

STANLEY WEST INDUSTRIAL PARK

COMMUNITY OVERVIEW

Stanley, Wisconsin is located within Chippewa County and is less than 30 miles (30 minutes) from Eau Claire, WI.

Situated in the Chippewa Valley Region of Wisconsin, Stanley West Industrial Park offers over 100 acres of Certified Shovel Ready land. Located just east of Eau Claire it is centrally located between Minneapolis-St. Paul, Green Bay, and the Chicago markets. Stanley Wisconsin's Highway 29 corridor is a great location where industry, agriculture and a sense of community coexist. With a modern infrastructure, shovel ready site, available skilled workforce and a great quality of life-Stanley and Chippewa County are at the top of the list for target industries: metal manufacturing, logistics, agriculture, and energy.

- I10-acre site with ~107 developable acres (23 acres graded and padded)
- Located along State Hwy 29, a four-lane divided highway, 46 miles from I-94
- Industrial zoning
- Zoning of surrounding properties compatible with industrial development
- American Land Trust Association (ALTA) survey
- No known utility easements that would prevent development
- Wetlands delineation completed
- Site not located on or adjacent to flood plain
- No known environmental impediments to industrial development

- No known impediments to immediate development related to endangered species
- Phase 1 Archeological complete; no known archaeological/historical impediments to industrial development
- Minneapolis-St. Paul International Airport (MSP) 107 miles away
- Chippewa Valley Regional Airport (8,100-foot runway) 30 miles away
- 🔽 St. Paul Port 111 miles away
- No rail planned; Ability for future trans load facility 0.2 mi North of property.
- Fire insurance classification 4 applies to community



ABOUT WISCONSIN'S CERTIFIED IN WISCONSIN PROGRAM

This site has been designated as "suitable for development"* by SSG and the Wisconsin Economic Development Corporation (WEDC). The site meets pre-defined criteria for site size, availability of utility and transportation infrastructure, physical and technical condition, environmental assessments, support by local communities, and other factors.

For more information about this Wisconsin Certified Site, please visit **LocateInWisconsin.com** or contact:

Charlie Walker President/CEO Chippewa Economic Development Corporation 715-723-7150 cwalker@chippewa-wi.com

*Site designation is based on information that has been submitted to SSG and WEDC, and that SSG and WEDC believe to be true. SSG and WEDC have no liability or responsibility for existing or future conditions of the sites.

COMMUNITY INTRODUCTION

REQUIREMENT	COMMENTS
Community overview General community fit for industrial activity 	 Stanley population: ~4K; Chippewa County population: ~60K; roader region (~50 mile radius) population: ~250K 3.6% unemployment (as of October 2023) Chippewa County recently received an international award for local college training programs focused on local manufacturing industry: a consortium of ~19 local companies designed curriculum with Chippewa Valley Technical College
 Site environment overview General surroundings fit for industrial activity 	 The property is located in proximity to several other industrial users in the chemical manufacturing and construction materials manufacturing space. This park also benefits from moderate electrical capacity and access to rail service.
 Roadway access Proximity to interstate and other highways providing convenient access for labor and logistics Access roads in place to site, or plans in place to extend access road(s) to site 	 Property is located along WI Hwy 29, a four-lane divided highway. Property is 46 miles to nearest interstate (I-94) and 66 miles to I-39.
 Rail Access (if applicable) – not required feasibility of service (if site is to be marketed as rail-served) 	 Rail service is not currently planned for the industrial park; however, Canadian National Railway Company (CN) operates the rail line 0.2 miles north of the property that serves Ace Ethanol. Future trans-load facility ability on CN rail at the Northside Elevator Site (across the road from park)
Commercial Airport Access – Access to airport(s) with commercial air service • Driving distance to proximate commercial airport(s) and overview of service available	• MSP Airport is 107 miles from the property.
Freight Airport Access – Access to airport(s) with freight air service	 Chippewa Valley Regional Airport is 30 miles from the property and has an 8,100-foot runway
General community fit for industrial activity	 Park is a publicly owned property in an established industrial area. Community has invested in a graded and padded site within the park. The park boasts strong electric service capabilities as well as access to rail infrastructure.
General surroundings fit for industrial activity	 Adjacent land use is agricultural and industrial and presents as a suitable area for industrial development. Ace Ethanol is located to the northeast of the of the property. Northside Elevator has constructed a fertilizer plant and commodity transload facility to the west of the property.

Access roads in place to site, or plans in place to extend access road(s) to site	 345th St. (gravel road) provides primary ingress/egress route off Hwy 29 and will need to be upgraded to accommodate industrial-grade traffic.
Feasibility of service (if site is to be marketed as rail-served)	 Rail service is not currently planned for the industrial park.
Driving distance to proximate commercial airport(s) and overview of service available	• Above
Description of the handling capacity of each proximate freight airport (e.g., current tonnage/year, runway length)	• Above

SITE INTRODUCTION

REQUIREMENT	COMMENTS
 Master Site plan and/or site plan illustrating exact dimensions and number of parcels for the specific site being submitted for certification Minimum of 50 contiguous developable acres 	 Master Site Plan has been provided that depicts four (4) parcels totaling 106.95 developable acres. A 23-acre graded pad is finished on the northwestern part of the property.
Aerial photograph illustrating the specific site being submitted for certification as well as the surrounding properties	 Aerial photo and KMZ file have been submitted that clearly delineate property boundary. Adjacent property primarily consists of raw land and agricultural use. Industrial companies including Ace Ethanol and Northside Elevator are within close proximity to the site.
ALTA Survey (American Land Trust Association) inclusive of site being submitted for certification	• An ALTA Survey was completed in November 2022 on the property to illustrate easements and site conditions.
 Flood Plain map (FEMA-produced FIRM map) No part of the site may be located on (or directly adjacent to) a flood plain 	 Property is located in FEMA Flood Zone X – outside the 100- and 500-year flood zone.

 Ownership – entire site must be wholly controlled by a single owner with documented willingness to sell to an industrial user Certificate of title Letter from property owner/ option holder stating that site is for sale/lease 	• Property consists of four (4) tax parcels and is owned by the City of Stanley.
 Asking Price – current asking price for sale or lease of the land must be indicated Documentation of asking price on a per-acre basis 	 Current asking price is \$12,500 per acre. The city is reeptive to negotiating the land price depending on economic impact.
Documentation (letter or map from FAA) indicating any restrictions related to airport proximity	· N/A
Maps of all utility infrastructure directly proximate to (or intersecting) the site	 Master Utility System Map has been created that identifies location of electric, natural gas, water, and wastewater infrastructure proximate to the site.

SITE PHYSICAL CHARACTERISTICS

REQUIREMENT	COMMENTS
Topography – no significant topography issues that could present major obstacles to industrial development of the site	 Site is generally flat with an approximate elevation change of 50 ft. across the entire site. A topographic map with clearly defined contour intervals (5 ft. and 1 ft.) is available.
Easements – site not intersected by utility or any other easement that would prevent development of 50 contiguous acres of the site	 No known utility easements on site
Wetlands – demonstrate that a user can utilize 50 contiguous acres that are not affected by wetlands	• Completed June 2023

 Environmental Assessment – no known environmental impediments to immediate industrial development Phase I within the past 2 years; Remediated sites provide completed Phase II and documentation of liability protection 	 Phase I Hazardous Materials Assessment completed March 2023 on approximately 121 acres. No potential hazardous materials sites were identified at the property. See report for full details.
Archaeological / Historical – no known archaeological / historical impediments to immediate industrial development	 Phase I archaeological investigation was completed in June 2023 on approximately 111 acres. No archaeological sites were identified within the project area, and no additional investigation is recommended. See report for full details.
Endangered Species – no known impediments to immediate industrial development related to endangered species	 Preliminary desktop analysis of site yielded no development concerns in relation to endangered species. Endangered resources review verification form from Wisconsin DNR provided. In June 2023, Wisconsin DNR reviewed the property and found that the project is covered by "Table 2" of the Broad Incidental Take Permit/ Authorization for No/Low Impact Activities. The no/low BITP/A covers projects that the DNR has determined will have no impact or a minimal impact to endangered and threatened species in the state.
 Fire Protection Fire Insurance Classification Rating Distance to the nearest servicing fire department 	 Class 4 rating applies to the community. Less than three miles to the Stanley Fire Department.
Topographic map with clearly defined contour intervals of 2' or less	 A current topographical map of the site has been produced. Site is generally flat with an approximate elevation change of 50 ft. across the entire site.
Geotechnical – minimum of 5 soil borings (for 50-acre site); no presence of sink holes or limestone caves; suitable water content / water table depth	 Geotechnical study consisted of 77 borings and resulted in recommendation of seismic class "C." See report for details.

ZONING

REQUIREMENT	COMMENTS
Industrial zoning (or equivalent) currently in place, or zoning change procedure underway as of field investigation	 Property is in the City of Stanley jurisdiction and is zoned Industrial. A zoning change will not be necessary for industrial use.
 Zoning certificate and relevant ordinance; or, letter from municipal authorities communicating status of zoning change procedure as of field investigation date 	

 Surrounding area zoning – zoning of surrounding properties compatible with industrial development of site Comprehensive Plan of area (if applicable) Zoning map of area including site (if applicable) Existing/planned zoning of surrounding land Codes, Covenants, and Restrictions on site and surrounding sites, as applicable 	• Agricultural and industrial zoned land surrounds the property.
Zoning certificate and relevant ordinance; or, letter from municipal authorities communicating status of zoning change procedure as of field investigation date	· N/A
Comprehensive plan of area (if applicable)	· N/A
Zoning map of area including site (if applicable)	\cdot A zoning map of the area has been provided by the City of Stanley.
Existing/planned zoning of surrounding land	 Agricultural and industrial zoned land surrounds the property.
Codes, covenants, and restrictions on site and surrounding sites, as applicable	 Codes, covenants, and restrictions have not been established at the property.

ELECTRIC UTILITY INFRASTRUCTURE

REQUIREMENT

Proximate electric power infrastructure availability and capacities

 Utility maps indicating location and current size / capacity of proximate transmission lines, distribution lines, and substations; Available capacity that could be provided to the site for each of the above

COMMENTS

- $\cdot\,$ Chippewa Valley Electric Cooperative is the power provider at this property.
- Dairyland Power Cooperative provides power generation and transmission to Chippewa Valley Electric Cooperative.
- $\cdot\,$ 7.2 kV and 12.47 kV lines are located on site.
- \cdot 115 kV line is 100 ft from the property.
- Delmar Substation is approximately one mile from the property.

Detailed description of dual feed potential (current or proposed redundant service)

- Overview (and map) illustrating dual feed electric service routes, including location, size and capacity of each node of delivery (substation, distribution line, etc.)
- Redundant service is feasible up to 7.5 MW. Loads greater than this would require substation upgrades.

Maps of all utility infrastructure directly proximate to (or intersecting) the site • Master Utility System Map has been created that identifies location of electric, natural gas, water, and wastewater infrastructure proximate to the site.

GAS, WATER, & WASTEWATER UTILITY INFRASTRUCTURE

NATURAL GAS

REQUIREMENT	COMMENTS
 Proximate natural gas infrastructure availability and capacities Utility maps indicating location and current size / capacity of proximate transmission lines, distribution lines, and substations; Available capacity that could be provided to the site for each of the above 	 Viking is the natural gas transmission provider and Wisconsin Gas is the distribution provider to the property. 4-inch polyethylene line operating at 60 pig is 100 ft. from the property and a 4-inch steel line operating at 475 pig is 380 ft. from the property. Current infrastructure is expected to be able to serve up to 4,000 mcf per month. High-level estimated \$63,000 and four months to extend the 4-inch line approximately 2,500 ft. to the graded-and-padded site being established at the park.
Introduction of any proposed improvements to / extensions of natural gas service to the site	 Demands greater than 4,000 mcf per month will require further engineering analysis to determine necessary upgrades, including cost and schedule, to serve the property.

WATER & WASTEWATER

REQUIREMENT	COMMENTS
Proximate water and wastewater infrastructure availability and capacities	 City of Stanley is the water provider to the property. 12-inch main is approximately 500 ft. east of the property located at intersection of West Maple Street and Janicki Road
	 City of Stanley provides water treatment plant capacity to the property. Permitted capacity of the Stanley water treatment plant is 1.4 mgd, and excess capacity is 50,000 gpd, factoring peak utilization.
	 City of Stanley provides wastewater service to the property. 8-inch main is approximately 500 ft. east of the property, located at intersection of West Maple Street and Janicki Road. Excess capacity of the wastewater infrastructure serving the property is 30,000 gpd.
	 City of Stanley provides wastewater treatment plant capacity to the property. Permitted capacity of Stanley wastewater treatment plant is 789,000 gpd, and excess capacity is 50,000 gpd.







Chippewa Valley Electric Cooperative

Stanley, Wisconsin Business Park West





A Touchstone Energy* Cooperative K





Business Park West 110-acre site

Aerial, March 2023

44.9555, -90.9681

Chippewa County, WI



Business Park West

110-acre site

USGS Map, March 2023





Chippewa Valley Electric Cooperative



Stanley, Wisconsin Business Park West

Highway Airport Infrastructure









Chippewa Valley Electric Cooperative

Stanley, Wisconsin **Business Park West Nearby Business Map**



Stanley Industrial Park Tenants: (Not to scale)

- 1. Chwala Construction NAICS 236220
- 2. Chwala Construction NAICS 236220
- 3. Available
- Mertens Transport NAICS 484220
- 5. Mertens Transport NAICS 484220
- 6. Mertens Services NAICS 488410
- 7. Releve Dance Company LLC
- NAICS 711120
- 8. Not Available
- 9. Not Available
- 10. Not Available
- 11. Not Available
- 12. Not Available
- 13. Not Available

- 14. Not Available
 - 15. River Country Co-op
 - 16. River Country Co-op
 - 17. Not available
 - 18. Not Available
 - 19. Not Available
 - 20. Not Available
 - 21. Not Available
 - 22. Not Available
 - 23. Not Available
 - 24. Lube Suppliers LLC.

 - 25. Lube Suppliers LLC. 26. Mertens Services
 - NAICS 488410

- 27. Mertens Services NAICS 488410
- 28. Mertens Services NAICS 488410
- 29. TRV Properties LLC NAICS 531312
- 30. TRV Properties LLC NAICS 531312
- 31. TRV Properties LLC NAICS 531312
- 32. Reit's Floral & Greenhouse
- 33. Haas Sons Properties LLC NAICS 484220 46. ACE Ethanol LLC. NAICS 325193
- 34. Francis Melvin INC NAICS 238110
- 35. Westaby Trucking LLP NAICS 213112
- 36. Not Available
- 37. Not Available
- 38. Excel Steel NAICS 331110
- 39. Premier Drywalling NAICS 238310

- 40. Not Available
- 41. Thaler Oil Inc. NAICS 213112
- 42. Smith Restorations Inc. NAICS 236118
- 43. ACE Ethanol LLC. NAICS 325193 44. ACE Ethanol LLC. NAICS 325193
- 45. ACE Ethanol LLC. NAICS 325193
- - 47. ACE Ethanol LLC. NAICS 325193 48. L Romannowski Corp. NAICS 111219
 - 49. Not Available
- 50. 22905-3411-00020001-Available
- 50. 22905-3412-00020000A-Available
- 50. 22905-3413-00020000A-Available
- 50. 22905-3414-00020000A-Project Pending







TOPOGRAPHIC MAP





353 S Broadway St P.O. Box 155 Stanley, Wisconsin 54768-0155 715-644-5758 www.stanleywisconsin.us

December 20, 2022

Wisconsin Economic Development Corporation 201 West Washington Avenue Madison, WI 53703

To Whom it May Concern;

This letter is to certify that the parcels listed below are fully owned by the City of Stanley and have been since prior to 2006. These parcels are currently for sale at a list price of \$12,500.00 per acre. As with all economic development projects, the city is receptive to negotiating the land price depending on the economic impact to the city. This will be done on a case-by-case basis.

22905-3411-00020001 22905-3412-00020000A 22905-3413-00020000A 22905-3414-00020000A

Sincerely,

Hoa Ω

Al Haas, Mayor City of Stanley



353 S Broadway St P.O. Box 155 Stanley, Wisconsin 54768-0155 715-644-5758 www.stanleywisconsin.us

December 20, 2022

Wisconsin Economic Development Corporation 201 West Washington Avenue Madison, WI 53703

To Whom it May Concern;

This letter is to certify that the parcels listed below are fully owned by the City of Stanley and have been since prior to 2006. These parcels are currently for sale at a list price of \$12,500.00 per acre. As with all economic development projects, the city is receptive to negotiating the land price depending on the economic impact to the city. This will be done on a case-by-case basis.

