area. Mature trees on the property also provide refuge for birds and small mammals.

b. Describe rare features such as state-listed (endangered, threatened or special concern) species, native plant communities, Minnesota County Biological Survey Sites of Biodiversity Significance, and other sensitive ecological resources on or within close proximity to the site. Provide the license agreement number (LA-_____) and/or correspondence number (ERDB _20180325______) from which the data were obtained and attach the Natural Heritage letter from the DNR. Indicate if any additional habitat or species survey work has been conducted within the site and describe the results.

The MDNR was contacted to determine if rare or endangered plant or animal species or sensitive resources or habitats are present within a one-mile radius of the project site. A query of the National Heritage Information System (NHIS) was completed in February 2018 and can be found in Attachment 2. Results of the query indicate two state listed species of concern, one state listed threatened species, and one federally listed species may have been documented within the vicinity of the project site. The three state listed species include the red-shouldered hawk (Buteo lineatus), Leonard’s skipper (Hesperia leonardus), and Blanding’s turtle (Emydoidea blandingii). The fourth species included in the query results was the rusty patched bumblebee (Bombus affinis), listed as federally endangered.

Red-shouldered hawks, a state listed species of special concern, have been documented during the breeding season within a one-mile radius of the project site. Red-shouldered hawks use contiguous forested habitat interspersed with wetlands and lowland woods for nesting habitat and travel corridors. The project site has limited forest habitat along the western boundaries and in small windbreaks throughout but is primarily agricultural and does not contain extensive forested lands. A biologist will be contracted by the project proposer to conduct preconstruction surveys for red-shouldered hawk nests on the project site. If nests are found on the site the locations will be recorded via GPS and reported to the MDNR following the guidance for the species.
The Leonard’s skipper, a state listed species of concern, has been documented within a mile of the project site. The Leonard’s skipper relies on native prairie habitats. The loss of native dry sand prairie in Minnesota has caused a significant decline in population. The project site contains two primary tracts of grassland. It is not known if these areas are sufficient habitat for the Leonard’s skipper or if they are native grassland habitat as much of this property is historically farmed since the 1930’s. A biologist will be contracted by the project proposer to conduct assessments of the grassland areas on the project site during preconstruction surveys to determine if suitable prairie habitat for the Leonard’s skipper is present on the project site.

Blanding’s turtle, listed as a threatened species within Minnesota, has been documented within a one-mile radius of the project site and may potentially use wetlands within the project area as habitat. The project site is presently a mix of agricultural, wetland, grassland, and forested land. Blanding’s turtle requires vernal pool habitats for breeding and feeding and may travel up to a mile to locate suitable habitat. Wetland complexes with adjacent sandy habitat are required to support the species for nesting sites. Nesting occurs in sparsely vegetated sandy uplands in proximity to wetland complexes with shallow aquatic habitat. The wetland communities and forested habitat within the project site are potential suitable habitat for Blanding’s turtles.

As indicated in the NHIS query letter, the US Fish and Wildlife Service (USFWS) Section 10(a)(1)(b) Guidance for screening and evaluation of projects was consulted to determine the potential for rusty patched bumblebee within the project area. The USFWS guidance directs that non-Federal project proponents assess whether their project is within a rusty patched bumblebee high potential zone to determine next steps. The project site is within a potential dispersal zone, not a high potential zone for the rusty patched bumblebee, therefore no further action is needed. The USFWS Information for Planning and Consultation (IPaC) website was assessed for the project area. There were no results within the IPaC database for the rusty patched bumblebee near the project site, indicating that it is unlikely to be present within the project area.

c. Discuss how the identified fish, wildlife, plant communities, rare features and ecosystems may be affected by the project. Include a discussion on introduction and spread of invasive species from the project construction and operation. Separately discuss effects to known threatened and endangered species.

Many areas of the project site have been previously disturbed from prior agricultural practices including cultivated crops. The proposed development plan will maximize open space in the residential development. The proposed layout will provide acres of open space including 3.4 acres of orchards, which is approximately 50% of the total development area. The proposed layout was developed to avoid construction and disturbance to wetland basins on the project site, protecting these habitat areas for species in the area.

In general, areas that are currently vegetated will experience grading and excavation for the project construction. Grading activities disturb soils, which has the potential to provide a seed bed for noxious weeds. The revegetation practices at the project site will be managed using BMPs, planting of approved native seed mixes, and other measures to control the spread of undesirable vegetation. An increase in invasive species is not anticipated to result from the project. Tree removal will be required for the development
of several lots which may potentially affect habitat for the Red-shouldered hawk. Wetlands on the project site will be avoided as much as possible and protected during the construction period, with some tree removal that may occur along the fringe of forested wetland communities.

Grassland areas may be impacted during construction. The community diversity and native status of these grassland areas is currently unknown and therefore it is undetermined whether these areas contain suitable habitat for the Leonard’s skipper. Preconstruction surveys for native prairie habitat will be conducted to determine if suitable habitat for the species is present. Disturbed areas that are part of the open space areas for the development will be seeded with a standard state native upland seed mix (such as a MnDOT approved native seed mix) to replace grassland habitat on the project site that is disturbed during construction. The open space areas planted as orchards will also include native grass seed around the trees.

d. Identify measures that will be taken to avoid, minimize, or mitigate adverse effects to fish, wildlife, plant communities, and sensitive ecological resources.

Impacts to fish, wildlife, plant communities, and sensitive ecological resources will be minimized as much as possible during project. The project proposes to develop less than half of the available area into homes, with roughly 50% of the development acreage remaining as open space. There are no direct impacts proposed to wetlands within the project site. Wetlands will be buffered with a native prairie upland buffer and protected in the final site design, which will provide native upland communities within proposed open space. Disturbed areas that are part of the open space areas within the development will be planted with an approved MnDOT seed mix for native upland. Approximately 3.4 acres of the open space is being proposed as an apple orchard, which will also include grasses around the trees.

In order to avoid and minimize impacts to Blanding’s turtles, several measures will be implemented during the construction process. These measures include posting of fliers notifying construction workers of the potential presence of the species, the installation of exclusion fencing at the extent of construction and construction traffic areas, erosion control devices to prevent sediment from entering the wetland, and inspections for turtles within the construction area, especially prior to backfilling excavation areas. During site setup and exclusion fence installation, work areas will be inspected for turtles. The MDNR recommended conservation guidance will be followed, as feasible, for Blanding’s turtle avoidance practices during construction.

Permanent avoidance measures to protect the Blanding’s turtle that will be implemented at the project site include revegetating with native grasses and forbs, connecting large wetlands under roads with culverts 36” in size, and using 4-inch road curbs at a 3:1 slope. The MDNR recommendations are provided in Attachment 2. Site grading for roads, utilities, and home sites will start in the fall of 2018 outside of the nesting period for the turtle, which would minimize disturbance to the species. No wetlands will be impacted and buffers will be added to ensure the post-development condition has habitat for the species.

To avoid potential impacts to red-shouldered hawks, forested areas will be surveyed for active nests from April through July of 2018 with particular focus on trees that will be
removed. If nests are identified, the MDNR will be contacted for further guidance. Disturbance near any identified nests will be avoided during the critical nesting time in April and May. Currently, construction is proposed for fall and winter of 2018-2019 and is not anticipated to occur during the nesting season. The MDNR recommended conservation guidance will be followed for tree removal activities. Limited disturbance of habitat will occur, minimizing the potential for impacts to rare species.

Pesticide use in orchard areas of the development will be applied as per guidance from the University of Minnesota Extension program to reduce potential exposure to the rusty patched bumble bee and other important pollinators. Bees and pollinators are a critical factor for successful orchards and precautions will be taken to prevent loss of pollinators, such as avoiding application during the blooming season, spot treating of pesticides only when necessary, and by avoiding the use of highly toxic systemic, neonicotinoid insecticides.

14. Historic properties:
Describe any historic structures, archeological sites, and/or traditional cultural properties on or in close proximity to the site. Include: 1) historic designations, 2) known artifact areas, and 3) architectural features. Attach letter received from the State Historic Preservation Office (SHPO). Discuss any anticipated effects to historic properties during project construction and operation. Identify measures that will be taken to avoid, minimize, or mitigate adverse effects to historic properties.

The Minnesota State Historic Preservation Office (SHPO) was consulted to identify any archaeological and historic resources in the project area. A report generated by SHPO (Attachment 3) from a search conducted of the Minnesota Archaeological Inventory and Historic Structures Inventory did not identify any archaeological sites or historical structures within the project area. The only structure that will be removed from the property is a farmstead, which is not listed on the SHPO inventory of archaeological or historic structures.

15. Visual:
Describe any scenic views or vistas on or near the project site. Describe any project related visual effects such as vapor plumes or glare from intense lights. Discuss the potential visual effects from the project. Identify any measures to avoid, minimize, or mitigate visual effects.

The project site is currently a rural area consisting mainly of rural residential uses but also includes a school, a correctional facility, open space areas, and agricultural areas. The project will result in ground disturbance during construction and will replace the rural area with infrastructure for the development of 115 housing lots. Once the infrastructure is in place, the construction of houses will follow as market conditions allow. Impacts from the proposed project will be the addition of a new residential development into an area that was previously agriculture or undeveloped. Additionally, the development will add lighting from street lights and residential lighting to an area that currently has limited artificial lighting.
The residential project is being proposed as a cluster development to preserve open space. Just over half of the project site will remain open after the home sites are developed and these open areas will include a grassland and forest areas, as well as 3.4 acres of orchards. The wetlands on the project site are also being avoided. The preservation of the open space within the development will help to preserve the rural nature of the site and ensure the new residential development is consistent with the adjacent rural residential areas adjacent to the project site. Mitigation measures will include landscaping of the project site, individual home sites, and creating and/or maintaining vegetative buffers.

16. Air:

a. Stationary source emissions - Describe the type, sources, quantities and compositions of any emissions from stationary sources such as boilers or exhaust stacks. Include any hazardous air pollutants, criteria pollutants, and any greenhouse gases. Discuss effects to air quality including any sensitive receptors, human health or applicable regulatory criteria. Include a discussion of any methods used assess the project’s effect on air quality and the results of that assessment. Identify pollution control equipment and other measures that will be taken to avoid, minimize, or mitigate adverse effects from stationary source emissions.

Heating and cooling systems for occupied residences will be sources of stationary source emissions once the project is fully built out. Natural gas service will be available to the development through Xcel Energy. Emissions from the heating and cooling units will be similar to other residences in the surrounding area. These systems are not anticipated to result in significant air quality impacts.

b. Vehicle emissions - Describe the effect of the project’s traffic generation on air emissions. Discuss the project’s vehicle-related emissions effect on air quality. Identify measures (e.g. traffic operational improvements, diesel idling minimization plan) that will be taken to minimize or mitigate vehicle-related emissions.

The project is expected to result in an overall negligible impact to air quality. Due to this negligible impact, air quality monitoring is not proposed at this time. Air quality mitigation measures are also not proposed.

During construction of the subdivision and the construction of homes, heavy equipment, such as bobcats, trucks, and other excavating equipment, will be used during construction of the project. Construction will cause temporary increase in exhaust emissions from the construction equipment in the immediate area surrounding construction activities. These impacts are anticipated to also have a negligible impact to air quality. To also minimize impacts, contractors will be required to maintain equipment properly, including using any emissions controls, as specified by the manufacturer.

c. Dust and odors - Describe sources, characteristics, duration, quantities, and intensity of dust and odors generated during project construction and operation. (Fugitive dust may be discussed under item 16a). Discuss the effect of dust and odors in the vicinity of the project including nearby sensitive receptors and quality of life. Identify measures that will be taken to minimize or mitigate the effects of dust and odors.
Construction may cause temporary odor and dust impacts from construction equipment diesel fuel exhaust. None of these impacts are anticipated to be significant. The location of the equipment along with wind and weather conditions will determine the extent of temporary impacts to surrounding areas. The surrounding area is mainly rural residential land uses with some agricultural lands to the west. Construction BMPs will be used including the watering of dry, exposed soils to reduce dust. Properly maintain equipment will reduce exhaust odors. Impacts from dust and odors during project construction is anticipated to be minimal.

Upon project completion, noticeable dust or odor increases are not anticipated. Paved roads and the use of passenger cars and light-duty trucks will result in minimal dust and exhaust odors.

17. Noise
Describe sources, characteristics, duration, quantities, and intensity of noise generated during project construction and operation. Discuss the effect of noise in the vicinity of the project including 1) existing noise levels/sources in the area, 2) nearby sensitive receptors, 3) conformance to state noise standards, and 4) quality of life. Identify measures that will be taken to minimize or mitigate the effects of noise.

1) Existing noise levels/sources in the area:

The project site is located in a rural part of the Baytown Township. The project site is surrounded on the east, south, and west by rural, single family residential homes. The Bayport WMA borders the project site to the north. There are also agricultural fields, the Oak Park Heights Correctional Facility, and the St Croix Preparatory Academy in proximity to the site. Typical sources of noise in this area include traffic along local roadways and some use of agricultural equipment. Agricultural noise is generated by tractors and farm machinery from surrounding fields during seasonal times of the year. As of 2016, the average annual daily traffic (AADT) along Osgood Avenue is 8,200 vehicles per day and for Northbrook Boulevard is 1,800 vehicles per day.

2) Nearby sensitive receptors:

Surrounding residential homesteads are located immediately to the east, south, and west of the project site. The St Croix Preparatory Academy is located approximately one-half mile south east of the project site.

3) Conformance to state noise standards:

The project will contribute to existing noise in the area during construction and upon completion. Construction noise will be temporary and occur over the estimated construction timeframe of four years. Residences near the project site may experience elevated noise levels at various times during construction compared to existing noise levels. These construction noise levels will be consistent with other residential development and housing construction, including use of earthmoving equipment, large machinery, trucks, hydraulic tools, and other equipment necessary for building. Grading and excavation will require
heavy equipment, such as bobcats, backhoes, trucks, and other excavating equipment.

The project will conform to the noise standards to minimize construction noise disturbances. These noise levels will also be consistent with state requirements and not exceed state standards. To further minimize potential noise impacts, contractors will be required to maintain equipment properly, including using noise controls, such as mufflers, as specified by the manufacturer.

Noise impacts from the completed project at full build out will likely include vehicle traffic noise entering and exiting the development and residential noises such as children playing outside and residential maintenance including lawn mowers. This noise will be similar to existing conditions, which is currently mainly from other residential properties, roadway traffic, and some agricultural equipment. Noise generated from full build out of the project site will be consistent with surrounding and adjacent land uses.

4) Quality of life:

Noise impacts from the project will not exceed state noise standards. The areas surrounding the project site are not anticipated to be significantly impacted by noise as noise will be consistent with the adjacent rural residential land uses and meet state noise standards during construction and completion of the project.

18. Transportation

a. Describe traffic-related aspects of project construction and operation. Include: 1) existing and proposed additional parking spaces, 2) estimated total average daily traffic generated, 3) estimated maximum peak hour traffic generated and time of occurrence, 4) indicate source of trip generation rates used in the estimates, and 5) availability of transit and/or other alternative transportation modes.

Under existing conditions, the project site is undeveloped and contains no parking spaces. The proposed project consists of 115 single family dwelling units with parking provided on each lot. Trip generation estimates were developed using data presented in the Institute of Transportation Engineers’ (ITE) *Trip Generation*, Tenth Edition. The proposed project is estimated to generate 1,086 weekday daily trips. The peak hour trip generation is estimated at 114 trips, which occurs from 4:30 to 5:30 p.m.

Metro Transit provides transit service between Stillwater and St. Paul on route 294. The nearest stop is located approximately 1.5 miles north of the project site.
b. Discuss the effect on traffic congestion on affected roads and describe any traffic improvements necessary. The analysis must discuss the project’s impact on the regional transportation system. If the peak hour traffic generated exceeds 250 vehicles or the total daily trips exceeds 2,500, a traffic impact study must be prepared as part of the EAW. Use the format and procedures described in the Minnesota Department of Transportation’s Access Management Manual, Chapter 5 (available at: http://www.dot.state.mn.us/accessmanagement/resources.html) or a similar local guidance,

Access for the project will be provided on Northbrook Boulevard N. in the northwest corner of the site and on Osgood Avenue N. (CSAH 24) in the southeast corner of the site. Both roadways are two lane rural section roadways. Washington County is currently planning to realign 47th Street N. (CSAH 14) east of Osgood Avenue N. to increase the spacing between the intersection and the railroad tracks. The west leg of the relocated intersection will serve as access for the proposed project. The reconstructed intersection will include left and right turn lanes on all approaches.

T.H. 36 is located approximately 1.5 miles north of the project site. T.H. 36 was recently reconstructed to accommodate the new St. Croix river bridge. The intersection of T.H. 36/Osgood Avenue N. and T.H. 36/Oakgreen Avenue N. are traffic signal controlled with left and right turn lanes on all approaches.

Information from MnDOT indicates year 2016 AADT volumes of 26,500 on T.H. 36, 8,200 on Osgood Avenue N., and 1,800 on Northbrook Boulevard N.

The increase in traffic from the site is not expected to result in significant changes in traffic operations on the surrounding roadway system. The reconstruction of the Osgood Avenue N./47th Street N. intersection will include left and right turn lanes to accommodate trips generated by the proposed project. Improvements to the regional transportation system are not necessary to accommodate the proposed project. A traffic impact study was not prepared because less than 250 peak hour and 2,500 daily trips are generated by the project.

c. Identify measures that will be taken to minimize or mitigate project related transportation effects.

Washington County has developed plans for a realignment of the intersection of Osgood Avenue N./47th Street N, which will include incorporation of a new site access to the proposed project. This intersection reconstruction will include turn lanes to accommodate the proposed development. The project proposer will continue to coordinate with Washington County as needed to ensure the site access and the intersection reconstruction project are properly aligned and coordinated. Due to the limited amount of traffic related to the proposed project, no additional traffic improvements or mitigation are required.

19. Cumulative potential effects: (Preparers can leave this item blank if cumulative potential effects are addressed under the applicable EAW Items)

a. Describe the geographic scales and timeframes of the project related environmental effects that could combine with other environmental effects resulting in cumulative potential effects.
The project will occur within Baytown Township, Minnesota on an approximately 223-acre site. Project construction is estimated to be completed by 2022. As residences are built and occupied there are several impacts that will likely occur primarily related to traffic, land use, wildlife habitat, and stormwater runoff.

The project will generate additional traffic from the new homes that will be constructed and occupied. The project proposer has been working with Washington County to ensure that the new access point to the development at Osgood Avenue is properly coordinated with the reconstruction of the intersection of Osgood Avenue/47th Street. The reconstruction of the Osgood Avenue N./47th Street N. intersection will include left and right turn lanes to accommodate trips generated by the proposed project. The development will also have a second access from Northbrook Boulevard which will help to split up traffic accessing the development between the two access points.

The project will result in additional impervious surface that has the potential to increase stormwater runoff if not managed properly. The project proposes to maintain existing wetlands and create 15 stormwater ponds as well as 12 infiltration basins for stormwater management onsite. The project site does not currently have stormwater management.

The project is being proposed as an open space development. It will convert agricultural lands and grasslands to residential development while preserving open space, which will include 3.4 acres of orchards areas. The proposed residential development will be consistent with the other single-family estate type developments in the area of the project site to the west, south, and southeast. The Baytown Township Board approved to reinstate the open space development ordinance at the January 2018 board meeting. After the open space ordinance is reinstated, The Orchards at Cahanes Farms development will require a CUP from the Township.

The project will convert the current lands at the site to uses for the residential development including new homes and roadways. This will alter habitat conditions on the project site including clearing of some trees and impacts to grassland areas. However, the site is being proposed as an open space development. The open areas within the project site will be seeded with native seed mixes to replace the grassland areas that are disturbed during construction. The open space areas will include 3.4 acres of orchard trees. Wetland areas will not be impacted during construction and the development will include upland buffers around wetland areas to protect the basins and provide additional habitat to species. Measures will be followed by the project proposer to avoid and minimize impacts to the Blanding’s turtle. Additionally, preconstruction surveys will be conducted on the site to determine if suitable habitat is present for the red shouldered hawk or the Leonard’s skipper.

b. Describe any reasonably foreseeable future projects (for which a basis of expectation has been laid) that may interact with environmental effects of the proposed project within the geographic scales and timeframes identified above.

There are no known or reasonably foreseeable future projects that would contribute to the cumulative impacts of the proposed residential development. The Miller Farms open space development is located approximately 1.5 miles to the southeast of The Orchards at Cahanes Farms site. This development has been underway for several years and is
currently beginning the final phase. The Orchards at Cahanes Farms project site is
bordered by adjacent developed residential lands as well as MDNR wildlife protection
area to the north. There are no plans for development to these adjacent areas. The
proposed Orchards at Cahanes Farms is consistent with other developments in the area
of Baytown and will not result in significant cumulative impacts beyond those already
described within this EAW.

20. Other potential environmental effects: If the project may cause any additional environmental
effects not addressed by items 1 to 19, describe the effects here, discuss the how the environment will
be affected, and identify measures that will be taken to minimize and mitigate these effects.

No other potential environmental effects have been identified beyond those already
discussed in this EAW.

RGU CERTIFICATION. (The Environmental Quality Board will only accept SIGNED Environmental
Assessment Worksheets for public notice in the EQB Monitor.)

I hereby certify that:

- The information contained in this document is accurate and complete to the best of my
knowledge.
- The EAW describes the complete project; there are no other projects, stages or components other
than those described in this document, which are related to the project as connected actions or
phased actions, as defined at Minnesota Rules, parts 4410.0200, subparts 9c and 60, respectively.
- Copies of this EAW are being sent to the entire EQB distribution list.

Signature ________________________________  Date _______________________________

Title ________________________________
Figures

Figure 1: Site Location Map
Figure 2: Site Aerial Photo
Figure 3: Site Development Plan
Figure 4: Pre-Development Land Cover
Figure 5: Post-Development Land Cover
Figure 6: Prime Farmland
Figure 7: Baytown Township 2013 Zoning Map
Figure 8: Wells and Geologic Hazards
Figure 9: Impaired Waters and Public Waters
Figure 10: Delineated Wetlands
Project Location

Stillwater 7.5 Minute Quadrangle (USGS: 2016)
Hudson 7.5 Minute Quadrangle (USGS: 2016)

- Polk County
- Anoka County
- Ramsey County
- Dakota County
- Saint Croix County
- Pierce County
Figure 3 - Site Development Plan
ORCHARDS AT CAHANES FARM
Prime Farmlands

Legend

Property Boundary
Washington County Soil Survey
- All areas are prime farmland
- Farmland of statewide importance
- Prime farmland if drained
- Not prime farmland

Path: L:\B7350000\MXD\Prime Farmland.mxd
Date: 3/9/2018 Time: 11:58:47 AM User: KacHD0606
Figure 7 - Baytown Township 2013 Zoning Map
Figure 8

Legend
- Property Boundary
- One Mile Radius
- Known Geologic Hazards
  - Sinkholes
- County Well Index
  - Public Supply Well
  - Domestic Well

ORCHARDS AT CAHANES FARM
Wells and Geologic Hazards

Path: L:1873500990060Wells and Geologic Hazards.mxd
Date: 3/9/2018  Time: 11:46:11 AM  User: KacHD0606
ORCHARDS AT CAHANES FARM
Delineated Wetlands

Legend

- Property Boundary
- Onsite Delineated Wetlands
- National Wetland Inventory

MAR 2018
Figure 10
Phase I ESA
Phase I Environmental Site Assessment

Agricultural and Rural Residential Property
4620 Osgood Avenue North, 4867 and 4961 Northbrook Boulevard North
Stillwater, Minnesota

Prepared for:
Croix Capital Group, LLC
PO Box 295
Stillwater, MN 55082

Prepared by:
WENCK
1800 Pioneer Creek Center
Maple Plain, MN 55359
Phone: 763-479-4200
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B. GeoSearch Radius Report
C. City/County Information
D. Aerial Photographs
E. City Directories
F. Historical Maps
G. Fire Insurance Map Research Document
H. Subject Property Photographs
I. Research Summary
1.0 Summary

Wenck Associates, Inc. (Wenck) was authorized by Mr. Chris Aamodt of Croix Capital Group, LLC (Croix Capital Group) to conduct this Phase I Environmental Site Assessment (ESA) of the property and improvements located at 4620 Osgood Avenue North, 4867 and 4961 Northbrook Boulevard North, Stillwater, Washington County, Minnesota (the Subject Property). The Subject Property consists of 224 acres occupied by a farmstead with a dwelling and several structures on its east portion, a dwelling and storage building on its northwest portion, agricultural cropland, wooded areas, and low, wet areas. Access to the Subject Property is from Osgood Avenue North and Northbrook Boulevard North. The Subject Property location is depicted in Figure 1. A Site Detail Map of the Subject Property is included as Figure 2.

This ESA was conducted in accordance with the American Society for Testing and Materials (ASTM) Phase I Environmental Site Assessment Process, Designation E-1527-13 (ASTM Phase I Standard) and satisfies standards and practices set forth in 40 CFR Part 312 – Standards for Conducting All Appropriate Inquiry (AAI Rule) for the purposes of meeting the all appropriate inquiries provisions necessary to qualify for certain landowner liability protections under the Comprehensive Environmental Response, Compensation and Liability Act, 42 U.S.C. § 9601(35)(B).

The conclusions contained in this report have been made to assist Croix Capital Group, LLC in evaluating environmental conditions at the present time at the Subject Property.

The ESA has identified the following recognized environmental condition (REC) with respect to the Subject Property:

▲ The presence of an unused and empty 1,000-gallon UST at the Subject Property is a REC. It is Wenck’s opinion that the UST should be removed from the Subject Property.

This ESA has identified no evidence of recognized environmental conditions (RECs), controlled recognized environmental conditions (CRECs) or historical recognized environmental conditions (HRECs) in connection with the Subject Property.

Although not considered to represent RECs, CRECs or HRECs for the Subject Property, the following items of business-related environmental risk were identified in connection with the Subject Property:

▲ The presence of four water supply wells on the Subject Property (two of which are not in use) is an item of business environmental risk for the Subject Property. It is Wenck’s opinion that each water supply well should either be put into use, sealed by licensed well contractor, or subjected to the terms of an annual well maintenance permit issued by the Minnesota Department of Health.

▲ The presence of an unused cistern pit on the Subject Property is an item of business environmental risk. It is Wenck’s opinion that the unused cistern pit should be filled and sealed.

▲ The presence of various items in outdoor storage at the Subject Property is an item of business environmental risk for the Subject Property. It is Wenck’s opinion that the items should be removed from the Subject Property and managed appropriately.
2.0 Introduction

2.1 PURPOSE

Wenck was authorized by Croix Capital Group to conduct this Phase I ESA of the property and improvements located at 4620 Osgood Avenue North, 4867 and 4961 Northbrook Boulevard North, Stillwater, Washington County, Minnesota (the Subject Property). The Subject Property consists of 224 acres occupied by a farmstead with a dwelling and several structures on its east portion, a dwelling and storage building on its northwest portion, agricultural cropland, wooded areas, and low, wet areas. Access to the Subject Property is from Osgood Avenue North and Northbrook Boulevard North. The Subject Property location is depicted in Figure 1. A Site Detail Map of the Subject Property is included as Figure 2.

The conclusions contained in this report have been made to assist Croix Capital Group in evaluating environmental conditions at the present time at the Subject Property. In addition, the report is intended to satisfy the requirements of “all appropriate inquiry...consistent with good commercial or customary practice” referenced in the Comprehensive Environmental Response, Compensation and Liability Act, 42 U.S.C. § 9601(35)(B).

2.2 SCOPE

This ESA was prepared in accordance with the ASTM Phase I Standard and AAI Rule to identify, to the extent feasible and in accordance with the processes described herein: recognized environmental conditions, controlled recognized environmental conditions, and historical recognized environmental conditions in connection with the Subject Property.

As defined in ASTM E 1527-13, the term recognized environmental condition (REC) means “the presence or likely presence of any hazardous substances or petroleum products in, on or at a property: (1) due to a release to the environment; (2) under conditions of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment.”

As defined in ASTM E1527-13, the term controlled recognized environmental condition (CREC) means “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.”

As defined in ASTM E1527-13, the term historical recognized environmental condition (HREC) means “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.”

A summary of the general scope of work for this project is described in the following tasks:

- Task I. Records Retrieval and Review of Records: Wenck obtained publicly available, practically reviewable and reasonably ascertainable federal, state, county and city information about the Subject Property and other properties within minimum established search distances of the Subject Property. These sources were searched for any information about RECs, CRECs, HRECs or business-related environmental
risks relative to the Subject Property. This search included a review of Superfund sites; waste treatment, storage and disposal facilities regulated under RCRA; spills or discharges of hazardous substances, toxic materials, or petroleum products; and known or recorded landfills; and/or well databases.

▲ **Task II. Site Reconnaissance:** Wenck visually inspected the Subject Property to evaluate the Subject Property for any RECs, CRECs, HRECs and business-related environmental risks. The structures and grounds of the Subject Property were observed for filling, subsidence, unusual land or surface forms, colorations, odors, indications of dumping, and evidence of suspect environmental features on the Subject Property such as tanks, drains, drywells, etc. Observations pertaining to adjacent property use were also recorded where such observations pertained to RECs, CRECs, HRECs or business-related environmental risks relative to the Subject Property.

▲ **Task III. Interviews of People with Knowledge of the Subject Property:** Wenck interviewed people with knowledge of the history of the Subject Property and of the surrounding properties. Interviews were completed in order to obtain information pertaining to RECs, CRECs or HRECs relative to the Subject Property. Interviewees included the Subject Property owner(s) and occupant(s), as well as local government officials.

Data gathered in the course of performing the above three tasks was used in concert to determine if information from one source indicated the need for additional information from another source.

▲ **Task IV. Reporting:** Wenck completed this Phase I ESA by combining the information retrieved through data searches with the observations that were made during the Subject Property reconnaissance and interviews. Photographs were taken to document the overall status and current use of the Subject Property and specific areas of concern.

Any deviations from the scope described in the ASTM Phase I Standard are identified in Section 2.3.

### 2.3 DEVIATIONS

No intentional deviations from the ASTM Phase I Standard were made in preparing this report.

### 2.4 LIMITATIONS AND EXCEPTIONS

The results of this study, performed by Wenck, are based on the scope of work defined in Section 2.2, subject to any project-specific limitations or project-specific additional non-scope considerations described herein.

As is the case with any investigation of finite scope, this review is intended to reduce, but cannot eliminate, the uncertainty regarding the potential for RECs, CRECs or HRECs in connection with the Subject Property. Therefore, the possibility of the presence of some localized substances that may be classified as hazardous cannot be ruled out completely. However, it is Wenck’s opinion that the conditions observed at the Subject Property are representative of existing conditions at the time of the site reconnaissance.
2.5 SIGNIFICANT ASSUMPTIONS

Wenck assumes that Croix Capital Group has provided accurate information that will assist Wenck in determining appropriate inquiry, including but not limited to actual knowledge, previously prepared reports, environmental cleanup liens, and title review information. In addition, Wenck assumes, for the purposes of the site reconnaissance, adequate information has been provided to accurately establish the physical boundaries of the real property being evaluated.

2.6 SPECIAL TERMS AND CONDITIONS

The purpose of this report is to aid in the environmental assessment of the Subject Property and not to evaluate the structural condition of buildings or other features of the Subject Property.

Wenck has performed its work in a manner consistent with the care and skill ordinarily exercised by members of the environmental profession. The conclusions contained in this report represent our professional opinions. These opinions were arrived at in accordance with currently accepted engineering practices at this time and location. Wenck does not offer any form of warranty or guarantee that the Subject Property contains no hazardous substances, pollutants or contaminants.

Wenck assumes no responsibility for the accuracy of information that was obtained from other sources, including, without limitation, regulatory and government agencies, persons knowledgeable about the Subject Property, persons knowledgeable about adjacent properties and vendors of public practice.

2.7 USER RELIANCE

This report has been prepared solely for the information and use of Croix Capital Group, LLC. Others wishing to rely on the findings of this report, not having a contractual relationship with Wenck, do so without permission and at their own risk. Our professional recommendations made to the addressee(s) are exclusive to that party’s disclosed intended or proposed consideration with respect to the Subject Property at the present time.
# 3.0 Site Description

The Subject Property is located in an agricultural and rural residential area in the City of Stillwater, Minnesota.

## Site Address/Location

<table>
<thead>
<tr>
<th><strong>Addresses:</strong> 4620 Osgood Avenue North, 4867 and 4961 Northbrook Boulevard North</th>
<th><strong>City:</strong> Stillwater</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>County:</strong> Washington</td>
<td><strong>State:</strong> Minnesota</td>
</tr>
<tr>
<td><strong>Township:</strong> 29 North</td>
<td><strong>Range:</strong> 20 West of the 4th Principal Meridian</td>
</tr>
<tr>
<td><strong>Sections:</strong> Portions of Sections 8 and 9</td>
<td></td>
</tr>
</tbody>
</table>

## Property Information

- **Size:** 224 acres
- **Property Identification Numbers:**
  - 08.029.20.11.0010, 08.029.20.11.0011, 08.029.20.11.0012, 09.029.20.12.0002, 09.029.20.13.0001, 09.029.20.21.0001 and 09.029.20.31.0001

## Improvements

- The Subject Property has a dwelling, dairy barn, two Quonset huts (one of which has an addition), a former well house, a lean-to, and three corn cribs on its southeast portion, and a dwelling and storage building on its northwest portion.