22905-3411-00020001 22905-3412-00020000A 22905-3413-00020000A 22905-3414-00020000A

Sincerely,

Hoa Ω

Al Haas, Mayor City of Stanley

WARRANTY DEED

Document Number

Charles M. Storm and Marianne E. Storm, Grantor, warrants and conveys to City of Stanley, a Wisconsin municipal corporation, Grantee, for good and valuable consideration, the following described real estate in Chippewa County, State of Wisconsin:

> That portion of Section 34, Township 29 North, Range 5 West, more fully described as follows: Commencing at the NE Corner of Section 34, the Point of Beginning; thence S 0° 54' 29" E, 2350.07 feet to a point on the North Right of Way Line of STH 29; thence along said Right of Way Line, S 89° 39' 42" W, 768.56 feet; thence N 86° 02' 57" W, 200.56 feet; thence S 89° 39' 42" W, 1434.80 feet; thence N 45° 11' 40" W 200.31 feet to a point on the East Right of Way Line of 345th Street; thence Westerly 66.00 feet, more or less, to a point on the West Right of Way Line of 345th Street; thence continuing along the North Right of Way Line of STH 29, S 44° 48' 20" W, 236.76 feet; thence S 89° 39' 42" W, 590.18 feet; thence N

DOCUMENT# 701482

Recorded MAR. 15,2005 AT 01:10PM

Marge & Gleinles

MARGE L. GEISSLER REGISTER OF DEEDS CHIPPEWA COUNTY, WI Fee Amount: \$13.00 Fee Exempt 77.25-(17)

THIS SPACE RESERVED FOR RECORDING DATA

RETURN TO:

William G. Thiel Weld Riley Prenn & Ricci SC PO Box 1030 Eau Claire WI 54702-1030

85° 34' 28 W, 516.03 feet to the West Line of the East ½ of the NW 1/4 of Section 34; thence along the West Line of the East ½ of the NW 1/4 of Section 34, N 0° 17' 02" W, 2335.53 feet to the Northwest Corner of the East 1/2 of the NW 1/4 of Section 34; thence along the North Line of Section 34, S 89° 59' 00" E, 432.12 feet; thence, S 0° 03' 03" E, 611.00 feet; thence N 89° 46' 42" E, 891.00 feet to the Centerline of the Right of Way of 345th Street; thence Northerly along said Centerline, N 0° 03' 03" W, 611.00 feet to the North Line of Section 34; thence along the North Line of Section 34, S 89° 59' 00" E, 915.87 feet; thence, S 0° 28' 41"E, 178.00 feet; thence S 89° 59' 00" E, 323.00 feet; thence N 0° 28' 41" W, 178.00 feet; thence along the North Line of Section 34, N 89° 44' 47" E, 1271.19 feet to the Point of Beginning, subject to the Rights of Way for 80th Avenue and 345th Street; and EXCEPTING from said description the following described parcel of land: That portion of the SE 1/4 of the NW 1/4 of Section 34, commencing at the North Quarter Corner of Section 34; thence along the West Right of Way Line of 345th Street; S 0° 03' 03" E, 1614.35 feet to the Point of Beginning; thence continuing along the West Right of Way Line of 345th Street, S 0° 03' 03" E, 182.36 feet; thence, N 89° 59' 32" W, 203.18 feet; thence N 0° 44' 19" W, 184.23 feet; thence, S 89° 28' 26" E, 205.40 feet to the Point of Beginning, containing .64 acres, more or less.

This is homestead property.

Tax Parcel No. 22905-3413-0002-000; 22905-3414-0002-0000; 22905-3411-0000-0000 22905-3412-0002-0000; 22905-3421-0002-0000; 22905-3424-0002-0000

Exceptions to warranties: Easements, ordinances and restrictions of record.

This Warranty Deed is tendered in satisfaction of a Land Contract between the Grantor and Grantee dated October 29, 2001, and recorded December 31, 2001, as Document No. 634258, Chippewa County Register of Deeds.

DOCUMENT# 701482

Dated this <u>4th</u> day of February

2005.

Charles m Storm

Marianne E. Storm

Marianne E. Storm

STATE OF WISCONSIN))ss. CHIPPEWA COUNTY)

COUNTY)

Personally came before me this <u>4th</u> day of <u>February</u>, 2005, the above-named Charles M. Storm and Marianne E. Storm to me known to be the persons who executed the foregoing instrument and acknowledged the same.

Diane Zais Print Name of Notary

Notary Public, State of Wisconsin My commission is permanent/expires February 5, 2006

THIS INSTRUMENT WAS DRAFTED BY: William G. Thiel - Lawyer State Bar #01016659

F:\Docs\CITY\STANLEY\0038Luedtke\Storm WDeed.wpd





Business Park West

110-acre site

Parcel Map, March 2023

44.9555, -90.9681

Chippewa County, WI



Business Park West

110-acre site

FEMA Flood Zone Imagery, March 2023



Business Park West 110-acre site

National Wetland Imagery, March 2023



Business Park West

110-acre site

Soils- Hydraulic Group, July 2023





Chippewa Valley Electric Cooperative



Stanley, Wisconsin Business Park West

Highway Airport Infrastructure



This site is not marketed as rail-served.







Chippewa Valley Electric Cooperative Stanley, Wisconsin Business Park West Zoning









13-1-52 I-1 Industrial District

- (a) Purpose. The I-1 District is intended to provide an area for manufacturing, marketing, and industrial and heavy agribusiness activities not located in a planned B-4 District business park setting. It is also intended to provide an area for a variety of uses which require relatively large installations, facilities or land areas, or which would create or tend to create conditions of public or private nuisance, hazard, or other undesirable conditions, or which for these or other reasons may require special safeguards, equipment, processes, barriers, or other forms of protection, including spatial distance, in order to reduce, eliminate, or shield the public from such conditions.
- (b) Permitted Uses. The following uses are permitted uses in the I-1 District (The Standard Industrial Classification (SIC) number is shown in [] below):
 - (1) All commercial activities permitted in the B-1, B-2, B-3 and B-4 Districts.
 - (2) Miniwarehouses.
 - (3) Building construction contractors. [15-17]
 - (4) Food locker plants.
 - (5) Offices.
 - (6) Class 2 collocation of a new mobile service facility on an existing support structure without substantial modification, per Section 13-1-182.
 - (7) Packaging, processing, production, warehousing or wholesaling of products, without open storage from: agricultural crops and produce, furs and leathers, glass, metals, paper, plastic, textiles, wood and related materials of local origin.
 - (8) Manufacture, packaging or warehousing, without open storage of products, such as: appliances, confections, cosmetics, electronic devices, instruments, jewelry, toiletries or pharmaceuticals.
 - (9) Service industries without open storage, such as:
 - a. Bakeries.
 - b. Breweries.
 - c. Bottling of beverages.
 - d. Commercial cleaners.
 - e. Food pantries.
 - f. Greenhouses.
 - g. Laboratories.
 - h. Machine shops.
 - i. Painting.
 - j. Printing and publishing.
 - k. Storage and sale of lumber and related construction materials.
 - (10) Open space uses, such as:
 - a. Agricultural crops and grazing.
 - b. Parks.
 - c. Parking lots.
 - d. Recreational facilities.
 - e. Greenways and open space uses.
- (c) **Conditional Uses.** The following are conditional uses pursuant to Article E within the I-1 District. Such use shall be subject to the consideration of the Common Council and Plan Commission with regard to such matters as the creation of nuisance conditions for the public or for the users of nearby areas, the creation of traffic hazards, the creation of health hazards, or other factors:
 - (1) Manufacturing establishments, usually described as factories, mills or plants, in which raw materials are transformed into finished products, and establishments engaged in assembling component parts of manufactured products. [20, 23-28, 30, 32-39]
 - (2) Other industrial or commercial activities which possess the special problem characteristics described above relating to the creation of hazards or nuisance conditions.
 - (3) The outdoor storage of industrial products, machinery, equipment, or other materials associated with a permitted or conditional use, provided that such storage be enclosed by a City-approved suitable fence or other manner of screening. Includes outdoor storage and manufacturing areas such as recycling facilities, scrap yards, salvage yards, wrecking or demolition yards; [50, 51]
 - (4) Railroads, including rights-of-way, railroad yards, and structures normally incident to the operation of railroads, including station houses, platforms, and signal towers, but not including warehouses owned by companies other than railroad companies or road terminal companies.
 - (5) Wholesale establishments and warehouses. [50-51]
 - (6) Highway passenger and motor freight transportation. [41-42]

(7) Commercial service facilities such as: fueling stations, garages, automotive repair shops, truck terminals, transshipment depots, provided such services are related to the industrial district users and/or employees.

(8) Light Industry and Service Uses.

- a. Automotive servicing and body repair.
- b. Automotive upholstery.
- c. Cleaning, pressing, dyeing.
- d. Commercial bakeries.
- e. Commercial greenhouses.
- f. Distributors.
- g. Printing and publishing
- h. Trade and contractor's facilities.
- i. Painting services.
- j. Retail sales and service facilities such as retail and surplus outlet stores, and restaurants and food service facilities when established in conjunction with a permitted manufacturing or processing facility.
- k. Recreation vehicle, boat and miscellaneous storage.

(9) Public Facilities and Uses.

- a. Governmental, cultural and public buildings or uses, such as fire and police stations, community centers, libraries, public emergency shelters, sewage treatment plants, pumping stations, public utilities facilities, parks, playgrounds and museums.
- b. Schools and churches.
- c. Airports, airstrips and landing fields.

(10) Agriculture Related Industry and Service Uses.

- a. Production of natural and processed cheese.
- b. Production of shortening, table oils, margarine and other edible fats and oils.
- c. Production of condensed and evaporated milk.
- d. Wet milling of com.
- e. Production of creamery butter.
- f. Drying and dehydrating fruits and vegetables.
- g. Preparation of feeds for animal and fowl.
- h. Creameries and dairies.
- i. Production of flour and other grain mill products; blending and preparing of flour.
- j. Fluid milk processing.
- k. Production of frozen fruits, fruit juices, vegetables and other specialties.
- I. Fruit and vegetable sauces and seasoning, and salad dressing preparation.
- m. Poultry and small game dressing and packing providing that all operations be conducted within an enclosed building.
- n. Production of sausages and other meat products providing that all operations be conducted within an enclosed building.
- o. Corn shelling, hay baling and threshing services.
- p. Grist mill services.
- q. Horticultural services.
- r. Canning of fruits, vegetables, preserves, jams and jellies.
- s. Canning of specialty foods.
- t. Grain elevators and bulk storage of feed grains.
- u. Fertilizer production, sales, storage, mixing and blending.
- v. Sales or maintenance of farm implements and related equipment.
- w. Animal hospitals, shelters and kennels.
- x. Veterinarian services.
- y. Portable sawmills.
- (11) Wind energy systems per Section 13-1-181.
- (12) Siting and construction of any new mobile support structure and/or facility or a Class 1 collocation of a new mobile service facility on an existing support structure, per Section 13-1-182.

- (13) Adult entertainment establishments under an AEO Adult Entertainment Overlay District classification per the requirements of Section 13-1-59 and also meeting the standards of Title 11, Chapter 7, whichever is most restrictive.
- (d) **Prohibited Uses.** The following are prohibited uses in the I-1 District:
 - (1) Specifically excluded from this designation and expressly prohibited is any use or business which is dangerous or which would create a public nuisance.
 - (2) All residential uses are expressly prohibited.
 - (3) Also specifically excluded and expressly prohibited is any use or business involving garbage removal or the slaughter of animals or poultry.

(e) Lot, Yard and Building Requirements.

- (1) Lot Size.
 - a. Minimum Width: One hundred (100) feet.
 - b. Minimum Area: Ten thousand (10,000) sq. ft.
- (2) Building.
 - a. Maximum Height: Forty-five (45) feet.
 - b. Minimum Floor Area: As required.
- (3) Yards.
 - a. Minimum Street Yard: Thirty (30) feet.
 - b. Minimum Side Yard: Twenty (20) feet.
 - c. Minimum Rear Yard: Twenty (20) feet.
- (4) Required Buffer Strips in Industrial Districts. Where an Industrial District abuts a Residential District, there shall be provided along any rear, side or front line, coincidental with any industrial-residential boundary, a City-approved buffer strip not less than forty (40) feet in width as measured at right angles to said lot line. Plant materials at least six (6) feet in height of such variety and growth habits as to provide a year-round, effective visual screen when viewed from the Residential District shall be planted in the exterior twenty-five (25) feet abutting the Residential District. If the required planting screen is set back from the industrial-residential boundary, the portion of the buffer strip facing the Residential District shall be attractively maintained. Fencing may be used in lieu of planting materials to provide said screening. The City-approved fencing shall be not less than four (4) nor more than eight (8) feet in height, and shall be of such materials as to effectively screen the industrial area. The exterior twenty-five (25) feet of the buffer strip shall not be devoted to the parking of vehicles or storage of any material or accessory uses. The interior fifteen (15) feet may de devoted to parking of vehicles.

This site does not currently have CCR's in place



MASTER UTILITY SYSTEM MAP





MASTER UTILITY SYSTEM MAP DETAIL OF NW-NE

Ó





MASTER UTILITY SYSTEM MAP





MASTER UTILITY SYSTEM MAP DETAIL OF SE-NE





MASTER UTILITY SYSTEM MAP DETAIL OF SW-NE





PROPOSED UTILITY SYSTEM MAP



Phase 1 Hazardous Materials Assessment

City of Stanley Industrial Park Development Project

Chippewa County

PREPARED FOR: CCEDC

PREPARED BY: CBS Squared, Inc. 770 Technology Way Chippewa Falls, WI 54729

March 2023



Executive Summary

CBS Squared, Inc. (CBS²) has completed this Phase 1 Hazardous Materials Assessment (HMA) for Charlie Walker of the Chippewa County Economic Development Corporation. The Phase 1 HMA was completed for the City of Stanley Industrial Park Development Project located in Chippewa County, Wisconsin. The project is located on the westside of Stanley, Wisconsin, North of STH 29.

The project involves the construction of the City of Stanley Industrial Park on a one hundred- and twentyone-acre site.

Grading impacts will be the construction of watermain, sanitary and storm sewer, as well as road and street construction throughout the site.

The purpose of conducting the Phase 1 HMA was to identify potential hazardous materials sites that could impact proposed construction project operations. There are no potential hazardous materials sites identified inside the project area during completion of this Phase 1 HMA.

One site has been identified that could possibly contain hazardous material. The site is located within 0.12 miles of the project area. Thaler Oil Company owns a Propane Terminal / Storage Facility located at 807 Janicki Road deemed as a Tier 2 Site. The site has no record of spills or contamination, no further assessment or investigation is recommended at this site.

Two other sites were determined unplottable due to age and lack of additional information, Buzz's Body Shop located .90 miles to the northeast and an underground storage tank owned by Gene Gustafson located 0.68 miles also to the northeast. Mylon "Buzz" Halterman owns Buzz's Body Shop located at 445 W. Maple Street. Buzz's Body Shop is considered a low-level hazardous waste generator. Gene Gustafson owned the UST located a 617 W. Maple Street in Stanley. Mr. Gustafson abandoned the UST in 1975. Due to these sites being far away from the project area and at a lower elevation, no further assessment or investigation is recommended at these sites.

One site with 2 Aboveground Storage Tanks was also identified. The L. Romanowski Corporation is a custom hire agricultural operator owned by Larry Romanowski. The site is located at 902 W. Maple Street approximately 0.04 miles from the site. There are two 500 gallon storage tanks for refueling agricultural equipment. The tanks are in "like new" condition and appear to be well maintained. Due to the size, type and use of these tanks, no further assessment or investigation is recommended at this site.
Table of Contents

Cover Executive Summary Table of Contents

1.	Pro	ject Area Information4				
	1.1.	Location				
	1.2.	Units of Government4				
	1.3.	Land Use4				
	1.4.	Topography4				
	1.5.	Hydrogeology				
2.	Phase 1 HMA Methodologies					
	2.1.	Records Review				
	2.2.	Site Reconnaissance				
	2.3.	Historical Documents				
3.	Pot	ential Hazardous Materials Sites6				
	3.1.	Thaler Oil Company, Inc				
	3.2.	Buzz's Body Shop				
	3.3.	Gene Gustafson				
	3.4.	L. Romanowski Corporation				
4.	Conclusions and Recommendations7					
5.	Standard of Care7					
6.	References7					

Table of Contents (Continued)

Tables

Table 1Potential Hazardous Materials Sites Summary

Figures

Figure 1	Project Location Map
Figure 2	Historical Aerials of Area
Figure 3	BRRTS Map
Figure 4	Web Soil Survey – Soil Report

Appendices

Appendix A	Environmental Records Search Results
Appendix B	Physical Setting Report
Appendix C	Thaler Oil Company, Inc.
Appendix D	Buzz's Body Shop
Appendix E	Gene Gustafson
Appendix F	L. Romanowski Corporation
Appendix G	Sanborn Fire Map Information

1. Project Area Information

CBS Squared, Inc. (CBS²) has completed this Phase 1 Hazardous Materials Assessment (HMA) for Charlie Walker of the Chippewa County Economic Development Corporation. The Phase 1 HMA was completed for City of Stanley Industrial Park Development Project located in Chippewa County, Wisconsin. The location is west of Stanley, Wisconsin and north of STH 29.

The project involves the construction of the City of Stanley Industrial Park on a one hundredand twenty-one-acre site.

Grading impacts will be the construction of watermain, storm and sanitary sewer, as well as road and street construction.

Acquisition of additional real estate is not expected.

CBS² has completed this Phase 1 HMA for the City of Stanley Industrial Park Development Project. The purpose of conducting the Phase 1 HMA was to identify potential hazardous materials sites that could impact the proposed project construction operations. Phase 1 HMAs are conducted to provide sufficient information that can be used to minimize potential environmental liabilities, avoid costly construction delays and emergencies, and address worker safety during construction. This Phase 1 HMA was completed in accordance with ASTM procedures (ASTM E 1527 - 05).

1.1. Location

The project area lies within Section 34 in T29N-R05W, Chippewa County, Wisconsin. The project is located at east of 345th Street and north of STH 29.

1.2. Units of Government

The units of government that has jurisdiction or are otherwise involved in the project area is the City of Stanley and Chippewa County. No other units of government are known to be involved in the project.

1.3. Land Use

The City of Stanley was founded in 1881 and currently has a population of around 3,800. Historical aerial photographs show the land adjacent to the project, west of Stanley and north of STH 29, was almost exclusively used for agriculture purposes. This still seems to be the current use for the land on the westside of 345th Street and north of the project area. Around 1999, the City of Stanley begin developing to the west of the City, which is east of the current site.

1.4. Topography

Throughout the project area, there is a not a significant change in elevation.

1.5. Hydrogeology

The project is in an area of Wisconsin that was covered by glaciers, specifically the Laurentide Ice Sheet. The bedrock in the project area mostly consists of Cambrian Sandstone with some dolomite and shale. The area also includes parts of the Trempealeau, Tunnel City and Elk Mound Formations.

The most prevalent soil in the project area is silt loam. The loams consist of Loyal Silt Loam, Cable Silt Loam, Poskin Silt Loam, Rib Silt Loam, Spencer Silt Loam and Withee Silt Loam. The soil ranges from moderately well drained to very poorly drained.

Water table depth varies with the aquifers and seasonal recharge. The depth to the water table in general, is greater than 7 feet. The static water level at the project site is approximately 15 feet.

2. Phase 1 HMA Methodologies

2.1. Records Review

CBS² conducted an environmental records review in order to identify past or present factors that may cause a potential hazardous materials concern to proposed planning efforts and future construction along the project area. This included a review of documents available on-line from the Wisconsin Department of Safety and Professional Services (DSPS) and the Wisconsin Department of Natural Resources (WDNR). In addition, Environmental Risk Information Services (ERIS) provided a government database records search for the project area. A copy of the ERIS database report can be found in Appendix A, "Environmental Records Search Results."

The on-line databases that were reviewed included the DSPS Storage Tank Database at <u>http://dvmwapps.wi.gov/ER_Tanks/ER-EN-TankSearch.htm</u>.

The CLEAN database includes the Bureau for Remediation and Redevelopment Tracking System (BRRTS) and the Remediation and Redevelopment (RR) Sites Maps. BRRTS is an online database that provides information on contaminated properties and other activities in Wisconsin. The RR Sites Map is a web-based mapping system that allows a user to view different layers of contamination data using a Geographic Information System (GIS) tool.

The pertinent information obtained from these on-line databases along with the EDR information is included in Table 1, "Potential Hazardous Materials Sites Summary."

2.2. Site Reconnaissance

As part of the Phase 1 HMA, CBS² performed site reconnaissance to observe site conditions on properties within 0.25 miles of the proposed area. The site reconnaissance was conducted on March 23, 2023. Overall appearance of the exterior of structures located along the project area and the associated properties were noted and photographed. No site reconnaissance of building interiors was conducted as part of this Phase 1 HMA.

During the visit, the project area was visited as well as the potential hazardous site. There was no evidence of any contamination during any part of the reconnaissance. Also, no AST's (Aboveground Storage Tank) were observed on the site.

2.3. Historical Documents

CBS² reviewed historical aerial photographs of the project area to identify former industrial, commercial, and residential areas and to identify past practices that may be of environmental concern along the project area. Aerial photographs available for years 1938, 1945, 1951, 1960, 1968, 1976, 1980, 1992, 1999, 2004, 2005, 2006, 2008, 2010, 2013, 2015, 2017, 2018, 2020 and 2021 were obtained from ERIS (Refer to Figure 3, "Historical Aerials"). However, the scale of multiple aerial photographs was generally too large to allow for observation of minor activities along the area. Information related to specific properties along the project area that CBS² obtained from reviewing aerial photography is included within specific sections or appendices of this report.

Sanborn Fire maps were unavailable. This is likely due to the lack of development at this location during the era when Sanborn maps were drawn.

3. Potential Hazardous Materials Sites

Information for the potential hazardous materials site that was identified along the project area is included in this section. The proposed construction along the project area was considered in identifying the potential hazardous materials sites. Information regarding the reasons each site has the potential to contain hazardous material is included in the following sections and is summarized in Table 1. Recommendations were made for the site on whether or not additional assessment or investigation should be completed.

3.1. Thaler Oil Company, Inc.

Thaler Oil Company, Inc. is located at 807 Janicki Road, less than 0.12 miles from the project. The site is a Propane Terminal / Storage Facility and is deemed as a Tier 2 site. The facility is relatively new and does not have a history of spills or contamination. No further assessment or investigation is recommended at this site.

3.2. Buzz's Body Shop

Buzz's Body Shop located 445 W. Maple Street is approximately .90 miles from the project site. The business is owned by Mylon "Buzz" Halterman. Buzz's Body Shop is considered a low-level hazardous waste generator, the site has been deemed unplottable. There is no record of spills or contamination for this site in the BRRTS database. No further assessment or investigation is recommended at this site.

3.3. Gene Gustafson

The Gene Gustafson residence located at 617 W. Maple Street is approximately .68 miles from the project site. The residence contains an underground storage tank (UST). Records indicate the UST License No. 457883 was installed on March 24, 1959. The UST is a coated steel,

single wall tank with a capacity of 500 gallons. The tank was used for storage of Leaded Gasoline and abandoned without product on January 1, 1975. Age and lack of additional information have deemed this site unplottable. Available records indicate proper protocol was followed for UST abandonment, no further assessment or investigation is recommended at this site.

3.4. L. Romanowski Corporation

The L. Romanowski Corporation is located 902 W. Maple Street is approximately 0.04 miles from the project site. The business is owned by Larry Romanowski. The L. Romanowski Corporation is a custom hire agriculture operator. The two 500 gallon Aboveground Storage Tanks located on the site are for refueling agricultural equipment. Both tanks appear to be well maintained and are in "like new" condition. There is no record of spills or contamination for this site in the DATCP database. No further assessment or investigation is recommended at this site

4. Conclusions and Recommendations

CBS² has completed this Phase 1 HMA for the City of Stanley Industrial Park Development Project that is specifically described in Section1.1 of this report. During completion of the Phase 1 HMA, CBS² identified one potential hazardous materials site within or near the project area.

During the Phase 1 Hazardous Materials investigation of the City of Stanley Industrial Park Development Project, one site had been found that could potentially contain hazardous materials. This site does not have a history of contamination and does not seem to be dangerous. Accordingly, no additional assessment or investigation is recommended for this site. Special provisions should not be necessary given the understood scope of improvements at this property.

5. Standard of Care

The conclusions and recommendations contained in this report were arrived at in accordance with generally accepted professional engineering practice at this time and location. Other than this, no warranty is implied or intended.

6. References

Environmental Risk Information Services (ERIS) environmental record search and historic aerials.

Wisconsin Department of Natural Resources, 2014, The Bureau for Remediation and Redevelopment Tracking System (BRRTS) on the Web

Wisconsin Department of Transportation, December 22, 2011, "Phase 1 Hazardous Material Assessments"

Bedrock Geologic Map of Wisconsin. 1982 Wisconsin Geologic and Natural Survey History

NRCS Web Soil Survey

Wisconsin DATCP Website / Database

Table 1
Potential Hazardous Materials Sites Summary

Demont			Potential		Constructio		ion		Phase 2 or 2.5 SI		Special		
Appendix	Site Name/Address	Owner/Address	Contaminants of	Database Referenced and WDNR BRRTS#	Requirements		nts	Activity Status	Recommended?		Provisions?	Comments	Recommendations
Appendix			Concern		acq	eas	exc		Yes	No	(Y/N)		
С	Thaler Oil Co., Inc. 807 Janicki Road Stanley, WI 54768	Thaler Oil Co., Inc. 310 S. Main Street Chippewa Falls, WI 54729	Propane	Tier 2 Facility ID: 200309 NAICS: 424710 CAS No: 74986				Operating Tier 2 Facility		x	N	Propane Terminal / Storage Facility	Due to no history of spills or documented contamination, no further assessment or investigation is recommended at this site.
D	Buzz's Body Shop 445 W. Maple Street Stanley, WI 54768	Mylon "Buzz" Halterman 445 W. Maple Street Stanley, WI 54768	Chemicals / Solvents	SHWIMS FID: 609023030				SHWIMS - Closed		x	N	Body Shop Business considered a low-level Hazardous Materials Generator	Due to the amount of Hazardous Waste potentially being generated, no further assessment or investigation is recommended at this site.
												1-500 gal leaded tank (Abandoned)	
Е	Gene Gustafson 617 W. Maple Street Stanley, WI 54768	Owner Deceased	Petroleum	UST License #457883 Facility Reference #81373/81373				UST - Closed		х	Ν	Abandoned without Product	Due to UST being documented and abandoned without product, no further assessment or investigation is recommended at this site.
				Tank Reference #265552/090900050								1-Jan-75	
F	L. Romanowski Corp. 902 W. Maple Street Stanley, WI 54768	Larry Romanowski N2118 Skyline Drive Stanley, WI 54768	Petroleum	DATCP - Storage Tank Database				Not in DATCP System		x		Tanks appear to be coated steel, single wall, 500 gallon capacity tanks.	(2) 500 gallon diesel fuel tanks are used for refueling agricultural equipment. The tanks are maintained and do not pose a leak or contamination hazard.
AST = Above ground Storage Tank gal = gallo					gal = gallon								
UST= Underground Storage Tank					TLE = Temporary Limited Easement								
Ac. = acre					LUST = Leaking Underground Storage Tank								
acq = acquisition					NPL = National Priority List								
BRRTS = Wisconsin Department of Natural Resources Bureau for Remediation and Redevelopment Tracking System						SHWIMS = Solid and Hazardous Waste Information System							
DSPS = Wisconsin Department of Safety and Professional Services DCOY						DCOMM = Wisconsin Department of Commerce							
exc = excavat	ion												
eas = easement	.11												

City of Stanley Industrial Park Development Project Phase 1 HMA

Figures

Figure 1 – Project Location Map

Figure 2 – Historical Aerials

Figures 3A & 3B – BRRTS Maps

Figure 4 - Web Soil Survey - Soil Report

Figure 1

Project Location Map



Figure 2

Historical Aerials



Project Property:	City of Stanley Industrial
	Park Development Project
	80th Ave
	Stanley WI 54768
Project No:	CCEDC 22001
Requested By:	CBS Squared, Inc
Order No:	23031400190
Date Completed:	March 16,2023

Aerial Maps included in this report are produced by the sources listed above and are to be used for research purposes including a phase I report. Maps are not to be resold as commercial property. ERIS provides no warranty of accuracy or liability. The information contained in this report has been produced using aerial photos listed in above sources by ERIS Information Inc. (in the US) and ERIS Information Limited Partnership (in Canada), both doing business as 'ERIS'. The maps contained in this report do not purport to be and do not constitute a guarantee of the accuracy of the information contained herein. Although ERIS has endeavored to present information that is accurate, ERIS disclaims, any and all liability for any errors, omissions, or inaccuracies in such information and data, whether attributable to inadvertence, negligence or otherwise, and for any consequences arising therefrom. Liability on the part of ERIS is limited to the monetary value paid for this report.

Environmental Risk Information Services A division of Glacier Media Inc. 1.866.517.5204 | info@erisinfo.com | erisinfo.com

Date	Source	Scale	Comments
2021	MAXAR TECHNOLOGIES	1" = 500'	
2020	United States Department of Agriculture	1" = 500'	
2018	United States Department of Agriculture	1" = 500'	
2017	United States Department of Agriculture	1" = 500'	
2015	United States Department of Agriculture	1" = 500'	
2013	United States Department of Agriculture	1" = 500'	
2010	United States Department of Agriculture	1" = 500'	
2008	United States Department of Agriculture	1" = 500'	
2006	United States Department of Agriculture	1" = 500'	
2005	United States Department of Agriculture	1" = 500'	
2004	United States Department of Agriculture	1" = 500'	
1999	United States Geological Survey	1" = 500'	
1992	United States Geological Survey	1" = 500'	Best Copy Available
1980	United States Geological Survey	1" = 500'	
1976	United States Geological Survey	1" = 500'	
1968	Agricultural Stabilization & Conserv. Service	1" = 500'	Photo Index-Best Available
1960	Agricultural Stabilization & Conserv. Service	1" = 500'	
1951	United States Geological Survey	1" = 500'	
1945	United States Geological Survey	1" = 500'	
1938	Agricultural Stabilization & Conserv. Service	1" = 500'	



Year:2021Source:MAXARScale:1" = 500'Comment:

Address: 80th Ave, Stanley, WI Approx Center: -90.96929268,44.95539953





Year:2020Source:USDAScale:1" = 500'Comment:

Address: 80th Ave, Stanley, WI Approx Center: -90.96929268,44.95539953





 Year:
 2018

 Source:
 USDA

 Scale:
 1" = 500'

 Comment:

Address: 80th Ave, Stanley, WI Approx Center: -90.96929268,44.95539953





 Year:
 2017

 Source:
 USDA

 Scale:
 1" = 500'

 Comment:

Address: 80th Ave, Stanley, WI Approx Center: -90.96929268,44.95539953





 Year:
 2015

 Source:
 USDA

 Scale:
 1" = 500'

 Comment:

Address: 80th Ave, Stanley, WI Approx Center: -90.96929268,44.95539953





 Year:
 2013

 Source:
 USDA

 Scale:
 1" = 500'

 Comment:

Address: 80th Ave, Stanley, WI Approx Center: -90.96929268,44.95539953





 Year:
 2010

 Source:
 USDA

 Scale:
 1" = 500'

 Comment:

Address: 80th Ave, Stanley, WI Approx Center: -90.96929268,44.95539953





 Year:
 2008

 Source:
 USDA

 Scale:
 1" = 500'

 Comment:

Address: 80th Ave, Stanley, WI Approx Center: -90.96929268,44.95539953





 Year:
 2006

 Source:
 USDA

 Scale:
 1" = 500'

 Comment:

Address: 80th Ave, Stanley, WI Approx Center: -90.96929268,44.95539953





Year:2005Source:USDAScale:1" = 500'Comment:

Address: 80th Ave, Stanley, WI Approx Center: -90.96929268,44.95539953





 Year:
 2004

 Source:
 USDA

 Scale:
 1" = 500'