## Building Information

- **Size:**
  - SE dwelling: 1,350 square feet 1958
  - Dairy barn: 5,800 square feet Prior to 1938
  - S Quonset hut: 1,200 square feet 1980-1986
  - N Quonset hut: 4,100 square feet 1958
  - Former well house: 200 square feet Prior to 1964
  - NW dwelling: 3,275 square feet 2000
  - NW storage: 1,500 square feet 2000
- **Description:**
  - Each structure on the Subject Property is “stick built,” meaning wood-framed and constructed of dimension lumber. The dwellings have shingled roofs, and the Quonset huts, former well house and dairy barn have tin roofs. Two of the corn cribs appeared to be in need of repair at the time of the site reconnaissance. The dwelling and storage building on the northwest portion of the Subject Property are of more recent construction, and the northwest dwelling contains two levels and a basement level.

## Use of the Property

- **Current Use:**
  - The majority of the Subject Property is in agricultural use for row crops. The northwest and southeast portions of the Subject Property are in residential use. The southwest portion of the Subject Property was recently used as a dairy farm.
- **Past Use:**
According to reviewed sources of information, the Subject Property has been in agricultural and rural residential use since at least 1938. A historical dwelling was located in the southeast portion of the Subject Property from prior to 1938 until sometime between 1964 and 1970, when the historical dwelling was burned down by arsons. According to Mr. Douglas Cahanes, the majority of the burned debris was subsequently removed from the Subject Property, but some scrap metal, remnants of a stone foundation, a non-functioning water supply well, and a cistern pit are still located in this general area. The currently existing dwelling was reportedly constructed elsewhere and brought to the southeast portion of the Subject Property in 1958. Ancillary structures were constructed near the dwelling from 1958 through 1986. During an auction that took place in April 2017, two historical storage buildings and several grain bins were sold and removed from the southeast portion of the Subject Property. The northwest portion of the Subject Property contained a historical farmstead from at least 1938 until the historical dwelling was razed and removed from the Subject Property, and the currently existing dwelling and storage building were constructed in 2000.

Ownership and Operation of the Property

Current Ownership & Operation:
The Subject Property is owned by Louis & Alice Cahanes Family LP, Washington County, Wendell & Ruth Pieper, Ronald & Ann Piela, and Northfork Investments LLC. The Subject Property is currently occupied by rural residential occupants with portions in agricultural use and portions in use as storage space.

The Subject Property location is depicted in Figure 1. A Site Detail Map showing the Subject Property is provided in Figure 2.

3.1 CURRENT USE OF ADJOINING PROPERTIES

The following land uses were noted on adjoining properties:

<table>
<thead>
<tr>
<th>Direction</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>North</td>
<td>Residential property and the Bayport Wildlife Management Area</td>
</tr>
<tr>
<td>South</td>
<td>Railway and residential property</td>
</tr>
<tr>
<td>East</td>
<td>Osgood Avenue North and residential property</td>
</tr>
<tr>
<td>West</td>
<td>Northbrook Boulevard North and residential property</td>
</tr>
</tbody>
</table>

3.2 PHYSICAL SETTING

3.2.1 Topography

The Subject Property contains rolling hills and ranges in elevation from approximately 875 to 965 feet above mean sea level. Site surface drainage is towards several low, wet areas
on the Subject Property. Historic development may have included grading or filling of the Subject Property to improve the location for construction and drainage.

3.2.2 Geology

Published references describe the surficial geology at the Subject Property as superior lobe deposits of lacustrine sand and silt (Meyer et al., 1990).

Shallow bedrock in the vicinity of the Subject Property consists of the Prairie Du Chien Group. Dolostone in the upper two thirds to half commonly is sandy or oolitic and thin-bedded, and contains thin beds of sandstone or chert (Mossler and Bloomgren, 1990). Depth to bedrock is anticipated to be 75 feet below ground surface (Mossler and Bloomgren, 1990).

3.2.3 Hydrogeology

The general direction of regional groundwater flow in the area of the Subject Property is presumed to be to the east-northeast toward the St. Croix River (Kanivetsky and Cleland, 1990). Local conditions may vary due to surface water features, perched groundwater conditions or artificially created drainage systems. Depth to the water table system is noted to be approximately 100 feet below ground surface (Kanivetsky and Cleland, 1990).
4.0 User Provided Information

4.1 TITLE RECORD INFORMATION

A title commitment record for the Subject Property was not provided to Wenck during preparation of this Phase I ESA, and a title search was not within the scope of this ESA.

4.2 USER QUESTIONNAIRE

User provided information includes a copy of the ASTM User Questionnaire completed by Mr. Chris Aamodt of Croix Capital Group. The following sections include the information obtained from the completed User Questionnaire, which is included in Appendix A.

4.2.1 Environmental Liens or Activity and Use Limitations

No independent review of environmental liens was undertaken by Wenck as a part of this scope of work. No activity and use limitations were disclosed to Wenck during preparation of this ESA.

4.2.2 Specialized Knowledge

No prior assessments were provided to Wenck at the outset of this scope of work. No specialized knowledge was found relevant to this study.

4.2.3 Commonly Known or Reasonably Ascertainable Information

No commonly known or reasonably ascertainable environmental information was found relevant to this study.

4.2.4 Valuation Reduction for Environmental Reasons

No valuation reduction for environmental reasons was disclosed at the outset of this study.

4.3 OWNER, PROPERTY MANAGER AND OCCUPANT INFORMATION

The Subject Property is owned by Louis & Alice Cahanes Family LP, Washington County, Wendell & Ruth Pieper, Ronald & Ann Piela, and Northfork Investments LLC. The Subject Property is currently occupied by rural residential occupants with portions in agricultural use and portions in use as storage space. Mr. Douglas Cahanes provided access and a tour of the Subject Property at the time of the site reconnaissance.

4.4 REASON FOR PERFORMING PHASE I ESA

This Phase I ESA is being performed as a component of due diligence activities and to determine whether RECs, CRECs or HRECs affect the Subject Property.
5.0 Records Review

5.1 STANDARD ENVIRONMENTAL RECORD SOURCES

Wenck requested and reviewed a search of files from federal and state databases from GeoSearch for the Subject Property (the GeoSearch Radius Report). Files were searched from Federal and State environmental records databases within minimum search distances as specified in the ASTM Phase I Standard, and the GeoSearch Radius Report included a more extensive database list than those minimally identified as required by the ASTM Phase I Standard. A summary of the sites identified in the GeoSearch Radius Report are discussed below, along with information regarding the significance of the listing for the Subject Property. The GeoSearch Radius Report, which contains more information regarding database descriptions and search distances, is included in Appendix B.

5.1.1 Subject Property

The Subject Property was identified on the following reviewed regulatory databases in the GeoSearch Radius Report: Concentrated Animal Feeding Operations (CAFO), Feedlot Sites (FEEDLOT), Facility Registry System (FRSMN) and What’s In My Neighborhood (WIMN).

Each database listing refers to the southeast portion of the Subject Property’s use by the Cahanes Brothers Dairy Farm. According to the database report, a CAFO permit was issued in August 2013, and a total of 50 animal units were reported at the Subject Property. It should be noted that all cattle had been sold prior to Wenck’s site visit to the Subject Property, and dairy operations have ceased. According to Mr. Douglas Cahanes, cattle manure was collected in a concrete trench system in the dairy barn that discharged on the east side of the barn, where it was collected for use as fertilizer on crop fields. These listings are not likely to affect soil, groundwater or soil vapor conditions at the Subject Property. Therefore, these listings are not considered to represent RECs, CRECs or HRECs for the Subject Property.

Wenck did not review State/County/City files for these database listings because sufficient information was available from other sources to determine the potential for RECs, CRECs and/or HRECs at the Subject Property.

5.1.2 Surrounding Properties

Additional mapped sites of regulatory interest identified within the search radii defined by the ASTM Phase I Standard, as identified in the GeoSearch Radius Report, include the following:

<table>
<thead>
<tr>
<th>Number of Sites</th>
<th>Regulatory Database</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Facility Registry System (FRSMN) sites</td>
<td>The FRSMN database includes pointers to other databases and facilities that were entered into the Minnesota Delta Program. These listings are not considered to represent RECs, CRECs or HRECs for the Subject Property based on the type of database.</td>
</tr>
<tr>
<td>Number of Sites</td>
<td>Regulatory Database</td>
<td>Comments</td>
</tr>
<tr>
<td>----------------</td>
<td>---------------------</td>
<td>----------</td>
</tr>
<tr>
<td>7</td>
<td>What's In My Neighborhood Database (WIMN) sites</td>
<td>A listing in the WIMN database, by itself, is not indicative of a release or a material threat of release of petroleum products or potentially hazardous substances at the facility. The WIMN sites are not considered to represent RECs, CRECs or HRECs for the Subject Property based on the type of database listing.</td>
</tr>
<tr>
<td>25</td>
<td>MPCA Remediation (REMSITES) sites</td>
<td>The REMSITES database is a temporary database that includes the following types of properties: Brownfield, Integrated Remediation, Leaking Storage Tank, RCRA Remediation, Superfund and State Assessment sites. The REMSITES sites are all located over 0.48 miles from the Subject Property, with the exception of the Oak Park Heights Minnesota Correctional Facility, which is not located upgradient from the Subject Property with respect to the presumed direction of groundwater flow. Due to the locations of the REMSITES sites, they are not likely to affect soil, groundwater or soil vapor conditions at the Subject Property. Therefore, the REMSITES sites are not considered to represent RECs, CRECs or HRECs for the Subject Property.</td>
</tr>
<tr>
<td>1</td>
<td>Concentrated Animal Feeding Operation (CAFO) site</td>
<td>The CAFO site is identified as Lorraine Weber Farm at 14415 Olinda Boulevard North (approximately 0.35 miles southeast of the Subject Property). Due to the type of database listing and the location of the CAFO site with respect to the presumed direction of groundwater flow, it is not likely to affect soil, groundwater or soil vapor conditions at the Subject Property. Therefore, the CAFO site is not considered to represent a REC, CREC or HREC for the Subject Property.</td>
</tr>
<tr>
<td>1</td>
<td>Registered Storage Tank (UAST) site</td>
<td>UAST sites are not necessarily indicative of a release or a material threat of release, therefore, these listings are not considered a threat to soil, groundwater and/or soil vapor conditions at the Subject Property, and, therefore, are not considered to represent RECs, CRECs or HRECs for the Subject Property. Registered Leaking UAST sites are discussed below.</td>
</tr>
<tr>
<td>2</td>
<td>Registered Leaking Storage Tank (LUAST) sites</td>
<td>The nearest LUAST site is identified as Oak Park Heights Minnesota Correctional Facility at 5329 Osgood avenue North (approximately 0.15 miles northeast of the Subject Property). According to the database report, a release of diesel fuel was reported on August 5, 2008, and the release received</td>
</tr>
<tr>
<td>Number of Sites</td>
<td>Regulatory Database</td>
<td>Comments</td>
</tr>
<tr>
<td>----------------</td>
<td>---------------------</td>
<td>----------</td>
</tr>
<tr>
<td>1</td>
<td>State Assessment (SAS)/Superfund Enterprise Management System (SEMS) site</td>
<td>The SAS/SEMS site is identified as Baytown PCE at 4902 Osgood Avenue (adjoining property east). The database report does not provide additional information regarding the SAS/SEMS site. Wenck requested a review of the regulatory file associated with the SAS/SEMS site from the MPCA. According to the files provided by the MPCA (MPCA file # SA115 and MPCA file # SR48), tetrachloroethylene (PCE) was detected in eight groundwater supply wells as part of the plume monitoring for the Baytown Superfund (TCE) site. Five of the impacted wells were located on Osgood Avenue North, and three other impacted wells were located downgradient from Osgood Avenue North with respect to the presumed direction of groundwater flow. A Site Assessment Pre-Screening and Referral Worksheet prepared by Kurt Schroeder dated July 9, 2013 states that there is “anecdotal evidence of a possible former dry cleaner operator disposing of spent solvent in his back yard near this location.” The file for SA115 also contains a table of groundwater sampling results from between 2008 and 2015 that show concentrations of PCE at several wells ranging from less than 0.2 micrograms per liter (µg/L) to 0.69 µg/L. The Health Risk Limit established by the Minnesota Department of Health for PCE in drinking water is 4.0 µg/L. Due to the low concentrations of</td>
</tr>
<tr>
<td></td>
<td></td>
<td>regulatory closure from the MPCA on October 23, 2008. Because the LUAST site is not located upgradient from the Subject Property with respect to the presumed direction of groundwater flow, it is not likely to affect soil, groundwater or soil vapor conditions at the Subject Property. Therefore, it is not considered to represent a REC, CREC or HREC for the Subject Property. The other LUAST site is identified as Barron Residence at 3970 Oakgreen Avenue North (approximately 0.48 miles southwest of the Subject Property). According to the database report, a release of fuel oil 1 and 2 was reported on June 10, 2005, and the release received regulatory closure from the MPCA on April 14, 2006. Because the LUAST site is not located upgradient from the Subject Property with respect to the presumed direction of groundwater flow, it is not likely to affect soil, groundwater or soil vapor conditions at the Subject Property. Therefore, it is not considered to represent a REC, CREC or HREC for the Subject Property.</td>
</tr>
<tr>
<td>Number of Sites</td>
<td>Regulatory Database</td>
<td>Comments</td>
</tr>
<tr>
<td>----------------</td>
<td>---------------------</td>
<td>----------</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PCE identified in this area, it is likely that the SAS site will soon receive regulatory closure. The closure process for the SAS site has started, as evidenced by a <em>Peer Review Request for Site Assessment Risk-Based Closure</em> prepared by Eric Pederson dated July 12, 2016. The closure request document states that the SAS site “falls within SR84, the Baytown Township Groundwater Contamination Site, any further investigation would occur under the Superfund site.” Additionally, groundwater sampling of the water supply wells at the Subject Property has not revealed evidence of PCE impacts or any volatile organic compounds in groundwater above applicable method reporting limits. Therefore, the SAS/SEMS site is not considered to represent a REC, CREC or HREC for the Subject Property.</td>
</tr>
<tr>
<td>1</td>
<td>Superfund Site Information Listing (SF) site</td>
<td>The SF site is identified as the Baytown Carbon Tet. Plume at 13150 40th Street North (approximately 0.97 miles west of the Subject Property). According to the database report, the SF site is no longer listed as “active.” Wenck reviewed the MPCA’s “What’s In My Neighborhood?” online database to obtain additional information. The online database provided Wenck with an MPCA Office Memorandum prepared by Gerald Stahnke and Kurt Schroeder dated December 13, 2011 titled <em>Closure of Baytown Carbon Tetrachloride Plume SR 1336</em> (2011 MPCA Memo). The 2011 MPCA Memo states that a plume of carbon tetrachloride is a subset of the larger TCE plume, which was first detected in groundwater in Baytown Township in June 1987. Because the treatment of carbon tetrachloride is similar to the treatment of TCE, treating it as a separate site was unnecessary. The TCE SF site was added to the Superfund Permanent List of Priorities in 1988. If a well within the plume exceeded applicable Health Risk Limits (HRLs), the remedy required the well to be fitted with a granular activated carbon filter. As of the date of the 2011 MPCA Memo, there were no wells with carbon tetrachloride concentrations above HRLs without granular activated carbon filters. Long term groundwater monitoring has also shown that levels of carbon tetrachloride in all wells were decreasing over time, suggesting that there is no ongoing source of carbon tetrachloride. The 2011 MPCA Memo concludes that “Therefore, the Site will be closed in the SRS database.” Due to regulatory closure of the SF site, and the lack of identified VOC concentrations in water supply wells on the Subject Property, the SF</td>
</tr>
<tr>
<td>Number of Sites</td>
<td>Regulatory Database</td>
<td>Comments</td>
</tr>
<tr>
<td>----------------</td>
<td>---------------------</td>
<td>----------</td>
</tr>
<tr>
<td></td>
<td>site is not considered to represent a REC, CREC or HREC for the Subject Property.</td>
<td></td>
</tr>
</tbody>
</table>

No unmapped sites were identified in the GeoSearch Radius Report. Unmapped sites are those where address information is insufficient to allow the sites to be accurately mapped by GeoSearch.

Wenck reviewed the following MPCA files to determine the potential significance of these database listings relative to the Subject Property:

- MPCA # SA115
- MPCA # SR84
- Closure Memo for MPCA # SR1336

## 5.2 ADDITIONAL RECORD SOURCES

Additional record sources may be consulted when, in the judgment of the Environmental Professional, such additional records are reasonably ascertainable, sufficiently useful, accurate and complete, and are generally obtained pursuant to good commercial and customary practice. Such records may include local brownfield lists, or other local lists similar to those federal, state and tribal lists. Such sources may include local health or environmental departments, fire departments, planning departments, building permit or inspection departments, and other local pollution, water quality or utility companies.

### 5.2.1 Washington County Tax Information

Washington County tax information was obtained and reviewed from the Washington County tax assessor’s website. Tax records provide publicly available information about the Subject Property. The tax records did not reveal any additional information with respect to the environmental condition of the Subject Property.

The Washington County tax information is included as Appendix C.

### 5.2.2 Local Building Records Review

Local building records were not reviewed for the Subject Property. According to reviewed sources of information, the Subject Property has been in agricultural and rural residential use since at least 1938. A historical dwelling was located in the southeast portion of the Subject Property from prior to 1938 until sometime between 1964 and 1970, when the historical dwelling was burned down by arsons. According to Mr. Douglas Cahanes, the majority of the burned debris was subsequently removed from the Subject Property, but some scrap metal, remnants of a stone foundation, a non-functioning water supply well, and a cistern pit are still located in this general area. The currently existing dwelling was reportedly moved to the southeast portion of the Subject Property in 1958, and support structures were constructed near the dwelling from 1958 through 1986. During an auction that took place in April 2017, two historical storage buildings and several grain bins were sold and removed from the southeast portion of the Subject Property. The northwest portion of the Subject Property contained a historical farmstead from at least 1938 until the
historical dwelling was razed and removed from the Subject Property, and the currently existing dwelling and storage building were constructed in 2000.

### 5.3 HISTORICAL USE INFORMATION

#### 5.3.1 Aerial Photographs


<table>
<thead>
<tr>
<th>Year</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1938-1957</td>
<td>The 1938 through 1957 aerial photographs show the Subject Property containing a historical dwelling, a dairy barn and a corn crib in its southeast portion. A low, wet area is visible northeast of the dairy barn. The majority of the Subject Property appears to be in agricultural use for row crops. A historical farmstead is visible in the northwest portion of the Subject Property. Surrounding properties appear to be in agricultural and rural residential use. A railway is visible south of the Subject Property. The road currently known as Osgood Avenue North bounds the Subject Property to the east, and the road currently known as Northbrook Boulevard North bounds the Subject Property to the northwest.</td>
</tr>
<tr>
<td>1964</td>
<td>In the 1964 aerial photograph, the Subject Property appears generally as above, but the currently existing dwelling is visible in the southeast portion of the Subject Property. The currently existing shed that was historically used as a well house is visible west of the currently existing dwelling. The currently existing north Quonset hut is visible on the southeast portion of the Subject Property. Surrounding properties appear generally as above, but there appears to have been an increase in residential development along Osgood Avenue North.</td>
</tr>
<tr>
<td>1970-1980</td>
<td>In the 1970 through 1980 aerial photographs the Subject Property appears generally as above, but the historical dwelling that was located in the southeast portion of the Subject Property is no longer visible. Surrounding properties appear generally as above. The walls of the currently existing state prison are visible northeast of the Subject Property in the 1980 aerial photograph.</td>
</tr>
<tr>
<td>1986-1997</td>
<td>In the 1986 through 1997 aerial photographs the Subject Property and surrounding area appears generally as above, but the currently existing south Quonset hut is visible on the southeast portion of the Subject Property. A historical storage building is also visible approximately 250 feet west of the south Quonset hut.</td>
</tr>
<tr>
<td>2003-2015</td>
<td>In the 2003 through 2015 aerial photographs the Subject Property appears generally as above, but the historical farmstead is no longer visible in the northwest portion of the Subject Property, and the currently existing dwelling, storage building and driveway are visible in</td>
</tr>
</tbody>
</table>
5.3.2 City Directories

City directories were researched for the Subject Property and surrounding properties. The streets researched were Osgood Avenue North and Northbrook Boulevard North and directories were available for the years 1995, 1999, 2003, 2008 and 2013. The city directories are included as Appendix E. Listings for the address of the Subject Property (4620 Osgood Avenue North, 4867 and 4961 Northbrook Boulevard North) consist of the following:

<table>
<thead>
<tr>
<th>Directory Year</th>
<th>Subject Property Listing</th>
</tr>
</thead>
<tbody>
<tr>
<td>1995</td>
<td>No listings</td>
</tr>
<tr>
<td>1999</td>
<td>Residential listing at 4620 Osgood Avenue North and a residential listing at 4867 Northbrook Boulevard North</td>
</tr>
<tr>
<td>2003-2008</td>
<td>Residential listing at 4620 Osgood Avenue North, “no current listing” at 4867 Northbrook Boulevard North and a residential listing at 4961 Northbrook Boulevard North</td>
</tr>
<tr>
<td>2013</td>
<td>Residential listing at 4620 Osgood Avenue North and a residential listing at 4961 Northbrook Boulevard North</td>
</tr>
</tbody>
</table>

Other listings in the vicinity of the Subject Property include: All Weather SVC (landscape contractors) at 4535 Osgood Avenue North, State Correctional Facility at 5329 Osgood Avenue North, and residential listings.

5.3.3 Historical Maps


The 1848 historical map shows the Subject Property located west of the St. Croix River in Sections 8 and 9, Township 29 north, Range 20 west of the 4th principal meridian. No structures are identified on the Subject Property.

The 1901 historical atlas shows the Subject Property containing a dwelling in its southeast portion and a dwelling in its northwest portion (as identified by black squares). The Chicago, St. Paul, Minneapolis and Omaha Railway is identified on adjoining property south. The developed portion of the City of Stillwater is identified east of the Subject Property.

The 1926 and 1938 historical atlases show the Subject Property and surrounding area generally as above, but no structures are identified on the Subject Property or in the surrounding area.
The 1949 and 1950 USGS topographic maps show properties south of the Subject Property, in the Hudson, Minnesota quadrangle. The properties appear to contain rolling hills, low, wet areas and several dwellings.

The 1951 USGS topographic map shows the Subject Property located in Baytown Township. Several ponds are identified on the Subject Property. Two structures are identified in the southeast portion of the Subject Property, and two structures are identified in the northwest portion of the Subject Property. Topography appears to generally slope to the east.

The 1967 through 1993 USGS topographic maps show the Subject Property and surrounding area generally as above, but the Minnesota State Prison is identified northeast of the Subject Property, and there appears to have been an increase in development in the surrounding area.

The 2010 through 2016 USGS topographic maps show the Subject Property and surrounding area generally as above, but with less detail.

The historical maps are included as Appendix F.

5.3.4 Fire Insurance Maps

A search was conducted to determine if fire insurance maps were available for the Subject Property. Fire insurance maps were created for insurance underwriters and often contain information regarding the uses of individual structures and the locations of fuel and/or chemical storage tanks that may have been on a particular property.

According to Historical Information Gatherers, Inc. (HIG), fire insurance map coverage is not available in the research materials searched for the Subject Property. HIG fire insurance map research documentation is included as Appendix G.

5.4 PREVIOUS ENVIRONMENTAL REPORTS

Mr. Douglas Cahanes (owner/occupant of the southeast and central portions of the Subject Property) allowed Wenck to review groundwater sampling data from the water supply well that serves 4620 Osgood Avenue North at the time of the site reconnaissance. Mr. Cahanes provided Wenck with correspondence and test results from Bay West LLC (as a contractor for the Minnesota Pollution Control Agency) dated September 29, 2016. According to the correspondence, trichloroethylene (TCE) was not identified in the well water above the laboratory reporting limit of 0.10 micrograms per liter. The test results indicate that no volatile organic compounds (VOCs) were identified in the well water above their respective laboratory reporting limits. The next well sampling date is scheduled for September of 2019. Wenck was not provided with other previous environmental reports prepared for the Subject Property at the outset of this scope of work.
6.0 Subject Property

6.1 SUBJECT PROPERTY OBSERVATIONS

Mr. Chad Rogers of Wenck conducted a site reconnaissance on October 23, 2017. Mr. Rogers was accompanied during a portion of the site reconnaissance by Mr. Douglas Cahanes, owner of the southeast and central portions of the Subject Property. Wenck staff visually observed the Subject Property to identify current land use, obtain evidence of past uses, and to identify surface characteristics of the Subject Property for the presence of RECs, CRECs or HRECs. Subject Property photographs are included in Appendix H.

The site reconnaissance consisted of visually observing the interior and exterior portions of the Subject Property. Wenck staff observed (from the Subject Property boundaries) the adjoining properties for evidence of RECs, CRECs or HRECs, and for indications of past and current land use.

The Subject Property was accessed in its southeast portion, via an unpaved driveway that leads west from Osgood Avenue North. The southeast portion of the Subject Property contains a dwelling (photograph 1), a dairy barn (photographs 2 through 4), a former well house that is currently used as a shed (photographs 5 and 6), two Quonset huts (photographs 7 through 9), three corn cribs (photographs 10 and 11), and the remnants of a historical dwelling (photograph 12). A non-functioning water supply well and a cistern pit that was covered by scrap metal were observed in the location of the historical dwelling (photographs 13 and 14). The majority of the Subject Property is in agricultural use for row crops, and an unpaved road leads west of the farmstead and provides access to several crop fields (photographs 15 through 18). High voltage power lines cross the central portion of the Subject Property from north to south.

The northwest portion of the Subject Property contains a dwelling (photograph 19), a storage building (photographs 20 and 21), landscaped areas, wooded areas and a low, wet area (photograph 22).

The northeast portion of the Subject Property was accessed from Osgood Avenue North via an unpaved easement (photograph 23). The northeast portion of the Subject Property is also in agricultural use for row crops (photograph 24), and it contains a hunting stand (photograph 25), what appears to be a smoke house (photograph 26), and several items in outdoor storage (photographs 27 through 29).

6.1.1 Materials Management

Materials managed at the Subject Property include general household and agricultural materials. One tractor was observed in the southeast portion of the Subject Property at the time of the site reconnaissance. Small amounts of scrap metal and abandoned materials were observed near the foundation of a historical dwelling on the southeast portion of the Subject Property, south of the driveway. Most of the farm materials from the southeast portion of the Subject Property have been sold at an auction that occurred in April 2017. Abandoned farm equipment, empty 55-gallon drums, and unlabeled containers partially full of what appeared to be agricultural chemicals were observed on the northeast portion of the Subject Property (photographs 27 through 29). Small quantities of gasoline and landscaping materials were observed in the northeast portion of the Subject Property (photographs 27 through 29).
equipment were observed in the storage building on the northwest portion of the Subject Property.

6.1.2 Solid and Hazardous Waste Management

Household waste was being generated in the southeast and northwest portions of the Subject Property at the time of the site reconnaissance. The household waste was collected in trash receptacles for offsite disposal. Wenck observed several containers of used oil in the north Quonset hut at the time of the site reconnaissance (photograph 30). According to Mr. Cahanes, the used oil is regularly removed from the Subject Property and either sold for use in used oil burners or taken to the local recycling center.

No evidence of hazardous waste generation was noted during the site reconnaissance or documented in the GeoSearch™ Radius Map Report.

6.1.3 Aboveground and Underground Storage Tanks (ASTs/USTs)

Although the database report does not identify any registered ASTs or USTs at the Subject Property, Mr. Douglas Cahanes informed Wenck during the site reconnaissance that one 1,000-gallon capacity UST for fuel oil is buried near the north side of the dwelling on the southeast portion of the Subject Property (photograph 31). According to Mr. Cahanes, the UST was installed in 1958 and it is no longer in use. Due to the age of the UST and the lack of documentation regarding the condition of the UST, the UST represents a material threat of release of petroleum products at the Subject Property. Therefore, the UST is considered a REC for the Subject Property. If future earthwork or redevelopment is planned, Wenck recommends that earthmoving contractors be informed of the presence and location of the UST.

6.1.4 Interior and Exterior Surface Observations

Wenck observed no evidence of soil subsidence, surface staining, pooled liquids, stressed vegetation or fill soil piles on the Subject Property. Some items in outdoor storage were observed on the northeast portion of the Subject Property at the time of the site reconnaissance (photographs 27-29).

6.1.5 Pits, Sumps, Oil-Water Separators and Floor Drains

Wenck did not observe any sumps or oil-water separators on the Subject Property at the time of the site reconnaissance. Wenck was informed of the presence of two pits on the southeast portion of the Subject Property. One pit is the location of a historical well within the former well house near the dwelling. The pit was covered at the time of the site reconnaissance. The other pit was historically used as a cistern and is located near the remains of a dwelling, south of the driveway (photograph 14). The cistern was partially covered by scrap metal at the time of the site reconnaissance. A floor drain was observed in the basement of the dwelling on the southeast portion of the Subject Property. According to interview information, the floor drain is connected to the onsite private septic system. Another floor drain was observed in the entrance to the dairy barn (photograph 32). The entrance was not accessible to cattle. According to Mr. Douglas Cahanes, the floor drain in the dairy barn discharges to the low, wet area on the east portion of the Subject Property. He stated that no petroleum products or potentially hazardous substances were historically stored in this area.
6.1.6 Wastewater and Stormwater Discharge Systems

The dwellings on the Subject Property are served by private septic systems. Stormwater at the Subject Property drains towards low, wet areas on the Subject Property.

6.1.7 Wells, Drywells and Lagoons

Wenck did not observe the presence of drywells or lagoons on the Subject Property. Wenck observed two domestic water wells that were in use at the time of the site reconnaissance. One operating well served the dwelling and structures on the southeast portion of the Subject Property. The other operating well served the dwelling on the northwest portion of the Subject Property. Wenck also observed an unsealed pit that historically contained a well within the former well house on the southeast portion of the Subject Property. Additionally, one well with a broken pump was observed near the remains of a dwelling in the southeast portion of the Subject Property, south of the driveway. It is Wenck’s opinion that each well should either be put into use, sealed by a licensed well contractor, or subjected to the terms of an annual well maintenance permit.

6.1.8 Polychlorinated Biphenyls (PCBs) and Oil-Containing Equipment

Wenck observed an electrical transformer on the northwest portion of the Subject Property at the time of the site reconnaissance. There was no indication on the transformer that may indicate that the transformer does not contain PCBs. The electrical transformer did not show any evidence of leaks or spills at the time of the site reconnaissance.
7.0 Interviews

7.1 INTERVIEW WITH SUBJECT PROPERTY REPRESENTATIVE

Date of Interview: October 23, 2017
Name: Mr. Douglas Cahanes
Affiliation: Owner/Occupant of portions of the Subject Property
Years familiar with Subject Property: 71 years
Telephone Number: 651-439-4979

Wenck interviewed Mr. Cahanes regarding the past and current use of the Subject Property. According to Mr. Cahanes, the Subject Property has been in agricultural use since it was acquired by his family in 1946. He stated that dairy operations ceased at the Subject Property in 2016, and that much of the associated equipment was sold at auction in April 2017. He provided Wenck with a tour of the Subject Property. Information provided by Mr. Cahanes was used throughout this report.

7.2 INTERVIEW WITH LOCAL GOVERNMENT OFFICIAL

Date of Interview: October 25, 2017
Name: Mr. Sean Bryant
Affiliation: File Manager, Document Services, MPCA
Years familiar with Subject Property: N/A
Telephone Number: 651-757-2768

Mr. Bryant was interviewed regarding the regulatory file associated with the Baytown PCE site (MPCA identification numbers SA115 and SR84). He provided Wenck with electronic copies of the regulatory files. Information provided by Mr. Bryant was used in Section 5.1.2 of this report.
8.0 Evaluation

8.1 DATA GAPS

Historical information was reviewed back to 1848. Data gaps greater than five years exist from prior to 1848, from 1848 to 1901, from 1901 to 1926, from 1926 to 1938, from 1938 to 1949, from 1957 to 1964, from 1972 to 1980, from 1980 to 1986 and from 1986 to 1992.

The interviews, historical maps, city directories, aerial photographs and previous environmental reports provide generally good corroborating information that allows an understanding of historical Subject Property use. A research summary is included as Appendix I.

Wenck considers the evaluation of the presence of recognized environmental conditions, controlled recognized environmental conditions, and historical recognized environmental conditions to be complete, based on the lack of identified changes in land use during the periods affected by any data gaps of more than five years. Therefore, we do not recommend additional investigation relative to the resolution of those data gaps, as we do not believe it would materially affect our conclusion.

8.2 IDENTIFIED FINDINGS

Wenck was authorized by Croix Capital Group to conduct this Phase I ESA of the property and improvements located at 4620 Osgood Avenue North, 4867 and 4961 Northbrook Boulevard North, Stillwater, Washington County, Minnesota (the Subject Property). The Subject Property consists of 224 acres occupied by a farmstead with a dwelling and several structures on its east portion, a dwelling and storage building on its northwest portion, agricultural cropland, wooded areas, and low, wet areas. Access to the Subject Property is from Osgood Avenue North and Northbrook Boulevard North.