 Comment:

Address: 80th Ave, Stanley, WI Approx Center: -90.96929268,44.95539953





 Year:
 1999

 Source:
 USGS

 Scale:
 1" = 500'

 Comment:

Address: 80th Ave, Stanley, WI Approx Center: -90.96929268,44.95539953





Year:1992ASource:USGSAScale:1'' = 500'Comment:Best Copy Available

Address: 80th Ave, Stanley, WI Approx Center: -90.96929268,44.95539953





 Year:
 1980

 Source:
 USGS

 Scale:
 1" = 500'

 Comment:

Address: 80th Ave, Stanley, WI Approx Center: -90.96929268,44.95539953





 Year:
 1976

 Source:
 USGS

 Scale:
 1" = 500'

 Comment:

Address: 80th Ave, Stanley, WI Approx Center: -90.96929268,44.95539953





Year:1968Address: 80th Ave, Stanley, WISource:ASCSApprox Center: -90.96929268,44.95539953Scale:1" = 500'Comment:Photo Index-Best Available





Address: 80th Ave, Stanley, WI Approx Center: -90.96929268,44.95539953





 Year:
 1951

 Source:
 USGS

 Scale:
 1" = 500'

 Comment:

Address: 80th Ave, Stanley, WI Approx Center: -90.96929268,44.95539953





Address: 80th Ave, Stanley, WI Approx Center: -90.96929268,44.95539953





Year: 1938 Source: ASCS Scale: 1" = 500' Comment: Address: 80th Ave, Stanley, WI Approx Center: -90.96929268,44.95539953



Figure 3A & 3B

BRRTS Maps




Figure 4

Web Soil Survey – Soil Report



USDA Natural Resources

Conservation Service

MAP L	EGEND	MAP INFORMATION
Area of Interest (AOI) Area of Interest (AOI)	Spoil AreaStony Spot	The soil surveys that comprise your AOI were mapped at 1:15,800.
Soils Soil Map Unit Polygons Image: Signed of the set	 Stony Spot Very Stony Spot Wet Spot Other Special Line Features Water Features Streams and Canals Transportation Herein Rails Interstate Highways US Routes Iotoral Roads Local Roads Backgrount Aerial Photography 	 1:15,800. Warning: Soil Map may not be valid at this scale. Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale. Please rely on the bar scale on each map sheet for map measurements. Source of Map: Natural Resources Conservation Service Web Soil Survey URL: Coordinate System: Web Mercator (EPSG:3857) Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required. This product is generated from the USDA-NRCS certified data as of the version date(s) listed below. Soil Survey Area: Chippewa County, Wisconsin Survey Area Data: Version 19, Sep 15, 2022 Soil map units are labeled (as space allows) for map scales 1:50,000 or larger. Date(s) aerial images were photographed: Aug 16, 2020—Sep 23, 2020 The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background
SinkholeSlide or SlipSodic Spot		imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.



Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Сь	Capitola-Cebana complex, 0 to 2 percent slopes, very stony	12.5	6.6%
FnC2	Freeon silt loam, 6 to 12 percent slopes	0.1	0.0%
LoC2	Loyal silt loam, 6 to 12 percent slopes	13.9	7.3%
Pc	Pits, gravel	0.6	0.3%
Px	Poskin silt loam, 0 to 2 percent slopes	20.5	10.8%
Rb	Rib silt loam, 0 to 2 percent slopes	4.7	2.5%
Rc	Rib mucky silt loam, ponded, 0 to 2 percent slopes	0.7	0.4%
SrB	Spencer silt loam, 2 to 6 percent slopes	16.0	8.4%
WeB	Withee silt loam, 0 to 3 percent slopes	121.6	63.8%
Totals for Area of Interest		190.6	100.0%



Appendices

Appendix A – Environmental Records Search Results Appendix B – Physical Setting Report Appendix C – Thaler Oil Company, Inc. Appendix D – Buzz's Body Shop Appendix E – Gene Gustafson Residence Appendix F – L. Romanowski Corporation Appendix G – Sanborn Fire Map Information

Appendix A

Environmental Records Search Results



DATABASE REPORT

Project Property:

Project No: Report Type: Order No: Requested by: Date Completed: City of Stanley Industrial Park Development Project 80th Ave Stanley WI 54768 CCEDC 22001 Database Report 23031400190 CBS Squared, Inc March 14, 2023

Table of Contents

Table of Contents	2
Executive Summary	3
Executive Summary: Report Summary	4
Executive Summary: Site Report Summary - Project Property	8
Executive Summary: Site Report Summary - Surrounding Properties	9
Executive Summary: Summary by Data Source	10
Map	11
Aerial	14
Topographic Map	15
Detail Report	16
Unplottable Summary	17
Unplottable Report	18
Appendix: Database Descriptions	20
Definitions	34

Notice: IMPORTANT LIMITATIONS and YOUR LIABILITY

Reliance on information in Report: This report DOES NOT replace a full Phase I Environmental Site Assessment but is solely intended to be used as database review of environmental records.

License for use of information in Report: No page of this report can be used without this cover page, this notice and the project property identifier. The information in Report(s) may not be modified or re-sold.

Your Liability for misuse: Using this Service and/or its reports in a manner contrary to this Notice or your agreement will be in breach of copyright and contract and ERIS may obtain damages for such mis-use, including damages caused to third parties, and gives ERIS the right to terminate your account, rescind your license to any previous reports and to bar you from future use of the Service.

No warranty of Accuracy or Liability for ERIS: The information contained in this report has been produced by ERIS Information Inc. ("ERIS") using various sources of information, including information provided by Federal and State government departments. The report applies only to the address and up to the date specified on the cover of this report, and any alterations or deviation from this description will require a new report. This report and the data contained herein does not purport to be and does not constitute a guarantee of the accuracy of the information contained herein and does not constitute a legal opinion nor medical advice. Although ERIS has endeavored to present you with information that is accurate, ERIS disclaims, any and all liability for any errors, omissions, or inaccuracies in such information and data, whether attributable to inadvertence, negligence or otherwise, and for any consequences arising therefrom. Liability on the part of ERIS is limited to the monetary value paid for this report.

Trademark and Copyright: You may not use the ERIS trademarks or attribute any work to ERIS other than as outlined above. This Service and Report (s) are protected by copyright owned by ERIS Information Inc. Copyright in data used in the Service or Report(s) (the "Data") is owned by ERIS or its licensors. The Service, Report(s) and Data may not be copied or reproduced in whole or in any substantial part without prior written consent of ERIS.

Executive Summary

Property Information:

Project Property:

City of Stanley Industrial Park Development Project 80th Ave Stanley WI 54768

Project No:

CCEDC 22001

Coordinates:

Latitude:	44.95539953
Longitude:	-90.96929268
UTM Northing:	4,980,001.86
UTM Easting:	660,175.02
UTM Zone:	15T

Elevation:

1,133 FT

Order Information:

Order No:	23031400190
Date Requested:	March 14, 2023
Requested by:	CBS Squared, Inc
Report Type:	Database Report

Historicals/Products:

Aerial Photographs
ERIS Xplorer
Excel Add-On
Fire Insurance Maps
Physical Setting Report (PSR)

Historical Aerials (with Project Boundaries) <u>ERIS Xplorer</u> Excel Add-On US Fire Insurance Maps Physical Setting Report (PSR)

Executive Summary: Report Summary

Database	Searched	Search Radius	Project Propertv	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
Standard Environmental Records								
Federal								
DOE FUSRAP	Y	1	0	0	0	0	0	0
NPL	Y	1	0	0	0	0	0	0
PROPOSED NPL	Y	1	0	0	0	0	0	0
DELETED NPL	Y	0.5	0	0	0	0	-	0
SEMS	Y	0.5	0	0	0	0	-	0
SEMS ARCHIVE	Y	0.5	0	0	0	0	-	0
ODI	Y	0.5	0	0	0	0	-	0
CERCLIS	Y	0.5	0	0	0	0	-	0
IODI	Y	0.5	0	0	0	0	-	0
CERCLIS NFRAP	Y	0.5	0	0	0	0	-	0
CERCLIS LIENS	Y	PO	0	-	-	-	-	0
RCRA CORRACTS	Y	1	0	0	0	0	0	0
RCRA TSD	Y	0.5	0	0	0	0	-	0
RCRA LQG	Y	0.25	0	0	0	-	-	0
RCRA SQG	Y	0.25	0	0	0	-	-	0
RCRA VSQG	Y	0.25	0	0	0	-	-	0
RCRA NON GEN	Y	0.25	0	0	0	-	-	0
RCRA CONTROLS	Y	0.5	0	0	0	0	-	0
FED ENG	Y	0.5	0	0	0	0	-	0
FED INST	Y	0.5	0	0	0	0	-	0
LUCIS	Y	0.5	0	0	0	0	-	0
NPL IC	Y	0.5	0	0	0	0	-	0
ERNS 1982 TO 1986	Y	PO	0	-	-	-	-	0
ERNS 1987 TO 1989	Y	PO	0	-	-	-	-	0
ERNS	Y	PO	0	-	-	-	-	0
FED BROWNFIELDS	Y	0.5	0	0	0	0	-	0
FEMA UST	Y	0.25	0	0	0	-	-	0

Dat	abase	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
	FRP	Y	0.25	0	0	0	-	-	0
	DELISTED FRP	Y	0.25	0	0	0	-	-	0
	HIST GAS STATIONS	Y	0.25	0	0	0	-	-	0
	REFN	Y	0.25	0	0	0	-	-	0
	BULK TERMINAL	Y	0.25	0	0	0	-	-	0
	SEMS LIEN	Y	PO	0	-	-	-	-	0
	SUPERFUND ROD	Y	1	0	0	0	0	0	0
Sta	te								
	SHWS	Y	1	0	0	0	0	0	0
	SWF/LF	Y	0.5	0	0	0	0	-	0
	WDS	Y	0.5	0	0	0	0	-	0
	HIST LF	Y	0.5	0	0	0	0	-	0
	SHWIMS	Y	0.25	0	0	0	-	-	0
	LUST	Y	0.5	0	0	0	0	-	0
	LAST	Y	0.5	0	0	0	0	-	0
	DELISTED LST	Y	0.5	0	0	0	0	-	0
	UST	Y	0.25	0	0	0	-	-	0
	AST	Y	0.25	0	0	0	-	-	0
	DEL STORAGE TANK	Y	0.25	0	0	0	-	-	0
	CRS	Y	0.5	0	0	0	0	-	0
	AUL	Y	0.5	0	0	0	0	-	0
	VCP	Y	0.5	0	0	0	0	-	0
	BEAP	Y	0.5	0	0	0	0	-	0
	BROWNFIELDS	Y	0.5	0	0	0	0	-	0
	BSA PROJECTS	Y	0.5	0	0	0	0	-	0
	BGP	Y	0.5	0	0	0	0	-	0
	ERP	Y	0.5	0	0	0	0	-	0
Tril	pal								
	INDIAN LUST	Y	0.5	0	0	0	0	-	0
	INDIAN UST	Y	0.25	0	0	0	-	-	0
	DELISTED INDIAN LST	Y	0.5	0	0	0	0	-	0
	DELISTED INDIAN UST	Y	0.25	0	0	0	-	-	0

County

No County databases were selected to be included in the search.

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
Additional Environmental Records								
Federal								
FINDS/FRS	Y	PO	0	-	-	-	-	0
TRIS	Y	PO	0	-	-	-	-	0
PFAS TRI	Y	0.5	0	0	0	0	-	0
ERNS PFAS	Y	0.5	0	0	0	0	-	0
PFAS FED SITES	Y	0.5	0	0	0	0	-	0
PFAS NPL	Y	0.5	0	0	0	0	-	0
PFAS NPDES	Y	0.5	0	0	0	0	-	0
PFAS SSEHRI	Y	0.5	0	0	0	0	-	0
PFAS WATER	Y	0.5	0	0	0	0	-	0
HMIRS	Y	0.125	0	0	-	-	-	0
NCDL	Y	0.125	0	0	-	-	-	0
TSCA	Y	0.125	0	0	-	-	-	0
HIST TSCA	Y	0.125	0	0	-	-	-	0
FTTS ADMIN	Y	PO	0	-	-	-	-	0
FTTS INSP	Y	PO	0	-	-	-	-	0
PRP	Y	PO	0	-	-	-	-	0
SCRD DRYCLEANER	Y	0.5	0	0	0	0	-	0
ICIS	Y	PO	0	-	-	-	-	0
FED DRYCLEANERS	Y	0.25	0	0	0	-	-	0
DELISTED FED DRY	Y	0.25	0	0	0	-	-	0
FUDS	Y	1	0	0	0	0	0	0
FORMER NIKE	Y	1	0	0	0	0	0	0
PIPELINE INCIDENT	Y	PO	0	-	-	-	-	0
MLTS	Y	PO	0	-	-	-	-	0
HIST MLTS	Y	PO	0	-	-	-	-	0
MINES	Y	0.25	0	0	0	-	-	0
SMCRA	Y	1	0	0	0	0	0	0
MRDS	Y	1	0	0	0	0	0	0
LM SITES	Y	1	0	0	0	0	0	0
ALT FUELS	Y	0.25	0	0	0	-	-	0
CONSENT DECREES	Y	0.25	0	0	0	-	-	0
AFS	Y	PO	0	-	-	-	-	0
SSTS	Y	0.25	0	0	0	-	-	0

Database		Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
PCBT		Y	0.5	0	0	0	0	-	0
PCB		Y	0.5	0	0	0	0	-	0
State									
TIER 2		Y	0.125	0	1	-	-	-	1
SPILLS		Y	0.125	0	0	-	-	-	0
AGSPILLS		Y	0.125	0	0	-	-	-	0
AG SPILL REMED		Y	0.25	0	0	0	-	-	0
BRRTS		Y	PO	0	-	-	-	-	0
DELISTED BRRT		Y	0.5	0	0	0	0	-	0
PFAS		Y	0.5	0	0	0	0	-	0
DRYC REM		Y	0.25	0	0	0	-	-	0
DRYCLEANERS		Y	0.25	0	0	0	-	-	0
DELISTED DRYC RE	М	Y	0.25	0	0	0	-	-	0
LIENS		Y	PO	0	-	-	-	-	0
Tribal		No Trik	bal additio	nal environ	mental rec	ord sources	s available	for this Stat	te.
County		Νο Cou	unty additi	ional enviro	nmental re	ecord sourc	es available	e for this St	ate.
	-	Total:		0	1	0	0	0	1

* PO – Property Only * 'Property and adjoining properties' database search radii are set at 0.25 miles.

Executive Summary: Site Report Summary - Project Property

Мар	DB	Company/Site Name	Address	Direction	Distance	Elev Diff	Page
Key					(mi/ft)	(ft)	Number

No records found in the selected databases for the project property.

Executive Summary: Site Report Summary - Surrounding Properties

Мар Кеу	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
<u>1</u>	TIER 2	THALER OIL COMPANY, INC.	807 JANICKI ROAD STANLEY WI 54729	ENE	0.08 / 431.55	-31	<u>16</u>

Executive Summary: Summary by Data Source

Non Standard

<u>State</u>

TIER 2 - Tier 2 Report

A search of the TIER 2 database, dated Jan 19, 2023 has found that there are 1 TIER 2 site(s) within approximately 0.12 miles of the project property.

Lower Elevation	Address	Direction	<u>Distance (mi/ft)</u>	<u>Map Key</u>
THALER OIL COMPANY, INC.	807 JANICKI ROAD STANLEY WI 54729	ENE	0.08 / 431.55	<u>1</u>



Source: © 2021 ESRI StreetMap Premium







90°58'W

90°57'30"W



Aerial Year: 2020

Address: 80th Ave, Stanley, WI

Source: ESRI World Imagery

Order Number: 23031400190





Topographic Map

Year: 2018

Address: 80th Ave, WI

Quadrangle(s): Stanley, WI; Boyd, WI

Order Number: 23031400190



© ERIS Information Inc.

Detail Report

Map Key N F	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site		DB
<u>1</u> 10	of 1	ENE	0.08 / 431.55	1,101.63 / -31	THALER OIL 807 JANICK STANLEY W	- COMPANY, INC. I ROAD 1/ 54729	TIER 2
Facility ID: Facility Status: Facility Type: NAICS: Company Name No of EHS More	2003(ACTI) Facili 4247 e: - e Than TPQ:	09 VE ty 10 0		Country: No of Che No of EH Avg Daily	emicals: S Chemicals: • Amt Unit:	US 1 0 Ibs	
Tier 2 Facilities	<u>Details</u>						
CAS No: No of Days Onsi Max Daily Amou Is Pure: Is EHS: Is Solid State: Is Solid State: Is Liquid State: Is Reactive Haz: Is Immediate Ha Is Delayed Haza Combustible Du EHS Name: Chemical Name. Sudden Release Corrosive to Me Gas Under Pres. Emission of Gas Is Pyrophoric Li Is Germ Cell Mu Is Reproductive Respiratory Skii Serious Eye Dar Is Simple Asphy Skin Corrosion of	74986 ite: 365 unt: 20352 Yes No No No Yes : Yes az: No rd: No st: No solut: No st: No e Pressure Haz etal: isure: s with Water: iquid or Solid: itagenicity: or Sensitize: mage Irritation: yxiant: or Irritation:	3 20 20 PROPANE Yes No Yes No No No No No No No No No No No No No		Is Explos Is Flamm Is Physic Organic H Is Oxidize Is Pyroph Is Self He Is Self Re Is Acute Is Aspirat Is Carcin Is Health	ive: able: al HNOC: eroxide: er: oric Gas: ating: active: Foxicity: ion Haz: ogenic: HNOC:	No Yes No No No No No No No No	

Unplottable Summary

Total: 2 Unplottable sites

DB	Company Name/Site Name	Address	City	Zip	ERIS ID
SHWIMS	BUZZS BODY SHOP	RT 2 W MAPLE	STANLEY WI	54768	867389552
UST	Gene Gustafson	W Maple St	Stanley WI	54768	866805479
		Tank ID Tank Status Install Date: 3245	9 Abandoned without Prod	luct	

Unplottable Report

Expiration Date:

Fire Department Nm:

Federally Regulated:

Dispen Sump Install:

Leak Detection:

Spill Protection:

Date of Lining:

UST Manifolded:

Flex Connector:

Leak Detection:

Leak Test Method:

Latest Test Name:

Latest Test Date:

Corrosion Protection:

Latest Test Expire Dt:

Overfill Protection:

Overfill Protect Type:

Corrosion Protect Ty:

Lining Inspect Date:

Marketer:

Leak Test Method: Contain Sump Install:

Municipality Name:

Property County:

BUZZS BODY SHOP Site: RT 2 W MAPLE STANLEY WI 54768

FID: 609023030 County: OPERATING Status: Region: Activity Type: HW Generator Activities

Gene Gustafson Site: W Maple St Stanlev WI 54768

License No: Facility Ref No: Fire Department ID: License Type: License: Licensee:

457883 81373 81373 0909 Registration Storage Tank Registration GENE GUSTAFSON

Tank Details

Tank ID: Tank Reference No: Equipment Wang ID: CAS No: Tank Status: Tank Type: Tank Contents: Tank Occupancy: Install Date: Capacity: Construction Material: Wall Size:

32459 265552|090900050 090900050

Abandoned without Product Underground Storage Tank Leaded Gasoline Residential

500.00 **Coated Steel** Single

Pipe Details

Related Tank ID: 118830 Abandoned without Product Status: Type: Piping (Storage Tank) System Type: Wall Type: Single Construction Material: Unknown Catastrop Leak Detn: Aboveground Piping: No **Underground Piping:** Yes

MyDATCP Storage Tank Search - Tank Details

Tank ID:	32459	Corrosion Protect Ty:	
Wang ID:	090900050	Overfill Protect Type:	Not Installed
CAS No:		Construction Material:	Coated Steel
Tank Status:	Abandoned without Product as of 1975-01-01	Capacity in Gallons:	500
Install Date:		Marketer:	No
Tank Type:	Underground Storage Tank	Spill Protection:	Not Installed
Tank Occupancy:	Residential	Date of Lining:	
Wall Type:	Single	Contents:	Leaded Gasc
Federally Regulated:	No	Overfill Protection:	Not Installed
Leak Detection:		Lining Inspect Date:	
Leak Test Method:		Underground Piping:	Yes

erisinfo.com | Environmental Risk Information Services

Sasoline lled

UST

SHWIMS

CHIPPEWA

Stanley

No

No

No

No

No

No

Unknown

Not Installed

Not Installed

Not Installed

City of Stanley

Chippewa County

WEST CENTRAL

Order No: 23031400190

MyDATCP Storage Tank Search - Owner Details

Site Anniversary Date:	
Owner Name:	Gene Gustafson
Owner Address1:	W Maple St
Owner Address2:	
Owner City:	Stanley
Owner State:	WI
Owner Zip:	54768

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ERIS updates databases as set out in ASTM Standard E1527-13 and E1527-21, Section 8.1.8 Sources of Standard Source Information:

"Government information from nongovernmental sources may be considered current if the source updates the information at least every 90 days, or, for information that is updated less frequently than quarterly by the government agency, within 90 days of the date the government agency makes the information available to the public."

Standard Environmental Record Sources

Federal

Formerly Utilized Sites Remedial Action Program:

The U.S. Department of Energy (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 protectiveness.

Government Publication Date: Mar 4, 2017

National Priority List:

Sites on the United States Environmental Protection Agency (EPA)'s National Priorities List of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. The NPL, which EPA is required to update at least once a year, is based primarily on the score a site receives from EPA's Hazard Ranking System. A site must be on the NPL to receive money from the Superfund Trust Fund for remedial action. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: Nov 3, 2022

National Priority List - Proposed:

Sites proposed by the United States Environmental Protection Agency (EPA), the state agency, or concerned citizens for addition to the National Priorities List (NPL) due to contamination by hazardous waste and identified by the EPA as a candidate for cleanup because it poses a risk to human health and/or the environment. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point. *Government Publication Date: Nov 3, 2022*

Deleted NPL:

Sites deleted from the United States Environmental Protection Agency (EPA)'s National Priorities List. The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point. *Government Publication Date: Nov 3, 2022*

DOE FUSRAP

NPI

PROPOSED NPL

DELETED NPL

erisinfo.com | Environmental Risk Information Services

SEMS List 8R Active Site Inventory:

The U.S. Environmental Protection Agency's (EPA) Superfund Program has deployed the Superfund Enterprise Management System (SEMS), which integrates multiple legacy systems into a comprehensive tracking and reporting tool. This inventory contains active sites evaluated by the Superfund program that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The Active Site Inventory Report displays site and location information at active SEMS sites. An active site is one at which site assessment, removal, remedial, enforcement, cost recovery, or oversight activities are being planned or conducted. This data includes SEMS sites from the List 8R Active file as well as applicable sites from the SEMS GIS/REST file layer obtained from EPA's Facility Registry Service. Government Publication Date: Jan 25, 2023

SEMS List 8R Archive Sites:

The U.S. Environmental Protection Agency's (EPA) Superfund Enterprise Management System (SEMS) Archived Site Inventory displays site and location information at sites archived from SEMS. An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. This data includes sites from the List 8R Archived site file. Government Publication Date: Jan 25, 2023

Inventory of Open Dumps, June 1985:

The Resource Conservation and Recovery Act (RCRA) provides for publication of an inventory of open dumps. The Act defines "open dumps" as facilities which do not comply with EPA's "Criteria for Classification of Solid Waste Disposal Facilities and Practices" (40 CFR 257). Government Publication Date: Jun 1985

Comprehensive Environmental Response, Compensation and Liability Information System -CERCLIS:

Superfund is a program administered by the United States Environmental Protection Agency (EPA) to locate, investigate, and clean up the worst hazardous waste sites throughout the United States. CERCLIS is a database of potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The EPA administers the Superfund program in cooperation with individual states and tribal governments; this database is made available by the EPA.

Government Publication Date: Oct 25, 2013

EPA Report on the Status of Open Dumps on Indian Lands:

Public Law 103-399, The Indian Lands Open Dump Cleanup Act of 1994, enacted October 22, 1994, identified congressional concerns that solid waste open dump sites located on American Indian or Alaska Native (AI/AN) lands threaten the health and safety of residents of those lands and contiguous areas. The purpose of the Act is to identify the location of open dumps on Indian lands, assess the relative health and environment hazards posed by those sites, and provide financial and technical assistance to Indian tribal governments to close such dumps in compliance with Federal standards and regulations or standards promulgated by Indian Tribal governments or Alaska Native entities. Government Publication Date: Dec 31, 1998

CERCLIS - No Further Remedial Action Planned:

An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. The Archive designation means that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL). This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Government Publication Date: Oct 25, 2013

CERCLIS Liens:

A Federal Superfund lien exists at any property where EPA has incurred Superfund costs to address contamination ("Superfund site") and has provided notice of liability to the property owner. A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. This database is made available by the United States Environmental Protection Agency (EPA). This database was provided by the United States Environmental Protection Agency (EPA). Refer to SEMS LIEN as the current data source for Superfund Liens. Government Publication Date: Jan 30, 2014

RCRA CORRACTS-Corrective Action:

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. At these sites, the Corrective Action Program ensures that cleanups occur. EPA and state regulators work with facilities and communities to design remedies based on the contamination, geology, and anticipated use unique to each site.

Government Publication Date: Jan 23, 2023

SEMS

SEMS ARCHIVE

CERCLIS NFRAP

RCRA CORRACTS

CERCLIS LIENS

Order No: 23031400190

21

CERCLIS

IODI

RCRA non-CORRACTS TSD Facilities:

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. This database includes Non-Corrective Action sites listed as treatment, storage and/or disposal facilities of hazardous waste as defined by RCRA. Government Publication Date: Jan 23, 2023

RCRA Generator List:

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Large Quantity Generators (LQGs) generate 1,000 kilograms per month or more of hazardous waste or more than one kilogram per month of acutely hazardous waste. Government Publication Date: Jan 23, 2023

RCRA Small Quantity Generators List:

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Small Quantity Generators (SQGs) generate more than 100 kilograms, but less than 1,000 kilograms, of hazardous waste per month. Government Publication Date: Jan 23, 2023

RCRA Very Small Quantity Generators List:

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Very Small Quantity Generators (VSQG) generate 100 kilograms or less per month of hazardous waste, or one kilogram or less per month of acutely hazardous waste. Additionally, VSQG may not accumulate more than 1,000 kilograms of hazardous waste at any time.

Government Publication Date: Jan 23, 2023

RCRA Non-Generators:

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Non-Generators do not presently generate hazardous waste.

Government Publication Date: Jan 23, 2023

RCRA Sites with Controls:

List of Resource Conservation and Recovery Act (RCRA) facilities with institutional controls in place. RCRA gives the U.S. Environmental Protection Agency (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. Government Publication Date: Jan 23, 2023

Federal Engineering Controls-ECs:

This list of Engineering controls (ECs) is provided by the United States Environmental Protection Agency (EPA). ECs encompass a variety of engineered and constructed physical barriers (e.g., soil capping, sub-surface venting systems, mitigation barriers, fences) to contain and/or prevent exposure to contamination on a property. The EC listing includes remedy component data from Superfund decision documents issued in fiscal years 1982-2020 for applicable sites on the final or deleted on the National Priorities List (NPL); and sites with a Superfund Alternative Approach (SAA) Agreement in place. The only sites included that are not on the NPL; proposed for NPL; or removed from proposed NPL, are those with an SAA Agreement in place.

Government Publication Date: Dec 22, 2022

RCRA TSD

RCRA VSQG

RCRA SQG

RCRA NON GEN

RCRA CONTROLS

FED ENG

erisinfo.com | Environmental Risk Information Services

Federal Institutional Controls- ICs:

This list of Institutional controls (ICs) is provided by the United States Environmental Protection Agency (EPA). ICs are non-engineered instruments, such as administrative and legal controls, that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy. Although it is EPA's expectation that treatment or engineering controls will be used to address principal threat wastes and that groundwater will be returned to its beneficial use whenever practicable. ICs play an important role in site remedies because they reduce exposure to contamination by limiting land or resource use and guide human behavior at a site. The IC listing includes remedy component data from Superfund decision documents issued in fiscal years 1982-2020 for applicable sites on the final or deleted on the National Priorities List (NPL); and sites with a Superfund Alternative Approach (SAA) Agreement in place. The only sites included that are not on the NPL; proposed for NPL; or removed from proposed NPL, are those with an SAA Agreement in place.

Government Publication Date: Dec 22, 2022

Land Use Control Information System:

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

Government Publication Date: Sep 1, 2006

Institutional Control Boundaries at NPL sites:

Boundaries of Institutional Control areas at sites on the United States Environmental Protection Agency (EPA)'s National Priorities List, or Proposed or Deleted, made available by the EPA's Shared Enterprise Geodata and Services (SEGS). United States Environmental Protection Agency (EPA)'s National Priorities List of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. Institutional controls are non-engineered instruments such as administrative and legal controls that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy.

Government Publication Date: Nov 3, 2022

Emergency Response Notification System:

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1982-1986

Emergency Response Notification System:

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1987-1989

Emergency Response Notification System:

Database of oil and hazardous substances spill reports made available by the United States Coast Guard National Response Center (NRC). The NRC fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. These data contain initial incident data that has not been validated or investigated by a federal/state response agency. Government Publication Date: Nov 6, 2022

The Assessment, Cleanup and Redevelopment Exchange System (ACRES) Brownfield Database:

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 protects the environment, reduces blight, and takes development pressures off greenspaces and working lands. This data is provided by the United States Environmental Protection Agency (EPA) and includes Brownfield sites from the Cleanups in My Community (CIMC) web application. Government Publication Date: Sep 13, 2022

FEMA Underground Storage Tank Listing:

The Federal Emergency Management Agency (FEMA) of the Department of Homeland Security maintains a list of FEMA owned underground storage tanks.

Government Publication Date: Dec 31, 2017

23

FED INST

LUCIS

NPL IC

ERNS 1987 TO 1989

ERNS 1982 TO 1986

FED BROWNFIELDS

FRNS

FEMA UST

Facility Response Plan:

List of facilities that have submitted Facility Response Plans (FRP) to EPA. Facilities that could reasonably be expected to cause "substantial harm" to the environment by discharging oil into or on navigable waters are required to prepare and submit Facility Response Plans (FRPs). Harm is determined based on total oil storage capacity, secondary containment and age of tanks, oil transfer activities, history of discharges, proximity to a public drinking water intake or sensitive environments.

Government Publication Date: Dec 31, 2021

Delisted Facility Response Plans:

Facilities that once appeared in - and have since been removed from - the list of facilities that have submitted Facility Response Plans (FRP) to EPA. Facilities that could reasonably be expected to cause "substantial harm" to the environment by discharging oil into or on navigable waters are required to prepare and submit Facility Response Plans (FRPs). Harm is determined based on total oil storage capacity, secondary containment and age of tanks, oil transfer activities, history of discharges, proximity to a public drinking water intake or sensitive environments. *Government Publication Date: Dec 31, 2021*

Historical Gas Stations:

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.

Government Publication Date: Jul 1, 1930

Petroleum Refineries:

List of petroleum refineries from the U.S. Energy Information Administration (EIA) Refinery Capacity Report. Includes operating and idle petroleum refineries (including new refineries under construction) and refineries shut down during the previous year located in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, Guam, and other U.S. possessions. Survey locations adjusted using public data. *Government Publication Date: Aug 30, 2022*

Petroleum Product and Crude Oil Rail Terminals:

List of petroleum product and crude oil rail terminals made available by the U.S. Energy Information Administration (EIA). Includes operable bulk petroleum product terminals located in the 50 States and the District of Columbia with a total bulk shell storage capacity of 50,000 barrels or more, and/or the ability to receive volumes from tanker, barge, or pipeline; also rail terminals handling the loading and unloading of crude oil that were active between 2017 and 2018. Petroleum product terminals comes from the EIA-815 Bulk Terminal and Blender Report, which includes working, shell in operation, and shell idle for several major product groupings. Survey locations adjusted using public data. *Government Publication Date: Jun 29, 2022*

LIEN on Property:

The U.S. Environmental Protection Agency's (EPA) Superfund Enterprise Management System (SEMS) provides Lien details on applicable properties, such as the Superfund lien on property activity, the lien property information, and the parties associated with the lien. *Government Publication Date: Jan 25, 2023*

Superfund Decision Documents:

This database contains a list of decision documents for Superfund sites. Decision documents serve to provide the reasoning for the choice of (or) changes to a Superfund Site cleanup plan. The decision documents include completed Records of Decision (ROD), ROD Amendments, Explanations of Significant Differences (ESD) for active and archived sites stored in the Superfund Enterprise Management System (SEMS), along with other associated memos and files. This information is maintained and made available by the U.S. Environmental Protection Agency. *Government Publication Date: Dec 22, 2022*

<u>State</u>

Hazard Ranking List:

Last published in 1994, this is a list of sites which were investigated by the Department of Natural Resources (DNR) under the Wisconsin Environmental Repair Law. Hazard ranking of a site or facility was performed to determine if the site or facility presents a substantial danger to the public health, or welfare, or the environment. The DNR Bureau for Remediation and Redevelopment now maintains other programs for the investigation and cleanup of potential and confirmed contamination to soil and groundwater in Wisconsin. This database is state equivalent CERCLIS. *Government Publication Date: July 1994*

Licensed Solid Waste Landfills:

List of licensed solid waste landfills in the state of Wisconsin as recorded by the Department of Natural Resources (DNR). The DNR regulates landfills to prevent negative impacts to people and the environment. DNR staff inspect landfills regularly.