According to reviewed sources of information, the Subject Property has been in agricultural and rural residential use since at least 1938. A historical dwelling was located in the southeast portion of the Subject Property from prior to 1938 until sometime between 1964 and 1970, when the historical dwelling was burned down by arsons. According to Mr. Douglas Cahanes, the majority of the burned debris was subsequently removed from the Subject Property, but some scrap metal, remnants of a stone foundation, a non-functioning water supply well, and a cistern pit are still located in this general area. The currently existing dwelling was reportedly delivered to the southeast portion of the Subject Property in 1958, and support structures were constructed near the dwelling from 1958 through 1986. During an auction that took place in April 2017, two historical storage buildings and several grain bins were sold and removed from the southeast portion of the Subject Property. The northwest portion of the Subject Property contained a historical farmstead from at least 1938 until the historical dwelling was razed and removed from the Subject Property, and the currently existing dwelling and storage building were constructed in 2000.

Observations at the time of the site reconnaissance revealed the presence of two operational water supply wells, two non-functional wells and one cistern pit at the Subject Property. One reportedly empty UST is located near the dwelling on the southeast portion of
the Subject Property. Wenck also observed items in outdoor storage on the northeast portion of the Subject Property. Wenck did not observe evidence of a release or a material threat of release of petroleum products or potentially hazardous substances at the Subject Property due to its current residential or agricultural use.

Mapped sites of regulatory interest that were identified in the database report are not likely to affect soil, groundwater or soil vapor conditions at the Subject Property due to their locations with respect to the presumed direction of groundwater flow, other information provided the database report and/or information obtained from regulatory file reviews and previous environmental investigations. Particular attention was given to the Baytown PCE site, and the regulatory file and onsite groundwater data indicates that PCE has not been identified at concentrations above applicable regulatory criteria at the Subject Property.

8.3 OPINIONS

We have reviewed the above findings and have come to the following opinions:

▲ The past and current use of the Subject Property as agricultural and rural residential property from at least 1938 until the present is not considered to represent a REC, CREC or HREC for the Subject Property. Although not considered to represent RECs, CRECs or HRECs, the presence of four water supply wells, a cistern pit, and various items in outdoor storage are considered to represent items of business environmental risk for the Subject Property. It is Wenck’s opinion that each water supply well should either be put into use, sealed by licensed well contractor, or subjected to the terms of an annual well maintenance permit issued by the Minnesota Department of Health. It is Wenck’s opinion that the unused cistern pit should be filled and sealed to prevent injury. It is Wenck’s opinion that the various items in outdoor storage should be removed from the Subject Property.

▲ The presence of UST on the southeast portion of the Subject Property from approximately 1958 until the present is considered to represent a REC for the Subject Property, because the age of the tank and the lack of documentation regarding the condition of the UST indicate that the UST represents a material threat of release of petroleum products at the Subject Property. It is Wenck’s opinion that the UST should be removed from the Subject Property.

▲ Mapped sites of regulatory interest revealed within the GeoSearch Radius Report are not considered RECs, HRECs, or CRECs for the Subject Property. Based on the review of the revealed sites of regulatory interest, including unmapped site listings revealed within search radii defined by the Practice, we identified no material threat of release to the Subject Property from adjacent or upgradient properties.

8.4 CONCLUSIONS

Wenck performed a Phase I ESA in conformance with the scope and limitations of the ASTM Phase I Standard and in accordance with the AAI Rule (40 CFR Part 312) of the property and improvements of 4620 Osgood Avenue North, 4867 and 4961 Northbrook Boulevard North, Stillwater, Washington County, Minnesota. Any exceptions to, or deletions from, the ASTM Phase I Standard are described in Section 2.3 and Section 2.4 of this report.

This ESA has identified the following REC with respect to the Subject Property:
The presence of an unused and empty 1,000-gallon UST at the Subject Property is a REC. It is Wenck’s opinion that the UST should be removed from the Subject Property.

This ESA has identified no evidence of CRECs or HRECs in connection with the Subject Property.

Although not considered to represent RECs, CRECs or HRECs for the Subject Property, the following items of business environmental risk were identified in connection with the Subject Property:

- The presence of four water supply wells on the Subject Property (two of which are not in use) is an item of business environmental risk for the Subject Property. It is Wenck’s opinion that each water supply well should either be put into use, sealed by licensed well contractor, or subjected to the terms of an annual well maintenance permit issued by the Minnesota Department of Health.
- The presence of an unused cistern pit on the Subject Property is an item of business environmental risk. It is Wenck’s opinion that the unused cistern pit should be filled and sealed to prevent injury.
- The presence of various items in outdoor storage at the Subject Property is an item of business environmental risk for the Subject Property. It is Wenck’s opinion that the items should be removed from the Subject Property.
9.0 Non-Scope Considerations

Assessments of potential environmental issues or conditions at the Subject Property that may relate to commercial real estate activities, but were not part of this scope of work include the following:

- Asbestos Survey
- Radon Gas Survey
- Lead-Based Paint Assessment
- Lead in Drinking Water Evaluation
- Wetland Delineation
- Regulatory Compliance Audit
- Cultural and Historic Resources Review
- Industrial Hygiene Review
- Health and Safety Assessment
- Ecological Resources Evaluation
- Endangered Species Survey
- Indoor Air Quality Evaluation
- Mold Investigation
- High Voltage Power Lines Assessment

This list is not intended to be all-inclusive and is not intended to imply significance of further investigation into these non-scope items.
10.0 References


Other materials referenced in this report are included in the Appendices.
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 Part 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 inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Prepared by:

Chad Rogers  
Environmental Analyst

Reviewed by:

J. Joseph Otte  
Principal
12.0 Qualifications

Company Experience

WENCK ASSOCIATES, INC. is a full-service environmental consulting firm that specializes in providing comprehensive environmental, regulatory, and safety guidance for our client’s real estate asset protection, redevelopment and development needs. Collectively, Wenck offers our clients over 25 years of experience, depth of technical and regulatory knowledge and expertise in the following service areas:

- Environmental Assessment Services (Phase I and II)
- Site Preparation/Planning Services
- Integrated Site Remediation and Risk-based Response Actions
- Storage Tank Removal, Replacement and Compliance
- Stormwater Management Plans and Permitting (NPDES requirements, etc.)
- Wetlands Delineation and Mitigation
- Environmental Permitting and Compliance
- Asbestos and Lead Identification and Abatement
- Voluntary Cleanup Programs and Guidance on Public Funding Mechanisms for Brownfield Redevelopment
- Indoor Air Quality Assessment
- Facility Layout Review for Environmental and Safety Efficiency
- Environmental Impact Assessments (EIA) and Statements (EIS), Environmental Assessment Worksheets (EAW), Alternative Urban Areawide Review (AUAR)
- Traffic Engineering
- Pollution Prevention Plans
- Greenhouse Gas Services

Wenck strives to provide our clients with strategic, high quality and cost-effective services that are customized to their specific needs. For more extensive information on the services we provide please refer to www.wenck.com.
Individual Bios

Chad Rogers

Chad Rogers joined Wenck Associates, Inc. (Wenck) as part of the real estate transaction group. As an environmental analyst, he primarily focuses on conducting Phase I Environmental Site Assessments. He also has a background working with legal issues and began a role as Wenck’s Risk Management Counsel in 2016. Mr. Rogers passed the Minnesota State Bar Examination in 2012, holds a Juris Doctorate from William Mitchell College of Law and a Business Administration Degree from the University of St. Thomas.

J. Joseph Otte

Mr. Joseph Otte joined Wenck Associates, Inc. (Wenck) in 1998 to lead real estate transaction support activities. Since joining Wenck, he has conducted a large number of Phase I Environmental Site Assessments and has been involved in many significant site redevelopment projects. Mr. Otte’s past position was as supervisor of the Voluntary Investigation and Cleanup (VIC) Program of the Minnesota Pollution Control Agency (MPCA). He holds a Bachelor of Arts in geology from the College of St. Thomas and a Master of Business Communication from the University of St. Thomas, St. Paul, Minnesota.
Figures

1. Figure 1: Site Location Map
2. Figure 2: Site Detail Map
User Questionnaire
GeoSearch Radius Report
<table>
<thead>
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<tr>
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<td>Database Summary</td>
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<td>Located Sites Summary</td>
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<td>Elevation Summary</td>
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<td>Environmental Records Definitions</td>
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Target Property Summary

Target Property Information
Site
N 4620 Osgood Avenue
Baytown Township, Minnesota

Coordinates
Area centroid (-92.817509, 45.0182837)
913 feet above sea level

USGS Quadrangle
Stillwater, MN
Stillwater, MN

Geographic Coverage Information
County/Parish: Washington (MN)
ZipCode(s):
Bayport MN: 55003
Stillwater MN: 55082

Radon
* Target property is located in Radon Zone 1.
Zone 1 areas have a predicted average indoor radon screening level greater than 4 pCi/L (picocuries per liter).
# Database Summary

## FEDERAL LISTING

### Standard Environmental Records

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**SUB-TOTAL**: 3 of 89
### Database Summary

#### STATE (MN) LISTING

**Standard Environmental Records**

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### TRIBAL LISTING

#### Standard Environmental Records

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SUB-TOTAL                                             |           | 0         | 0           |

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SUB-TOTAL                                             |           | 0         | 0           |

TOTAL                                                             | 45        | 0         |
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#### FEDERAL LISTING

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**NOTES:**

NS = NOT SEARCHED  
TP/AP = TARGET PROPERTY/ADJACENT PROPERTY
Topographic Map

Quadrangle(s): Stillwater, Stillwater
Source: USGS, 08/19/2013
Site
N 4620 Osgood Avenue
Baytown Township, Minnesota

Target Property (TP)

Click here to access Satellite view
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## Located Sites Summary

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Elevation Summary

Elevations are collected from the USGS 3D Elevation Program 1/3 arc-second (approximately 10 meters) layer hosted at the NGTOC.

Target Property Elevation: 913 ft.
NOTE: Standard environmental records are displayed in bold.

**EQUAL/HIGHER ELEVATION**

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<td>5888 NOVA SCOTIA AVE N, OAK PARK HEIGHTS, MN 55082</td>
<td>51</td>
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<tr>
<td>12</td>
<td>REMSITES</td>
<td>955 ft.</td>
<td>LOWE'S - OAK PARK HEIGHTS - CSW</td>
<td>SEE LOCATION DESCRIPTION, OAK PARK HEIGHTS, MN 55082</td>
<td>52</td>
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<tr>
<td>15</td>
<td>REMSITES</td>
<td>916 ft.</td>
<td>DENNY HECKER DETAIL SHOP</td>
<td>14447 N 60TH ST, STILLWATER, MN 55090</td>
<td>57</td>
</tr>
</tbody>
</table>
# Elevation Summary

<table>
<thead>
<tr>
<th>Map ID#</th>
<th>Database Name</th>
<th>Elevation</th>
<th>Site Name</th>
<th>Address</th>
<th>Page #</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>REMSITES</td>
<td>939 ft.</td>
<td>STILLWATER AUTO PARTS</td>
<td>13795 60TH ST N, STILLWATER, MN 55082</td>
<td>58</td>
</tr>
<tr>
<td>21</td>
<td>REMSITES</td>
<td>938 ft.</td>
<td>BAYTOWN CARBON TET. PLUME</td>
<td>13150 40TH ST N, LAKE ELMO, MN 55042</td>
<td>64</td>
</tr>
<tr>
<td>21</td>
<td>SF</td>
<td>938 ft.</td>
<td>BAYTOWN CARBON TET. PLUME</td>
<td>13150 40TH ST N, LAKE ELMO, MN 55042</td>
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<tr>
<td>25</td>
<td>REMSITES</td>
<td>932 ft.</td>
<td>OFFICE BUILDING</td>
<td>13481 60TH ST N, OAK PARK HEIGHTS, MN 55082</td>
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</table>

## LOWER ELEVATION

<table>
<thead>
<tr>
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<th>Page #</th>
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</thead>
<tbody>
<tr>
<td>4</td>
<td>LUST</td>
<td>842 ft.</td>
<td>OAK PARK HEIGHTS MINNESOTA CORRECTIONAL FACILITY</td>
<td>5329 OSGOOD AVE N, STILLWATER, MN 55082</td>
<td>31</td>
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<tr>
<td>4</td>
<td>REMSITES</td>
<td>842 ft.</td>
<td>MINNESOTA CORRECTIONAL FACILTY OAK PARK</td>
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<td>32</td>
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<tr>
<td>4</td>
<td>UAST</td>
<td>842 ft.</td>
<td>MINNESOTA CORRECTIONAL FACILTY OAK PARK</td>
<td>5329 OSGOOD AVE N, OAK PARK HEIGHTS, MN 55082</td>
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<tr>
<td>4</td>
<td>WIMN</td>
<td>842 ft.</td>
<td>MINNESOTA CORRECTIONAL FACILITY OAK PARK</td>
<td>5329 OSGOOD AVE N, OAK PARK HEIGHTS, MN 55082</td>
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<tr>
<td>5</td>
<td>WIMN</td>
<td>878 ft.</td>
<td>BINDERT PAINTING</td>
<td>4515 OSGOOD AVE, STILLWATER, MN 55082</td>
<td>36</td>
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<tr>
<td>6</td>
<td>WIMN</td>
<td>822 ft.</td>
<td>CSAH 21 TURN LANE PROJECT</td>
<td>ADDRESS UNKNOWN, BAYPORT, MN 55082</td>
<td>43</td>
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<tr>
<td>9</td>
<td>REMSITES</td>
<td>760 ft.</td>
<td>MCF STILLWATER SEGREGATION UNIT</td>
<td>970 PICKETT ST N, BAYPORT, MN 55003</td>
<td>44</td>
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<tr>
<td>9</td>
<td>REMSITES</td>
<td>760 ft.</td>
<td>STILLWATER PRISON HEALTH SERVICES BLDG</td>
<td>COUNTY ROAD 28, STILLWATER, MN 55082</td>
<td>45</td>
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<tr>
<td>9</td>
<td>REMSITES</td>
<td>760 ft.</td>
<td>MINNESOTA CORRECTIONAL FACILITY OAK PARK - STILLWATER</td>
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<td>11</td>
<td>REMSITES</td>
<td>755 ft.</td>
<td>BARKER'S AL'S PARK - BAYPORT</td>
<td>925 5TH AVE N, BAYPORT, MN 55003</td>
<td>50</td>
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<td>13</td>
<td>REMSITES</td>
<td>839 ft.</td>
<td>AS KING ASH DISPOSAL FACILITY</td>
<td>BENCH ROAD &amp; HIGHWAY 36, OAK PARK HEIGHTS, MN 55082</td>
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<tr>
<td>13</td>
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<td>NSP</td>
<td>AS KING PLANT, BAYPORT, MN 55003</td>
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<tr>
<td>14</td>
<td>REMSITES</td>
<td>911 ft.</td>
<td>MISTER CAR WASH #607</td>
<td>5900 OSGOOD AVE N, STILLWATER, MN 55082</td>
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<td>17</td>
<td>REMSITES</td>
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<td>SUPERAMERICA #4453</td>
<td>14493 N 60TH ST, OAK PARK HEIGHTS, MN 55082</td>
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<td>18</td>
<td>REMSITES</td>
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<td>CENTRAL AUTOMOTIVE</td>
<td>14621 60TH ST N, OAK PARK HEIGHTS, MN 55082</td>
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<td>19</td>
<td>REMSITES</td>
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<td>HOLIDAY STATIONSTORE 237</td>
<td>14773 60TH ST N, STILLWATER, MN 55082</td>
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<td>20</td>
<td>REMSITES</td>
<td>740 ft.</td>
<td>NSP - ALLEN S KING 1</td>
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<td>22</td>
<td>REMSITES</td>
<td>887 ft.</td>
<td>GREENBRIAR APARTMENTS</td>
<td>14847 N 60TH ST, OAK PARK HEIGHTS, MN 55082</td>
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<td>23</td>
<td>REMSITES</td>
<td>906 ft.</td>
<td>S.P. 8214-114 ST. CROIX CROSSING</td>
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<td>24</td>
<td>REMSITES</td>
<td>912 ft.</td>
<td>CROWN AUTO INC</td>
<td>14450 60TH ST N, STILLWATER, MN 55082</td>
<td>68</td>
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</tbody>
</table>
Concentrated Animal Feeding Operations (CAFO)

MAP ID# 1
Distance from Property: 0 mi. (0 ft.) X
Elevation: 929 ft. (Higher than TP)

FACILITY INFORMATION
GEOSEARCH ID: 59637-AREA00000001
AGENCY INTEREST ID: 59637
FEEDLOT NAME: CAHANES BROS DAIRY
ADDRESS: 4620 OSGOOD AVE N
STILLWATER, MN 55082
COUNTY: WASHINGTON

OWNER NAME: CAHANES BROS DAIRY
OWNER MAILING ADDRESS: 4620 OSGOOD AVE N
STILLWATER, MN 55082
CITY NOT REPORTED, STATE NOT REPORTED
OWNER PHONE: NOT REPORTED

FACILITY DETAILS
FEEDLOT PERMIT NUMBER: NOT REPORTED
PERMIT STATUS: NOT REPORTED
START DATE FOR THE MOST RECENT PERMIT: NOT REPORTED
END DATE FOR THE MOST RECENT PERMIT: NOT REPORTED
CONTACT PERSON: DOUG CAHANES
CONTACT ADDRESS: 4620 OSGOOD AVE N
STILLWATER, MN 55082
CONTACT PHONE: 651-439-4979

A 'Y' OR 'N' VALUE TO IDENTIFY WHETHER THIS FACILITY IS CONSIDERED A CONCENTRATED ANIMAL FEEDING OPERATION (CAFO): NOT REPORTED
ARE THERE CONFINEMENT BUILDINGS?: Y
IS THERE A PASTURE?: N
A 'Y' OR 'N' VALUE TO INDICATE WHETHER THE FACILITY CONTAINS A LIQUID MANURE STORAGE AREA?: N
IS THERE A MANURE STOCKPILE?: N
SURFACE WATER TYPES THAT ARE WITHIN 1,000 FEET OF THE FACILITY: UNKW
IS IT WITHIN SHORELAND?: N
DISTANCE FROM ANIMAL HOLDING AREA TO A WELL (IN FEET): 100
DISTANCE FROM MANURE STORAGE AREA TO A WELL (IN FEET): NOT REPORTED
NUMBER OF TOTAL ANIMALS UNITS ON THE PREMISE/FEEDLOT: 42.5
TOTAL ANIMAL COUNT (SUM OF ALL OF THE ANIMAL COUNT FIELDS): 50
THE PRIMARY TYPE OF ANIMAL AT THIS FEEDLOT: BEEF CATTLE - SLAUGHTER/STOCK

SUBJECT ITEM CATEGORY CODE: AREA
SUBJECT ITEM ID: 1
A LIST OF PROGRAMS WITH ACTIVITIES AT THE FEEDLOT: FE
THE ACTIVITY ID FOR THE MOST RECENT REGISTRATION: REG20130001
THE MPCA REGISTRATION NUMBER: 163-63096
REGISTRATION START DATE: 8/26/2013 0:00
REGISTRATION END DATE: 8/26/2017 0:00
Feedlots (FEEDLOT)

Distance from Property: 0 mi. (0 ft.) X
Elevation: 929 ft. (Higher than TP)

FACILITY INFORMATION
UNIQUE ID: 59637FEED
SITE ID: 59637
SITE NAME: CAHANES BROS DAIRY
ADDRESS: 4620 OSGOOD AVE N
           STILLWATER, MN 55082 WASHINGTON
SITE URL: https://cf.pca.state.mn.us/wimn/siteInfo.cfm?siteid=59637

FACILITY DETAILS
ID: 163-63096
TYPE: FEEDLOTS
WATERSHED: LOWER ST. CROIX RIVER
ACTIVE?: YES
INDUSTRY CLASSIFICATION: NOT REPORTED
INSTITUTIONAL CONTROLS: NO

Back to Report Summary
Distance from Property: 0 mi. (0 ft.) X
Elevation: 929 ft. (Higher than TP)

**FACILITY INFORMATION**

**REGISTRY ID:** 110068316735
**NAME:** CAHANES BROS DAIRY
**LOCATION ADDRESS:** 4620 OSGOOD AVE N
BAYTOWN TOWNSHIP, MN 55082

**COUNTY:** WASHINGTON
**EPA REGION:** 05
**FEDERAL FACILITY:** NOT REPORTED
**TRIBAL LAND:** NOT REPORTED

**ALTERNATIVE NAME/S:**
CAHANES BROS DAIRY

**PROGRAM/S LISTED FOR THIS FACILITY**
MN-TEMPO - MN-TEMPO

**STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)**
NO SIC DATA REPORTED

**NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)**
NO NAICS DATA REPORTED

[Back to Report Summary]
Distance from Property: 0 mi. (0 ft.) X
Elevation: 929 ft. (Higher than TP)

**FACILITY INFORMATION**

- UNIQUE ID: 59637
- SITE ID: 59637
- SITE NAME: CAHANES BROS DAIRY
- ADDRESS: 4620 OSGOOD AVE N
  STILLWATER, MN 55082 WASHINGTON
- SITE URL: https://cf.pca.state.mn.us/wimn/siteInfo.cfm?siteid=59637

**FACILITY DETAILS**

- MPCA ACTIVITY OF INTEREST AT THE SITE: FEEDLOTS
- COMMA-DELIMITED LIST OF MPCA ACTIVITIES OF INTEREST AT THE SITE: FEEDLOTS
- MPCA ID ASSOCIATED WITH AN ACTIVITY AT THE SITE: 163-63096
- COMMA-DELIMITED LIST OF MPCA IDS ASSOCIATED WITH ACTIVITIES AT THE SITE: 163-63096
- COMMA-DELIMITED LIST OF CODES FOR PROGRAMS ASSOCIATED WITH ACTIVITIES AT THE SITE: FE
- NAME OF THE MPCA PROGRAM ASSOCIATED WITH ACTIVITIES AT THE SITE: FEEDLOTS
- COMMA-DELIMITED LIST OF NAMES OF MPCA PROGRAMS ASSOCIATED WITH ACTIVITIES AT THE SITE: FEEDLOTS
- PRIMARY INDUSTRIAL CLASSIFICATION ASSOCIATED WITH THE SITE: NOT REPORTED
- INDICATES THE PRESENCE OF INSTITUTIONAL CONTROLS AT THE SITE: NO

[Back to Report Summary]
Facility Registry System (FRSMN)

MAP ID# 2

Distance from Property: 0.02 mi. (106 ft.) NE
Elevation: 939 ft. (Higher than TP)

FACILITY INFORMATION
REGISTRY ID: 110067035648
NAME: BAYTOWN PCE PLUME - SA 115
LOCATION ADDRESS: OSGOOD AVENUE, 1/4 MILE NORTH OF 47TH STREET NORTH
BAYTOWN TOWNSHIP, MN 55082-1139
COUNTY: WASHINGTON
EPA REGION: 05
FEDERAL FACILITY: NOT REPORTED
TRIBAL LAND: NOT REPORTED
ALTERNATIVE NAME/S:
BAYTOWN PCE PLUME - SA 115
PROGRAM/S LISTED FOR THIS FACILITY
SEMS - SEMS
STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)
NO SIC DATA REPORTED
NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)
NO NAICS DATA REPORTED

Back to Report Summary
Distance from Property: 0.02 mi. (106 ft.) NE
Elevation: 939 ft. (Higher than TP)

MAP ID# 2

FACILITY INFORMATION
REGISTRY ID: 110068190479
NAME: BAYTOWN PCE
LOCATION ADDRESS: 4902 OSGOOD AVE
BAYTOWN TOWNSHIP, MN 55082-1139
COUNTY: WASHINGTON
EPA REGION: 05
FEDERAL FACILITY: NOT REPORTED
TRIBAL LAND: NOT REPORTED
ALTERNATIVE NAME/S:
BAYTOWN PCE

PROGRAM/S LISTED FOR THIS FACILITY
MN-TEMPO - MN-TEMPO

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)
NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)
NO NAICS DATA REPORTED
MAP ID# 2

Distance from Property: 0.02 mi. (106 ft.) NE
Elevation: 939 ft. (Higher than TP)

FACILITY INFORMATION
GEOSEARCH ID: 192310
AGENCY INTEREST(AI) ID: 192310
ITEM ID: 192310-AREA0000000001
AGENCY INTEREST(AI) NAME: BAYTOWN PCE
ADDRESS: 4902 OSGOOD AVE
STILLWATER, MN 55082
OWNER:
OWNER ADDRESS:

FACILITY DETAILS
TYPE OF REMEDIATION SITE: SITE ASSESSMENT SITE
SITE ID: SA0000115
SITE NAME: BAYTOWN PCE
MPCA HYDROGEOLOGIST OR HYDROLOGIST ASSIGNED TO THE SITE: NOT REPORTED
MPCA PROJECT MANAGER ASSIGNED TO THE SITE: ERIC PEDERSON (FORMER)
WAS THIS SITE MIGRATED FROM AN EARLIER DATABASE?:
RELEASE DISCOVERED: NOT REPORTED
RELEASE REPORTED: NOT REPORTED
DATE THE APPLICATION / NOTIFICATION RECEIVED: NOT REPORTED
DATE THIS SITE WAS LISTED ON THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELISTED FROM THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS LISTED ON THE NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELETED FROM NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
SITE CLOSURE DATE: NOT REPORTED

Back to Report Summary
Distance from Property: 0.02 mi. (106 ft.) NE
Elevation: 939 ft. (Higher than TP)

FACILITY INFORMATION
UNIQUE ID: 192310SAS
SITE ID: 192310
SITE NAME: BAYTOWN PCE
ADDRESS: 4902 OSGOOD AVE
STILLWATER, MN 55082-1139 WASHINGTON
SITE URL: https://cf.pca.state.mn.us/wimn/siteInfo.cfm?siteid=192310

FACILITY DETAILS
ID: SA0000115
TYPE: SITE ASSESSMENT
WATERSHED: LOWER ST. CROIX RIVER
ACTIVE?: NO
INDUSTRY CLASSIFICATION: NOT REPORTED
INSTITUTIONAL CONTROLS: NO
Distance from Property: 0.02 mi. (106 ft.) NE
Elevation: 939 ft. (Higher than TP)

FACILITY INFORMATION
EPA ID#: MNN000505957
SITE ID#: 0505957
NAME: BAYTOWN PCE PLUME - SA 115
ADDRESS: OSGOOD AVENUE, 1/4 MILE NORTH OF 47TH STREET NORTH
BAYTOWN TOWNSHIP, MN 55082-1139
COUNTY: WASHINGTON
FEDERAL FACILITY: NO - NOT A FEDERAL FACILITY
NPL: NOT ON THE NPL
NON NPL STATUS: PA START NEEDED

Below information was gathered from the prior CERCLIS update completed in 10/2013 update:
NON-NPL STATUS DATE: NOT REPORTED
PHYSICAL CLASSIFICATION OF SITE / INCIDENT: NO INFORMATION AVAILABLE
SITE DESCRIPTION - NO SITE DESCRIPTION INFORMATION AVAILABLE -
SITE HISTORY - NO SITE HISTORY INFORMATION AVAILABLE -
ACTIONS - NO ACTION INFORMATION AVAILABLE -
CONTAMINANTS - NO CONTAMINATION INFORMATION AVAILABLE -
LISTING OF PUBLISHED INSTITUTIONAL CONTROL SITE REPORT - NOT AN INSTITUTIONAL CONTROL SITE -
Distance from Property: 0.02 mi. (106 ft.) NE
Elevation: 939 ft. (Higher than TP)

FACILITY INFORMATION
UNIQUE ID: 192310
SITE ID: 192310
SITE NAME: BAYTOWN PCE
ADDRESS: 4902 OSGOOD AVE
STILLWATER, MN 55082-1139 WASHINGTON
SITE URL: https://cf.pca.state.mn.us/wimn/siteInfo.cfm?siteid=192310

FACILITY DETAILS
MPCA ACTIVITY OF INTEREST AT THE SITE: MULTIPLE ACTIVITIES
COMMA-DELIMITED LIST OF MPCA ACTIVITIES OF INTEREST AT THE SITE: CERCLIS SITE; SITE ASSESSMENT
MPCA ID ASSOCIATED WITH AN ACTIVITY AT THE SITE: MULTIPLE IDS
COMMA-DELIMITED LIST OF MPCA IDS ASSOCIATED WITH ACTIVITIES AT THE SITE: MNN000505957; SA0000115
COMMA-DELIMITED LIST OF CODES FOR PROGRAMS ASSOCIATED WITH ACTIVITIES AT THE SITE: SR
NAME OF THE MPCA PROGRAM ASSOCIATED WITH ACTIVITIES AT THE SITE: INVESTIGATION AND CLEANUP
COMMA-DELIMITED LIST OF NAMES OF MPCA PROGRAMS ASSOCIATED WITH ACTIVITIES AT THE SITE: INVESTIGATION AND CLEANUP
PRIMARY INDUSTRIAL CLASSIFICATION ASSOCIATED WITH THE SITE: NOT REPORTED
INDICATES THE PRESENCE OF INSTITUTIONAL CONTROLS AT THE SITE: NO
MAP ID# 3  Distance from Property: 0.07 mi. (370 ft.) W  
Elevation: 932 ft. (Higher than TP)

FACILITY INFORMATION
UNIQUE ID: 96085
SITE ID: 96085  
SITE NAME: BAYTOWN TOWNSHIP
ADDRESS: 4420 ODEGARD AVE N  
STILLWATER, MN 55082 WASHINGTON
SITE URL: https://cf.pca.state.mn.us/wimn/siteInfo.cfm?siteid=96085

FACILITY DETAILS
MPCA ACTIVITY OF INTEREST AT THE SITE: WASTEWATER, MUNICIPAL COLLECTION SYSTEM
COMMA-DELIMITED LIST OF MPCA ACTIVITIES OF INTEREST AT THE SITE: WASTEWATER, MUNICIPAL COLLECTION SYSTEM
MPCA ID ASSOCIATED WITH AN ACTIVITY AT THE SITE: MCS116
COMMA-DELIMITED LIST OF MPCA IDS ASSOCIATED WITH ACTIVITIES AT THE SITE: MCS116
COMMA-DELIMITED LIST OF CODES FOR PROGRAMS ASSOCIATED WITH ACTIVITIES AT THE SITE: WW
NAME OF THE MPCA PROGRAM ASSOCIATED WITH ACTIVITIES AT THE SITE: WATER QUALITY
COMMA-DELIMITED LIST OF NAMES OF MPCA PROGRAMS ASSOCIATED WITH ACTIVITIES AT THE SITE: WATER QUALITY
PRIMARY INDUSTRIAL CLASSIFICATION ASSOCIATED WITH THE SITE: NOT REPORTED
INDICATES THE PRESENCE OF INSTITUTIONAL CONTROLS AT THE SITE: NO

Back to Report Summary
Distance from Property: 0.15 mi. (792 ft.) NE
Elevation: 842 ft. (Lower than TP)

SITE INFORMATION
Note: See updated LUAST information in REMSITES
GEOSEARCH ID: 17336LUAST
LEAK ID: 17336
NAME: OAK PARK HEIGHTS MINNESOTA CORRECTIONAL FACILITY
ADDRESS: 5329 OSGOOD AVE N
STILLWATER, MN 55082
RELEASE DISCOVERED: 08/05/2008 00:00:00
RELEASE REPORT: 08/05/2008 00:00:00
CONDITIONAL CLOSURE DATE: NOT REPORTED
COMPLETE SITE CLOSURE DATE: 10/23/2008 00:00:00
CONTAMINATED SOILS REMAINING: UNKNOWN
OFFSITE CONTAMINATION: UNKNOWN
PRODUCT RELEASED: DIESEL

GROUND WATER
DRINKING WATER CONTAMINATION: NOT REPORTED
FREE PRODUCT OBSERVED: NOT REPORTED
FREE PRODUCT THICKNESS: NOT REPORTED
GROUNDWATER CONTAMINATION: NO

CLEANUP ACTIONS
- NO CLEANUP ACTIONS REPORTED

INTEREST TYPE: LAST UPDATE:
LEAK SITE 08/11/2008 14:21:27
**MPCA Remediation Sites (REMSITES)**

**MAP ID# 4**

Distance from Property: 0.15 mi. (792 ft.) NE
Elevation: 842 ft. (Lower than TP)

**FACILITY INFORMATION**

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<thead>
<tr>
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<tr>
<td>AGENCY INTEREST(AI) ID</td>
<td>38051</td>
</tr>
<tr>
<td>ITEM ID</td>
<td>38051-AREA0000000002</td>
</tr>
<tr>
<td>AGENCY INTEREST(AI) NAME</td>
<td>MINNESOTA CORRECTIONAL FACILITY OAK PARK</td>
</tr>
<tr>
<td>ADDRESS</td>
<td>5329 OSGOOD AVE N  OAK PARK HEIGHTS, MN 55082</td>
</tr>
</tbody>
</table>