SWF/LF

SHWS

BULK TERMINAL

REFN

SEMS LIEN

SUPERFUND ROD

DELISTED FRP

HIST GAS STATIONS

FRP

Order No: 23031400190

erisinfo.com | Environmental Risk Information Services

incident, not a property. A site may be smaller than a property or may include more than one property.

A list of Leaking Underground Storage Tank (LUST) sites as recorded by the Wisconsin Department of Natural Resources (DNR). When petroleum products are released from underground tanks into the soil or groundwater, the DNR will work with the responsible party and environmental professionals to clean up the spill to state standards. This LUST site listing is sourced from the Bureau for Remediation and Redevelopment Tracking System (BRRTS) database and Open Data Portal applicable file/s provided by the DNR. Government Publication Date: Jan 5, 2023

Leaking Aboveground Storage Tanks:

List of Leaking Aboveground Storage Tank (LAST) sites as recorded by the Department of Natural Resources (DNR). When petroleum products are released from tanks into the soil or groundwater, the DNR will work with the responsible party and environmental professionals to clean up the spill to state standards.

Government Publication Date: Jan 5, 2023

Delisted Leaking Tanks:

This database contains a list of closed leaking tank sites that were removed from the leaking tank database regulated by the Storage Tank Regulation Section of the Wisconsin Department of Natural Resources.

Government Publication Date: Jan 5, 2023

Underground Storage Tanks:

List of Underground Storage Tank (UST) locations. The Bureau of Weights and Measures, operating under the Department of Agriculture, Trade and Consumer Protection is responsible for the administration and regulation of the Wisconsin Administrative Code ATCP 93 - Flammable and Combustible Liquids.

Government Publication Date: Feb 21, 2023

Aboveground Storage Tanks:

List of Aboveground Storage Tank (AST) locations. The Bureau of Weights and Measures, operating under the Department of Agriculture, Trade and Consumer Protection is responsible for the administration and regulation of the Wisconsin Administrative Code ATCP 93 - Flammable and Combustible Liquids.

Government Publication Date: Feb 21, 2023

Delisted Storage Tanks:

Closed Remediation Sites:

25

This database contains a list of closed storage tank sites that were removed from the storage tank database regulated by the Storage Tank Regulation Section of the Wisconsin Department of Agriculture, Trade, and Consumer Protection. Government Publication Date: Feb 21, 2023

media, but the DNR has determined, based on information available at the time, that no further remedial action is required. A "site" is a contamination

This list of closed environmental remediation sites is provided by the Wisconsin Department of Natural Resources (WI DNR). The listing includes Environmental Repair Program (ERP) and Leaking Underground Storage Tank (LUST) sites where contamination affected soil, groundwater or other

The Historic Registry of Waste Disposal Sites: Prior to development of on-line databases, the Wisconsin Department of Natural Resources (DNR) provided public information about old waste disposal facilities in a printed publication called the Historic Registry of Waste Disposal Sites (the "Registry").

Government Publication Date: Jul 22, 2013

Solid Waste - Landfills and Historic Waste Sites:

A list of active and inactive solid waste landfills and known historic waste sites available through the Wisconsin Department of Natural Resources' Open Data Portal. This list is based on the known or inferred limits of waste found in the 'Solid Waste - Landfills and Historic Waste Site Extents' dataset. Government Publication Date: Aug 11, 2022

Solid & Hazardous Waste Information Management System:

List of sites and facilities in the Solid and Hazardous Waste Information System (SHWIMS) regulated by the Wisconsin Department of Natural Resources (DNR) Waste and Materials Management (WMM) program. Activities that occur at site facilities include landfill operation, waste transportation, hazardous waste generation, wood burning, waste processing, sharps collection and many more. Government Publication Date: Jan 17, 2023

Leaking Underground Storage Tanks:

DEL STORAGE TANK

Order No: 23031400190

CRS

LUST

LAST

DELISTED LST

UST

AST

WDS

HIST I F

SHWIMS

Deed Restriction at Closeout Sites:

List of sites for which a deed restriction is recorded at the Register of Deeds office. Deed restrictions limit property use or outline requirements for actions prior to future use. Deed restrictions are applied in cases where there is known soil contamination that is impracticable to remove, or an engineering requirement or NR270 industrial standards are in place.

Government Publication Date: Jan 5, 2023

Voluntary Party Liability Exemption Sites:

List of sites which have participated in the Voluntary Party Liability Exemption (VPLE) program, an elective environmental cleanup program administered by the Wisconsin Department of Natural Resources (DNR), and received an exemption from future environmental liability. Any individual, business or unit of government that conducts an environmental investigation and cleanup of a contaminated property - following state requirements with the oversight of DNR staff - can receive an exemption from future environmental liability. With some restrictions, most properties that have had a discharge of a hazardous substance are eligible for VPLE.

Government Publication Date: Jan 5, 2023

Brownfields Environmental Assessment Program:

List of sites which participated in the Brownfields Environmental Assessment Program (BEAP) - a federal program that assisted municipalities with Environmental Site Assessments (ESAs) for tax delinquent or bankrupt properties, or properties a local government acquired for redevelopment. Site assessments to determine property contamination were conducted by the Department of Natural Resources staff. Government Publication Date: Jan 5. 2023

Brownfields Listing:

The Department of Natural Resource (DNR)'s Remediation and Redevelopment program has a wide range of financial and liability tools available to assist local governments, businesses, lenders and others to clean up and redevelop brownfields in Wisconsin. DNR describes brownfields as abandoned, idle or underused commercial or industrial properties, where the expansion or redevelopment is hindered by real or perceived contamination. Brownfield properties present public health, economic, environmental and social challenges to the rural and urban communities in which they are located.

Government Publication Date: Jan 5, 2023

Brownfield Site Assessment Grant Projects:

In 2012, the Brownfield Site Assessment Grant (SAG) program was transferred to the Wisconsin Economic Development Corporation (WEDC), this was previously a financial tool of the Wisconsin Department of Natural Resources (DNR). This grant program helps local governments conduct initial activities and investigations at properties with known or suspected environmental contamination. The awarded grant funds cannot be used for environmental cleanup activities. Applicants must meet the eligibility definition outlined in s.292.75(1)(a), Wisconsin Statutes: "'Eligible site or facility' means one or more contiguous industrial or commercial facilities or sites with common or multiple ownership that are abandoned, idle, or underused, the expansion or redevelopment of which is adversely affected by actual or perceived environmental contamination." This listing includes the current WDEC SAG projects, the final DNR Round 11 and 12 SAG DNR projects. The Round 12 SAG projects were tracked by the DNR, but not funded by the DNR since the SAG program was vetoed out of the budget.

Government Publication Date: Sep 30, 2015

Brownfields Grant Program Sites:

This list of Brownfield Grant Program sites is provided by the Wisconsin Economic Development Corporation. The Wisconsin Brownfield Program provides grant funds to assist local governments, businesses and individuals with assessing and remediating the environmental contamination of an abandoned, idle or underused industrial or commercial facility or site. This program will help convert contaminated sites into productive properties that are attractive and ready for redevelopment.

Government Publication Date: Jun 30, 2022

Environmental Repair:

Environmental Repair Program sites are those other than Leaking Underground Storage Tanks (LUSTs) that have contaminated soil and/or groundwater. Examples include industrial spills (or dumping) that need long term investigation, buried containers of hazardous substances, and closed landfills that have caused contamination. This ERP site listing is sourced from the Bureau for Remediation and Redevelopment Tracking System (BRRTS) database and Open Data Portal applicable file/s provided by the Wisconsin Department of Natural Resources (DNR). Government Publication Date: Jan 5, 2023

Tribal

BROWNFIELDS

ERP

BGP

AUL

VCP

BEAP

BSA PROJECTS

Leaking Underground Storage Tanks on Tribal/Indian Lands:

This list of leaking underground storage tanks (LUSTs) on Tribal/Indian Lands in Region 5, which includes Wisconsin, is made available by the United States Environmental Protection Agency (EPA). *Government Publication Date: Oct 14, 2022*

Government Publication Date: Oct 14, 2022

Underground Storage Tanks on Tribal/Indian Lands:

This list of underground storage tanks (USTs) on Tribal/Indian Lands in Region 5, which includes Wisconsin, is made available by the United States Environmental Protection Agency (EPA). *Government Publication Date: Oct 14, 2022*

Delisted Tribal Leaking Storage Tanks:

Leaking Underground Storage Tank (LUST) facilities which once appeared on - and have since been removed from - the Regional Tribal/Indian LUST lists made available by the United States Environmental Protection Agency (EPA). *Government Publication Date: Nov 23, 2022*

Delisted Tribal Underground Storage Tanks:

Underground Storage Tank (UST) facilities which once appeared on - and have since been removed from - the Regional Tribal/Indian UST lists made available by the United States Environmental Protection Agency (EPA). *Government Publication Date: Nov 23, 2022*

<u>County</u>

No County databases were selected to be included in the search.

Additional Environmental Record Sources

Federal

Facility Registry Service/Facility Index:

The Facility Registry Service (FRS) is a centrally managed database that identifies facilities, sites, or places subject to environmental regulations or of environmental interest. FRS creates high-quality, accurate, and authoritative facility identification records through rigorous verification and management procedures that incorporate information from program national systems, state master facility records, and data collected from EPA's Central Data Exchange registrations and data management personnel. This list is made available by the Environmental Protection Agency (US EPA). *Government Publication Date: Aug 18, 2022*

Toxics Release Inventory (TRI) Program:

The EPA's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of over 650 toxic chemicals from thousands of U. S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment. One of TRI's primary purposes is to inform communities about toxic chemical releases to the environment. *Government Publication Date: Aug 24, 2021*

Perfluorinated Alkyl Substances (PFAS) from Toxic Release Inventory:

List of Toxics Release Inventory (TRI) facilities at which the reported chemical is a Per- or polyfluorinated alkyl substance (PFAS) included in the Environmental Protection Agency (EPA)'s consolidated PFAS Master List of PFAS Substances. The EPA's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of over 650 toxic chemicals from thousands of U.S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment.

Government Publication Date: Aug 24, 2021

National Response Center PFAS Spills:

National Response Center (NRC) calls from 1990 to the most recent complete calendar year where there is indication of Aqueous Film Forming Foam (AFFF) usage. NRC calls may reference AFFF usage in the "Material Involved" or "Incident Description" fields. Data made available by the US Environmental Protection Agency (EPA). Disclaimer: dataset may include initial or misidentified incident data not yet validated or investigated by a federal/state response agency.

Government Publication Date: Feb 23, 2022

27

FINDS/FRS

PFAS TRI

TRIS

ERNS PFAS

Order No: 23031400190

DELISTED INDIAN LST

INDIAN LUST

INDIAN UST

DELISTED INDIAN UST

Federal Agency Locations with Known or Suspected PFAS Detections:

List of Federal agency locations with known or suspected detections of Per- and Polyfluoroalkyl Substances (PFAS), made available by the U.S. Environmental Protection Agency (EPA) in their PFAS Analytic Tools data. EPA outlines that these data are gathered from several federal entities, such as the Federal Superfund program, Department of Defense (DOD), National Aeronautics and Space Administration, Department of Transportation, and Department of Energy. Sites on this list do not necessarily reflect the source/s of contamination and detections do not indicate level of risk or human exposure at the site. Agricultural notifications in this data are limited to DOD sites only. At this time, the EPA is aware that this list is not comprehensive of all Federal agencies.

Government Publication Date: Jun 30, 2022

PFOA/PFOS Contaminated Sites:

List of National Priorities List (NPL) and related Superfund Alternative Agreement (SAA) sites where PFOA or PFOS contaminants have been found in water and/or soil. The site listing is provided by the Federal Environmental Protection Agency (EPA). *Government Publication Date: Oct 4, 2022*

PFAS NPDES Discharge Monitoring:

This list of National Pollutant Discharge Elimination System (NPDES) permitted facilities with required monitoring for Per- and Polyfluoroalkyl (PFAS) Substances is made available via the U.S. Environmental Protection Agency (EPA)'s PFAS Analytic Tools. Any point-source wastewater discharger to waters of the United States must have a NPDES permit, which defines a set of parameters for pollutants and monitoring to ensure that the discharge does not degrade water quality or impair human health. This list includes NPDES permitted facilities associated with permits that monitor for Per- and Polyfluoroalkyl Substances (PFAS), limited to the years 2007 - present. EPA further advises the following regarding these data: currently, fewer than half of states have required PFAS monitoring for at least one of their permittees, and fewer states have established PFAS effluent limits for permittees. For states that may have required monitoring, some reporting and data transfer issues may exist on a state-by-state basis. *Government Publication Date: Feb 19, 2023*

SSEHRI PFAS Contamination Sites:

This PFAS Contamination Site Tracker database is compiled by the Social Science Environmental Health Research Institute (SSEHRI) at Northeastern University. According to the SSEHRI, the database records qualitative and quantitative data from each known site of PFAS contamination, including timeline of discovery, sources, levels, health impacts, community response, and government response. The goal of this database is to compile information and support public understanding of the rapidly unfolding issue of PFAS contamination. All data presented was extracted from government websites, news articles, or publicly available documents, and this is cited in the tracker. Disclaimer: The source conveys this database undergoes regular updates as new information becomes available, some sites may be missing and/or contain information that is incorrect or outdated, as well as their information represents all contamination sites SSEHRI is aware of, not all possible contamination sites. This data is not intended to be used for legal purposes. Limited location details are available with this data. Access the following for the most current informations https://pfasproject.com/pfascontamination-site-tr acker/

Government Publication Date: Dec 12, 2019

Perfluorinated Alkyl Substances (PFAS) Water Quality:

The Water Quality Portal (WQP) is a cooperative service sponsored by the United States Geological Survey (USGS), the Environmental Protection Agency (EPA), and the National Water Quality Monitoring Council (NWQMC). This listing includes records from the Water Quality Portal where the characteristic (environmental measurement) is in the Environmental Protection Agency (EPA)'s consolidated PFAS Master List of PFAS Substances. *Government Publication Date: Jul 20, 2020*

Hazardous Materials Information Reporting System:

US DOT - Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA) Incidents Reports Database taken from Hazmat Intelligence Portal, U.S. Department of Transportation. *Government Publication Date: Sep 1, 2020*

National Clandestine Drug Labs:

The U.S. Department of Justice ("the Department"), Drug Enforcement Administration (DEA), provides this data 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.

Government Publication Date: Aug 30, 2022

Toxic Substances Control Act:

PFAS NPL

PFAS NPDES

PFAS SSEHRI

PFAS WATER

HMIRS

NCDL

TSCA

Order No: 23031400190

PFAS FED SITES

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The CDR enables EPA to collect and publish information on the manufacturing, processing, and use of commercial chemical substances and mixtures (referred to hereafter as chemical substances) on the TSCA Chemical Substance Inventory (TSCA Inventory). This includes current information on chemical substance production volumes, manufacturing sites, and how the chemical substances are used. This information helps the Agency determine whether people or the environment are potentially exposed to reported chemical substances. EPA publishes submitted CDR data that is not Confidential Business Information (CBI).

Government Publication Date: Apr 11, 2019

Hist TSCA:

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The 2006 IUR data summary report includes information about chemicals manufactured or imported in quantities of 25,000 pounds or more at a single site during calendar year 2005. In addition to the basic manufacturing information collected in previous reporting cycles, the 2006 cycle is the first time EPA collected information to characterize exposure during manufacturing, processing and use of organic chemicals. The 2006 cycle also is the first time manufacturers of inorganic chemicals were required to report basic manufacturing information. Government Publication Date: Dec 31, 2006

FTTS Administrative Case Listing:

An administrative case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

FTTS Inspection Case Listing:

An inspection case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

Potentially Responsible Parties List:

Early in the site cleanup process, the U.S. Environmental Protection Agency (EPA) conducts a search to find the Potentially Responsible Parties (PRPs). The EPA looks for evidence to determine liability by matching wastes found at the site with parties that may have contributed wastes to the site. This listing contains PRPs, Noticed Parties, at sites in the EPA's Superfund Enterprise Management System (SEMS). Government Publication Date: Jan 25, 2023

State Coalition for Remediation of Drycleaners Listing:

The State Coalition for Remediation of Drycleaners (SCRD) was established in 1998, with support from the U.S. Environmental Protection Agency (EPA) Office of Superfund Remediation and Technology Innovation. Coalition members are states with mandated programs and funding for drycleaner site remediation. Current members are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin. Since 2017, the SCRD no longer maintains this data, refer to applicable state source data where available. Government Publication Date: Nov 08, 2017

Integrated Compliance Information System (ICIS):

The U.S. Environmental Protection Agency's Enforcement and Compliance History Online system incorporates data from the Integrated Compliance Information System - National Pollutant Discharge Elimination System (ICIS-NPDES). ICIS-NPDES is an information management system maintained by the Office of Compliance to track permit compliance and enforcement status of facilities regulated by the NPDES under the Clean Water Act. This data includes permit, inspection, violation and enforcement action information for applicable ICIS records. Government Publication Date: Oct 15, 2022

Drycleaner Facilities:

29

A list of drycleaner facilities from Enforcement and Compliance History Online (ECHO) online search. The Environmental Protection Agency (EPA) tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments. Government Publication Date: Jun 25, 2022

Delisted Drycleaner Facilities:

List of sites removed from the list of Drycleaner Facilities (sites in the EPA's Integrated Compliance Information System (ICIS) with NAIC or SIC codes identifying the business as a drycleaner establishment). Government Publication Date: Jun 25, 2022

FTTS ADMIN

HIST TSCA

FTTS INSP

PRP

ICIS

SCRD DRYCLEANER

FED DRYCLEANERS

DELISTED FED DRY

erisinfo.com | Environmental Risk Information Services

Formerly Used Defense Sites:

Formerly Used Defense Sites (FUDS) are properties that were formerly owned by, leased to, or otherwise possessed by and under the jurisdiction of the Secretary of Defense prior to October 1986, where the Department of Defense (DOD) is responsible for an environmental restoration. The FUDS Annual Report to Congress (ARC) is published by the U.S. Army Corps of Engineers (USACE). This data is compiled from the USACE's Geospatial FUDS data layers and Homeland Infrastructure Foundation-Level Data (HIFLD) FUDS dataset.

Government Publication Date: Jul 12, 2022

Former Military Nike Missile Sites:

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. *Government Publication Date: Dec 2, 1984*

PHMSA Pipeline Safety Flagged Incidents:

A list of flagged pipeline incidents made available by the U.S. Department of Transportation (US DOT) Pipeline and Hazardous Materials Safety Administration (PHMSA). PHMSA regulations require incident and accident reports for five different pipeline system types. *Government Publication Date: Mar 31, 2021*

Material Licensing Tracking System (MLTS):

A list of sites that store radioactive material subject to the Nuclear Regulatory Commission (NRC) licensing requirements. This list is maintained by the NRC. As of September 2016, the NRC no longer releases location information for sites. Site locations were last received in July 2016. *Government Publication Date: May 11, 2021*

Historic Material Licensing Tracking System (MLTS) sites:

A historic list of sites that have inactive licenses and/or removed from the Material Licensing Tracking System (MLTS). In some cases, a site is removed from the MLTS when the state becomes an "Agreement State". An Agreement State is a State that has signed an agreement with the Nuclear Regulatory Commission (NRC) authorizing the State to regulate certain uses of radioactive materials within the State. *Government Publication Date: Jan 31, 2010*

Mines Master Index File:

The Master Index File (MIF) is provided by the United State Department of Labor, Mine Safety and Health Administration (MSHA). This file, which was originally created in the 1970's, contained many Mine-IDs that were invalid. MSHA removes invalid IDs from the MIF upon discovery. MSHA applicable data includes the following: all Coal and Metal/Non-Metal mines under MSHA's jurisdiction since 1/1/1970; mine addresses for all mines in the database except for Abandoned mines prior to 1998 from MSHA's legacy system (addresses may or may not correspond with the physical location of the mine itself); violations that have been assessed penalties as a result of MSHA inspections beginning on 1/1/2000; and violations issued as a result of MSHA inspections conducted beginning on 1/1/2000.

Government Publication Date: Aug 3, 2022

Surface Mining Control and Reclamation Act Sites:

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by the Office of Surface Mining Reclamation and Enforcement (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 Abandoned Mine Land (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.

Government Publication Date: Aug 18, 2022

Mineral Resource Data System:

The Mineral Resource Data System (MRDS) 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. The USGS has ceased systematic updates of the MRDS database with their focus more recently on deposits of critical minerals while providing a well-documented baseline of historical mine locations from USGS topographic maps.

PIPELINE INCIDENT

HIST MLTS

MLTS

MINES

SMCRA

MRDS

Order No: 23031400190

FUDS

FORMER NIKE
DOE Legacy Management Sites:

The U.S. Department of Energy (DOE) Office of Legacy Management (LM) currently manages radioactive and chemical waste, environmental contamination, and hazardous material at over 100 sites across the U.S. The LM manages sites with diverse regulatory drivers (statutes or programs that direct cleanup and management requirements at DOE sites) or as part of internal DOE or congressionally-recognized programs, such as but not limited to: Formerly Utilized Sites Remedial Action Program (FUSRAP), Uranium Mill Tailings Radiation Control Act (UMTRCA Title I, Tile II), Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Resource Conservation and Recovery Act (RCRA), Decontamination and Decommissioning (D&D), Nuclear Waste Policy Act (NWPA). This site listing includes data exported from the DOE Office of LM' s Geospatial Environmental Mapping System (GEMS). GEMS Data disclaimer: The DOE Office of LM makes no representation or warranty, expressed or implied, regarding the use, accuracy, availability, or completeness of the data presented herein. Government Publication Date: Dec 1, 2022

Alternative Fueling Stations:

This list of alternative fueling stations is sourced from the Alternative Fuels Data Center (AFDC). The U.S. Department of Energy's Office of Energy Efficiency & Renewable Energy launched the AFDC in 1991 as a repository for alternative fuel vehicle performance data, which provides a wealth of information and data on alternative and renewable fuels, advanced vehicles, fuel-saving strategies, and emerging transportation technologies. The data includes Biodiesel (B20 and above), Compressed Natural Gas (CNG), Electric, Ethanol (E85), Hydrogen, Liquefied Natural Gas (LNG), Propane (LPG) fuel type locations.

Government Publication Date: Jan 3, 2023

Superfunds Consent Decrees:

This list of Superfund consent decrees is provided by the Department of Justice, Environment & Natural Resources Division (ENRD) through a Freedom of Information Act (FOIA) applicable file. This listing includes Consent Decrees for CERCLA or Superfund Sites filed and/or as proposed within the ENRD's Case Management System (CMS) since 2010. CMS may not reflect the latest developments in a case nor can the agency guarantee the accuracy of the data. ENRD Disclaimer: Congress excluded three discrete categories of law enforcement and national security records from the requirements of the FOIA; response is limited to those records that are subject to the requirements of the FOIA; however, this should not be taken as an indication that excluded records do, or do not, exist.

Government Publication Date: Jan 11, 2023

Air Facility System:

This EPA retired Air Facility System (AFS) dataset contains emissions, compliance, and enforcement data on stationary sources of air pollution. Regulated sources cover a wide spectrum; from large industrial facilities to relatively small operations such as dry cleaners. AFS does not contain data on facilities that are solely asbestos demolition and/or renovation contractors, or landfills. ECHO Clean Air Act data from AFS are frozen and reflect data as of October 17, 2014; the EPA retired this system for Clean Air Act stationary sources and transitioned to ICIS-Air. Government Publication Date: Oct 17, 2014

Registered Pesticide Establishments:

List of active EPA-registered foreign and domestic pesticide-producing and device-producing establishments based on data from the Section Seven Tracking System (SSTS). The Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Section 7 requires that facilities producing pesticides, active ingredients, or devices be registered. The list of establishments is made available by the EPA. Government Publication Date: Mar 30, 2022

Polychlorinated Biphenyl (PCB) Transformers:

Locations of Transformers Containing Polychlorinated Biphenyls (PCBs) registered with the United States Environmental Protection Agency. PCB transformer owners must register their transformer(s) with EPA. Although not required, PCB transformer owners who have removed and properly disposed of a registered PCB transformer may notify EPA to have their PCB transformer de-registered. Data made available by EPA. Government Publication Date: Oct 15, 2019

Polychlorinated Biphenyl (PCB) Notifiers:

Facilities included in the national list of facilities that have notified the United States Environmental Protection Agency (EPA) of Polychlorinated Biphenyl (PCB) activities. Any company or person storing, transporting or disposing of PCBs or conducting PCB research and development must notify the EPA and receive an identification number.

Government Publication Date: Nov 3, 2022

State

31

LM SITES

ALT FUELS

CONSENT DECREES

SSTS

AFS

PCBT

PCB

Tier 2 Report:

A list of Tier 2 facilities in Wisconsin. This list is provided by the Wisconsin Emergency Management/ State Emergency Response Commission. Government Publication Date: Jan 19, 2023

Spills:

A list of spill events reported to the Wisconsin Department of Natural Resources (DNR). The DNR describes a spill as a discharge of a hazardous substance that may adversely impact, or threaten to impact public health, welfare or the environment. This spills listing is sourced from the Bureau for Remediation and Redevelopment Tracking System (BRRTS) database and Open Data Portal applicable file/s provided by the DNR. Government Publication Date: Jan 5, 2023

Wisconsin Agricultural Spills Boundaries:

Boundaries of agricultural spill sites reported to the Wisconsin Department of Agriculture, Trade and Consumer Protection. The Agricultural Chemical Cleanup Program (ACCP) is in place to identify and manage pesticide and fertilizer spills to prevent these products from reaching the groundwater. Once a site has been identified as requiring remediation, the ACCP provides reimbursement for eligible costs incurred by the responsible person. Government Publication Date: Dec 2, 2022

Wisconsin Agricultural Spills - Remediation Locations:

List of agricultural spill site remediation locations made available by the Wisconsin Department of Agriculture. Trade and Consumer Protection. The Agricultural Chemical Cleanup Program (ACCP) is in place to identify and manage pesticide and fertilizer spills to prevent these products from reaching the groundwater. Once a site has been identified as requiring remediation, the ACCP provides reimbursement for eligible costs incurred by the responsible person.

Government Publication Date: Dec 2, 2022

Wisconsin Bureau for Remediation and Redevelopment Tracking System:

The Wisconsin Bureau for Remediation and Redevelopment Tracking System (BRRTS) contains information on the investigation and cleanup of potential and confirmed contamination to soil and groundwater in Wisconsin. This database includes: sites where an abandoned container with potentially hazardous contents has been inspected and recovered, and no known discharge to the environment has occurred; sites where there was, or may have been, a discharge to the environment and, based on the known information, the Department of Natural Resources (DNR) has determined that the responsible party does not need to undertake an investigation or cleanup in response to that discharge; materials management sites that receive contaminated soil from other properties; and sites which have been removed from the tracking system and archived. Government Publication Date: Jan 5, 2023

Delisted BRRT:

The Wisconsin Bureau for Remediation and Redevelopment Tracking System (BRRTS) maintained by the Wisconsin Department of Natural Resources contains information on the investigation and cleanup of potential and confirmed contamination to soil and groundwater in Wisconsin. Sites and site details are removed from the data made available to the public when the source of contamination is unclear and an investigation to determine the source of contamination is in progress.

Government Publication Date: Oct 27, 2015

Per- and Polyfluoroalkyl Substances (PFAS):

List of sites at which the Wisconsin Department of Natural Resources (DNR) has determined further action is required due to confirmed per- and polyfluoroalkyl (PFAS) contamination. DNR advises that the information as presented may be incomplete and is subject to change as new information becomes available.

Government Publication Date: Jan 5, 2023

Dry Cleaner Environmental Response Fund:

A list of facilities enrolled in the Dry Cleaner Environmental Response Fund (DERF) or have a reported historical use as a dry cleaning facility. This is only a listing of known remediation sites with a cleanup of contamination that may be related to dry cleaning substances. The Remediation & Redevelopment Program does not regulate or license Dry Cleaning Facilities The "status" provided in this list is only in regards to the cleanup and not the operations of the facility.

Government Publication Date: Jan 25, 2023

Five Star Recognition Program Sites:

The purpose of Wisconsin's Five Star Environmental Recognition Program for Drycleaners was to encourage drycleaners to become more environmentally-friendly. The program was divided into five different star categories, with the ultimate goal being to achieve the Five Star status. The program was sponsored by the Wisconsin Fabricare Institute (WFI), in cooperation with the Department of Natural Resources, the Department of Commerce, the University of Wisconsin Extension-Solid and Hazardous Waste Education Center and the Center for Neighborhood Technology. WFI discontinued the program on Jan 1, 2013

Government Publication Date: Jan 1, 2013

32

SPILLS

AGSPILLS

BRRTS

AG SPILL REMED

DELISTED BRRT

PFAS

DRYC REM

DRYCLEANERS

Order No: 23031400190

Delisted Dry Cleaner Environmental Response Fund:

Sites which once appeared on - but have since been removed from - the list of sites in the Dry Cleaner Environmental Response Fund Program made available by the Wisconsin Department of Natural Resources (DNR). The Dry Cleaner Environmental Response Fund Program reimburses dry cleaners for the investigation and clean up of the release of chemicals used in dry cleaning. *Government Publication Date: Jan 25, 2023*

Liens and Notices of Contamination:

A list of sites with liens and notices of contamination. This list is made available by the Wisconsin Department of Natural Resources (DNR). Government Publication Date: Feb 22, 2023

<u>Tribal</u>

No Tribal additional environmental record sources available for this State. <u>County</u>

No County additional environmental record sources available for this State.

DELISTED DRYC REM

LIENS

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report. This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

<u>Map Key:</u> The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

<u>Unplottables</u>: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

Appendix B

Physical Setting Report



Property Information

Order Number:		23031400190p
Date Completed:		March 14, 2023
Project Number:		CCEDC 22001
Project Property:		City of Stanley Industrial Park Development Project
Coordinates:	Latitude: Longitude: UTM Northing: UTM Easting: UTM Zone: Elevation: Slope Direction:	80th Ave Stanley WI 54768 44.95539953 -90.96929268 4980001.85792 Meters 660175.022525 Meters UTM Zone 15T 1,132.90 ft ESE

Topographic Information	2
Hydrologic Information	
Geologic Information	15
Soil Information	17
Wells and Additional Sources	
Summary	
Detail Report	42
Radon Information	121
Appendix	
Liability Notice	

The ERIS *Physical Setting Report - PSR* provides comprehensive information about the physical setting around a site and includes a complete overview of topography and surface topology, in addition to hydrologic, geologic and soil characteristics. The location and detailed attributes of oil and gas wells, water wells, public water systems and radon are also included for review.

The compilation of both physical characteristics of a site and additional attribute data is useful in assessing the impact of migration of contaminants and subsequent impact on soils and groundwater.

Disclaimer

This Report does not provide a full environmental evaluation for the site or adjacent properties. Please see the terms and disclaimer at the end of the Report for greater detail.



Quadrangle(s): Bellinger,WI; Boyd,WI; Colburn,WI; Huron,WI; Stanley,WI: Thorp,WI





Quadrangle(s): Stanley,WI

E R I S 📚





The previous topographic map(s) are created by seamlessly merging and cutting current USGS topographic data. Below are shaded relief map(s), derived from USGS elevation data to show surrounding topography in further detail.