**OWNER:**  

**OWNER ADDRESS:**

**FACILITY DETAILS**

<table>
<thead>
<tr>
<th>TYPE OF REMEDIATION SITE</th>
<th>LEAK SITE</th>
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<tbody>
<tr>
<td>SITE ID</td>
<td>LS0017336</td>
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<tr>
<td>SITE NAME</td>
<td>OAK PARK HEIGHTS MINNESOTA CORRECTIONAL FACILITY</td>
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<tr>
<td>MPCA HYDROGEOLOGIST OR HYDROLOGIST ASSIGNED TO THE SITE</td>
<td>NOT REPORTED</td>
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<tr>
<td>MPCA PROJECT MANAGER ASSIGNED TO THE SITE</td>
<td>ANDREW EDDY (FORMER)</td>
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<tr>
<td>WAS THIS SITE MIGRATED FROM AN EARLIER DATABASE?</td>
<td></td>
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<tr>
<td>RELEASE DISCOVERED</td>
<td>8/5/2008</td>
</tr>
<tr>
<td>RELEASE REPORTED</td>
<td>8/5/2008</td>
</tr>
<tr>
<td>DATE THE APPLICATION / NOTIFICATION RECEIVED</td>
<td>NOT REPORTED</td>
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<td>DATE THIS SITE WAS LISTED ON THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST)</td>
<td>NOT REPORTED</td>
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<tr>
<td>DATE THIS SITE WAS DELISTED FROM THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST)</td>
<td>NOT REPORTED</td>
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<td>DATE THIS SITE WAS LISTED ON THE NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST)</td>
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<td>DATE THIS SITE WAS DELETED FROM NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST)</td>
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<td>SITE CLOSURE DATE</td>
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[Back to Report Summary]
Distance from Property: 0.15 mi. (792 ft.) NE
Elevation: 842 ft. (Lower than TP)

FACILITY INFORMATION
Note: Data is current as of August 25th, 2017
GEOSEARCH ID: 38051UAST
AGENCY INTEREST(AI) ID: 38051
AGENCY INTEREST(AI) NAME: MINNESOTA CORRECTIONAL FACILITY OAK PARK
ADDRESS: 5329 OSGOOD AVE N
OAK PARK HEIGHTS, MN 55082
OWNER: MDOC CENTRAL OFFICE
OWNER ADDRESS: 1450 ENERGY PARK DR STE 200
SAINT PAUL, MN 55108

FACILITY DETAILS
ITEM ID(ID for an individual tank. One individual tank can have zero to many compartments.): 38051-EQUI0000000001
ITEM COMPARTMENT(Represents a specific compartment of a specific tank.): 38051-EQUI0000000001-1
TANK SITE ID: TS0004279
COMPARTMENT NUMBER WITHIN THE TANK: 1
CAPACITY OF THIS COMPARTMENT IN GALLONS: 25000
SUBSTANCE IN THE TANK: UNREGULATED
TANK WALL TYPE: SINGLE
TANK MATERIAL: BARE/PAINT/ASPH COAT STEEL
TANK INSTALL DATE: 1/1/1979
STATUS CHANGE DATE: 1/1/1979
TANK STATUS: ACTIVE
TANKS CONTRACTOR: NOT REPORTED

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ITEM ID(ID for an individual tank. One individual tank can have zero to many compartments.): 38051-EQUI0000000002
ITEM COMPARTMENT(Represents a specific compartment of a specific tank.): 38051-EQUI0000000002-1
TANK SITE ID: TS0004279
COMPARTMENT NUMBER WITHIN THE TANK: 1
CAPACITY OF THIS COMPARTMENT IN GALLONS: 20700
SUBSTANCE IN THE TANK: UNREGULATED
TANK WALL TYPE: SINGLE
TANK MATERIAL: BARE/PAINT/ASPH COAT STEEL
TANK INSTALL DATE: 1/1/1979
STATUS CHANGE DATE: 1/1/1979
TANK STATUS: ACTIVE
TANKS CONTRACTOR: NOT REPORTED

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ITEM ID(ID for an individual tank. One individual tank can have zero to many compartments.): 38051-EQUI0000000003
ITEM COMPARTMENT(Represents a specific compartment of a specific tank.): 38051-EQUI0000000003-1
TANK SITE ID: TS0004279
COMPARTMENT NUMBER WITHIN THE TANK: 1
| CAPACITY OF THIS COMPARTMENT IN GALLONS: | 10000 |
| SUBSTANCE IN THE TANK: | DIESEL |
| TANK WALL TYPE: | SINGLE |
| TANK MATERIAL: | BARE/PAINT/ASPH COAT STEEL |
| TANK INSTALL DATE: | 1/1/1979 |
| STATUS CHANGE DATE: | 10/10/2003 |
| TANK STATUS: | RECONDITIONED |
| TANKS CONTRACTOR: | NOT REPORTED |

| ITEM ID(ID for an individual tank. One individual tank can have zero to many compartments.): | 38051-EQUI0000000004 |
| ITEM COMPARTMENT(Represents a specific compartment of a specific tank.): | 38051-EQUI0000000004-1 |
| TANK SITE ID: | TS0004279 |
| COMPARTMENT NUMBER WITHIN THE TANK: | 1 |
| CAPACITY OF THIS COMPARTMENT IN GALLONS: | 240 |
| SUBSTANCE IN THE TANK: | GASOLINE BLENDS (E1-E49) |
| TANK WALL TYPE: | DOUBLE |
| TANK MATERIAL: | CONCRETE |
| TANK INSTALL DATE: | 11/1/1999 |
| STATUS CHANGE DATE: | 11/1/1999 |
| TANK STATUS: | ACTIVE |
| TANKS CONTRACTOR: | NOT REPORTED |

| ITEM ID(ID for an individual tank. One individual tank can have zero to many compartments.): | 38051-EQUI0000000005 |
| ITEM COMPARTMENT(Represents a specific compartment of a specific tank.): | 38051-EQUI0000000005-1 |
| TANK SITE ID: | TS0004279 |
| COMPARTMENT NUMBER WITHIN THE TANK: | 1 |
| CAPACITY OF THIS COMPARTMENT IN GALLONS: | 520 |
| SUBSTANCE IN THE TANK: | DIESEL FUEL |
| TANK WALL TYPE: | SINGLE |
| TANK MATERIAL: | CARBON STEEL |
| TANK INSTALL DATE: | 12/31/1899 |
| STATUS CHANGE DATE: | 12/31/1899 |
| TANK STATUS: | ACTIVE |
| TANKS CONTRACTOR: | NOT REPORTED |

Back to Report Summary
MAP ID# 4
Distance from Property: 0.15 mi. (792 ft.) NE
Elevation: 842 ft. (Lower than TP)

FACILITY INFORMATION
UNIQUE ID: 38051
SITE ID: 38051
SITE NAME: MINNESOTA CORRECTIONAL FACILITY OAK PARK
ADDRESS: 5329 OSGOOD AVE N
OAK PARK HEIGHTS, MN 55082 WASHINGTON
SITE URL: https://cf.pca.state.mn.us/wimn/siteInfo.cfm?siteid=38051

FACILITY DETAILS
MPCA ACTIVITY OF INTEREST AT THE SITE: MULTIPLE ACTIVITIES
COMMA-DELIMITED LIST OF MPCA ACTIVITIES OF INTEREST AT THE SITE: ABOVEGROUND TANKS; AIR QUALITY; HAZARDOUS WASTE, VERY SMALL QUANTITY GENERATOR; PETROLEUM REMEDIATION, LEAK SITE; UNDERGROUND TANKS
MPCA ID ASSOCIATED WITH AN ACTIVITY AT THE SITE: MULTIPLE IDS
COMMA-DELIMITED LIST OF MPCA IDS ASSOCIATED WITH ACTIVITIES AT THE SITE: 16300142; LS0017336; MND980826408; TS0004279
COMMA-DELIMITED LIST OF CODES FOR PROGRAMS ASSOCIATED WITH ACTIVITIES AT THE SITE: AQ; HW; SR; TL
NAME OF THE MPCA PROGRAM ASSOCIATED WITH ACTIVITIES AT THE SITE: MULTIPLE PROGRAMS
COMMA-DELIMITED LIST OF NAMES OF MPCA PROGRAMS ASSOCIATED WITH ACTIVITIES AT THE SITE: AIR QUALITY; HAZARDOUS WASTE; INVESTIGATION AND CLEANUP; TANKS
PRIMARY INDUSTRIAL CLASSIFICATION ASSOCIATED WITH THE SITE: CORRECTIONAL INSTITUTIONS
INDICATES THE PRESENCE OF INSTITUTIONAL CONTROLS AT THE SITE: NO

Back to Report Summary
MAP ID# 5
Distance from Property: 0.16 mi. (845 ft.) E
Elevation: 878 ft. (Lower than TP)

FACILITY INFORMATION
UNIQUE ID: 89357
SITE ID: 89357
SITE NAME: BINDERT PAINTING
ADDRESS: 4515 OSGOOD AVE
STILLWATER, MN 55082 WASHINGTON
SITE URL: https://cf.pca.state.mn.us/wimn/siteInfo.cfm?siteid=89357

FACILITY DETAILS
MPCA ACTIVITY OF INTEREST AT THE SITE: HAZARDOUS WASTE, VERY SMALL QUANTITY GENERATOR
COMMA-DELIMITED LIST OF MPCA ACTIVITIES OF INTEREST AT THE SITE: HAZARDOUS WASTE, VERY SMALL QUANTITY GENERATOR
MPCA ID ASSOCIATED WITH AN ACTIVITY AT THE SITE: MNR000116368
COMMA-DELIMITED LIST OF MPCA IDS ASSOCIATED WITH ACTIVITIES AT THE SITE: MNR000116368
COMMA-DELIMITED LIST OF CODES FOR PROGRAMS ASSOCIATED WITH ACTIVITIES AT THE SITE: HW
NAME OF THE MPCA PROGRAM ASSOCIATED WITH ACTIVITIES AT THE SITE: HAZARDOUS WASTE
COMMA-DELIMITED LIST OF NAMES OF MPCA PROGRAMS ASSOCIATED WITH ACTIVITIES AT THE SITE: HAZARDOUS WASTE
PRIMARY INDUSTRIAL CLASSIFICATION ASSOCIATED WITH THE SITE: PAINTING AND WALL COVERING CONTRACTORS
INDICATES THE PRESENCE OF INSTITUTIONAL CONTROLS AT THE SITE: NO

Back to Report Summary
Concentrated Animal Feeding Operations (CAFO)

MAP ID# 6  Distance from Property: 0.35 mi. (1,848 ft.) SE
Elevation: 932 ft. (Higher than TP)

FACILITY INFORMATION
GEOSEARCH ID:  54401-AREA00000001
AGENCY INTEREST ID:  54401
FEEDLOT NAME:  LORRAINE WEBER FARM
ADDRESS:  14415 OLINDA BLVD N
          STILLWATER, MN 55082
COUNTY:  WASHINGTON

OWNER NAME:  NOT REPORTED
OWNER MAILING ADDRESS:  NOT REPORTED
        CITY NOT REPORTED, STATE NOT REPORTED
OWNER PHONE:  NOT REPORTED

FACILITY DETAILS
FEEDLOT PERMIT NUMBER:  NOT REPORTED
PERMIT STATUS:  NOT REPORTED
START DATE FOR THE MOST RECENT PERMIT:  NOT REPORTED
END DATE FOR THE MOST RECENT PERMIT:  NOT REPORTED
CONTACT PERSON:  LORRAINE WEBER
CONTACT ADDRESS:  14415 OLINDA BLVD N
                   STILLWATER, MN 55082
CONTACT PHONE:  439-439-4354

A 'Y' OR 'N' VALUE TO IDENTIFY WHETHER THIS FACILITY IS CONSIDERED A CONCENTRATED ANIMAL FEEDING OPERATION (CAFO):  NOT REPORTED
ARE THERE CONFINEMENT BUILDINGS?:  Y
IS THERE A PASTURE?:  Y
A 'Y' OR 'N' VALUE TO INDICATE WHETHER THE FACILITY CONTAINS A LIQUID MANURE STORAGE AREA?:  N
IS THERE A MANURE STOCKPILE?:  N
SURFACE WATER TYPES THAT ARE WITHIN 1,000 FEET OF THE FACILITY:  WELD
IS IT WITHIN SHORELAND?:  N
DISTANCE FROM ANIMAL HOLDING AREA TO A WELL (IN FEET):  NOT REPORTED
DISTANCE FROM MANURE STORAGE AREA TO A WELL (IN FEET):  NOT REPORTED
NUMBER OF TOTAL ANIMAL UNITS ON THE PREMISE/FEEDLOT:  0
TOTAL ANIMAL COUNT (SUM OF ALL OF THE ANIMAL COUNT FIELDS):  0
THE PRIMARY TYPE OF ANIMAL AT THIS FEEDLOT:  HORSES

SUBJECT ITEM CATEGORY CODE:  AREA
SUBJECT ITEM ID:  1
A LIST OF PROGRAMS WITH ACTIVITIES AT THE FEEDLOT:  FE
THE ACTIVITY ID FOR THE MOST RECENT REGISTRATION:  REG20090001
THE MPCA REGISTRATION NUMBER:  163-63189
REGISTRATION START DATE:  8/20/2009 0:00
REGISTRATION END DATE:  8/20/2013 0:00
MAP ID# 6
Distance from Property: 0.35 mi. (1,848 ft.) SE
Elevation: 932 ft. (Higher than TP)

FACILITY INFORMATION
UNIQUE ID: 54401
SITE ID: 54401
SITE NAME: LORRAINE WEBER FARM
ADDRESS: 14415 OLINDA BLVD N
STILLWATER, MN 55082 WASHINGTON
SITE URL: https://cf.pca.state.mn.us/wimn/siteInfo.cfm?siteid=54401

FACILITY DETAILS
MPCA ACTIVITY OF INTEREST AT THE SITE: FEEDLOTS
COMMA-DELIMITED LIST OF MPCA ACTIVITIES OF INTEREST AT THE SITE: FEEDLOTS
MPCA ID ASSOCIATED WITH AN ACTIVITY AT THE SITE: 163-63189
COMMA-DELIMITED LIST OF MPCA IDS ASSOCIATED WITH ACTIVITIES AT THE SITE: 163-63189
COMMA-DELIMITED LIST OF CODES FOR PROGRAMS ASSOCIATED WITH ACTIVITIES AT THE SITE: FE
NAME OF THE MPCA PROGRAM ASSOCIATED WITH ACTIVITIES AT THE SITE: FEEDLOTS
COMMA-DELIMITED LIST OF NAMES OF MPCA PROGRAMS ASSOCIATED WITH ACTIVITIES AT THE SITE: FEEDLOTS
PRIMARY INDUSTRIAL CLASSIFICATION ASSOCIATED WITH THE SITE: NOT REPORTED
INDICATES THE PRESENCE OF INSTITUTIONAL CONTROLS AT THE SITE: NO

Back to Report Summary
Distance from Property: 0.48 mi. (2,534 ft.) SW
Elevation: 970 ft. (Higher than TP)

SITE INFORMATION

Note: See updated LUAST information in REMSITES

GEOSEARCH ID: 16105LUAST
LEAK ID: 16105
NAME: BARRON RESIDENCE
ADDRESS: 3970 OAKGREEN AVE N
STILLWATER, MN 55082
RELEASE DISCOVERED: 06/09/2005 00:00:00
RELEASE REPORT: 06/10/2005 00:00:00
CONDITIONAL CLOSURE DATE: NOT REPORTED
COMPLETE SITE CLOSURE DATE: 04/14/2006 00:00:00
CONTAMINATED SOILS REMAINING: UNKNOWN
OFFSITE CONTAMINATION: UNKNOWN
PRODUCT RELEASED: FUEL OIL 1 & 2

GROUND WATER
DRINKING WATER CONTAMINATION: NOT REPORTED
FREE PRODUCT OBSERVED: NOT REPORTED
FREE PRODUCT THICKNESS: NOT REPORTED
GROUNDWATER CONTAMINATION: NO

CLEANUP ACTIONS
- NO CLEANUP ACTIONS REPORTED

INTEREST TYPE:
LEAK SITE
DELETED LEAK SITE

LAST UPDATE:
11/10/2014 08:17:05
12/06/2006 07:36:11

Back to Report Summary
Distance from Property: 0.48 mi. (2,534 ft.) SW
Elevation: 970 ft. (Higher than TP)

**FACILITY INFORMATION**
GEOSEARCH ID:    195295
AGENCY INTEREST(AI) ID:     195295
ITEM ID:     195295-AREA0000000001
AGENCY INTEREST(AI) NAME:     BARRON RESIDENCE
ADDRESS:   3970 OAKGREEN AVE N
STILLWATER, MN 55082
OWNER:  
OWNER ADDRESS:  

**FACILITY DETAILS**
TYPE OF REMEDIATION SITE: LEAK SITE
SITE ID: LS0016105
SITE NAME: BARRON RESIDENCE
MPCA HYDROGEOLOGIST OR HYDROLOGIST ASSIGNED TO THE SITE: NOT REPORTED
MPCA PROJECT MANAGER ASSIGNED TO THE SITE: MICHELLE OIE (FORMER)
WAS THIS SITE MIGRATED FROM AN EARLIER DATABASE?:
RELEASE DISCOVERED: 6/9/2005
RELEASE REPORTED: 6/10/2005
DATE THE APPLICATION / NOTIFICATION RECEIVED: NOT REPORTED
DATE THIS SITE WAS LISTED ON THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELISTED FROM THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS LISTED ON THE NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELETED FROM NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
SITE CLOSURE DATE: 4/14/2006

[Back to Report Summary]
MAP ID# 7
Distance from Property: 0.48 mi. (2,534 ft.) SW
Elevation: 970 ft. (Higher than TP)

FACILITY INFORMATION
UNIQUE ID: 195295
SITE ID: 195295
SITE NAME: BARRON RESIDENCE
ADDRESS: 3970 OAKGREEN AVE N
STILLWATER, MN 55082 WASHINGTON
SITE URL: https://cf.pca.state.mn.us/wimn/siteInfo.cfm?siteid=195295

FACILITY DETAILS
MPCA ACTIVITY OF INTEREST AT THE SITE: PETROLEUM REMEDIATION, LEAK SITE
COMMA-DELIMITED LIST OF MPCA ACTIVITIES OF INTEREST AT THE SITE: PETROLEUM REMEDIATION, LEAK SITE
MPCA ID ASSOCIATED WITH AN ACTIVITY AT THE SITE: LS0016105
COMMA-DELIMITED LIST OF MPCA IDS ASSOCIATED WITH ACTIVITIES AT THE SITE: LS0016105
COMMA-DELIMITED LIST OF CODES FOR PROGRAMS ASSOCIATED WITH ACTIVITIES AT THE SITE: SR
NAME OF THE MPCA PROGRAM ASSOCIATED WITH ACTIVITIES AT THE SITE: INVESTIGATION AND CLEANUP
COMMA-DELIMITED LIST OF NAMES OF MPCA PROGRAMS ASSOCIATED WITH ACTIVITIES AT THE SITE: INVESTIGATION AND CLEANUP
PRIMARY INDUSTRIAL CLASSIFICATION ASSOCIATED WITH THE SITE: NOT REPORTED
INDICATES THE PRESENCE OF INSTITUTIONAL CONTROLS AT THE SITE: NO
Distance from Property: 0.48 mi. (2,534 ft.) E
Elevation: 822 ft. (Lower than TP)

FACILITY INFORMATION
UNIQUE ID: 144391
SITE ID: 144391
SITE NAME: CSAH 21 TURN LANE PROJECT
ADDRESS: ADDRESS UNKNOWN
BAYPORT, MN 55082 WASHINGTON
SITE URL: https://cf.pca.state.mn.us/wimn/siteInfo.cfm?siteid=144391

FACILITY DETAILS
MPCA ACTIVITY OF INTEREST AT THE SITE: CONSTRUCTION STORMWATER
COMMA-DELIMITED LIST OF MPCA ACTIVITIES OF INTEREST AT THE SITE: CONSTRUCTION STORMWATER
MPCA ID ASSOCIATED WITH AN ACTIVITY AT THE SITE: C00038344
COMMA-DELIMITED LIST OF MPCA IDS ASSOCIATED WITH ACTIVITIES AT THE SITE: C00038344
COMMA-DELIMITED LIST OF CODES FOR PROGRAMS ASSOCIATED WITH ACTIVITIES AT THE SITE: ST
NAME OF THE MPCA PROGRAM ASSOCIATED WITH ACTIVITIES AT THE SITE: STORMWATER
COMMA-DELIMITED LIST OF NAMES OF MPCA PROGRAMS ASSOCIATED WITH ACTIVITIES AT THE SITE: STORMWATER
PRIMARY INDUSTRIAL CLASSIFICATION ASSOCIATED WITH THE SITE: NOT REPORTED
INDICATES THE PRESENCE OF INSTITUTIONAL CONTROLS AT THE SITE: NO

Back to Report Summary
Distance from Property: 0.66 mi. (3,485 ft.) E
Elevation: 760 ft. (Lower than TP)

FACILITY INFORMATION
GEOSEARCH ID: 101013
AGENCY INTEREST(AI) ID: 101013
ITEM ID: 101013-AREA0000000001
AGENCY INTEREST(AI) NAME: MCF STILLWATER SEGREGATION UNIT
ADDRESS: 970 PICKETT ST N
          BAYPORT, MN 55003
OWNER: 
OWNER ADDRESS: 

FACILITY DETAILS
TYPE OF REMEDIATION SITE: LEAK SITE
SITE ID: LS0011315
SITE NAME: MINNESOTA CORRECTIONS FACILITY
MPCA HYDROGEOLOGIST OR HYDROLOGIST ASSIGNED TO THE SITE: NOT REPORTED
MPCA PROJECT MANAGER ASSIGNED TO THE SITE: JESSICA EBERTZ (FORMER)
WAS THIS SITE MIGRATED FROM AN EARLIER DATABASE?: 
RELEASE DISCOVERED: 5/26/1998
RELEASE REPORTED: 5/26/1998
DATE THE APPLICATION / NOTIFICATION RECEIVED: NOT REPORTED
DATE THIS SITE WAS LISTED ON THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELISTED FROM THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS LISTED ON THE NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELETED FROM NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
SITE CLOSURE DATE: 7/27/1999
MAP ID# 9

Distance from Property: 0.66 mi. (3,485 ft.) E
Elevation: 760 ft. (Lower than TP)

FACILITY INFORMATION

GEOSEARCH ID: 193863
AGENCY INTEREST(AI) ID: 193863
ITEM ID: 193863-AREA0000000001
AGENCY INTEREST(AI) NAME: STILLWATER PRISON HEALTH SERVICES BLDG
ADDRESS: COUNTY ROAD 28
STILLWATER, MN 55082
OWNER:
OWNER ADDRESS:

FACILITY DETAILS

TYPE OF REMEDIATION SITE: LEAK SITE
SITE ID: LS0006531
SITE NAME: STILLWATER PRISON HEALTH SERVICES BLDG
MPCA HYDROGEOLOGIST OR HYDROLOGIST ASSIGNED TO THE SITE: NOT REPORTED
MPCA PROJECT MANAGER ASSIGNED TO THE SITE: EDWIN BALCOS (NO LONGER AT MPCA)
WAS THIS SITE MIGRATED FROM AN EARLIER DATABASE?:
RELEASE DISCOVERED: 7/12/1993
RELEASE REPORTED: 7/12/1993
DATE THE APPLICATION / NOTIFICATION RECEIVED: NOT REPORTED
DATE THIS SITE WAS LISTED ON THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELISTED FROM THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS LISTED ON THE NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELETED FROM NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
SITE CLOSURE DATE: 2/8/1994

Back to Report Summary
FACILITY INFORMATION
GEOSEARCH ID: 607
AGENCY INTEREST(AI) ID: 607
ITEM ID: 607-AREA0000000003
AGENCY INTEREST(AI) NAME: MINNESOTA CORRECTIONAL FACILITY - STILLWATER
ADDRESS: 970 PICKETT ST N
                    BAYPORT, MN 55003
OWNER:
OWNER ADDRESS:

FACILITY DETAILS
TYPE OF REMEDIATION SITE: LEAK SITE
SITE ID: LS0002802
SITE NAME: STILLWATER PRISON
MPCA HYDROGEOLOGIST OR HYDROLOGIST ASSIGNED TO THE SITE: NOT REPORTED
MPCA PROJECT MANAGER ASSIGNED TO THE SITE: DON MILLESS (FORMER)
WAS THIS SITE MIGRATED FROM AN EARLIER DATABASE?: NOT REPORTED
RELEASE DISCOVERED: 5/2/1990
RELEASE REPORTED: NOT REPORTED
DATE THE APPLICATION / NOTIFICATION RECEIVED: NOT REPORTED
DATE THIS SITE WAS LISTED ON THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELISTED FROM THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS LISTED ON THE NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELETED FROM NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
SITE CLOSURE DATE: 12/28/1990

TYPE OF REMEDIATION SITE: LEAK SITE
SITE ID: LS0002802
SITE NAME: STILLWATER PRISON
MPCA HYDROGEOLOGIST OR HYDROLOGIST ASSIGNED TO THE SITE: NOT REPORTED
MPCA PROJECT MANAGER ASSIGNED TO THE SITE: DON MILLESS (FORMER)
WAS THIS SITE MIGRATED FROM AN EARLIER DATABASE?: NOT REPORTED
RELEASE DISCOVERED: NOT REPORTED
RELEASE REPORTED: 5/2/1990
DATE THE APPLICATION / NOTIFICATION RECEIVED: NOT REPORTED
DATE THIS SITE WAS LISTED ON THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELISTED FROM THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS LISTED ON THE NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELETED FROM NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
SITE CLOSURE DATE: 12/28/1990

TYPE OF REMEDIATION SITE: LEAK SITE
SITE ID: LS0002802
SITE NAME: STILLWATER PRISON
MPCA HYDROGEOLOGIST OR HYDROLOGIST ASSIGNED TO THE SITE: NOT REPORTED
MPCA PROJECT MANAGER ASSIGNED TO THE SITE: DON MILLESS (FORMER)
WAS THIS SITE MIGRATED FROM AN EARLIER DATABASE?:
RELEASE DISCOVERED: NOT REPORTED
RELEASE REPORTED: NOT REPORTED
DATE THE APPLICATION / NOTIFICATION RECEIVED: NOT REPORTED
DATE THIS SITE WAS LISTED ON THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELISTED FROM THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS LISTED ON THE NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELETED FROM NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
SITE CLOSURE DATE: NOT REPORTED

Back to Report Summary
MAP ID# 10

Distance from Property: 0.67 mi. (3,538 ft.) N
Elevation: 951 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: 186836
AGENCY INTEREST(AI) ID: 186836
ITEM ID: 186836-AREA0000000001
AGENCY INTEREST(AI) NAME: OUTLET E
ADDRESS: 58TH ST N & OAKGREEN AVE N
OAK PARK HEIGHTS, MN 55082

OWNER:
OWNER ADDRESS:

FACILITY DETAILS

TYPE OF REMEDIATION SITE: BROWNFIELD SITE
SITE ID: PB3594
SITE NAME: OUTLET E
MPCA HYDROGEOLOGIST OR HYDROLOGIST ASSIGNED TO THE SITE: NOT REPORTED
MPCA PROJECT MANAGER ASSIGNED TO THE SITE: NOT REPORTED
WAS THIS SITE MIGRATED FROM AN EARLIER DATABASE?:
RELEASE DISCOVERED: NOT REPORTED
RELEASE REPORTED: NOT REPORTED
DATE THE APPLICATION / NOTIFICATION RECEIVED: NOT REPORTED
DATE THIS SITE WAS LISTED ON THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELISTED FROM THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS LISTED ON THE NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELETED FROM NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
SITE CLOSURE DATE: 2/12/2007

Back to Report Summary
Distance from Property: 0.67 mi. (3,538 ft.) N
Elevation: 951 ft. (Higher than TP)

**FACILITY INFORMATION**

GEOSEARCH ID: 188478
AGENCY INTEREST(AI) ID: 188478
ITEM ID: 188478-AREA0000000001
AGENCY INTEREST(AI) NAME: RITZER PROPERTY
ADDRESS: SEE LOCATION DESCRIPTION
OAK PARK HEIGHTS, MN 55082

OWNER:
OWNER ADDRESS:

**FACILITY DETAILS**

TYPE OF REMEDIATION SITE: BROWNFIELD SITE
SITE ID: VP20220
SITE NAME: RITZER PROPERTY
MPCA HYDROGEOLOGIST OR HYDROLOGIST ASSIGNED TO THE SITE: NOT REPORTED
MPCA PROJECT MANAGER ASSIGNED TO THE SITE: EDWARD OLSON
WAS THIS SITE MIGRATED FROM AN EARLIER DATABASE?:
RELEASE DISCOVERED: NOT REPORTED
RELEASE REPORTED: NOT REPORTED
DATE THE APPLICATION / NOTIFICATION RECEIVED: 1/27/2005
DATE THIS SITE WAS LISTED ON THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELISTED FROM THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS LISTED ON THE NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELETED FROM NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
SITE CLOSURE DATE: 5/17/2006

[Back to Report Summary]
Distance from Property: 0.78 mi. (4,118 ft.) NE
Elevation: 755 ft. (Lower than TP)

FACILITY INFORMATION
GEOSEARCH ID: 120840
AGENCY INTEREST(AI) ID: 120840
ITEM ID: 120840-AREA0000000001
AGENCY INTEREST(AI) NAME: BARKER'S AL'S PARK - BAYPORT
ADDRESS: 925 5TH AVE N
BAYPORT, MN 55003

OWNER:
OWNER ADDRESS:

FACILITY DETAILS
TYPE OF REMEDIATION SITE: BROWNFIELD SITE
SITE ID: VP28680
SITE NAME: BARKER'S ALPS PARK
MPCA HYDROGEOLOGIST OR HYDROLOGIST ASSIGNED TO THE SITE: NOT REPORTED
MPCA PROJECT MANAGER ASSIGNED TO THE SITE: WAYNE SARAPPO (FORMER)
WAS THIS SITE MIGRATED FROM AN EARLIER DATABASE?:
RELEASE DISCOVERED: NOT REPORTED
RELEASE REPORTED: NOT REPORTED
DATE THE APPLICATION / NOTIFICATION RECEIVED: 9/30/2009
DATE THIS SITE WAS LISTED ON THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELISTED FROM THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS LISTED ON THE NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELETED FROM NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
SITE CLOSURE DATE: NOT REPORTED

Back to Report Summary
MAP ID# 12
Distance from Property: 0.79 mi. (4,171 ft.) N
Elevation: 955 ft. (Higher than TP)

FACILITY INFORMATION
GEOSEARCH ID:    119733
AGENCY INTEREST(AI) ID:     119733
ITEM ID:     119733-AREA0000000003
AGENCY INTEREST(AI) NAME:     LOWE'S OF OAK PARK HEIGHTS 2315
ADDRESS:   5888 NOVA SCOTIA AVE N
          OAK PARK HEIGHTS, MN 55082
OWNER:
OWNER ADDRESS:

FACILITY DETAILS
TYPE OF REMEDIATION SITE: LEAK SITE
SITE ID: LS0016479
SITE NAME: LOWES OF OAK PARK HEIGHTS
MPCA HYDROGEOLOGIST OR HYDROLOGIST ASSIGNED TO THE SITE: NOT REPORTED
MPCA PROJECT MANAGER ASSIGNED TO THE SITE: KATHRYN SERIER (FORMER)
WAS THIS SITE MIGRATED FROM AN EARLIER DATABASE?:
DATE THE APPLICATION / NOTIFICATION RECEIVED: NOT REPORTED
DATE THIS SITE WAS LISTED ON THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELISTED FROM THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS LISTED ON THE NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELETED FROM NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
SITE CLOSURE DATE: 1/17/2007

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TYPE OF REMEDIATION SITE: BROWNFIELD SITE
SITE ID: PB3613
SITE NAME: LOWES OF OAK PARK HEIGHTS
MPCA HYDROGEOLOGIST OR HYDROLOGIST ASSIGNED TO THE SITE: NOT REPORTED
MPCA PROJECT MANAGER ASSIGNED TO THE SITE: NOT REPORTED
WAS THIS SITE MIGRATED FROM AN EARLIER DATABASE?:
RELEASE DISCOVERED: NOT REPORTED
RELEASE REPORTED: NOT REPORTED
DATE THE APPLICATION / NOTIFICATION RECEIVED: NOT REPORTED
DATE THIS SITE WAS LISTED ON THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELISTED FROM THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS LISTED ON THE NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELETED FROM NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
SITE CLOSURE DATE: NOT REPORTED
MAP ID# 12
Distance from Property: 0.79 mi. (4,171 ft.) N
Elevation: 955 ft. (Higher than TP)

FACILITY INFORMATION
GEOSEARCH ID: 99888
AGENCY INTEREST(AI) ID: 99888
ITEM ID: 99888-AREA0000000001
AGENCY INTEREST(AI) NAME: LOWE'S - OAK PARK HEIGHTS - CSW
ADDRESS: SEE LOCATION DESCRIPTION
OAK PARK HEIGHTS, MN 55082
OWNER:
OWNER ADDRESS:

FACILITY DETAILS
TYPE OF REMEDIATION SITE: BROWNFIELD SITE
SITE ID: VP21560
SITE NAME: LOWE'S OF OAK PARK HEIGHTS
MPCA HYDROGEOLOGIST OR HYDROLOGIST ASSIGNED TO THE SITE: NOT REPORTED
MPCA PROJECT MANAGER ASSIGNED TO THE SITE: SHANNA SCHMITT
WAS THIS SITE MIGRATED FROM AN EARLIER DATABASE?:
RELEASE DISCOVERED: NOT REPORTED
RELEASE REPORTED: NOT REPORTED
DATE THE APPLICATION / NOTIFICATION RECEIVED: 12/28/2005
DATE THIS SITE WAS LISTED ON THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELISTED FROM THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS LISTED ON THE NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELETED FROM NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
SITE CLOSURE DATE: 1/31/2007

Back to Report Summary
MAP ID# 13

Distance from Property: 0.84 mi. (4,435 ft.) NE
Elevation: 839 ft. (Lower than TP)

FACILITY INFORMATION
GEOSEARCH ID: 1052
AGENCY INTEREST(AI) ID: 1052
ITEM ID: 1052-AREA0000000002
AGENCY INTEREST(AI) NAME: AS KING ASH DISPOSAL FACILITY
ADDRESS: BENCH ROAD & HIGHWAY 36
          OAK PARK HEIGHTS, MN 55082
OWNER: 
OWNER ADDRESS: 

FACILITY DETAILS
TYPE OF REMEDIATION SITE: SITE ASSESSMENT SITE
SITE ID: REM04362
SITE NAME: KING COAL ASH
MPCA HYDROGEOLOGIST OR HYDROLOGIST ASSIGNED TO THE SITE: NOT REPORTED
MPCA PROJECT MANAGER ASSIGNED TO THE SITE: NOT REPORTED
WAS THIS SITE MIGRATED FROM AN EARLIER DATABASE?: NOT REPORTED
RELEASE DISCOVERED: NOT REPORTED
RELEASE REPORTED: NOT REPORTED
DATE THE APPLICATION / NOTIFICATION RECEIVED: NOT REPORTED
DATE THIS SITE WAS LISTED ON THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELISTED FROM THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS LISTED ON THE NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELETED FROM NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
SITE CLOSURE DATE: NOT REPORTED

TYPE OF REMEDIATION SITE: BROWNFIELD SITE
SITE ID: VP5770
SITE NAME: KING COAL ASH
MPCA HYDROGEOLOGIST OR HYDROLOGIST ASSIGNED TO THE SITE: NOT REPORTED
MPCA PROJECT MANAGER ASSIGNED TO THE SITE: ANDREW NICHOLS
WAS THIS SITE MIGRATED FROM AN EARLIER DATABASE?: NOT REPORTED
RELEASE DISCOVERED: NOT REPORTED
RELEASE REPORTED: NOT REPORTED
DATE THE APPLICATION / NOTIFICATION RECEIVED: NOT REPORTED
DATE THIS SITE WAS LISTED ON THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELISTED FROM THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS LISTED ON THE NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELETED FROM NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
SITE CLOSURE DATE: NOT REPORTED

TYPE OF REMEDIATION SITE: BROWNFIELD SITE
SITE ID: VP5770
SITE NAME: KING COAL ASH
MPCA HYDROGEOLOGIST OR HYDROLOGIST ASSIGNED TO THE SITE: NOT REPORTED
MPCA PROJECT MANAGER ASSIGNED TO THE SITE: ANDREW NICHOLS

WAS THIS SITE MIGRATED FROM AN EARLIER DATABASE?:
RELEASE DISCOVERED: NOT REPORTED
RELEASE REPORTED: NOT REPORTED

DATE THE APPLICATION / NOTIFICATION RECEIVED: 7/23/2012
DATE THIS SITE WAS LISTED ON THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELISTED FROM THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS LISTED ON THE NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELETED FROM NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
SITE CLOSURE DATE: 9/23/1996

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TYPE OF REMEDIATION SITE: BROWNFIELD SITE
SITE ID: VP5771
SITE NAME: CLUB TARA PARCEL
MPCA HYDROGEOLOGIST OR HYDROLOGIST ASSIGNED TO THE SITE: NOT REPORTED
MPCA PROJECT MANAGER ASSIGNED TO THE SITE: ANDREW NICHOLS

WAS THIS SITE MIGRATED FROM AN EARLIER DATABASE?:
RELEASE DISCOVERED: NOT REPORTED
RELEASE REPORTED: NOT REPORTED

DATE THE APPLICATION / NOTIFICATION RECEIVED: 7/15/2013
DATE THIS SITE WAS LISTED ON THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELISTED FROM THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS LISTED ON THE NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELETED FROM NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
SITE CLOSURE DATE: NOT REPORTED

Back to Report Summary
MAP ID# 13  Distance from Property: 0.84 mi. (4,435 ft.) NE
Elevation: 839 ft. (Lower than TP)

FACILITY INFORMATION
GEOSEARCH ID:    194017
AGENCY INTEREST(AI) ID:     194017
ITEM ID:     194017-AREA0000000001
AGENCY INTEREST(AI) NAME:     NSP
ADDRESS:   AS KING PLANT
            BAYPORT, MN 55003
OWNER:  
OWNER ADDRESS:     

FACILITY DETAILS
TYPE OF REMEDIATION SITE: LEAK SITE
SITE ID: LS0000392
SITE NAME: NSP
MPCA HYDROGEOLOGIST OR HYDROLOGIST ASSIGNED TO THE SITE: NOT REPORTED
MPCA PROJECT MANAGER ASSIGNED TO THE SITE: LAURA HYSJULIEN (NO LONGER AT MPCA)
WAS THIS SITE MIGRATED FROM AN EARLIER DATABASE?:
RELEASE DISCOVERED: 7/8/1986
RELEASE REPORTED: 7/8/1986
DATE THE APPLICATION / NOTIFICATION RECEIVED: NOT REPORTED
DATE THIS SITE WAS LISTED ON THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELISTED FROM THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS LISTED ON THE NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELETED FROM NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
SITE CLOSURE DATE: 12/13/1996

Back to Report Summary
Distance from Property: 0.86 mi. (4,541 ft.) N
Elevation: 911 ft. (Lower than TP)

FACILITY INFORMATION
GEOSEARCH ID: 105228
AGENCY INTEREST(AI) ID: 105228
ITEM ID: 105228-AREA0000000001
AGENCY INTEREST(AI) NAME: MISTER CAR WASH #607
ADDRESS: 5900 OSGOOD AVE N
STILLWATER, MN 55082
OWNER:
OWNER ADDRESS:

FACILITY DETAILS
TYPE OF REMEDIATION SITE: LEAK SITE
SITE ID: LS0009518
SITE NAME: ST CROIX CAR WASH
MPCA HYDROGEOLOGIST OR HYDROLOGIST ASSIGNED TO THE SITE: NOT REPORTED
MPCA PROJECT MANAGER ASSIGNED TO THE SITE: ELIZABETH CLYSDALE (NO LONGER AT MPCA)
WAS THIS SITE MIGRATED FROM AN EARLIER DATABASE?:
RELEASE DISCOVERED: 7/30/1996
RELEASE REPORTED: 7/30/1996
DATE THE APPLICATION / NOTIFICATION RECEIVED: NOT REPORTED
DATE THIS SITE WAS LISTED ON THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELISTED FROM THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS LISTED ON THE NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELETED FROM NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
SITE CLOSURE DATE: 2/18/1997

Back to Report Summary
MAP ID# 15
Distance from Property: 0.91 mi. (4,805 ft.) N
Elevation: 916 ft. (Higher than TP)

FACILITY INFORMATION
GEOSEARCH ID: 189719
AGENCY INTEREST(AI) ID: 189719
ITEM ID: 189719-AREA0000000001
AGENCY INTEREST(AI) NAME: DENNY HECKER DETAIL SHOP
ADDRESS: 14447 N 60TH ST
STILLWATER, MN 55090
OWNER: 
OWNER ADDRESS: 

FACILITY DETAILS
TYPE OF REMEDIATION SITE: LEAK SITE
SITE ID: LS0016388
SITE NAME: DENNY HECKER DETAIL SHOP
MPCA HYDROGEOLOGIST OR HYDROLOGIST ASSIGNED TO THE SITE: NOT REPORTED
MPCA PROJECT MANAGER ASSIGNED TO THE SITE: KATHRYN SERIER (FORMER)
WAS THIS SITE MIGRATED FROM AN EARLIER DATABASE?: 
RELEASE DISCOVERED: 2/27/2006
RELEASE REPORTED: 2/27/2006
DATE THE APPLICATION / NOTIFICATION RECEIVED: NOT REPORTED
DATE THIS SITE WAS LISTED ON THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELISTED FROM THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS LISTED ON THE NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELETED FROM NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
SITE CLOSURE DATE: 7/25/2006
MAP ID# 16  
Distance from Property: 0.92 mi. (4,858 ft.) N  
Elevation: 939 ft. (Higher than TP)

FACILITY INFORMATION
GEOSEARCH ID:    48305
AGENCY INTEREST(AI) ID:     48305
ITEM ID:     48305-AREA000000001
AGENCY INTEREST(AI) NAME:     STILLWATER AUTO PARTS
ADDRESS:   13795 60TH ST N
STILLWATER, MN 55082

OWNER:  
OWNER ADDRESS:  

FACILITY DETAILS
TYPE OF REMEDIATION SITE: SITE ASSESSMENT SITE
SITE ID: SA0003237
SITE NAME: STILLWATER AUTO PARTS
MPCA HYDROGEOLOGIST OR HYDROLOGIST ASSIGNED TO THE SITE: NOT REPORTED
MPCA PROJECT MANAGER ASSIGNED TO THE SITE: NOT REPORTED
WAS THIS SITE MIGRATED FROM AN EARLIER DATABASE?:
RELEASE DISCOVERED: NOT REPORTED
RELEASE REPORTED: NOT REPORTED
DATE THE APPLICATION / NOTIFICATION RECEIVED: NOT REPORTED
DATE THIS SITE WAS LISTED ON THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELISTED FROM THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS LISTED ON THE NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELETED FROM NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
SITE CLOSURE DATE: NOT REPORTED

Back to Report Summary
FACILITY INFORMATION
GEOSEARCH ID:    113094
AGENCY INTEREST(AI) ID:     113094
ITEM ID:     113094-AREA0000000001
AGENCY INTEREST(AI) NAME:     SUPERAMERICA #4453
ADDRESS:   14493 N 60TH ST
            OAK PARK HEIGHTS, MN 55082
OWNED:
OWNER ADDRESS:

FACILITY DETAILS
TYPE OF REMEDIATION SITE: LEAK SITE
SITE ID: LS0014549
SITE NAME: SUPERAMERICA NO 4453
MPCA HYDROGEOLOGIST OR HYDROLOGIST ASSIGNED TO THE SITE: NOT REPORTED
MPCA PROJECT MANAGER ASSIGNED TO THE SITE: KATHRYN SERIER (FORMER)
WAS THIS SITE MIGRATED FROM AN EARLIER DATABASE?:
RELEASE DISCOVERED: 11/15/2001
RELEASE REPORTED: 11/15/2001
DATE THE APPLICATION / NOTIFICATION RECEIVED: NOT REPORTED
DATE THIS SITE WAS LISTED ON THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELISTED FROM THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS LISTED ON THE NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELETED FROM NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
SITE CLOSURE DATE: 3/9/2006

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TYPE OF REMEDIATION SITE: LEAK SITE
SITE ID: LS0002292
SITE NAME: SUPERAMERICA STORE #1751
MPCA HYDROGEOLOGIST OR HYDROLOGIST ASSIGNED TO THE SITE: NOT REPORTED
MPCA PROJECT MANAGER ASSIGNED TO THE SITE: CATHY MALAVE (NO LONGER AT MPCA)
WAS THIS SITE MIGRATED FROM AN EARLIER DATABASE?:
RELEASE DISCOVERED: NOT REPORTED
RELEASE REPORTED: 2/12/1990
DATE THE APPLICATION / NOTIFICATION RECEIVED: NOT REPORTED
DATE THIS SITE WAS LISTED ON THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELISTED FROM THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS LISTED ON THE NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELETED FROM NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
SITE CLOSURE DATE: 11/7/1994

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TYPE OF REMEDIATION SITE: LEAK SITE
SITE ID: LS0002292
SITE NAME: SUPERAMERICA STORE #1751
MPCA HYDROGEOLOGIST OR HYDROLOGIST ASSIGNED TO THE SITE: NOT REPORTED
MPCA PROJECT MANAGER ASSIGNED TO THE SITE: CATHY MALAVE (NO LONGER AT MPCA)
WAS THIS SITE MIGRATED FROM AN EARLIER DATABASE?:
RELEASE DISCOVERED: NOT REPORTED
RELEASE REPORTED: NOT REPORTED
DATE THE APPLICATION / NOTIFICATION RECEIVED: NOT REPORTED
DATE THIS SITE WAS LISTED ON THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELISTED FROM THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS LISTED ON THE NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELETED FROM NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
SITE CLOSURE DATE: NOT REPORTED

Back to Report Summary
MAP ID# 18

Distance from Property: 0.94 mi. (4,963 ft.) N
Elevation: 907 ft. (Lower than TP)

FACILITY INFORMATION
GEOSEARCH ID: 30313
AGENCY INTEREST(AI) ID: 30313
ITEM ID: 30313-AREA0000000002
AGENCY INTEREST(AI) NAME: CENTRAL AUTOMOTIVE
ADDRESS: 14621 60TH ST N
    OAK PARK HEIGHTS, MN 55082
OWNER:
OWNER ADDRESS:

FACILITY DETAILS
TYPE OF REMEDIATION SITE: LEAK SITE
SITE ID: LS0007636
SITE NAME: CHAMPION AUTO
MPCA HYDROGEOLOGIST OR HYDROLOGIST ASSIGNED TO THE SITE: NOT REPORTED
MPCA PROJECT MANAGER ASSIGNED TO THE SITE: DAVE HOLST (NO LONGER AT MPCA)
WAS THIS SITE MIGRATED FROM AN EARLIER DATABASE?:
RELEASE DISCOVERED: 7/12/1994
RELEASE REPORTED: 7/12/1994
DATE THE APPLICATION / NOTIFICATION RECEIVED: NOT REPORTED
DATE THIS SITE WAS LISTED ON THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELISTED FROM THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS LISTED ON THE NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELETED FROM NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
SITE CLOSURE DATE: 2/28/1995

Back to Report Summary
Distance from Property: 0.94 mi. (4,963 ft.) N
Elevation: 906 ft. (Lower than TP)

FACILITY INFORMATION
GEOSEARCH ID: 113504
AGENCY INTEREST(AI) ID: 113504
ITEM ID: 113504-AREA0000000001
AGENCY INTEREST(AI) NAME: HOLIDAY STATIONSTORE 237
ADDRESS: 14773 60TH ST N
STILLWATER, MN 55082
OWNER: 
OWNER ADDRESS: 

FACILITY DETAILS
TYPE OF REMEDIATION SITE: LEAK SITE
SITE ID: LS0020177
SITE NAME: HOLIDAY STATIONSTORE #237
MPCA HYDROGEOLOGIST OR HYDROLOGIST ASSIGNED TO THE SITE: NOT REPORTED
MPCA PROJECT MANAGER ASSIGNED TO THE SITE: ALLEN DOTSON
WAS THIS SITE MIGRATED FROM AN EARLIER DATABASE?:
RELEASE DISCOVERED: 8/10/2016
RELEASE REPORTED: 8/10/2016
DATE THE APPLICATION / NOTIFICATION RECEIVED: NOT REPORTED
DATE THIS SITE WAS LISTED ON THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELETED FROM THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS LISTED ON THE NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELETED FROM NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
SITE CLOSURE DATE: NOT REPORTED

Back to Report Summary
MAP ID# 20  Distance from Property: 0.95 mi. (5,016 ft.) NE  Elevation: 740 ft. (Lower than TP)

FACILITY INFORMATION
GEOSEARCH ID: 1050  AGENCY INTEREST(AI) ID: 1050  ITEM ID: 1050-AREA000000001  AGENCY INTEREST(AI) NAME: NSP - ALLEN S KING 1  ADDRESS: SEE LOCATION DESCRIPTION  OAK PARK HEIGHTS, MN 55082  OWNER: OWNER ADDRESS:

FACILITY DETAILS

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Back to Report Summary
Distance from Property: 0.97 mi. (5,122 ft.) W
Elevation: 938 ft. (Higher than TP)

FACILITY INFORMATION
GEOSEARCH ID: 208511
AGENCY INTEREST(AI) ID: 208511
ITEM ID: 208511-AREA00000000001
AGENCY INTEREST(AI) NAME: BAYTOWN CARBON TET. PLUME
ADDRESS: 13150 40TH ST N
LAKE ELMO, MN 55042
OWNER:
OWNER ADDRESS:

FACILITY DETAILS
TYPE OF REMEDIATION SITE: SUPERFUND SUB-AREA
SITE ID: SR0001336
SITE NAME: BAYTOWN CARBON TET. PLUME
MPCA HYDROGEOLOGIST OR HYDROLOGIST ASSIGNED TO THE SITE: NOT REPORTED
MPCA PROJECT MANAGER ASSIGNED TO THE SITE: ALLEN DOTSON (FORMER)
WAS THIS SITE MIGRATED FROM AN EARLIER DATABASE?:
RELEASE DISCOVERED: NOT REPORTED
RELEASE REPORTED: NOT REPORTED
DATE THE APPLICATION / NOTIFICATION RECEIVED: 12/26/1997
DATE THIS SITE WAS LISTED ON THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): 12/1/1988
DATE THIS SITE WAS DELISTED FROM THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS LISTED ON THE NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELETED FROM NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
SITE CLOSURE DATE: NOT REPORTED

Back to Report Summary
Superfund Site Information Listing (SF)

MAP ID# 21
Distance from Property: 0.97 mi. (5,122 ft.) W
Elevation: 938 ft. (Higher than TP)

FACILITY INFORMATION
UNIQUE ID: 208511SF
SITE ID: 208511
SITE NAME: BAYTOWN CARBON TET. PLUME
ADDRESS: 13150 40TH ST N
LAKE ELMO, MN 55042 WASHINGTON
SITE URL: https://cf.pca.state.mn.us/wimn/siteInfo.cfm?siteid=208511

FACILITY DETAILS
ID: SR0001336
TYPE: SUPERFUND
WATERSHED: LOWER ST. CROIX RIVER
ACTIVE?: NO
INDUSTRY CLASSIFICATION: NOT REPORTED
INSTITUTIONAL CONTROLS: NO

Back to Report Summary
MAP ID# 22
Distance from Property: 0.98 mi. (5,174 ft.) N
Elevation: 887 ft. (Lower than TP)

FACILITY INFORMATION
GEOSEARCH ID:    197331
AGENCY INTEREST(AI) ID:     197331
ITEM ID:     197331-AREA0000000001
AGENCY INTEREST(AI) NAME:     GREENBRIAR APARTMENTS
ADDRESS:   14847 N 60TH ST
          OAK PARK HEIGHTS, MN 55082
OWNER:
OWNER ADDRESS:

FACILITY DETAILS
TYPE OF REMEDIATION SITE: LEAK SITE
SITE ID: LS0005014
SITE NAME: GREENBRIAR APARTMENTS
MPCA HYDROGEOLOGIST OR HYDROLOGIST ASSIGNED TO THE SITE: NOT REPORTED
MPCA PROJECT MANAGER ASSIGNED TO THE SITE: PAT HANSON (NO LONGER AT MPCA)
WAS THIS SITE MIGRATED FROM AN EARLIER DATABASE?:
RELEASE DISCOVERED: 2/20/1992
RELEASE REPORTED: 2/20/1992
DATE THE APPLICATION / NOTIFICATION RECEIVED: NOT REPORTED
DATE THIS SITE WAS LISTED ON THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELISTED FROM THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS LISTED ON THE NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELETED FROM NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
SITE CLOSURE DATE: 6/17/1992

Back to Report Summary
MAP ID# 23  
Distance from Property: 0.99 mi. (5,227 ft.) N  
Elevation: 906 ft. (Lower than TP)

FACILITY INFORMATION
GEOSEARCH ID:  188771  
AGENCY INTEREST(AI) ID:  188771  
ITEM ID:  188771-AREA0000000001  
AGENCY INTEREST(AI) NAME:  S.P. 8214-114 ST. CROIX CROSSING  
ADDRESS:  SEE LOCATION DESCRIPTION  
STILLWATER, MN 55082

OWNER:
OWNER ADDRESS:

FACILITY DETAILS
TYPE OF REMEDIATION SITE: BROWNFIELD SITE  
SITE ID: VP29090  
SITE NAME: S.P. 8214-114 ST. CROIX CROSSING  
MPCA HYDROGEOLOGIST OR HYDROLOGIST ASSIGNED TO THE SITE: NOT REPORTED  
MPCA PROJECT MANAGER ASSIGNED TO THE SITE: ANDREW NICHOLS  
WAS THIS SITE MIGRATED FROM AN EARLIER DATABASE?:  
RELEASE DISCOVERED: NOT REPORTED  
RELEASE REPORTED: NOT REPORTED  
DATE THE APPLICATION / NOTIFICATION RECEIVED: NOT REPORTED  
DATE THIS SITE WAS LISTED ON THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED  
DATE THIS SITE WAS DELISTED FROM THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED  
DATE THIS SITE WAS LISTED ON THE NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED  
DATE THIS SITE WAS DELETED FROM NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED  
SITE CLOSURE DATE: NOT REPORTED

--
TYPE OF REMEDIATION SITE: BROWNFIELD SITE  
SITE ID: VP29090  
SITE NAME: S.P. 8214-114 ST. CROIX CROSSING  
MPCA HYDROGEOLOGIST OR HYDROLOGIST ASSIGNED TO THE SITE: NOT REPORTED  
MPCA PROJECT MANAGER ASSIGNED TO THE SITE: ANDREW NICHOLS  
WAS THIS SITE MIGRATED FROM AN EARLIER DATABASE?:  
RELEASE DISCOVERED: NOT REPORTED  
RELEASE REPORTED: NOT REPORTED  
DATE THE APPLICATION / NOTIFICATION RECEIVED: 9/17/2012  
DATE THIS SITE WAS LISTED ON THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED  
DATE THIS SITE WAS DELISTED FROM THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED  
DATE THIS SITE WAS LISTED ON THE NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED  
DATE THIS SITE WAS DELETED FROM NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED  
SITE CLOSURE DATE: NOT REPORTED

Back to Report Summary
Distance from Property: 1 mi. (5,280 ft.) N
Elevation: 912 ft. (Lower than TP)

FACILITY INFORMATION
GEOSEARCH ID:    113098
AGENCY INTEREST(AI) ID:     113098
ITEM ID:     113098-AREA0000000001
AGENCY INTEREST(AI) NAME:     CROWN AUTO INC
ADDRESS:   14450 60TH ST N
        STILLWATER, MN 55082
OWNER:
OWNER ADDRESS:

FACILITY DETAILS
TYPE OF REMEDIATION SITE: LEAK SITE
SITE ID: LS0004379
SITE NAME: CROWN AUTO INC
MPCA HYDROGEOLOGIST OR HYDROLOGIST ASSIGNED TO THE SITE: NOT REPORTED
MPCA PROJECT MANAGER ASSIGNED TO THE SITE: PAT HANSON (NO LONGER AT MPCA)
WAS THIS SITE MIGRATED FROM AN EARLIER DATABASE?:
RELEASE DISCOVERED: 8/2/1991
RELEASE REPORTED: 8/2/1991
DATE THE APPLICATION / NOTIFICATION RECEIVED: NOT REPORTED
DATE THIS SITE WAS LISTED ON THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELISTED FROM THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS LISTED ON THE NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELETED FROM NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
SITE CLOSURE DATE: 10/27/1991

Back to Report Summary
MAP ID# 25  Distance from Property: 1.01 mi. (5,333 ft.) NW
          Elevation: 932 ft. (Higher than TP)

FACILITY INFORMATION
GEOSEARCH ID:  186670
AGENCY INTEREST(AI) ID:  186670
ITEM ID:  186670-AREA0000000001
AGENCY INTEREST(AI) NAME:  OFFICE BUILDING
ADDRESS:  13481 60TH ST N
          OAK PARK HEIGHTS, MN 55082
OWNER:  
OWNER ADDRESS:  

FACILITY DETAILS
TYPE OF REMEDIATION SITE: LEAK SITE
SITE ID: LS0009925
SITE NAME: OFFICE BUILDING
MPCA HYDROGEOLOGIST OR HYDROLOGIST ASSIGNED TO THE SITE: NOT REPORTED
MPCA PROJECT MANAGER ASSIGNED TO THE SITE: LAURA HYSJULIEN (NO LONGER AT MPCA)
WAS THIS SITE MIGRATED FROM AN EARLIER DATABASE?:  
RELEASE DISCOVERED: 2/4/1997
RELEASE REPORTED: 2/4/1997
DATE THE APPLICATION / NOTIFICATION RECEIVED: NOT REPORTED
DATE THIS SITE WAS LISTED ON THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELETED FROM THE PERMANENT LIST OF PRIORITIES (THE STATE SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS LISTED ON THE NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
DATE THIS SITE WAS DELETED FROM NATIONAL PRIORITIES LIST (THE FEDERAL SUPERFUND LIST): NOT REPORTED
SITE CLOSURE DATE: 5/23/1997

Back to Report Summary
Unlocated Sites Summary

This list contains sites that could not be mapped due to limited or incomplete address information.

No Records Found
The United States Environmental Protection Agency (EPA) modified the Aerometric Information Retrieval System (AIRS) to a database that exclusively tracks the compliance of stationary sources of air pollution with EPA regulations: the Air Facility Subsystem (AFS). Since this change in 2001, the management of the AIRS/AFS database was assigned to EPA's Office of Enforcement and Compliance Assurance.

The United States Environmental Protection Agency (EPA), in cooperation with the States, biennially collects information regarding the generation, management, and final disposition of hazardous wastes regulated under the Resource Conservation and Recovery Act of 1976 (RCRA), as amended. The Biennial Report captures detailed data on the generation of hazardous waste from large quantity generators and data on waste management practices from treatment, storage and disposal facilities. Currently, the EPA states that data collected between 1991 and 1997 was originally a part of the defunct Biennial Reporting System and is now incorporated into the RCRAInfo data system.

The U.S. Department of Justice (“the Department”) provides this information as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments. The Department does not establish, implement, enforce, or certify compliance with clean-up or remediation standards for contaminated sites; the public should contact a state or local health department or environmental protection agency for that information.

The United States Environmental Protection Agency Docket data lists Civil Case Defendants, filing dates as far back as 1971, laws broken including section, violations that occurred, pollutants involved, penalties assessed and superfund awards by facility and location. Please refer to ICIS database as source of current data.

This database includes site locations where Engineering and/or Institutional Controls have been identified as part
of a selected remedy for the site as defined by United States Environmental Protection Agency official remedy decision documents. A site listing does not indicate that the institutional and engineering controls are currently in place nor will be in place once the remedy is complete; it only indicates that the decision to include either of them in the remedy is documented as of the completed date of the document. Institutional controls are actions, such as legal controls, that help minimize the potential for human exposure to contamination by ensuring appropriate land or resource use. Engineering controls include caps, barriers, or other device engineering to prevent access, exposure, or continued migration of contamination.

ECHOR05                              Enforcement and Compliance History Information
VERSION DATE: 08/26/17

The EPA's Enforcement and Compliance History Online (ECHO) database, provides compliance and enforcement information for facilities nationwide. This database includes facilities regulated as Clean Air Act stationary sources, Clean Water Act direct dischargers, Resource Conservation and Recovery Act hazardous waste handlers, Safe Drinking Water Act public water systems along with other data, such as Toxics Release Inventory releases.

ERNSMN                              Emergency Response Notification System
VERSION DATE: 04/17/17

This National Response Center database contains data on reported releases of oil, chemical, radiological, biological, and/or etiological discharges into the environment anywhere in the United States and its territories. The data comes from spill reports made to the U.S. Environmental Protection Agency, U.S. Coast Guard, the National Response Center and/or the U.S. Department of Transportation.

FRSMN                              Facility Registry System
VERSION DATE: 04/04/17

The United States Environmental Protection Agency's Office of Environmental Information (OEI) developed the Facility Registry System (FRS) as the centrally managed database that identifies facilities, sites or places subject to environmental regulations or of environmental interest. The Facility Registry System replaced the Facility Index System or FINDS database.

HMIRSR05                              Hazardous Materials Incident Reporting System
VERSION DATE: 08/30/17

The HMIRS database contains unintentional hazardous materials release information reported to the U.S. Department of Transportation located in EPA Region 5. Region 5 includes the following states: Illinois, Indiana, Michigan, Minnesota, Ohio, and Wisconsin.

ICIS                              Integrated Compliance Information System (formerly DOCKETS)
VERSION DATE: 09/23/17
ICIS is a case activity tracking and management system for civil, judicial, and administrative federal Environmental Protection Agency enforcement cases. ICIS contains information on federal administrative and federal judicial cases under the following environmental statutes: the Clean Air Act, the Clean Water Act, the Resource Conservation and Recovery Act, the Emergency Planning and Community Right-to-Know Act - Section 313, the Toxic Substances Control Act, the Federal Insecticide, Fungicide, and Rodenticide Act, the Comprehensive Environmental Response, Compensation, and Liability Act, the Safe Drinking Water Act, and the Marine Protection, Research, and Sanctuaries Act.

<table>
<thead>
<tr>
<th>ICISNPDES</th>
<th>Integrated Compliance Information System National Pollutant Discharge Elimination System</th>
</tr>
</thead>
<tbody>
<tr>
<td>VERSION DATE: 07/09/17</td>
<td></td>
</tr>
</tbody>
</table>

Authorized by the Clean Water Act, the National Pollutant Discharge Elimination System (NPDES) permit program controls water pollution by regulating point sources that discharge pollutants into waters of the United States.

<table>
<thead>
<tr>
<th>LUCIS</th>
<th>Land Use Control Information System</th>
</tr>
</thead>
<tbody>
<tr>
<td>VERSION DATE: 09/01/06</td>
<td></td>
</tr>
</tbody>
</table>

The LUCIS database is maintained by the U.S. Navy and contains information for former Base Realignment and Closure (BRAC) properties across the United States.

<table>
<thead>
<tr>
<th>MLTS</th>
<th>Material Licensing Tracking System</th>
</tr>
</thead>
<tbody>
<tr>
<td>VERSION DATE: 06/29/17</td>
<td></td>
</tr>
</tbody>
</table>

MLTS is a list of approximately 8,100 sites which have or use radioactive materials subject to the United States Nuclear Regulatory Commission (NRC) licensing requirements.

<table>
<thead>
<tr>
<th>NPDESR05</th>
<th>National Pollutant Discharge Elimination System</th>
</tr>
</thead>
<tbody>
<tr>
<td>VERSION DATE: 04/01/07</td>
<td></td>
</tr>
</tbody>
</table>

Authorized by the Clean Water Act, the National Pollutant Discharge Elimination System (NPDES) permit program controls water pollution by regulating point sources that discharge pollutants into waters of the United States. The NPDES database was collected from December 2002 until April 2007. Refer to the PCS and/or ICIS-NPDES database as source of current data. This database includes permitted facilities located in EPA Region 5. This region includes the following states: Illinois, Indiana, Michigan, Minnesota, Ohio, and Wisconsin.

<table>
<thead>
<tr>
<th>PADS</th>
<th>PCB Activity Database System</th>
</tr>
</thead>
<tbody>
<tr>
<td>VERSION DATE: 07/18/17</td>
<td></td>
</tr>
</tbody>
</table>

PADS identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.
The Permit Compliance System is used in tracking enforcement status and permit compliance of facilities controlled by the National Pollutant Discharge Elimination System (NPDES) under the Clean Water Act and is maintained by the United States Environmental Protection Agency's Office of Compliance. PCS is designed to support the NPDES program at the state, regional, and national levels. This database includes permitted facilities located in EPA Region 5. This region includes the following states: Illinois, Indiana, Michigan, Minnesota, Ohio, and Wisconsin. PCS has been modernized, and no longer exists. National Pollutant Discharge Elimination System (ICIS-NPDES) data can now be found in Integrated Compliance Information System (ICIS).

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities with institutional controls in place.

The U.S. Environmental Protections Agency's (EPA) Office of Solid Waste and Emergency Response, Office of Superfund Remediation and Technology Innovation (OSRTI), has implemented The Superfund Enterprise Management System (SEMS), formerly known as CERCLIS (Comprehensive Environmental Response, Compensation and Liability Information System) to track and report on clean-up and enforcement activities taking place at Superfund sites. SEMS represents a joint development and ongoing collaboration between Superfund's Remedial, Removal, Federal Facilities, Enforcement and Emergency Response programs. This is a listing of SEMS sites with a lien on the property.

A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which United States Environmental Protection Agency has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties. This database contains those CERCLIS sites where the Lien on Property action is complete.
The United States Environmental Protection Agency tracks information on pesticide establishments through the Section Seven Tracking System (SSTS). SSTS records the registration of new establishments and records pesticide production at each establishment. The Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) requires that production of pesticides or devices be conducted in a registered pesticide-producing or device-producing establishment. ("Production" includes formulation, packaging, repackaging, and relabeling.)

The Toxics Release Inventory, provided by the United States Environmental Protection Agency, includes data on toxic chemical releases and waste management activities from certain industries as well as federal and tribal facilities. This inventory contains information about the types and amounts of toxic chemicals that are released each year to the air, water, and land as well as information on the quantities of toxic chemicals sent to other facilities for further waste management.

The Toxic Substances Control Act (TSCA) was enacted in 1976 to ensure that chemicals manufactured, imported, processed, or distributed in commerce, or used or disposed of in the United States do not pose any unreasonable risks to human health or the environment. TSCA section 8(b) provides the United States Environmental Protection Agency authority to "compile, keep current, and publish a list of each chemical substance that is manufactured or processed in the United States." This TSCA Chemical Substance Inventory contains non-confidential information on the production amount of toxic chemicals from each manufacturer and importer site.

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities currently generating hazardous waste. EPA Region 5 includes the following states: Illinois, Indiana, Michigan, Minnesota, Ohio, and Wisconsin.
The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities classified as non-generators. Non-Generators do not presently generate hazardous waste. EPA Region 5 includes the following states: Illinois, Indiana, Michigan, Minnesota, Ohio, and Wisconsin.


This is a listing of FEMA owned underground and aboveground storage tank sites. For security reasons, address information is not released to the public according to the U.S. Department of Homeland Security.

This historic directory of service stations is provided by the Cities Service Company. The directory includes Cities Service filling stations that were located throughout the United States in 1930.

This is a listing of drycleaner facilities from the Integrated Compliance Information System (ICIS). The Environmental Protection Agency (EPA) tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments.
MRDS (Mineral Resource Data System) is a collection of reports describing metallic and nonmetallic mineral resources throughout the world. Included are deposit name, location, commodity, deposit description, geologic characteristics, production, reserves, resources, and references. This database contains the records previously provided in the Mineral Resource Data System (MRDS) of USGS and the Mineral Availability System/Mineral Industry Locator System (MAS/MILS) originated in the U.S. Bureau of Mines, which is now part of USGS.

### MSHA - Mine Safety and Health Administration Master Index File

**VERSION DATE: 09/01/17**

The Mine dataset lists all Coal and Metal/Non-Metal mines under MSHA's jurisdiction since 1/1/1970. It includes such information as the current status of each mine (Active, Abandoned, NonProducing, etc.), the current owner and operating company, commodity codes and physical attributes of the mine. Mine ID is the unique key for this data. This information is provided by the United States Department of Labor - Mine Safety and Health Administration (MSHA).

### BF - Brownfields Management System

**VERSION DATE: 08/17/17**

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. The United States Environmental Protection Agency maintains this database to track activities in the various brown field grant programs including grantee assessment, site cleanup and site redevelopment. This database included tribal brownfield sites.

### NLRRCRAT - No Longer Regulated RCRA Non-CORRACTS TSD Facilities

**VERSION DATE: 06/12/17**

This database includes RCRA Non-Corrective Action TSD facilities that are no longer regulated by the United States Environmental Protection Agency or do not meet other RCRA reporting requirements. This listing includes facilities that formerly treated, stored or disposed of hazardous waste.

### ODI - Open Dump Inventory

**VERSION DATE: 06/01/85**

The open dump inventory was published by the United States Environmental Protection Agency. An “open dump” is defined as a facility or site where solid waste is disposed of which is not a sanitary landfill which meets the criteria promulgated under section 4004 of the Solid Waste Disposal Act (42 U.S.C. 6944) and which is not a facility for disposal of hazardous waste. This inventory has not been updated since June 1985.
The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities recognized as hazardous waste treatment, storage, and disposal sites (TSD).

**SEMS**
Superfund Enterprise Management System
VERSION DATE: 07/11/17

The U.S. Environmental Protection Agency’s (EPA) Office of Solid Waste and Emergency Response, Office of Superfund Remediation and Technology Innovation (OSRTI), has implemented The Superfund Enterprise Management System (SEMS), formerly known as CERCLIS (Comprehensive Environmental Response, Compensation and Liability Information System) to track and report on clean-up and enforcement activities taking place at Superfund sites. SEMS represents a joint development and ongoing collaboration between Superfund's Remedial, Removal, Federal Facilities, Enforcement and Emergency Response programs.

**SEMSARCH**
Superfund Enterprise Management System Archived Site Inventory
VERSION DATE: 07/11/17

The Superfund Enterprise Management System Archive listing (SEMS-ARCHIVE) has replaced the CERCLIS NFRAP reporting system in 2015. This listing reflects sites that have been assessed and no further remediation is planned and is of no further interest under the Superfund program.

**SMCRA**
Surface Mining Control and Reclamation Act Sites
VERSION DATE: 08/25/17

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

**USUMTRCA**
Uranium Mill Tailings Radiation Control Act Sites
VERSION DATE: 03/04/17

The Legacy Management Office of the Department of Energy (DOE) manages radioactive and chemical waste, environmental contamination, and hazardous material at over 100 sites across the U.S. The L.M. Office manages this database of sites registered under the Uranium Mill Tailings Control Act (UMTRCA).
Environmental Records Definitions - FEDERAL

DNPL                              Delisted National Priorities List
VERSION DATE: 07/11/17

This database includes sites from the United States Environmental Protection Agency’s Final National Priorities List (NPL) where remedies have proven to be satisfactory or sites where the original analyses were inaccurate, and the site is no longer appropriate for inclusion on the NPL, and final publication in the Federal Register has occurred.

DOD                              Department of Defense Sites
VERSION DATE: 06/21/10

This information originates from the National Atlas of the United States Federal Lands data, which includes lands owned or administered by the Federal government. Army DOD, Army Corps of Engineers DOD, Air Force DOD, Navy DOD and Marine DOD areas of 640 acres or more are included.

FUDS                              Formerly Used Defense Sites
VERSION DATE: 06/01/15

The Formerly Used Defense Sites (FUDS) inventory includes properties previously owned by or leased to the United States and under Secretary of Defense Jurisdiction, as well as Munitions Response Areas (MRAs). The remediation of these properties is the responsibility of the Department of Defense. This data is provided by the U.S. Army Corps of Engineers (USACE), the boundaries/polygon data are based on preliminary findings and not all properties currently have polygon data available. DISCLAIMER: This data represents the results of data collection/processing for a specific USACE activity and is in no way to be considered comprehensive or to be used in any legal or official capacity as presented on this site. While the USACE has made a reasonable effort to insure the accuracy of the maps and associated data, it should be explicitly noted that USACE makes no warranty, representation or guaranty, either expressed or implied, as to the content, sequence, accuracy, timeliness or completeness of any of the data provided herein. For additional information on Formerly Used Defense Sites please contact the USACE Public Affairs Office at (202) 528-4285.

FUSRAP                              Formerly Utilized Sites Remedial Action Program
VERSION DATE: 03/04/17

The U.S. DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from the Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations. The DOE Office of Legacy Management (LM) established long-term surveillance and maintenance (LTS&M) requirements for remediated FUSRAP sites. DOE evaluates the final site conditions of a remediated site on the basis of risk for different future uses. DOE then confirms that LTS&M requirements will maintain protectiveiveness.
No Longer Regulated RCRA Corrective Action Facilities
 VERSION DATE: 06/12/17

This database includes RCRA Corrective Action facilities that are no longer regulated by the United States Environmental Protection Agency or do not meet other RCRA reporting requirements.

Former Military Nike Missile Sites
 VERSION DATE: 12/01/84

This information was taken from report DRXTH-AS-IA-83A016 (Historical Overview of the Nike Missile System, 12/1984) which was performed by Environmental Science and Engineering, Inc. for the U.S. Army Toxic and Hazardous Materials Agency Assessment Division. The Nike system was deployed between 1954 and the mid-1970's. Among the substances used or stored on Nike sites were liquid missile fuel (JP-4); starter fluids (UDKH, aniline, and furfuryl alcohol); oxidizer (IRFNA); hydrocarbons (motor oil, hydraulic fluid, diesel fuel, gasoline, heating oil); solvents (carbon tetrachloride, trichloroethylene, trichloroethane, stoddard solvent); and battery electrolyte. The quantities of material a disposed of and procedures for disposal are not documented in published reports. Virtually all information concerning the potential for contamination at Nike sites is confined to personnel who were assigned to Nike sites. During deactivation most hardware was shipped to depot-level supply points. There were reportedly instances where excess materials were disposed of on or near the site itself at closure. There was reportedly no routine site decontamination.

National Priorities List
 VERSION DATE: 07/11/17

This database includes United States Environmental Protection Agency (EPA) National Priorities List sites that fall under the EPA's Superfund program, established to fund the cleanup of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action.

Proposed National Priorities List
 VERSION DATE: 07/11/17

This database contains sites proposed to be included on the National Priorities List (NPL) in the Federal Register. The United States Environmental Protection Agency investigates these sites to determine if they may present long-term threats to public health or the environment.

Resource Conservation & Recovery Act - Corrective Action Facilities
 VERSION DATE: 06/12/17

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986
amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities with corrective action activity.

<table>
<thead>
<tr>
<th>RCRASUBC</th>
<th>Resource Conservation &amp; Recovery Act - Subject to Corrective Action Facilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>VERSION DATE: 06/12/17</td>
<td></td>
</tr>
</tbody>
</table>

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities subject to corrective actions.

<table>
<thead>
<tr>
<th>RODS</th>
<th>Record of Decision System</th>
</tr>
</thead>
<tbody>
<tr>
<td>VERSION DATE: 01/23/12</td>
<td></td>
</tr>
</tbody>
</table>

These decision documents maintained by the United States Environmental Protection Agency describe the chosen remedy for NPL (Superfund) site remediation. They also include site history, site description, site characteristics, community participation, enforcement activities, past and present activities, contaminated media, the contaminants present, and scope and role of response action.
<table>
<thead>
<tr>
<th>Database Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIRS</td>
<td>Permitted Air Facilities</td>
</tr>
<tr>
<td></td>
<td>VERSION DATE: 10/03/17</td>
</tr>
<tr>
<td>This database contains facilities with air permits issued by the Minnesota Pollution Control Agency. These permits identify the units at each facility that generate air pollutants and, where applicable, the limits on those emissions. In some cases a permit may also authorize construction or modification of a facility.</td>
<td></td>
</tr>
<tr>
<td>CDL</td>
<td>Clandestine Drug Laboratory Locations</td>
</tr>
<tr>
<td></td>
<td>VERSION DATE: 09/14/17</td>
</tr>
<tr>
<td>This listing of clandestine methamphetamine laboratories is provided by the Minnesota Department of Health. Each meth lab, spill or dump is a potential hazardous waste site, requiring assessment and remediation by experienced and qualified personnel. Former meth lab sites are being cleaned (or remediated) in many Minnesota communities. In these communities, the cleanups are being guided by city and county ordinances, local housing laws, and Minnesota Statute 145A, the Public Health Nuisance Statute.</td>
<td></td>
</tr>
<tr>
<td>FEEDLOT</td>
<td>Feedlots</td>
</tr>
<tr>
<td></td>
<td>VERSION DATE: 10/03/17</td>
</tr>
<tr>
<td>Feedlots may be small farms or large-scale commercial livestock operations. They are places where animals are confined for feeding, breeding or holding. The Minnesota Pollution Control Agency (MPCA) and its county partners place requirements on how manure is managed at feedlots, so that it does not contaminate nearby surface water and groundwater.</td>
<td></td>
</tr>
<tr>
<td>PCASPIIFFS</td>
<td>Spills Listing</td>
</tr>
<tr>
<td></td>
<td>VERSION DATE: 04/21/17</td>
</tr>
<tr>
<td>The Minnesota Pollution Control Agency's Emergency Response Team maintains this listing of reported petroleum product, hazardous substance, and/or other spills.</td>
<td></td>
</tr>
<tr>
<td>SWUP</td>
<td>Solid Waste Utilization Projects</td>
</tr>
<tr>
<td></td>
<td>VERSION DATE: 05/08/17</td>
</tr>
<tr>
<td>According to the Minnesota Pollution Control Agency, a solid waste utilization project uses certain wastes in a new way to recycle the material instead of putting it into a landfill. An example is using tires to create furniture. The beneficial use of waste products saves landfill capacity for materials that do not have alternative uses. By using solid waste, individuals and organizations can reduce disposal costs, or even generate profit through the sale of materials that have a beneficial use.</td>
<td></td>
</tr>
<tr>
<td>TIERII</td>
<td>Tier Two Facility Listing</td>
</tr>
<tr>
<td></td>
<td>VERSION DATE: 04/19/17</td>
</tr>
</tbody>
</table>
Environmental Records Definitions - STATE (MN)

The Minnesota Department of Public Safety’s Emergency Planning and Community Right-to-Know Act Program (EPCRA) maintains this listing of Tier Two facilities which store hazardous chemicals on-site. These facilities subject to EPCRA reporting submit Tier II forms which provide information such as the Material Safety Data Sheet (MSDS) chemical or common name, emergency contact information, approximate amount of chemical stored, along with the location of the chemical at the facility.

WDP                              Water Discharge Permits
VERSION DATE: 06/08/17

This Minnesota Pollution Control Agency (MPCA) database includes the following types of water permits: Construction Stormwater Permits, Construction Stormwater Site Subdivisions, Industrial Stormwater Permits, MS4 Projects, and Wastewater Dischargers. A construction stormwater permit is designed to limit pollution during and after construction by controlling the erosion associated with construction activities. A construction stormwater site subdivision is a site where a construction project with an existing stormwater permit has been sub-divided into smaller parcels. Industrial stormwater permits are designed to limit the amount of harmful contaminants that reach surface water and groundwater, by requiring good practices for storing and handling materials. A Municipal Separate Storm Sewer System (MS4) is a system of conveyances - such as gutters, ditches, city streets and storm drains - which is used as a path for stormwater. Regulated MS4s cover large areas, and are owned or operated by a public entity such as a city, county, township, watershed district or university. A wastewater discharger is a facility that generates or treats wastewater for discharge onto land or into water.

BULKSTORAGE                              Bulk Storage Permits
VERSION DATE: 06/14/17

The Minnesota Department of Agriculture's Licensing Information System (LIS) lists individuals or companies who hold licenses, certificates and/or permits required by state law and regulated by the Department. This database only contains those LIS licenses related to anhydrous ammonia storage facilities and bulk pesticide/fertilizer storage facilities. Please note the data is real time and therefore constantly changing.

CLEANERS                              Registered Drycleaning Facilities
VERSION DATE: 02/27/17

The Minnesota Pollution Control Agency maintains this listing of registered dry cleaning facilities.

IC                              Sites with Institutional Controls
VERSION DATE: 08/27/17

Institutional controls are defined by Minnesota Statute, Section 115B.02, subdivision 9a, as legally enforceable restrictions, conditions, or controls on the use of real property, ground water, or surface water located at or adjacent to a facility where response actions are taken that are reasonably required to assure that the response actions are protective of public health or welfare or the environment. Institutional controls include restrictions,
conditions, or controls enforceable by contract, easement, restrictive covenant, statute, ordinance, or rule, including official controls such as zoning, building codes, and official maps. An affidavit required under section 115B.16, subdivision 2, or similar notice of a release recorded with real property records is also an institutional control.

PBRLF  Permitted By Rule Landfills
VERSION DATE: 10/03/17

According to the Minnesota Pollution Control Agency, a landfill that is permitted by rule is not required to obtain an individual solid waste permit if it meets certain eligibility criteria. However, it must comply with waste management rules and regulations. Landfills may be permitted by rule if they have a small capacity and/or operate for a short period of time.

UAST  Registered Storage Tanks
VERSION DATE: 08/25/17

The Registered Storage Tanks Database provides information on aboveground and underground storage tanks registered with the Minnesota Pollution Control Agency. Owners of USTs and ASTs with a capacity of 500 gallons or more which contain petroleum or hazardous substances must notify the MPCA of the existence of these tanks. Tanks not subject to notification include farm and residential motor fuel tanks less than 1,100 gallons; heating oil tanks less than 1,100 gallons; flow-through process tanks; septic tanks; and agricultural chemical tanks. Some of the data included reflects storage tanks reported in the old "TALES" database. New data reported here is from the MPCA's new "TEMPO" database.

AGSPILLS  Agricultural Spills Listing
VERSION DATE: 06/08/17

This list of reported spill incidents is provided by the Minnesota Department of Agriculture (MDA). The MDA is the lead agency for response to, and cleanup of, agricultural chemical contamination (pesticides and fertilizers) in Minnesota. The MDA has grouped these spills into three categories: Old Emergencies, Small Spills and Investigations, and Investigations Boundaries. Old Emergencies represent emergencies which were closed prior to March 1, 2004. These files and the locations plotted have not been reviewed for accuracy and completeness. Small Spills and Investigations represent the location of small spills and investigations, which were closed after March 1, 2004. Investigation Boundaries represent the approximate extent of large spills and other types of facility investigations. Facility Investigations are further subdivided into the following program areas: Awaiting Prioritization Investigation files of known or potential agricultural chemical contamination that are waiting to be prioritized; Prioritized Investigation files of known or potential agricultural chemical contamination that have been prioritized and are awaiting activation; Comprehensive Facility Investigation/MERLA Investigation files of known or potential agricultural chemical contamination that have been activated in MDA's Comprehensive Facility Investigation Program or are active Superfund sites under MDA's oversite; AgVIC Investigation files of known or potential agricultural chemical contamination that have enrolled in the MDA's Agricultural Voluntary Investigation and Cleanup (AgVIC) Program; and Agricultural Chemical Emergency Response Investigation files that were reported as emergency spills of agricultural chemicals and are large enough in size to be represented by a
A Concentrated Animal Feeding Operation (CAFO) is any feeding operation with a capacity of 1,000 or more animal units according to federal animal unit calculations. The Minnesota Pollution Control Agency can also define a facility with less than 1,000 animal units as a CAFO on a case-by-case basis, depending on site conditions, and if manure or process wastewater is directly discharged to waters of the state. Facilities that are CAFOs must comply with both federal regulations and state rules. Two or more feedlots under common ownership are considered a single facility if they adjoin each other or use the same manure storage or disposal system.

This database includes closed solid waste facilities and sites that have been entered into the PCA’s Closed Landfill Program (CLP). The CLP is a voluntary program established by the legislature in 1994 to properly close, monitor, and maintain Minnesota’s closed municipal sanitary landfills. Any MPCA-permitted mixed-municipal solid waste landfill that stopped accepting mixed municipal solid waste (MMSW) by April 9, 1994, and demolition debris before May 1, 1995, can qualify for application to this program.

The Minnesota Department of Agriculture (MDA) Incident Response Unit (IRU) is the state lead agency for the investigation and remediation of incidents involving agricultural chemicals (pesticides and fertilizer). This MDA IRU database includes sites with a soil or ground water contingency, deed restriction, local ordinance, restrictive covenant or deed affidavit in place. The accuracy of these sites can be variable. In most cases, the site boundaries should be considered as only representing the vicinity of the soil or ground water contingency area or plume.

The Minnesota Pollution Control Agency maintains this listing of leaking aboveground and underground storage tanks. Tank owners are required to immediately report a leak or spill of more than five gallons of petroleum, or any amount of a hazardous substance, from any tank or piping. All leaks and spills from USTs and ASTs and associated piping must be cleaned up to protect the environment and public health.
This listing of Petroleum Brownfield sites, including those with Development Response Action Plans dated between 2008 and 2012, is provided by the Minnesota Pollution Control Agency (MPCA). The Petroleum Brownfields Program (formerly VPIC) provides the technical assistance and liability assurance needed to facilitate and expedite the development, transfer, investigation and/or cleanup of property that is contaminated with petroleum. Even after cleanup or MPCA file closure most properties will have contamination remaining. State law requires that persons properly manage contaminated soil and water they uncover or disturb - even if they are not the party responsible for the contamination. Property owners, purchasers or developers of property where contaminated soil or water might be encountered may include provisions - called "response actions" - in development plans describing how petroleum contaminated soil and water will be managed if encountered. For some properties, special construction might be needed to prevent the further spreading of the contamination and/or to prevent petroleum vapors from entering buildings or utility access shafts.

PVICP  Potential Voluntary Investigation and Cleanup Program Sites
VERSION DATE: 04/22/16

This listing of Potential Voluntary Investigation and Cleanup Program sites is provided by the Minnesota Pollution Control Agency. These potential sites have not yet entered into the VIC Program until an application has been received at the MPCA.

SAS  State Assessment Sites
VERSION DATE: 10/03/17

State Assessment sites are places that Minnesota Pollution Control Agency (MPCA) Site Assessment staff have investigated because of suspected contamination. The sites investigated include abandoned industrial properties, small commercial businesses and publicly-owned land. (Note that petroleum-contaminated sites are investigated by MPCA Tanks and Leaks staff.) These sites may be referred to the Site Assessment program by the Voluntary Investigation and Cleanup (VIC) program, the Petroleum Remediation program, Minnesota Duty Officer reports or citizen complaints. Site Assessment staff do an initial assessment, and then determine if further action is needed. If a site poses a threat to human health or the environment, it is referred to CERCLIS, Superfund, RCRA Cleanup or VIC.

SRS  Site Response Section Database
VERSION DATE: 04/22/16

The Minnesota Pollution Control Agency (MPCA) is involved in remediation activities through various programs. Remediation is the process of cleaning up pollution in the soil, water or air. The pollution can result from an accidental spill or from activities that occur over a long time. This MPCA database includes remediation sites from the Superfund, Voluntary Investigation and Cleanup, Brownfields, Resource Conservation and Recovery Act, Tanks, Landfills, and Emergency Response Programs.
Open landfills are regulated by Minnesota Rules 7001 and 7035. They actively accept, under the terms and conditions of a Minnesota Pollution Control Agency permit, certain types of wastes for disposal. They are part of a larger and integrated collection of open solid waste management facilities that process, transfer and receive waste for disposal in Minnesota. Open landfills fall into several categories, which include: demolition, industrial, mixed municipal and municipal waste combustor ash.

Unpermitted dump sites are landfills that never held a valid permit from the Minnesota Pollution Control Agency (MPCA). Generally, these dumps existed prior to the permitting program established with the creation of the MPCA in 1967. These dumps are not restricted to any type of waste, but were often old farm or municipal disposal sites that accepted household waste. State assessment staff have investigated many of these dump sites.

The Voluntary Investigation and Cleanup (VIC) Program site listing is provided by the Minnesota Pollution Control Agency. This program encourages timely property transactions by reducing potential health or environmental risks from contamination and promoting the redevelopment of these properties.

This online application offers you a way to access a wide variety of environmental information about your community. You can search for: A.) Potentially contaminated sites: Since the early 1980s when major federal and state cleanup programs were created, the MPCA has been aggressively searching for and helping to clean up contaminated properties, from very small to large. This website contains a searchable inventory of those properties, as well as sites that have already been cleaned up and those currently being investigated or cleaned up. B.) Environmental permits and registrations: This Web application also contains a searchable inventory of businesses that have applied for and received different types of environmental permits and registrations from the MPCA.

This is a temporary database of MPCA remediation sites. This is the only updated source of remediation data available while the MPCA migrates their information to an updated platform. The environmental site types that
The Minnesota Pollution Control Agency's Superfund Program identifies, investigates and determines appropriate cleanup plans for abandoned or uncontrolled hazardous waste sites where a release or potential release of a hazardous substance poses a risk to human health or the environment. Superfund does not deal with Resource Conservation and Recovery Act (RCRA) sites or petroleum storage tank releases.
USTR05 Underground Storage Tanks On Tribal Lands

This database, provided by the United States Environmental Protection Agency (EPA), contains underground storage tanks on Tribal lands located in EPA Region 5. Region 5 includes the following states: Illinois, Indiana, Michigan, Minnesota, Ohio, and Wisconsin.

LUSTR05 Leaking Underground Storage Tanks On Tribal Lands

This database, provided by the United States Environmental Protection Agency (EPA), contains leaking underground storage tanks on Tribal lands located in EPA Region 5. Region 5 includes the following states: Illinois, Indiana, Michigan, Minnesota, Ohio, and Wisconsin.

ODINDIAN Open Dump Inventory on Tribal Lands

This Indian Health Service database contains information about facilities and sites on tribal lands where solid waste is disposed of, which are not sanitary landfills or hazardous waste disposal facilities, and which meet the criteria promulgated under section 4004 of the Solid Waste Disposal Act (42 U.S.C. 6944).

INDIANRES Indian Reservations

The Department of Interior and Bureau of Indian Affairs maintains this database that includes American Indian Reservations, off-reservation trust lands, public domain allotments, Alaska Native Regional Corporations and Recognized State Reservations.
City/County Information
Parcel Number: 08.029.20.11.0010
Property Address: 4867 NORTHBROOK BLVD N
BAYTOWN, MN 55082
Class: RESIDENTIAL
Legal Description: THAT PT OF THE S 288.86FT OF THE N1/2-NE1/4-NE1/4 WHICH LIES ELY OF C/L NORTHBROOK BLVD N & WLY OF ELY 775.46FT AS MEASURED FROM E LN OF SD1/2-1/4-1/4 SUBJ TO A WETLAND PROTECTION EASEMENT SECTION 08 TOWNSHIP 029 RANGE 020

Prior Year Value Information

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GIS Map Information
Pay Your Property Tax by Credit Card or eCheck

No payment due for this account.

Cart: $0.00

Online Payment Fees
Convenience Fees are charged for online property tax payments.

eCheck fee is $0.75 per transaction. Be sure to use the 9 digit bank routing number from your checking account, not the internal bank number from a savings or deposit slip. Pay multiple parcels in one transaction with the payment cart.

Credit Card fee is 2.39% of amount paid. Discover, MasterCard and Visa are accepted. American Express is no longer accepted.

Fees are paid directly to a payment services provider to cover the costs of the online payment services and charges from the credit card companies.

A $30 fee will be charged for non-sufficient fund payments.

Payment information collected by our online services provider, or its'
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The information provided on this website is updated each workday at 7:15 AM, CST. Washington County makes every effort to produce and publish the most current and accurate information possible. No warranties, expressed or implied, are provided for the data herein, its use, or its interpretation. If you have any questions, please contact us at (651)430-6175 or Taxes@co.washington.mn.us.

This site is best viewed using Google Chrome, Internet Explorer 11, Mozilla Firefox or Safari.
Parcel Number: 08.029.20.11.0011
Property Address: 4961 NORTHBROOK BLVD N
BAYTOWN, MN 55082
Class: RESIDENTIAL
Legal Description:
PT N1/2-NE1/4-NE1/4 WHICH LIES ELY OF C/L OF NORTHBROOK BLVD N & SLY OF THE FOLL DESC LN: COM @ NE CORN OF SD1/2-1/4-1/4 THN ON AN ASSUM BRG S50DEGS51' 26"E ALG THE E LN OF SD1/2-1/4-1/4 DIS 288.51FT TO POB OF LN TO BE DESC THN S89DEG50'41"W DIST 365.87FT THN N61DEG28'10" W DIS 214.59FT THN S89DEG50'41"W DIS 502.40FT TO THE C/L OF NORTHBROOK BLVD N & SD LN THERE TERMINATE EXCEPT THE S 288.86FT OF THE N1/2-NE1/4-NE1/4 SD SEC 08 WHICH LIES ELY OF C/L OF NORTHBROOK BLVD N & WLY OF ELY 775.46FT AS MEASUR FROM THE E LN OF SD1/2-1/4-1/4 SUBJ TO WETLAND PROTECTION EASEMENT & TOG WITH DRIVEWAY EASEMT SECTION 08 TOWNSHIP 029 RANGE 020

Prior Year Value Information

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Land Information

- Lot Type: Lump Sum
- Square Feet: 43,560
- Acres: 1.000
- Acres x Rate: 174,240
- Acres x Rate: 155,945
- Total: 373,745

Residential Building Information

- Occupancy Style: Single-Family / Owner Occupied
- Year Built: 2000
- Total Living Area: 3,395

Sale Information

- Sale Date: 02/15/2000
- Amount: $70,000

Building Permit Information

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GIS Map Information
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The information provided on this website is updated each workday at 7:15 AM, CST. Washington County makes every effort to produce and publish the most current and accurate information possible. No warranties, expressed or implied, are provided for the data herein, its use, or its interpretation. If you have any questions, please contact us at (651)430-6175 or Taxes@co.washington.mn.us.

This site is best viewed using Google Chrome, Internet Explorer 11, Mozilla Firefox or Safari.
Parcel Number: 08.029.20.11.0012
Property Address: BAYTOWN, MAPS
Class: RESIDENTIAL

Legal Description:
PT N1/2-NE1/4-NE1/4 WHICH LIES ELY OF C/L OF NORTHSBROOK BLVD N & NLY OF THE FOLL DESC LN: COM @ NE COR SD1/2-1/4-1/4 THN ON AN ASM BRG OF S00DEG51'26"E ALG THE E LN OF SD1/2-1/4-1/4 DIST 288.51FT TO THE POB OF LN TO BE DESC THN S89DEG50'41"W DIST 365.87FT THN N61DEG28'10" W A DIST 214.59FT THN S89DEG50'41"W A DIST 502.40FT TO THE C/L OF NORTHSBROOK BLVD N & SD LN THERE TERMINATING SUBJ TO WETLAND PROT EASE & SUBJ TO DRIVEWAY EASEMT SECTION 08 TOWNSHIP 029 RANGE 020

Prior Year Value Information

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More Years...

Land Information

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GIS Map Information
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### Current Owner:
PIELA RONALD J & ANN M P
4961 NORTHBROOK BLVD N
STILLWATER, MN 55082

### Property Address:
0

### Taxing District
0101 BAYTOWN-834-MSCWMO

### Tax Description
Section 08 Township 029 Range

### Select a Tax Year for Payment History and Tax Detail information.

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Total: $0.00
Parcel Number: 09.029.20.12.0002
Property Address: BAYTOWN, MAPS
Class: AGRICULTURAL

Legal Description:
PT NW1/4-NE1/4 DESC AS FOLL COM AT NE COR OF SD1/4 THN S0DEG37'52"E ASSUM BEAR ALG THE ELY LINE THEREOF 294FT TO PT OF BEG OF PARCEL BEING DESC THN N0DEG37'52" WEST ALG SD ELY LINE 60FT THN S89DEG22'08"W 260FT THN SWLY A DIST 102.67 FT ALG A TANGENTIAL CURVE CONCAVE TO THE SE HAV A RADIUS 60FT & A CENTRAL ANG R89DEG22'08"W THN S89DEG19'49"W ALG THE PROLONGATION OF A LINE RADIAL TO SD CURVE 1016.09FT M/L TO WLY LINE OF SD NW1/4- NE1/4 THN S0DEG47'07"E ALG SD WLY LINE 324.52FT M/L TO NLY LINE OF S 553.23FT OF SD NW1/4 NE1/4 THN N89DEG16'57"E ALG SD NLY LINE 1124.65FT M/L TO WLY LINE OF E 200FT OF SD1/4 THN N0DEG37'52"W ALG SD ELY LINE 60FT THN S89DEG22'08"W FROM PT OF BEG THIN N89DEG22'08"E ALG SD LINE 200FT TO PT OF BEG SUBJ TO R/W OF OSGOOD AVE N ALG THE MOST ELY LINE THEREOF & SUBJ TO EASE FOR ROADWAY & UTILITY PURPOSES OVER UNDER & ACRROSS A 60FT WIDE STRIP OF LAND & ATTACHED 60FT RADIUS CULDE-SAC THE SLY LINE & RADIUS PT OF WHICH ARE DESC AS FOLL: BEG AT PT OF BEG OF ABOVE DESC PAR CEL THN S89DEG22'08"W 260FT TO A PT SD PT BEING THE END OF SLY LINE BEING DESC & THE RADIUS PT OF ATTACHED 60FT RADIUS CULDE-SAC ALL SUBJ TO & TOG WITH ANY OTHER VALID EASEMENTS RESERVATIONS OR RESTRICTIONS SECTION 09 TOWNSHIP 029 RANGE 020

Prior Year Value Information

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<th>Year</th>
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<th>Dwelling Value</th>
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<tr>
<td>2017</td>
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<td>$0</td>
<td>$0</td>
<td>$238,000</td>
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<tr>
<td>2016</td>
<td>$238,000</td>
<td>$0</td>
<td>$0</td>
<td>$238,000</td>
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</table>

Agricultural Land Information

Description

ProdTillAQ - Productive Tillable AQ
ProdTillT - Productive Tillable T
NPM/PT - Non Productive Meadow/Past T

Acreage

ProdTillAQ - 1.000
ProdTillT - 9.000
NPM/PT - 0.840

Sale Information

Sale Date: 04/05/1992
Amount: $42,500

Recording

GIS Map Information
Pay Your Property Tax by Credit Card or eCheck

To make a payment other than the Total Due, use the Partial option and enter the amount.

Select a payment option:
- Total Due $830.00
- Partial

ADD TO CART

Online Payment Fees

Convenience Fees are charged for online property tax payments.

- **eCheck fee is $0.75 per transaction.** Be sure to use the 9 digit bank routing number from your checking account, not the internal bank number from a savings or deposit slip. Pay multiple parcels in one transaction with the payment cart.
- **Credit Card fee is 2.39% of amount paid.** Discover, MasterCard and Visa are accepted. American Express is no longer accepted.

Fees are paid directly to a payment services provider to cover the costs of the online payment services and charges from the credit card companies.

A $30 fee will be charged for non-sufficient fund payments.

Payment information collected by our online services provider, or its’ affiliates, is private and governed by the service providers privacy statement.
Parcel Number: 09.029.20.13.0001
Property Address: 4620 OSGOOD AVE N
BAYTOWN, MN 55082
Class: AGRICULTURAL
Legal Description: SW1/4-NE1/4 EXCEPT TO RAILROAD EXCEPT PT LYING S OF RR R/W EXCEPT PT SW1/4-NE1/4 BEING PARCEL #2 WACO HWY R/W PLAT 25 SECTION 09 TOWNSHIP 029 RANGE 020

Prior Year Value Information

<table>
<thead>
<tr>
<th>Year</th>
<th>Land Value</th>
<th>Dwelling Value</th>
<th>Improvement Value</th>
<th>Total Value</th>
</tr>
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<tbody>
<tr>
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Agricultural Land Information

<table>
<thead>
<tr>
<th>Description</th>
<th>Acres</th>
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</thead>
<tbody>
<tr>
<td>Site - Site</td>
<td>1.000</td>
</tr>
<tr>
<td>ProdTillT - Productive Tillable T</td>
<td>14.900</td>
</tr>
<tr>
<td>ProdPasT - Productive Pasture T</td>
<td>10.090</td>
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<tr>
<td>NPWaste - Non-Productive Waste</td>
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Residential Building Information

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<tr>
<th>Occupancy</th>
<th>Style</th>
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<th>Total Living Area</th>
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<tbody>
<tr>
<td>Single-Family / Owner Occupied</td>
<td>1 Story Frame</td>
<td>1900</td>
<td>1,332</td>
</tr>
</tbody>
</table>

GIS Map Information

[GIS Map Image]
Washington County Parcel Information

<table>
<thead>
<tr>
<th>Parcel Number</th>
<th>Status</th>
<th>Last Update</th>
</tr>
</thead>
<tbody>
<tr>
<td>09.029.20.13.0001</td>
<td>Active</td>
<td>10/5/2017 12:51:01 AM</td>
</tr>
</tbody>
</table>

Current Owner: WASHINGTON COUNTY

Property Address: 4620 OSGOOD AVE N,
STILLWATER, MN 55082

Taxing District: 0101 BAYTOWN-834-MSCWMO

Tax Description: Section 09 Township 029 Range

Select a Tax Year for Payment History and Tax Detail information.

<table>
<thead>
<tr>
<th>Tax Year</th>
<th>Net Tax</th>
<th>Total Paid</th>
<th>Penalty/Fees</th>
<th>Interest</th>
<th>Amount Due</th>
</tr>
</thead>
<tbody>
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</table>

Total $930.00

Information & Links

- APPRAISAL & VALUE INFORMATION with GIS MAP
- IS YOUR PROPERTY ABSTRACT OR TORRENS?
- TAX PAYMENT OPTIONS
  - 2017 TAX STATEMENT
  - 2016 TAX STATEMENT
  - 2015 TAX STATEMENT
  - 2014 TAX STATEMENT
  - BACK OF TAX STATEMENT WITH LATE PAYMENT PENALTY SCHEDULE
  - 2017 VALUATION NOTICE
  - BACK OF VALUATION NOTICE WITH APPEAL INFORMATION
  - MINNESOTA REVENUE PROPERTY TAX REFUND

Pay Your Property Tax by Credit Card or eCheck

To make a payment other than the Total Due, use the Partial option and enter the amount.

Select a payment option:
- Total Due $930.00
- Partial

Add to Cart

Cart: $0.00

Online Payment Fees

Convenience Fees are charged for online property tax payments.

**eCheck fee is $0.75 per transaction.** Be sure to use the 9 digit bank routing number from your checking account, not the internal bank number from a savings or deposit slip. Pay multiple parcels in one transaction with the payment cart.

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A $30 fee will be charged for non-sufficient fund payments.

Payment information collected by our online services provider, or its’ affiliates, is private and governed by the service providers privacy statement.
Hosted by Vanguard Appraisals, Inc

Parcel Number: 09.029.20.21.0001
Property Address: BAYTOWN, MAPS
Class: AGRICULTURAL
Legal Description: NW1/4 EXCEPT RR SECTION 09 TOWNSHIP 029 RANGE 020

### Prior Year Value Information

<table>
<thead>
<tr>
<th>Year</th>
<th>Land Value</th>
<th>Dwelling Value</th>
<th>Improvement Value</th>
<th>Total Value</th>
</tr>
</thead>
<tbody>
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<td>$0</td>
<td>$1,906,100</td>
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</tbody>
</table>

More Years...

### Agricultural Land Information

<table>
<thead>
<tr>
<th>Description</th>
<th>Acres</th>
</tr>
</thead>
<tbody>
<tr>
<td>ProdTillT - Productive Tillable T</td>
<td>110.000</td>
</tr>
<tr>
<td>ProdPasT - Productive Pasture T</td>
<td>41.880</td>
</tr>
<tr>
<td>NPWaste - Non-Productive Waste</td>
<td>8.000</td>
</tr>
</tbody>
</table>

### GIS Map Information
## Washington County Parcel Information

<table>
<thead>
<tr>
<th>Parcel Number</th>
<th>Status</th>
<th>Last Update</th>
</tr>
</thead>
<tbody>
<tr>
<td>09.029.20.21.0001</td>
<td>Active</td>
<td>10/5/2017 12:51:01 AM</td>
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</table>

**Current Owner:** LOUIS & ALICE CAHANES FAM LP
**Property Address:** 4620 OSGOOD AVE N, STILLWATER, MN 55082

**Taxing District:** 0101 BAYTOWN-834-MSCWMO

**Tax Description:** Section 09 Township 029 Range

### Tax Bill Totals

<table>
<thead>
<tr>
<th>Tax Year</th>
<th>Net Tax</th>
<th>Total Paid</th>
<th>Penalty/Fees</th>
<th>Interest</th>
<th>Amount Due</th>
</tr>
</thead>
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Total: $1,611.00

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### Information & Links
- **APPRAISAL & VALUE INFORMATION with GIS MAP**
- **IS YOUR PROPERTY ABSTRACT OR TORRENS?**
- **TAX PAYMENT OPTIONS**
  - 2017 TAX STATEMENT
  - 2016 TAX STATEMENT
  - 2015 TAX STATEMENT
  - 2014 TAX STATEMENT
  - 2013 TAX STATEMENT
  - BACK OF TAX STATEMENT WITH LATE PAYMENT PENALTY SCHEDULE
  - 2017 VALUATION NOTICE
  - BACK OF VALUATION NOTICE WITH APPEAL INFORMATION
  - MINNESOTA REVENUE PROPERTY TAX REFUND

---

### Online Payment Fees
- Convenience Fees are charged for online property tax payments.
- **eCheck fee is $0.75 per transaction.**
  - Be sure to use the 9 digit bank routing number from your checking account, not the internal bank number from a savings or deposit slip.
  - Pay multiple parcels in one transaction with the payment cart.
- **Credit Card fee is 2.39% of amount paid.** Discover, MasterCard and Visa are accepted. American Express is no longer accepted.
  - Fees are paid directly to a payment services provider to cover the costs of the online payment services and charges from the credit card companies.
  - A $30 fee will be charged for non-sufficient fund payments.
Parcel Number: 09.029.20.31.0001
Property Address: BAYTOWN, MAPS
Class: AGRICULTURAL
Legal Description: NE1/4-SW1/4 EXCEPT 3.38 ACRES TO RR & ALSO EXCEPT PT LYING S OF RR R/W SECTION 09 TOWNSHIP 029 RANGE 020

Prior Year Value Information

<table>
<thead>
<tr>
<th>Year</th>
<th>Land Value</th>
<th>Dwelling Value</th>
<th>Improvement Value</th>
<th>Total Value</th>
</tr>
</thead>
<tbody>
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<td>$0</td>
<td>$95,400</td>
</tr>
</tbody>
</table>

Agricultural Land Information

- ProdTillT - Productive Tillable T: 3.230 Acres
- ProdPasT - Productive Pasture T: 4.400 Acres

GIS Map Information
## Washington County Parcel Information

<table>
<thead>
<tr>
<th>Parcel Number</th>
<th>Status</th>
<th>Last Update</th>
</tr>
</thead>
<tbody>
<tr>
<td>09.029.20.31.0001</td>
<td>Active</td>
<td>10/5/2017 12:51:01 AM</td>
</tr>
</tbody>
</table>

### Current Owner:
LOUIS & ALICE CAHANES FAM LP
4620 OSGOOD AVE N
STILLWATER, MN 55082

### Taxing District:
0101 BAYTOWN-834-MSCWMO

### Tax Bill Totals:

<table>
<thead>
<tr>
<th>Tax Year</th>
<th>Net Tax</th>
<th>Total Paid</th>
<th>Penalty/Fees</th>
<th>Interest</th>
<th>Amount Due</th>
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</thead>
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<td>$0.00</td>
<td>$26.00</td>
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<td>$26.00</td>
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<td>$28.00</td>
</tr>
</tbody>
</table>

Total: $65.00

## Information & Links

- **APPRAISAL & VALUE INFORMATION with GIS MAP**
- **IS YOUR PROPERTY ABSTRACT OR TORRENS?**
- **TAX PAYMENT OPTIONS**
  - 2017 TAX STATEMENT
  - 2016 TAX STATEMENT
  - 2015 TAX STATEMENT
  - 2014 TAX STATEMENT
  - 2013 TAX STATEMENT
- **BACK OF TAX STATEMENT WITH LATE PAYMENT PENALTY SCHEDULE**
- **2017 VALUATION NOTICE BACK OF VALUATION NOTICE WITH APPEAL INFORMATION**
- **MINNESOTA REVENUE PROPERTY TAX REFUND**

### Pay Your Property Tax by Credit Card or eCheck

- **Cart:** $0.00

## Online Payment Fees

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- **eCheck fee** is $0.75 per transaction. Be sure to use the 9 digit bank routing number from your checking account, not the internal bank number from a savings or deposit slip. Pay multiple parcels in one transaction with the payment cart.

- **Credit card fee** is 2.39% of amount paid. Discover, MasterCard and Visa are accepted. American Express is no longer accepted. Fees are paid directly to a payment services provider to cover the costs of the online payment services and charges from the credit card companies.

A $30 fee will be charged for non-sufficient fund payments.

Payment information collected by our online services provider, or its’ affiliates, is private and governed by the service providers privacy statement.
The information provided on this website is updated each workday at 7:15 AM, CST. Washington County makes every effort to produce and publish the most current and accurate information possible. No warranties, expressed or implied, are provided for the data herein, its use, or its interpretation. If you have any questions, please contact us at (651)430-6175 or Taxes@co.washington.mn.us.

This site is best viewed using Google Chrome, Internet Explorer 11, Mozilla Firefox or Safari.
Aerial Photographs
N 4620 Osgood Avenue
Baytown Township, MN

1992
HIG Project # 2010203
Client Project # B6735-0002
Approximate Scale 1: 6,000 (1"=500')
www.historicalinfo.com
N 4620 Osgood Avenue
Baytown Township, MN

2015
HIG Project # 2010203
Client Project # B6735-0002
Approximate Scale 1: 6,000 (1"=500')
www.historicalinfo.com
N 4620 Osgood Avenue
Baytown Township, MN

1980
HIG Project # 2010203
Client Project # B6735-0002
Approximate Scale 1: 6,000 (1"=500’)
www.historicalinfo.com
1957
HIG Project # 2010203
Client Project # B6735-0002
Approximate Scale 1: 6,000 (1”=500’)
www.historicalinfo.com

N 4620 Osgood Avenue
Baytown Township, MN
1938
HIG Project # 2010203
Client Project # B6735-0002
Approximate Scale 1: 6,000 (1"=500')
www.historicalinfo.com

N 4620 Osgood Avenue
Baytown Township, MN
City Directories
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Appendix F

Historical Maps
### Aerial Photo Topo Updates

<table>
<thead>
<tr>
<th>Zone</th>
<th>Topographic Map Name</th>
<th>Publisher</th>
<th>Map Size</th>
<th>Base Map</th>
<th>Photo Year</th>
<th>Inspected</th>
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**Site information:**

Wenck project #B6735-0002  
HIG #2010203 completed: 10/09/2017

Unified maps show subdued modern topo features where corresponding maps of the same year were not published.
Unified maps show subdued modern topo features where corresponding maps of the same year were not published.

Wenck project #B6735-0002
HIG #2010203 completed: 10/09/2017

Zone | Topographic Map Name | Publisher | Map Size | Base Map | Aerial Photo Topo Updates | Photo Year | Inspected | Revised
--- | ---------------------| ---------| ---------| --------| -------------------------| ----------| -----------| --------
South | Hudson, WI           | USGS     | 7½’ x 7½’| 2015    | --                      | --        | --         | --
Unified maps show subdued modern topo features where corresponding maps of the same year were not published. Wenck project #B6735-0002
HIG #2010203 completed: 10/09/2017
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Site information:
N 4620 Osgood Avenue
Baytown Township, MN

Wenck project #B6735-0002
HIG #2010203 completed: 10/09/2017
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**Site information:**

- N 4620 Osgood Avenue
- Baytown Township, MN

Wenck project #B6735-0002

HIG #2010203 completed: 10/09/2017

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Site information:
N 4620 Osgood Avenue
Baytown Township, MN
HIG project #B6735-0002
HIG #2010203 completed: 10/09/2017

Aerial Photo Topo Updates
Photo Year|Inspected| Revised
1977 | -- | 1980
Unified maps show subdued modern topo features where corresponding maps of the same year were not published.

Wenck project #B6735-0002
HIG #2010203 completed: 10/09/2017

Site information:
N 4620 Osgood Avenue
Baytown Township, MN

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Site information:
Wenck project #B6735-0002
HIG #2010203 completed: 10/09/2017

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**Site information:**

Wenck project #B6735-0002  
HIG #2010203 completed: 10/09/2017

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Wenck project #B6735-0002
HIG #2010203 completed: 10/09/2017

Site information:
N 4620 Osgood Avenue
Baytown Township, MN

Zone | Topographic Map Name | Publisher | Map Size | Base Map | Aerial Photo Topo Updates
South | Hudson, MN | USGS | 7½’ x 7½’ | 1950 | 1947 | -- | --
### Aerial Photo Topo Updates

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Unified maps show subdued modern topo features where corresponding maps of the same year were not published.

Wenck project #B6735-0002

HIG #2010203 completed: 10/09/2017

### Site Information:

N 4620 Osgood Avenue  
Baytown Township, MN

Distance in Miles

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Site information:

N 4620 Osgood Avenue  
Baytown Township, MN

Wenck project #B6735-0002

HIG #2010203 completed: 10/09/2017
Fire Insurance Map Research Document
The HIG Historical Map Collection and the United States Library of Congress Map Collection were searched for fire insurance maps (FIM), real estate atlases and similar maps for the site location and adjoining properties. No FIMs or similar maps were identified for the site location and/or adjacent properties.
Appendix H

Subject Property Photographs
Photo 1 – Dwelling on the southeast portion of the Subject Property.

Photo 2 – Dairy barn on the Subject Property.

Photo 3 – Interior of the lower level of the dairy barn.

Photo 4 – Interior of the upper level of the dairy barn.
Photo 5 – Former well house on the Subject Property.

Photo 6 – Cover to a historical well pit that is no longer in use within the well house.

Photo 7 – Two Quonset huts on the Subject Property.

Photo 8 – Interior of the south Quonset hut.
Photo 9 – Interior of the north Quonset hut.

Photo 10 – Two corn cribs on the Subject Property, view facing south.

Photo 11 – Corn crib and lean-to on the Subject Property, view facing west.

Photo 12 – Location of a historical dwelling on the southeast portion of the Subject Property, south of driveway.
Photo 13 – Non-functioning water supply well near the remnants of a historical dwelling.

Photo 14 – Cistern pit near the remnants of a historical dwelling.

Photo 15 – Unpaved road providing access to crop fields on the Subject Property, view facing southwest.

Photo 16 – Crop field on the south portion of the Subject Property, view facing south.
Photo 17 – Cropland in the central portion of the Subject Property, view facing north.

Photo 18 – West crop field on the Subject Property, view facing north.

Photo 19 – Dwelling on the northwest portion of the Subject Property.

Photo 20 – Storage building on the northwest portion of the Subject Property.
Photo 21 – Interior of the storage building.

Photo 22 – Northwest portion of the Subject Property, view facing west.

Photo 23 – Entrance to the northeast portion of the Subject Property, view facing east.

Photo 24 – Cropland and items in outdoor storage in the northeast portion of the Subject Property.
Photo 25 – Hunting stand in the northeast portion of the Subject Property.

Photo 26 – Items in outdoor storage on the Subject Property.

Photo 27 – Smokehouse on the Subject Property.

Photo 28 – Items in outdoor storage on the Subject Property.
Photo 29 – Shed and items in outdoor storage in the northeast portion of the Subject Property.

Photo 30 – Unlabeled containers partially full of suspected agricultural chemicals in the northeast portion of the Subject Property.

Photo 31 – Containers of used oil in the north Quonset hut.

Photo 32 – Location of 1,000 gallon UST for fuel oil.
Photo 33 – Floor drain in the dairy barn.
Appendix I

Research Summary
HIG Research Summary

Site Location
N 4620 Osgood Avenue
Baytown Township, MN

Requested by
Wenck Associates, Inc.
1802 Wooddale Drive
Woodbury, MN

This Research Summary identifies the products and services provided by Historical Information Gatherers, Inc. (HIG) for the above referenced site location. All products are provided as PDFs unless otherwise noted.

Historical Aerial Photographs

Aerial photographs of the site location were used to create a multi-page file named AerialPhotos. Each aerial photograph has a title block that includes the year and scale of the photograph as well as project information submitted at the time the order was placed. The years provided are:

City Directory Pages/Abstracts

Research Methodology: A search was conducted for city directories that include coverage of the site area using HIG's City Directory Collection and other sources, if needed. Directories for the following years were identified for the site area. A comma between date ranges indicates a gap of 10 years or more in available city directories:
Washington County 2003-2013
Stillwater 1930-1999

The above listed directories were reviewed at approximate 5 year intervals to determine if the street(s) specified in the order were included in the directories and had listings for the site area. HIG attempted to identify former street names and aliases and if identified, these were also included in the review.

Research Results: City directory information, when provided, was used to create a multi-page file(s) named CD-followed by the street name. When City Directory Pages are provided, the publication name and date are shown at the top of each page. When a City Directory abstract is provided, the first page of the abstract includes the relevant publication information. The years of coverage identified for each street and any identified historical street names are as follows:
47th Street North (1999-2013)
Northbrook Blvd North (1999-2013)
Osgood Ave North (1995-2013)

FIM+ Maps

The HIG Historical Map Collection and the United States Library of Congress Map Collection were searched for fire insurance maps (FIM), real estate atlases and similar maps for the site location and adjoining properties. No FIMs or similar maps were identified for the site location and/or adjacent properties.

Database Report

A GeoSearch Radius Report is provided as a file named DBR. Links to the text file, unlocatable report and zip report can be accessed by clicking on the paperclip icon within the GeoSearch report. Key information regarding the database listings is included in a separate Excel spreadsheet named DBRS.

Plat Map+

An online search was conducted for recent plat or parcel maps of the site location; however, coverage of the site was not identified.
In addition, a search was completed of the HIG Historical Map Collection for historical survey documents and cadastral maps. Maps that cover the site location were provided in a file named HistoricalMaps. The years of coverage provided are listed below.

1848, 1901, 1926, 1938

**Topographic Maps**

The HIG Historical Map Collection was searched for topographic maps for the site location and adjoining properties. Maps from the HIG Collection were used to create a multi-page file named TopoMaps. The years provided are:


Up to four different topographic maps may have been used to create a unified map showing the site location in the center. Unified maps show subdued modern topo features where corresponding maps of the same year were not published. The date in large font on each map is the date HIG has attributed to the map based on the date of first publication, or the most recent date of map inspection or revision. The definitions below provide clarification regarding the dates included in the HIG title block for each map.

**Base Map Year** - The year when a topographic map was first published or the date the map was significantly revised and given a new base map date.

**Photo Year** - The date of the most recent aerial photography used to create, revise, or inspect the map.

**Photoinspected Year** - The year the base map was compared to a more recent aerial photograph. If the comparison showed that no changes were needed, the map was marked photoinspected and no changes were made to the map.

**Photorevised Year** - During the photo inspection process, if enough changes were observed, the map would be revised by adding the new features. These changes were not field checked and are shown in purple on the photorevised maps.

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**Disclaimer & Limitation of Liability**

This Research Summary and the related documents and images provided by Historical Information Gatherers (hereafter referred to as the “Site Specific HIG Data”) contain information obtained from a variety of public and private sources. Additional information for the site and surrounding properties may exist. Accordingly, there can be no guaranty or warranty that the information provided is complete for its particular intended purpose. No warranty expressed or implied, is made whatsoever in connection with the Site Specific HIG Data. Historical Information Gatherers specifically disclaims the making of any such warranties, including without limitation, merchantability or fitness for a particular purpose. Historical Information Gatherers, its officers, employees and independent contractors cannot be held liable to anyone for any loss or damage, whether arising out of errors or omissions, negligence, accident or any other cause, resulting directly or indirectly from any information provided or any information not provided in the Site Specific HIG Data. Any liability on the part of Historical Information Gatherers is strictly limited to a refund equal to the amount paid for the Site Specific HIG Data.

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National Heritage Information System (NHIS) Results and Query
March 12, 2018
Correspondence # ERDB 20180325

Mr. Jeff Madejczyk  
Wenck Associates, Inc.  
1800 Pioneer Creek Center, PO Box 249  
Maple Plain, MN 55359

RE: Natural Heritage Review of the proposed The Orchards at Cahanes Farm Development,  
T29N R20W Sections 8 & 9; Washington County

Dear Mr. Madejczyk,

As requested, the Minnesota Natural Heritage Information System has been queried to determine if any rare species or other significant natural features are known to occur within an approximate one-mile radius of the proposed project. Based on this query, rare features have been documented within the search area (for details, please visit the Rare Species Guide Website for more information on the biology, habitat use, and conservation measures of these rare species). Please note that the following rare features may be adversely affected by the proposed project:

State-listed Species

- Red-shouldered hawks (*Buteo lineatus*), a state-listed species of special concern, have been documented during the breeding season in the vicinity of the project. This species requires large, contiguous forest tracts interspersed with wetlands and prefers lowland woods and river bottoms. Check any trees scheduled to be removed from April through July for active nests. If feasible, disturbance near active nests should be avoided during the critical nesting time, April and May. See the attached fact sheet regarding large bird nest identification. Please contact me if any nests are discovered.

- The Leonard’s skipper (*Hesperia leonardus*), a state listed butterfly species of special concern, has been documented within the Bayport Wildlife Management Area (WMA). This species population has declined historically due to widespread conversion of native prairie for agriculture and other uses. Less than 1% of Minnesota's native prairie remains and the remaining prairie mostly consists of widely scattered small fragments surrounded by agriculture and development. To protect this prairie obligate butterfly species, avoiding disturbance to native prairie is recommended, if present.
• Blanding’s turtles (Emydoidea blandingii), a state-listed threatened species, have been reported in the vicinity of the proposed project. Blanding’s turtles use wetlands as well as upland areas up to and over a mile distant from wetlands. Uplands are used for nesting, basking, periods of dormancy, and traveling between wetlands. Factors believed to contribute to the decline of this species include collisions with vehicles, wetland drainage and degradation, and the development of upland habitat. Any added fatality can be detrimental to populations of Blanding’s turtles, as these turtles have a low reproduction rate that depends upon a high survival rate to maintain population levels.

For your information, I have attached a Blanding’s turtle fact sheet that describes the habitat use and life history of this species. The fact sheet also provides two lists of recommendations for avoiding and minimizing impacts to this rare turtle. **Please refer to the first list of recommendations for your project.** In addition, if erosion control mesh will be used, the DNR recommends that the mesh be limited to wildlife-friendly materials (see enclosed fact sheet). If greater protection for turtles is desired, the second list of additional recommendations can also be implemented.

The attached flyer should be given to all contractors working in the area. If Blanding’s turtles are encountered on site, please remember that state law and rules prohibit the destruction of threatened or endangered species, except under certain prescribed conditions. If turtles are in imminent danger they must be moved by hand out of harm’s way, otherwise they are to be left undisturbed. If plans change and there will be impacts to wetlands, please contact me.

_Federally Protected Species_

• The rusty patched bumble bee (Bombus affinis), a federally-listed endangered species, was documented in the vicinity of the proposed project. The rusty patched bumble bee typically occurs in grasslands and urban gardens with flowering plants from April through October. This species nests underground in abandoned rodent cavities or in clumps of grasses. Please reference the guidance at the [USFWS rusty patched bumble bee website](http://www.fws.gov/mb/bees/critically/endangered-14346.html) to determine if the project has the potential to impact this protected species.

_Engineering Review and Permitting_

• The Environmental Assessment Worksheet should address whether the proposed project has the potential to adversely affect the above rare features and, if so, it should identify specific measures that will be taken to avoid or minimize disturbance. Sufficient information should be provided so the DNR can determine whether a takings permit will be needed for any of the above protected species.

• Please include a copy of this letter in any state or local license or permit application. Please note that measures to avoid or minimize disturbance to the above rare features may be included as restrictions or conditions in any required permits or licenses.

The Natural Heritage Information System (NHIS), a collection of databases that contains information about Minnesota’s rare natural features, is maintained by the Division of Ecological and Water Resources, Department of Natural Resources. The NHIS is continually updated as new information becomes available, and is the most complete source of data on Minnesota’s rare or otherwise significant species, native plant communities, and other natural features. However, the NHIS is not an exhaustive inventory and thus does not represent all of the occurrences of rare features within the state. Therefore, ecologically significant features for which we have no
records may exist within the project area. If additional information becomes available regarding rare features in the vicinity of the project, further review may be necessary.

For environmental review purposes, the results of this Natural Heritage Review are valid for one year; the results are only valid for the project location (noted above) and the project description provided on the NHIS Data Request Form. Please contact me if project details change or for an updated review if construction has not occurred within one year.

The Natural Heritage Review does not constitute review or approval by the Department of Natural Resources as a whole. Instead, it identifies issues regarding known occurrences of rare features and potential effects to these rare features. If needed, please contact your DNR Regional Environmental Assessment Ecologist to determine whether there are other natural resource concerns associated with the proposed project. Please be aware that additional site assessments or review may be required.

Thank you for consulting us on this matter, and for your interest in preserving Minnesota's rare natural resources. An invoice will be mailed to you under separate cover.

Sincerely,

Samantha Bump
Natural Heritage Review Specialist
Samantha.Bump@state.mn.us

Enc. Large Nest Identification
   Blanding’s Turtle Fact Sheet & Flyer
   Wildlife Friendly Erosion Control
   Rusty Patched Bumble Bee Fact Sheet

Links: Rare Species Guide
       http://www.dnr.state.mn.us/rsg/index.html
       USFWS Rusty Patched Bumble Bee
       DNR Regional Environmental Assessment Ecologist Contact Info
       http://www.dnr.state.mn.us/eco/ereview/erp_regioncontacts.html

Cc: Becky Horton
    Leslie Parris
The unique and rare Blanding’s turtle has been found in this area. Blanding’s turtles are state-listed as Threatened and are protected under Minnesota Statute 84.095, Protection of Threatened and Endangered Species. Please be careful of turtles on roads and in construction sites. For additional information on turtles, or to report a Blanding’s turtle sighting, contact the DNR Nongame Specialist nearest you: Bemidji (218-308-2641); Grand Rapids (218-327-4518); New Ulm (507-359-6033); Rochester (507-206-2820); or St. Paul (651-259-5772).

DESCRIPTION: The Blanding’s turtle is a medium to large turtle (5 to 10 inches) with a black or dark blue, dome-shaped shell with muted yellow spots and bars. The bottom of the shell is hinged across the front third, enabling the turtle to pull the front edge of the lower shell firmly against the top shell to provide additional protection when threatened. The head, legs, and tail are dark brown or blue-gray with small dots of light brown or yellow. A distinctive field mark is the bright yellow chin and neck.

BLANDING’S TURTLES DO NOT MAKE GOOD PETS
IT IS ILLEGAL TO KEEP THIS THREATENED SPECIES IN CAPTIVITY
SUMMARY OF RECOMMENDATIONS
FOR AVOIDING AND MINIMIZING IMPACTS
TO BLANDING’S TURTLE POPULATIONS
(see Blanding’s Turtle Fact Sheet for full recommendations)

- This flyer should be given to all contractors working in the area. Homeowners should also be informed of the presence of Blanding’s turtles in the area.
- Turtles that are in imminent danger should be moved, by hand, out of harm’s way. Turtles that are not in imminent danger should be left undisturbed to continue their travel among wetlands and/or nest sites.
- If a Blanding’s turtle nests in your yard, do not disturb the nest and do not allow pets near the nest.
- Silt fencing should be set up to keep turtles out of construction areas. It is critical that silt fencing be removed after the area has been revegetated.
- Small, vegetated temporary wetlands should not be dredged, deepened, or filled.
- All wetlands should be protected from pollution; use of fertilizers and pesticides should be avoided, and run-off from lawns and streets should be controlled. Erosion should be prevented to keep sediment from reaching wetlands and lakes.
- Roads should be kept to minimum standards on widths and lanes.
- Roads should be ditched, not curbed or below grade. If curbs must be used, 4" high curbs at a 3:1 slope are preferred.
- Culverts under roads crossing wetland areas, between wetland areas, or between wetland and nesting areas should be at least 36 in. diameter and flat-bottomed or elliptical.
- Culverts under roads crossing streams should be oversized (at least twice as wide as the normal width of open water) and flat-bottomed or elliptical.
- Utility access and maintenance roads should be kept to a minimum.
- Because trenches can trap turtles, trenches should be checked for turtles prior to being backfilled and the sites should be returned to original grade.
- Terrain should be left with as much natural contour as possible.
- Graded areas should be revegetated with native grasses and forbs.
- Vegetation management in infrequently mowed areas -- such as in ditches, along utility access roads, and under power lines -- should be done mechanically (chemicals should not be used). Work should occur fall through spring (after October 1st and before June 1st).
**Endangered, Threatened, and Special Concern Species of Minnesota**

**Blanding’s Turtle**

*Emydoidea blandingii*

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**HABITAT USE**

Blanding’s turtles need both wetland and upland habitats to complete their life cycle. The types of wetlands used include ponds, marshes, shrub swamps, bogs, and ditches and streams with slow-moving water. In Minnesota, Blanding’s turtles are primarily marsh and pond inhabitants. Calm, shallow water bodies (Type 1-3 wetlands) with mud bottoms and abundant aquatic vegetation (e.g., cattails, water lilies) are preferred, and extensive marshes bordering rivers provide excellent habitat. Small temporary wetlands (those that dry up in the late summer or fall) are frequently used in spring and summer -- these fishless pools are amphibian and invertebrate breeding habitat, which provides an important food source for Blanding’s turtles. Also, the warmer water of these shallower areas probably aids in the development of eggs within the female turtle. Nesting occurs in open (grassy or brushy) sandy uplands, often some distance from water bodies. Frequently, nesting occurs in traditional nesting grounds on undeveloped land. Blanding’s turtles have also been known to nest successfully on residential property (especially in low density housing situations), and to utilize disturbed areas such as farm fields, gardens, under power lines, and road shoulders (especially of dirt roads). Although Blanding’s turtles may travel through woodlots during their seasonal movements, shady areas (including forests and lawns with shade trees) are not used for nesting. Wetlands with deeper water are needed in times of drought, and during the winter. Blanding’s turtles overwinter in the muddy bottoms of deeper marshes and ponds, or other water bodies where they are protected from freezing.

**LIFE HISTORY**

Individuals emerge from overwintering and begin basking in late March or early April on warm, sunny days. The increase in body temperature which occurs during basking is necessary for egg development within the female turtle. Nesting in Minnesota typically occurs during June, and females are most active in late afternoon and at dusk. Nesting can occur as much as a mile from wetlands. The nest is dug by the female in an open sandy area and 6-15 eggs are laid. The female turtle returns to the marsh within 24 hours of laying eggs. After a development period of approximately two months, hatchlings leave the nest from mid-August through early-October. Nesting females and hatchlings are often at risk of being killed while crossing roads between wetlands and nesting areas. In addition to movements associated with nesting, all ages and both sexes move between wetlands from April through November. These movements peak in June and July and again in September and October as turtles move to and from overwintering sites. In late autumn (typically November), Blanding’s turtles bury themselves in the substrate (the mud at the bottom) of deeper wetlands to overwinter.

**IMPACTS / THREATS / CAUSES OF DECLINE**

- loss of wetland habitat through drainage or flooding (converting wetlands into ponds or lakes)
- loss of upland habitat through development or conversion to agriculture
- human disturbance, including collection for the pet trade* and road kills during seasonal movements
- increase in predator populations (skunks, raccoons, etc.) which prey on nests and young

*It is illegal to possess this threatened species.
RECOMMENDATIONS FOR AVOIDING AND MINIMIZING IMPACTS

These recommendations apply to typical construction projects and general land use within Blanding’s turtle habitat, and are provided to help local governments, developers, contractors, and homeowners minimize or avoid detrimental impacts to Blanding’s turtle populations. **List 1** describes minimum measures which we recommend to prevent harm to Blanding’s turtles during construction or other work within Blanding’s turtle habitat. **List 2** contains recommendations which offer even greater protection for Blanding’s turtles populations; this list should be used in **addition to the first list** in areas which are known to be of state-wide importance to Blanding’s turtles (contact the DNR’s Natural Heritage and Nongame Research Program if you wish to determine if your project or home is in one of these areas), or in any other area where greater protection for Blanding’s turtles is desired.

<table>
<thead>
<tr>
<th>List 1. Recommendations for all areas inhabited by Blanding’s turtles.</th>
<th>List 2. Additional recommendations for areas known to be of state-wide importance to Blanding’s turtles.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GENERAL</strong></td>
<td></td>
</tr>
<tr>
<td>A flyer with an illustration of a Blanding’s turtle should be given to all contractors working in the area. Homeowners should also be informed of the presence of Blanding’s turtles in the area.</td>
<td>Turtle crossing signs can be installed adjacent to road-crossing areas used by Blanding’s turtles to increase public awareness and reduce road kills.</td>
</tr>
<tr>
<td>Turtles which are in imminent danger should be moved, by hand, out of harms way. Turtles which are not in imminent danger should be left undisturbed.</td>
<td>Workers in the area should be aware that Blanding’s turtles nest in June, generally after 4pm, and should be advised to minimize disturbance if turtles are seen.</td>
</tr>
<tr>
<td>If a Blanding’s turtle nests in your yard, do not disturb the nest.</td>
<td>If you would like to provide more protection for a Blanding’s turtle nest on your property, see “Protecting Blanding’s Turtle Nests” on page 3 of this fact sheet.</td>
</tr>
<tr>
<td>Silt fencing should be set up to keep turtles out of construction areas. It is critical that silt fencing be removed after the area has been revegetated.</td>
<td>Construction in potential nesting areas should be limited to the period between September 15 and June 1 (this is the time when activity of adults and hatchlings in upland areas is at a minimum).</td>
</tr>
<tr>
<td><strong>WETLANDS</strong></td>
<td></td>
</tr>
<tr>
<td>Small, vegetated temporary wetlands (Types 2 &amp; 3) should not be dredged, deepened, filled, or converted to storm water retention basins (these wetlands provide important habitat during spring and summer).</td>
<td>Shallow portions of wetlands should not be disturbed during prime basking time (mid morning to mid- afternoon in May and June). A wide buffer should be left along the shore to minimize human activity near wetlands (basking Blanding’s turtles are more easily disturbed than other turtle species).</td>
</tr>
<tr>
<td>Wetlands should be protected from pollution; use of fertilizers and pesticides should be avoided, and run-off from lawns and streets should be controlled. Erosion should be prevented to keep sediment from reaching wetlands and lakes.</td>
<td>Wetlands should be protected from road, lawn, and other chemical run-off by a vegetated buffer strip at least 50’ wide. This area should be left unmowed and in a natural condition.</td>
</tr>
<tr>
<td><strong>ROADS</strong></td>
<td></td>
</tr>
<tr>
<td>Roads should be kept to minimum standards on widths and lanes (this reduces road kills by slowing traffic and reducing the distance turtles need to cross).</td>
<td>Tunnels should be considered in areas with concentrations of turtle crossings (more than 10 turtles per year per 100 meters of road), and in areas of lower density if the level of road use would make a safe crossing impossible for turtles. Contact your DNR Regional Nongame Specialist for further information on wildlife tunnels.</td>
</tr>
<tr>
<td>Roads should be ditched, not curbed or below grade. If curbs must be used, 4 inch high curbs at a 3:1 slope are preferred (Blanding’s turtles have great difficulty climbing traditional curbs; curbs and below grade roads trap turtles on the road and can cause road kills).</td>
<td>Roads should be ditched, not curbed or below grade.</td>
</tr>
</tbody>
</table>
### ROADS cont.

<table>
<thead>
<tr>
<th>Culverts between wetland areas, or between wetland areas and nesting areas, should be 36 inches or greater in diameter, and elliptical or flat-bottomed.</th>
<th>Road placement should avoid separating wetlands from adjacent upland nesting sites, or these roads should be fenced to prevent turtles from attempting to cross them (contact your DNR Nongame Specialist for details).</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetland crossings should be bridged, or include raised roadways with culverts which are 36 in or greater in diameter and flat-bottomed or elliptical (raised roadways discourage turtles from leaving the wetland to bask on roads).</td>
<td>Road placement should avoid bisecting wetlands, or these roads should be fenced to prevent turtles from attempting to cross them (contact your DNR Nongame Specialist for details). This is especially important for roads with more than 2 lanes.</td>
</tr>
<tr>
<td>Culverts under roads crossing streams should be oversized (at least twice as wide as the normal width of open water) and flat-bottomed or elliptical.</td>
<td>Roads crossing streams should be bridged.</td>
</tr>
</tbody>
</table>

### UTILITIES

<table>
<thead>
<tr>
<th>Utility access and maintenance roads should be kept to a minimum (this reduces road-kill potential).</th>
</tr>
</thead>
<tbody>
<tr>
<td>Because trenches can trap turtles, trenches should be checked for turtles prior to being backfilled and the sites should be returned to original grade.</td>
</tr>
</tbody>
</table>

### LANDSCAPING AND VEGETATION MANAGEMENT

<table>
<thead>
<tr>
<th>Terrain should be left with as much natural contour as possible.</th>
</tr>
</thead>
<tbody>
<tr>
<td>As much natural landscape as possible should be preserved (installation of sod or wood chips, paving, and planting of trees within nesting habitat can make that habitat unusable to nesting Blanding’s turtles).</td>
</tr>
<tr>
<td>Graded areas should be revegetated with native grasses and forbs (some non-natives form dense patches through which it is difficult for turtles to travel).</td>
</tr>
<tr>
<td>Open space should include some areas at higher elevations for nesting. These areas should be retained in native vegetation, and should be connected to wetlands by a wide corridor of native vegetation.</td>
</tr>
<tr>
<td>Vegetation management in infrequently mowed areas — such as in ditches, along utility access roads, and under power lines — should be done mechanically (chemicals should not be used). Work should occur fall through spring (after October 1st and before June 1st).</td>
</tr>
<tr>
<td>Ditches and utility access roads should not be mowed or managed through use of chemicals. If vegetation management is required, it should be done mechanically, as infrequently as possible, and fall through spring (mowing can kill turtles present during mowing, and makes it easier for predators to locate turtles crossing roads).</td>
</tr>
</tbody>
</table>

### Protecting Blanding’s Turtle Nests:

Most predation on turtle nests occurs within 48 hours after the eggs are laid. After this time, the scent is gone from the nest and it is more difficult for predators to locate the nest. Nests more than a week old probably do not need additional protection, unless they are in a particularly vulnerable spot, such as a yard where pets may disturb the nest. Turtle nests can be protected from predators and other disturbance by covering them with a piece of wire fencing (such as chicken wire), secured to the ground with stakes or rocks. The piece of fencing should measure at least 2 ft. x 2 ft., and should be of medium sized mesh (openings should be about 2 in. x 2 in.). It is very important that the fencing be removed before August 1st so the young turtles can escape from the nest when they hatch!

### REFERENCES


REFERENCES (cont.)
   Unpublished report to the Minnesota DNR. 8 pp.
Preventing Entanglement by Erosion Control Blanket

Plastic mesh netting is a common component in erosion control blanket. It is utilized to hold loose fibrous materials in place (e.g., straw) until vegetation is established. Erosion control blanket is being utilized extensively and is effective for reducing soil erosion, benefitting both soil health and water quality. Unfortunately there is a negative aspect of the plastic mesh component: it is increasingly being documented that its interaction with reptiles and amphibians can be fatal (Barton and Kinkead, 2005; Kapfer and Paloski, 2011). Mowing machinery is also susceptible to damage due to the long lasting plastic mesh.

Potential Problems:
- Plastic netting remains a hazard long after other components have decomposed.
- Plastic mesh netting can result in entanglement and death of a variety of small animals. The most vulnerable group of animals are the reptiles and amphibians (snakes, frogs, toads, salamanders, turtles). Ducklings, small mammals, and fish have also been observed entangled in the netting.
- Road maintenance machinery can snag the plastic mesh and pull up long lengths into machinery, thus binding up machinery and causing damage and/or loss of time cleaning it out.

Suggested Alternatives:
- Do not use in known locations of reptiles or amphibians that are listed as Threatened or Endangered species.
- Limit use of blanket containing welded plastic mesh to areas away from where reptiles or amphibians are likely (near wetlands, lakes, watercourses, or rock outcrops) or habitat transition zones (prairie – woodland edges, rocky outcrop – woodland edges, steep rocky slopes, etc.)
- Select products with biodegradable netting (preferably made from natural fibers, though varieties of biodegradable polyesters also exist on the market). Biodegradable products will degrade under a variety of moisture and light conditions.
- DO NOT use products that require UV-light to degrade (also called “photodegradable”) as they do not degrade properly when shaded by vegetation.

Solution: Most categories of erosion control blanket and sediment control logs are available in natural net options.
- Specify 'Natural Netting' for rolled erosion control products, per MnDOT Spec 3885. See Table 3885-1.
- Specify 'Natural Netting' for sediment control logs, per MnDOT Spec 3897

![Image of a small snake entangled in plastic mesh]

The plastic mesh component of erosion control blanket becomes a net for entrapment.

Literature Referenced

(http://www.dnr.state.mn.us/waters/watermgmt_section/pwpermits/gp_2004_0001_manual.html)
The U.S. Fish and Wildlife Service listed the rusty patched bumble bee as endangered under the Endangered Species Act. Endangered species are animals and plants that are in danger of becoming extinct. Identifying, protecting and recovering endangered species is a primary objective of the U.S. Fish and Wildlife Service’s endangered species program.

**What is a rusty patched bumble bee?**

**Appearance:** Rusty patched bumble bees live in colonies that include a single queen and female workers. The colony produces males and new queens in late summer. Queens are the largest bees in the colony, and workers are the smallest. All rusty patched bumble bees have entirely black heads, but only workers and males have a rusty reddish patch centrally located on the back.

**Habitat:** Rusty patched bumble bees once occupied grasslands and tallgrass prairies of the Upper Midwest and Northeast, but most grasslands and prairies have been lost, degraded, or fragmented by conversion to other uses. Bumble bees need areas that provide nectar and pollen from flowers, nesting sites (underground and abandoned rodent cavities or clumps of grasses), and overwintering sites for hibernating queens (undisturbed soil).

**Reproduction:** Rusty patched bumble bee colonies have an annual cycle. In spring, solitary queens emerge and find nest sites, collect nectar and pollen from flowers and begin laying eggs, which are fertilized by sperm stored since mating the previous fall. Workers hatch from these first eggs and colonies grow as workers collect food, defend the colony, and care for young. Queens remain within the nests and continue laying eggs. In late summer, new queens and males also hatch from eggs. Males disperse to mate with new queens from other colonies. In fall, founding queens, workers and males die. Only new queens go into diapause (a form of hibernation) over winter - and the cycle begins again in spring.

**Feeding Habits:** Bumble bees gather pollen and nectar from a variety of flowering plants. The rusty patched emerges early in spring and is one of the last species to go into hibernation.

**Why conserve rusty patched bumble bees?**

As pollinators, rusty patched bumble bees contribute to our food security and the healthy functioning of our ecosystems. Bumble bees are keystone species in most ecosystems, necessary not only for native wildflower reproduction, but also for creating seeds and fruits that feed wildlife as diverse as songbirds and grizzly bears.

Bumble bees are among the most important pollinators of crops such as blueberries, cranberries, and clover and almost the only insect pollinators of tomatoes. Bumble bees are more effective pollinators than honey bees for some crops because of their ability to “buzz pollinate.” The economic value of pollination services provided by native insects (mostly bees) is estimated at $3 billion per year in the United States.
It needs a constant supply and diversity of flowers blooming throughout the colony’s long life, April through September.

**Range:** Historically, the rusty patched bumble bee was broadly distributed across the eastern United States and Upper Midwest, from Maine in the U.S. and southern Quebec and Ontario in Canada, south to the northeast corner of Georgia, reaching west to the eastern edges of North and South Dakota. Its range included 28 states, the District of Columbia and 2 provinces in Canada. Since 2000, this bumble bee has been reported from only 13 states and 1 province: Illinois, Indiana, Iowa, Maine, Maryland, Massachusetts, Minnesota, North Carolina, Ohio, Pennsylvania, Tennessee, Virginia, Wisconsin – and Ontario, Canada.

**Why is the rusty patched bumble bee declining?**

**Habitat loss and degradation:** Most prairies and grasslands of the Upper Midwest and Northeast have been converted to monoculture farms or developed areas, such as cities and roads. Grasslands that remain tend to be small and isolated.

**Intensive farming:** Increases in farm size and technology advances improved the operating efficiency of farms but have led to practices that harm bumble bees: increased use of pesticides, loss of crop diversity resulting in flowering crops being available for only a short time, loss of hedgerows with flowering plants, and loss of legume pastures.

**Disease:** Pathogens and parasites may pose a threat, although their prevalence and effects in North American bumble bees are not well understood.

**Pesticides:** The rusty patched bumble bee may be vulnerable to pesticides. Pesticides are used widely on farms and in cities and have both lethal and sublethal toxic effects.

Bumble bees can absorb toxins directly through their exoskeleton and through contaminated nectar and pollen. Rusty patched bumble bees nest in the ground and may be susceptible to pesticides that persist in agricultural soils, lawns and turf.

**Global climate change:** Climate changes that may harm bumble bees include increased temperature and precipitation extremes, increased drought, early snow melt and late frost events. These changes may lead to more exposure to or susceptibility to disease, fewer flowering plants, fewer places for queens to hibernate and nest, less time for foraging due to high temperatures, and asynchronous flowering plant and bumble bee spring emergence.

**What is being done to conserve rusty patched bumble bees?**

**U.S. Fish and Wildlife Service:** Several Service programs work to assess, protect, and restore pollinators and their habitats. Also, the Service works with partners to recover endangered and threatened pollinators and pollinator-dependent plants. Concern about pollinator declines prompted formation of the North American Pollinator Protection Campaign, a collaboration of people dedicated to pollinator conservation and education. The Service has a Memorandum of Understanding with the Pollinator Partnership to work together on those goals. The Service has a mission is to work with others to conserve, fish, wildlife, and plants and their habitats.

**Other Efforts:** Trusts, conservancies, restoration groups and partnerships are supporting pollinator initiatives and incorporating native plants that support bees and other pollinators into their current activities. For example, the USDA Natural Resource Conservation Service is working with landowners in Michigan, Minnesota, Montana, North Dakota, South Dakota, and Wisconsin to make bee-friendly conservation improvements to their land. Improvements include the practices of planting cover crops, wildflowers, or native grasses and improved management on grazing lands.

**Research:** Researchers are studying and monitoring the impacts of GMO crops and certain pesticides on pollinators. Efforts by citizen scientists and researchers to determine the status of declining bee species are underway throughout the United States.

**What can I do to help conserve the rusty patched bumble bee?**

**Garden:** Grow a garden or add a flowering tree or shrub to your yard. Even small areas or containers on patios can provide nectar and pollen for native bees.

**Native plants:** Use native plants in your yard such as lupines, asters, bee balm, native prairie plants and spring ephemerals. Don’t forget spring blooming shrubs like ninebark and pussy willow! Avoid invasive non-native plants and remove them if they invade your yard. For more information on attracting native pollinators, visit www.fws.gov/pollinators/pdfs/PollinatorBookletFinalrevWeb.pdf.

**Natural landscapes:** Provide natural areas - many bumble bees build nests in undisturbed soil, abandoned rodent burrows or grass clumps. Keep some unmowed, brushy areas and tolerate bumble bee nests if you find them. Reduce tilling soil and mowing where bumble bees might nest. Support natural areas in your community, county and state.

**Minimize:** Limit the use of pesticides and chemical fertilizer whenever possible or avoid them entirely. Pesticides cause lethal and sublethal effects to bees and other pollinators.

January 10, 2017
IDENTIFICATION GUIDE TO LARGE NESTS

Eagle Nests
Eagle nests in Minnesota and Wisconsin are usually built in white pine or cottonwood trees, but can be built in other trees, such as aspen. The nests are usually built in a supportive crotch of the tree, typically below the highest point of the canopy. Generally more bowl shaped than osprey nests. The typical eagle nest can vary in size greatly. They are usually about 5-9 feet in diameter, 3-5 feet deep, and composed of large sticks. (Note: Nests can be up to 8 feet deep). The nests are used year after year, and can reach 1,000-2,000 pounds. The nest tree of an active nest will frequently have whitewash on the tree trunk and under the nest, although this is not always obvious. Nests may also have feathers, bones, and small animal carcasses under them. Eagles will build multiple nests within their territory; some nests will never be completed and will be small. These unfinished alternate nests are still protected. Eagles, osprey, and owls commonly take over each others nests. Once an eagle uses a nest, even if they don’t build it, or if they don’t use it on a subsequent year, it is still an eagle nest, and all Eagle Act laws still apply.

Large eagle nest in cottonwood tree in agricultural area. West central Wisconsin
Moderate-sized eagle nest in cottonwood tree, with person climbing up for size comparison. East central MN.
Moderate eagle nest in cottonwood tree, in residential area, Minneapolis, MN (photo credit: www.birdchick.com)

Large eagle nest in white pine tree, Mississippi River, MN. Adult eagle is above and left of the nest.

Large eagle nest in aspen tree. Hwy 11, MN
Photo credit: MN-DOT

Unfinished eagle nest in white pine. This nest is smaller than the previously pictured nests. Camp Ripley, MN
Osprey Nests
Osprey nests typically resemble a flat (not bowl-shaped) disorganized pile of large sticks. These nests can be as large as eagle nests, but are flatter. Unlike eagle nests, osprey will sometimes use man-made materials, such as bailing twine or plastic bags. If the nest has been active, the nesting material may be covered in whitewash. Osprey are relatively tolerant of human development and will readily nest on top of platforms, light posts, transmission towers, or the tops of broken trees. Osprey usually nest above the crown of the tree and at the highest point of a tree or other structure. However, both eagles and osprey have been known to use each other’s nests.

Red-tailed Hawk Nests
Red-tailed hawk nests are smaller than eagle or osprey nests, and can be as deep as or deeper than they are wide. They have a fairly tight construction, and the sticks that compose the nest tend to be smaller than those used for eagle or osprey nests (sticks generally 1-2 cm in diameter).
Crow/Raven Nests
Crows can be found breeding throughout the state of Minnesota. Ravens, although rare, can be found in the northeast portion of the state. Crow/raven nests are typically built out of sticks, although they can consist of some grass material. They are fairly large (although not as large as eagle nests). They usually measure about 2 feet in diameter, and can be up to a foot deep. They tend to have a fairly tight construction.

Heron Nests
Heron nests are almost always near water. Herons nest in a “Rookery” where many nests are present, individual nests are rare. Heron nests are composed of sticks, flat and broad, and resembling a thin platform. Nest will usually appear “messy” and “flimsy”.

Typical heron rookery. Photo credit: HDR consulting
Squirrel Nests
Squirrel nests can reach basketball size or larger. They are distinguished from bird nests by being made mostly of leaf and other “softer” vegetation matter (grasses, etc), and very few sticks. They are usually round shaped, and often look “messy”.

Typical squirrel nest, close-up
Squirrel nest, from ground

*Unless indicated, all photos were taken by Margaret Rheude, US Fish and Wildlife Service
NATURAL HERITAGE INFORMATION SYSTEM (NHIS) DATA REQUEST FORM

Please read the instructions on page 3 before filling out the form. Thank you!

WHO IS REQUESTING THE INFORMATION?

Mr. Name and Title Jeff Madejczyk

Mailing Address 1800 Pioneer Creek Center, P.O. Box 249 Maple Plain, MN 55359

Phone 763-479-4263 e-mail jmadejczyk@wenck.com

THIS INFORMATION IS BEING REQUESTED FOR A:

☐ Federal EA ☑ State EAW ☐ PUC Site or Route Application ☐ Watershed Plan ☐ BER
☐ Federal EIS ☐ State EIS ☐ Local Government Permit ☐ Research Project
☐ NEPA Checklist ☐ Other (describe) 

☐ Check here if this project is funded through any of the following grant programs: Lessard-Sams Outdoor Heritage Council (L-SOHC), Conservation Partners Legacy (CPL), or Legislative-Citizen Commission on Minnesota Resources (LCCMR).

INFORMATION WE NEED FROM YOU:

1) Enclose a map of the project boundary/area of interest (topographic maps or aerial photos are preferred).
2) Please provide a GIS shapefile* (NAD 83, UTM Zone 15N) of the project boundary/area of interest.
3) List the following locational information* (attach additional sheets if necessary):

<table>
<thead>
<tr>
<th>County</th>
<th>Township #</th>
<th>Range #</th>
<th>Section(s) (please list all sections)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Washington</td>
<td>29N</td>
<td>20W</td>
<td>NE 1/4 of Section 8; NE &amp; NW 1/4s of Section 9</td>
</tr>
</tbody>
</table>

4) Please provide the following information (attach additional sheets if necessary):

Project Name: The Orchards at Cahanes Farm - Residential Development

Project Proposer: Croix Capital Group

Description of Project (including types of disturbance anticipated from the project):

Croix Capital Company is proposing a new residential housing development in Baytown Township, in Washington County, Minnesota. The project site is 225 acres and consists of agricultural lands, some grassland and wetland areas, and an active farmstead. There is a high voltage electrical transmission line that runs north to south through the project site on the western side. The total development area will take place within an approximately 112 acres of the project site, with the other 113 acres remaining as open space. The residential development will include construction of approximately 110 new homes on 0.75 acre lots, roads within the site to serve the development and a new large subsurface wastewater treatment system. The proposed residential development is located in Baytown Township off of Osgood Ave N. as shown on the attached Figure 1.

* Please see the instructions on page 3.
Describe the existing land use of the project site. What types of land cover / habitat will be impacted by the proposed project?
The project site consists of approximately 225 acres (Figure 1). Existing land cover is a mix of agricultural land including active crop fields, as well as wetland and grassland areas. The project will develop approximately half of the project site with the other half remaining as open space that will include wetland and grassland areas.

List any waterbodies (e.g., rivers, intermittent streams, lakes, wetlands) that may be affected by the proposed project, and discuss how they may be impacted (e.g., dewatering, discharge, riverbed disturbance).
There are no public waters on the site. There are a number of wetland basins on the site. There is an unnamed public basin located 0.5 miles SW of the site. McDonald Lake is located one mile to the west. The St Croix River is located 1.75 miles east.

Does the project have the potential to affect any groundwater resources (e.g., groundwater appropriation, change in recharge, or contamination)?
The project will include a new large subsurface wastewater treatment system. The new treatment system will be designed and permitted following MPCA rules and requirements to ensure there are no impacts to ground water.

To your knowledge, has the project undergone a previous Natural Heritage review? If so, please list the correspondence #: ERDB # ___________. How does this differ from the previous request (e.g., change in scope, change in boundary, project being revived, project expansion, different phase)?

To our knowledge, a Natural Heritage review has not been conducted for the project site.

To your knowledge, have any native plant community or rare species surveys been conducted within the site? If so, please list: To our knowledge, a native plant community or rare species survey has not been conducted for the project site.

List any DNR Permits or Licenses that you will be applying for or have already applied for as part of this project:
At this time, there are no DNR permits anticipated for the project. If a DNR permit is needed, it will be applied for as required.

INFORMATION WE PROVIDE TO YOU:

1) The response will include a Natural Heritage letter. If applicable, the letter will discuss potential effects to rare features.

☐ Check here if you are interested in a list of rare features in the vicinity of the area of interest but you do not need a review of potential effects to rare features. Please list the reason a review is not needed:

2) Depending on the results of the query or review, the response may include an Index Report of known aggregation sites and known occurrences of federally and state-listed plants and animals* within an approximate one-mile radius of the project boundary/area of interest. The Index Report and Natural Heritage letter can be included in any public environmental review document.

3) A Detailed Report that contains more information on each occurrence may also be requested. Please note that the Detailed Report may contain specific location information that is protected under Minnesota Statutes, section 84.0872, subd. 2, and, as such, the Detailed Report may not be included in any public document (e.g., an EAW).

☐ Check here if you would like to request a Detailed Report. Please note that if the results of the review are ‘No Effects’ or a standard comment, a Detailed Report may not be available.

FEES / TURNAROUND TIME

There is a fee* for this service. Requests generally take 3-4 weeks from date of receipt to process, and are processed in the order received.

I have read the entire form and instructions, and the information supplied above is complete and accurate. I understand that material supplied to me from the Natural Heritage Information System is copyrighted and that I am not permitted to reproduce or publish any of this copyrighted material without prior written permission from the DNR. Further, if permission to publish is given, I understand that I must credit the Minnesota Division of Ecological and Water Resources, Minnesota Department of Natural Resources, as the source of the material.

Signature (required) ____________________ Note: Digital signatures representing the name of a person shall be sufficient to show that such person has signed this document.

Mail or email completed form to:
Lisa Joyal, Endangered Species Review Coordinator
Division of Ecological and Water Resources
Minnesota Department of Natural Resources
500 Lafayette Road, Box 25
St. Paul, Minnesota 55155
Review_NHIS@state.mn.us

Form is available at http://files.dnr.state.mn.us/eco/nhrnp/nhis_data_request.pdf

Revised March 2, 2012
Instructions for the Natural Heritage Information System (NHIS) Data Request Form

The Division of Ecological and Water Resources maintains the Natural Heritage Information System (NHIS), a collection of databases that provides information on Minnesota's rare plants and animals, native plant communities, and other rare features. The NHIS is continually updated as new information becomes available, and the Minnesota County Biological Survey (MCBS) is a major source of this information.

- Use this form to request information on rare features within an approximate one-mile radius of an area of interest. You may reproduce this form for your own use or to distribute. An electronic copy of the form is available at the DNR’s web site at http://files.dnr.state.mn.us/eco/nhnsp/nhis_data_request.pdf.

- If you are interested in obtaining the Rare Features Database electronically as a GIS shapefile, do not fill out this form. Please see http://files.dnr.state.mn.us/eco/nhnsp/natural_heritage_data.pdf for more information on this option.

WHO IS REQUESTING THE INFORMATION?

- The person whose name is entered on the form under the “Who is Requesting the Information” section must sign the form as an acknowledgment of the State of Minnesota’s copyright on all generated reports. All correspondence and invoices will be sent to this person. Please do not ask us to send this information to a different party.

- Please include a complete mailing address. Responses will be sent via email unless you specify differently.

INFORMATION WE NEED FROM YOU:

- Include a legible map (topographic maps or aerial photographs are preferred) clearly showing:
  1) location and boundaries of the project,
  2) associated infrastructure, and
  3) any waterbodies that may be affected by the proposed project.

- If the project boundary is large or complex, please provide a GIS shapefile (NAD 83, UTM Zone 15) of the project boundary/area of interest. Do not include any buffers. An additional “digitizing fee” may be charged for projects that require a substantial amount of time to digitize.

- Provide a complete list of sections that the proposed project or area of interest falls within. Do not include any buffer area. Please double-check this information. Incorrect sections can delay the processing of your request, and may result in an invalid review.

- Please provide a detailed project description, attaching separate pages to the form if necessary. Identify the type of development (e.g., housing, commercial, utility, ethanol facility, wind farm) being proposed, the size and # of units (if applicable), construction methods, and any associated infrastructure such as access roads, utility connections, and water supply and/or discharge pipelines.

- We cannot begin processing data requests until we receive all parts of the request, including a map and a completed, signed form.

INFORMATION WE PROVIDE TO YOU:

- The Natural Heritage review and database reports are valid for environmental review purposes for one year, and they are only valid for the project location and description provided on the form. Please contact Lisa Joyal at lisa.joyal@state.mn.us if project details change or if a data update is needed.

- Please note that the Natural Heritage review and database reports do not address/contain locations of the gray wolf (Canis lupus), state-listed as special concern, or Canada lynx (Lynx canadensis), federally-listed as threatened, as these species are not currently tracked in the Natural Heritage Information System. See page 4.

FEES / TURNAROUND TIME:

- There is a fee for this service. All fees are subject to change. The current fee schedule is available at http://files.dnr.state.mn.us/eco/nhnsp/natural_heritage_data.pdf. The minimum charge is $90.00, and increases based on the time it takes us to process the request (dependent upon project size and the results of the query). Please do not include payment with your request; an invoice will be sent to you.

- There is generally a 3-4 week turn-around time to process requests.

PLEASE SEE NEXT PAGE FOR ADDITIONAL SOURCES OF INFORMATION
ADDITIONAL SOURCES OF INFORMATION:

- The DNR Rare Species Guide [http://www.dnr.state.mn.us/rsg/index.html](http://www.dnr.state.mn.us/rsg/index.html) is the state's authoritative reference for Minnesota's endangered, threatened, and special concern species. It is a dynamic, interactive source that can be queried by county, ECS subsection, watershed, or habitat.

- Information on the gray wolf (*Canis lupus*):
  - DNR website: [http://www.dnr.state.mn.us/mammals/graywolf.html](http://www.dnr.state.mn.us/mammals/graywolf.html)

- Information on the Canada lynx (*Lynx Canadensis*):
  - DNR website: [http://www.dnr.state.mn.us/mammals/canadalynx.html](http://www.dnr.state.mn.us/mammals/canadalynx.html)

- Minnesota’s Comprehensive Wildlife Conservation Strategy [http://www.dnr.state.mn.us/cwcs/index.html](http://www.dnr.state.mn.us/cwcs/index.html) is an action plan focused on managing Minnesota’s native animals whose populations are rare, declining, or vulnerable to decline. It identifies Species in Greatest Conservation Need and the Key Habitats that support them.


- Information on MCBS Sites of Biodiversity Significance can be found at [http://www.dnr.state.mn.us/eco/mcbs/biodiversity_guidelines.html](http://www.dnr.state.mn.us/eco/mcbs/biodiversity_guidelines.html).

- Information on MCBS Native Plant Communities can be found at [http://www.dnr.state.mn.usnpc/index.html](http://www.dnr.state.mn.usnpc/index.html).

- Questions? Please contact Lisa Joyal at 651-259-5109 or lisa.joyal@state.mn.us.
Minnesota State Historic Preservation Office (SHPO) Results and Query
This information has been recently updated, please read the note below carefully.

This message simply reports the results of the cultural resources database search you requested. The database search produced results for only previously known archaeological sites and historic properties. Please read the note below carefully.

No archaeological sites or historic/architectural properties were identified in a search of the Minnesota Archaeological Inventory and Historic and Architectural Inventory for the search area requested.

The result of this database search provides a listing of recorded archaeological sites and historic/architectural properties that are included in the current MN SHPO databases. Because the majority of archaeological sites in the state and many historic/architectural properties have not been recorded, important sites or properties may exist within the search area and may be affected by development projects within that area. Additional research, including field survey, may be necessary to adequately assess the area’s potential to contain historic properties.

If you require a comprehensive assessment of a project’s potential to impact archaeological sites or historic/architectural properties, you may need to hire a qualified archaeologist and/or historian. If you need assistance with a project review, please contact Kelly Gragg-Johnson in Review and Compliance @ 651-259-3455 or by email at kelly.graggjohnson@mnhs.org.

The Minnesota SHPO Survey Manuals and Database Metadata can be found at http://www.mnhs.org/shpo/survey/inventories.htm

MN SHPO research hours are 8:30 AM – 4:00 PM Tuesday-Friday. Please call ahead at 651-59-3450 to ensure staff is available to assist you, if necessary.

The Office is closed on Mondays.
On Wednesday, January 24, 2018 at 4:07:37 PM UTC-6, Jeff C. Madejczyk wrote:

Good afternoon –

Attached is a request for a query of the SHPO database for a proposed residential development. The information from this query will be used as part of an EAW reviewing the proposed development.

Please let me know if you have questions or need additional information from me to process this request.

Thank you and have a nice evening.

Jeff Madejczyk
Principal

jmadejczyk@wenck.com | D 763-479-4263 | C 952-239-9464

1800 Pioneer Creek Center | Maple Plain, MN 55359
January 24th, 2018

Data Requests
Minnesota State Historic Preservation Office
345 Kellogg Boulevard West
St. Paul, MN 55102

RE: Cahanes Farm Residential Development

Department of Survey and Information Management:

Croix Capital Company is proposing a new residential housing development in Baytown Township, in Washington County, Minnesota. The project site is 225 acres and consists of agricultural lands, some grassland and wetland areas, and an active farmstead. There is a high voltage electrical transmission line that runs north to south through the project site on the western side. The total development area will take place within an approximately 112 acres of the project site, with the other 113 acres remaining as open space. The residential development will include construction of approximately 110 new homes on 0.75 acre lots, roads within the site to serve the development and a new large subsurface wastewater treatment system. The proposed residential development is located in Baytown Township off of Osgood Ave N. as shown on the attached Figure 1.

We are requesting information about possible historical and/or other cultural resources located on or near the project site in Baytown Township, in Washington County, Minnesota. Please provide any available information from the Minnesota Archaeological Inventory and Historic Structures Inventory regarding cultural resources near the project site. Specifically, the project is located in the NE 1/4 of Section 8 and the NE and NW 1/4s of Section 9, Township 29, Range 20. A site detail map is provided as Figure 2. The information from this query will be used as part of the EAW preparation for the proposed development project.

Please feel free to contact me at (763) 479-4263 if you have any questions. Thank you for your assistance.

Sincerely,

Wenck Associates, Inc.

Jeff Madejczyk
Principal
jmadejczyk@wenck.com

Enclosures: Project Location Map; Site Detail Map
Subject Property

Stillwater 7.5 Minute Quadrangle (USGS: 2016)
Hudson 7.5 Minute Quadrangle (USGS: 2016)

Area of Detail

CROIX CAPITAL
Site Location Map

USGS The National Map; National Elevation Dataset, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; U.S. Census Bureau - TIGER/Line; HERE Road Data.

Path: L:/6735/0002/Mxd/Site Location Map.mxd
Date: 10/17/2017 Time: 2:20:57 PM - User: Larmb0777

JAN 2018

Responsive partner. Exceptional outcomes.

Figure 1