Topographic information at project property:

Elevation: Slope Direction: 1,132.90 ft

ESE









10



Hydrologic Information



Hydrologic Information



Hydrologic Information

The Wetland Type map shows wetland existence overlaid on an aerial imagery. The Flood Hazard Zones map shows FEMA flood hazard zones overlaid on an aerial imagery. Relevant FIRM panels and detailed zone information is provided below. For detailed Zone descriptions please click the link: <u>https://floodadvocate.com/fema-zone-definitions</u>

Available FIRM Panels in area:	55017C0655E(effective:2010-03-02) 55019C0175D(effective:2010-07-06)
Flood Zone A-01 Zone: Zone subtype:	A
Flood Zone X-12 Zone: Zone subtype:	X AREA OF MINIMAL FLOOD HAZARD

Geologic Information



Geologic Information

The previous page shows USGS geology information. Detailed information about each unit is provided below.

Geologic Unit Cu

Unit Name: Unit Age: Primary Rock Type: Secondary Rock Type: Unit Description: Cambrian, undivided Cambrian sandstone dolostone (dolomite) Cambrian, undivided - Sandstone with some dolomite and shale, undivided; includes Trempealeau, Tunnel City, and Elk Mound Formations



The previous page shows a soil map using SSURGO data from USDA Natural Resources Conservation Service. Detailed information about each unit is provided below.

Map Unit AgB (0.18%)	
Map Unit Name:	Almena silt loam, 1 to 6 percent slopes
Bedrock Depth - Min:	
Watertable Depth - Annual Min:	15cm
Drainage Class - Dominant:	Somewhat poorly drained
Hydrologic Group - Dominant:	B/D - These soils have moderately low runoff potential when drained and high runoff potential when undrained.
Major components are printed below	
Almena(100%)	
horizon Ap(0cm to 23cm)	Silt loam
horizon E,E/B,B/E(23cm to 61cm)	Silt loam
horizon Bt1,Bt2(61cm to 107cm)	Silt loam
horizon Bt3(107cm to 122cm)	Silt loam
horizon 2C(122cm to 152cm)	Gravelly sandy loam
Component Description:	

Minor map unit components are excluded from this report.

Map Unit: AgB - Almena silt loam, 0 to 3 percent slopes

Component: Almena (84%)

The Almena component makes up 84 percent of the map unit. Slopes are 0 to 3 percent. This component is on ground moraines on till plains. The parent material consists of loess and/or silty alluvium over dense loamy till. Depth to a root restrictive layer, densic material, is 59 to 79 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 6 inches during April. Organic matter content in the surface horizon is about 8 percent. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria.

Component: Magnor (5%) Generated brief soil descriptions are created for major soil components. The Magnor soil is a minor component.

Component: Auburndale (5%) Generated brief soil descriptions are created for major soil components. The Auburndale soil is a minor component.

Component: Spencer (3%) Generated brief soil descriptions are created for major soil components. The Spencer soil is a minor component.

Component: Freeon (3%) Generated brief soil descriptions are created for major soil components. The Freeon soil is a minor component.

Map Unit AnB (2.0%)	
Map Unit Name:	Antigo silt loam, 1 to 6 percent slopes
Bedrock Depth - Min:	
Watertable Depth - Annual Min:	
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	B - Soils in this group have moderately low runoff potential when thoroughly wet. Water transmission through the soil is unimpeded.
Major components are printed below	
Antigo(100%)	

horizon Ap(0cm to 25cm) horizon E,E/B,B/E,Bt(25cm to 71cm) horizon 2Bt3(71cm to 81cm) horizon 2C(81cm to 152cm) Silt loam Silt loam Sandy loam Coarse sand

Component Description:

Minor map unit components are excluded from this report.

Map Unit: AnB - Antigo silt loam, 2 to 6 percent slopes

Component: Antigo (80%)

The Antigo component makes up 80 percent of the map unit. Slopes are 2 to 6 percent. This component is on hillslopes on outwash plains. The parent material consists of loess and/or silty glaciofluvial deposits over loamy glaciofluvial deposits over stratified sandy and gravelly outwash. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

Component: Sconsin (5%) Generated brief soil descriptions are created for major soil components. The Sconsin soil is a minor component.

Component: Billyboy (5%) Generated brief soil descriptions are created for major soil components. The Billyboy soil is a minor component.

Component: Rosholt (5%) Generated brief soil descriptions are created for major soil components. The Rosholt soil is a minor component.

Component: Brill (3%) Generated brief soil descriptions are created for major soil components. The Brill soil is a minor component.

Component: Ossmer (2%) Generated brief soil descriptions are created for major soil components. The Ossmer soil is a minor component.

Map Unit AnC2 (0.77%)

Map Unit Name: Bedrock Depth - Min: Watertable Depth - Annual Min: Drainage Class - Dominant: Hydrologic Group - Dominant:

Major components are printed below

Antigo(100%) horizon Ap(0cm to 25cm) horizon E,E/B,B/E,Bt(25cm to 71cm) horizon 2Bt3(71cm to 81cm) horizon 2C(81cm to 152cm) Antigo silt loam, 6 to 12 percent slopes, eroded

Well drained

B - Soils in this group have moderately low runoff potential when thoroughly wet. Water transmission through the soil is unimpeded.

Silt loam Silt loam Sandy loam Coarse sand

Component Description:

Minor map unit components are excluded from this report.

Map Unit: AnC2 - Antigo silt loam, 6 to 15 percent slopes

Component: Antigo (85%)

The Antigo component makes up 85 percent of the map unit. Slopes are 6 to 15 percent. This component is on hillslopes on outwash plains. The parent material consists of loess and/or silty glaciofluvial deposits over loamy glaciofluvial deposits over stratified sandy and gravelly outwash. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate.

Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 5 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Component: Rosholt (5%)

Generated brief soil descriptions are created for major soil components. The Rosholt soil is a minor component.

Component: Sconsin (5%) Generated brief soil descriptions are created for major soil components. The Sconsin soil is a minor component.

Component: Chetek (3%) Generated brief soil descriptions are created for major soil components. The Chetek soil is a minor component.

Component: Ossmer (2%) Generated brief soil descriptions are created for major soil components. The Ossmer soil is a minor component.

Map Unit ApC2 (0.7%)	
Map Unit Name:	Arland sandy loam, 6 to 12 percent slopes, eroded
Bedrock Depth - Min:	89cm
Watertable Depth - Annual Min:	
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted.
Major components are printed below	
Arland(100%)	
horizon Ap(0cm to 18cm)	Sandy loam
horizon Bt1(18cm to 28cm)	Sandy loam
horizon Bt2(28cm to 64cm)	Sandy loam
horizon BC,2C(64cm to 89cm)	Sandy loam
horizon 2Cr(89cm to 152cm)	Bedrock

Component Description:

Minor map unit components are excluded from this report.

Map Unit: ApC2 - Arland sandy loam, 6 to 12 percent slopes, eroded

Component: Arland (100%)

The Arland component makes up 100 percent of the map unit. Slopes are 6 to 12 percent. This component is on hills. The parent material consists of loamy till over sandstone and/or sandy residuum. Depth to a root restrictive layer, bedrock, paralithic, inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Map Unit AsB (0.49%)	
Map Unit Name:	Arland loam, 2 to 6 percent slopes
Bedrock Depth - Min:	89cm
Watertable Depth - Annual Min:	
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted.
Major components are printed below	
Arland(100%)	
horizon Ap(0cm to 18cm)	Loam
horizon Bt1(18cm to 28cm)	Sandy loam
erisinfo.com Environmental Risk I	formation Services Order No: 23031400190p

horizon Bt2(28cm to 64cm) horizon BC,2C(64cm to 89cm) horizon 2Cr(89cm to 152cm) Sandy loam Sandy loam Bedrock

Component Description:

Minor map unit components are excluded from this report.

Map Unit: AsB - Arland loam, 2 to 6 percent slopes

Component: Arland (100%)

The Arland component makes up 100 percent of the map unit. Slopes are 2 to 6 percent. This component is on hills. The parent material consists of loamy till over sandstone and/or sandy residuum. Depth to a root restrictive layer, bedrock, paralithic, inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

89cm

Loam

Sandy loam

Sandy loam

Sandy loam

Bedrock

Well drained

Arland loam, 6 to 12 percent slopes, eroded

C - Soils in this group have moderately high runoff potential when thoroughly

wet. Water transmission through the soil is somewhat restricted.

Map Unit AsC2 (0.5%)

Map Unit Name: Bedrock Depth - Min: Watertable Depth - Annual Min: Drainage Class - Dominant:

Hydrologic Group - Dominant:

Major components are printed below

Arland(100%) horizon Ap(0cm to 18cm) horizon Bt1(18cm to 28cm) horizon Bt2(28cm to 64cm) horizon BC,2C(64cm to 89cm) horizon 2Cr(89cm to 152cm)

Component Description:

Minor map unit components are excluded from this report.

Map Unit: AsC2 - Arland loam, 6 to 12 percent slopes, eroded

Component: Arland (100%)

The Arland component makes up 100 percent of the map unit. Slopes are 6 to 12 percent. This component is on hills. The parent material consists of loamy till over sandstone and/or sandy residuum. Depth to a root restrictive layer, bedrock, paralithic, inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Map Unit AsD2 (1.31%)	
Map Unit Name:	Arland loam, 12 to 20 percent slopes, eroded
Bedrock Depth - Min:	89cm
Watertable Depth - Annual Min:	
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted.
Major components are printed below	C C
Arland(100%)	

horizon Ap(0cm to 18cm) horizon Bt1(18cm to 28cm) horizon Bt2(28cm to 64cm) horizon BC,2C(64cm to 89cm) horizon 2Cr(89cm to 152cm) Loam Sandy loam Sandy loam Bedrock

Component Description:

Minor map unit components are excluded from this report.

Map Unit: AsD2 - Arland loam, 12 to 20 percent slopes, eroded

Component: Arland (100%)

The Arland component makes up 100 percent of the map unit. Slopes are 12 to 20 percent. This component is on hills. The parent material consists of loamy till over sandstone and/or sandy residuum. Depth to a root restrictive layer, bedrock, paralithic, inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria.

Map Unit Be (7.26%)	
Map Unit Name:	Beseman muck, 0 to 1 percent slopes
Bedrock Depth - Min:	
Watertable Depth - Annual Min:	0cm
Drainage Class - Dominant:	Very poorly drained
Hydrologic Group - Dominant:	C/D - These soils have moderately high runoff potential when drained and high runoff potential when undrained.
Major components are printed below	•
Beseman(100%)	
horizon Oe,Oa1,Oa2(0cm to 51cm)	Muck
horizon Cg(51cm to 152cm)	Loam
Component Description:	

Minor map unit components are excluded from this report.

Map Unit: Be - Beseman muck, 0 to 1 percent slopes

Component: Beseman (100%)

The Beseman component makes up 100 percent of the map unit. Slopes are 0 to 1 percent. This component is on depressions on ground moraines. The parent material consists of herbaceous organic material over silty drift and/or loamy drift. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is very poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is very high. Shrink-swell potential is moderate. This soil is not flooded. It is occasionally ponded. A seasonal zone of water saturation is at 0 inches during April, May, June, October, November. Organic matter content in the surface horizon is about 62 percent. Nonirrigated land capability classification is 7w. This soil meets hydric criteria.

Map Unit BpA (1.96%)	
Map Unit Name:	Brill silt loam, 0 to 3 percent slopes
Bedrock Depth - Min:	
Watertable Depth - Annual Min:	46cm
Drainage Class - Dominant:	Moderately well drained
Hydrologic Group - Dominant:	B/D - These soils have moderately low runoff potential when drained and high runoff potential when undrained.
Major components are printed below	
Brill(100%)	

horizon Ap(0cm to 20cm)	Silt loan
horizon E(20cm to 28cm)	Silt loan
horizon E/B(28cm to 33cm)	Silt loan
horizon B/E,Bt(33cm to 64cm)	Silt loan
horizon BC(64cm to 86cm)	Loam
horizon 2C(86cm to 152cm)	Sand

Component Description:

Minor map unit components are excluded from this report.

Map Unit: BpA - Brill silt loam, 0 to 3 percent slopes

Component: Brill (100%)

The Brill component makes up 100 percent of the map unit. Slopes are 0 to 3 percent. This component is on stream terraces, outwash plains. The parent material consists of loamy alluvium and/or silty drift over stratified sandy and gravelly outwash. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 18 inches during April. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2s. This soil does not meet hydric criteria.

Map Unit Cb (8.6%)

Map Unit Name:	Cable silt loam, 0 to 2 percent slopes
Bedrock Depth - Min:	
Watertable Depth - Annual Min:	0cm
Drainage Class - Dominant:	Very poorly drained
Hydrologic Group - Dominant:	C/D - These soils have moderately high runoff potential when drained and high runoff potential when undrained.
Major components are printed below	
Cable(100%)	
horizon A(0cm to 10cm)	Silt loam
horizon Eg,Bg1(10cm to 41cm)	Silt loam
horizon 2Bg2(41cm to 66cm)	Loam
horizon 2C1,2C2(66cm to 152cm)	Sandy loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: Cb - Capitola-Cebana complex, 0 to 2 percent slopes, very stony

Component: Capitola (40%)

The Capitola, very stony component makes up 40 percent of the map unit. Slopes are 0 to 2 percent. This component is on depressions on ground moraines on till plains. The parent material consists of silty alluvium and/or loamy alluvium over dense sandy loam till. Depth to a root restrictive layer, densic material, is 20 to 39 inches (depth from the mineral surface is 20 to 33 inches). The natural drainage class is very poorly drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is frequently ponded. A seasonal zone of water saturation is at 0 inches during April, May, November. Organic matter content in the surface horizon is about 65 percent. Nonirrigated land capability classification is 7w. This soil meets hydric criteria.

Component: Cebana (30%)

The Cebana, very stony component makes up 30 percent of the map unit. Slopes are 0 to 2 percent. This component is on ground moraines on till plains. The parent material consists of silty loess and/or silty lacustrine deposits over dense loamy till. Depth to a root restrictive layer, densic material, is 39 to 59 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 0 inches during April, May, November. Organic matter content in the surface horizon is about 10 percent. Nonirrigated land capability classification is 6w. This soil meets hydric criteria.

Component: Cathro (10%)

Generated brief soil descriptions are created for major soil components. The Cathro soil is a minor component.

Component: Magnor (10%) Generated brief soil descriptions are created for major soil components. The Magnor soil is a minor component.

Component: Auburndale (5%) Generated brief soil descriptions are created for major soil components. The Auburndale soil is a minor component.

Component: Capitola (3%) Generated brief soil descriptions are created for major soil components. The Capitola soil is a minor component.

Component: Cebana (2%) Generated brief soil descriptions are created for major soil components. The Cebana soil is a minor component.

Map Unit FnB (5.35%)

Map Unit Name: Bedrock Depth - Min: Watertable Depth - Annual Min: Drainage Class - Dominant: Hydrologic Group - Dominant:

Major components are printed below

Freeon(100%) horizon Ap(0cm to 20cm) horizon E,E/B,Bt1(20cm to 58cm) horizon 2Bt2,2Bt3(58cm to 97cm) horizon 2C(97cm to 152cm) Freeon silt loam, 2 to 6 percent slopes

30cm Moderately well drained C/D - These soils have moderately high runoff potential when drained and high runoff potential when undrained.

Silt loam Silt loam Sandy loam Sandy loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: FnB - Freeon silt loam, 2 to 6 percent slopes

Component: Freeon (80%)

The Freeon component makes up 80 percent of the map unit. Slopes are 2 to 6 percent. This component is on ground moraines on till plains. The parent material consists of loess and/or silty lacustrine deposits over dense sandy loam till. Depth to a root restrictive layer, densic material, is 39 to 59 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during April. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

Component: Magnor (10%)

Generated brief soil descriptions are created for major soil components. The Magnor soil is a minor component.

Component: Santiago (3%) Generated brief soil descriptions are created for major soil components. The Santiago soil is a minor component.

Component: Capitola (3%) Generated brief soil descriptions are created for major soil components. The Capitola soil is a minor component.

Component: Freeon (2%) Generated brief soil descriptions are created for major soil components. The Freeon soil is a minor component.

Component: Haugen (2%) Generated brief soil descriptions are created for major soil components. The Haugen soil is a minor component.

Map Unit FnC2 (1.49%)

Map Unit Name:

Freeon silt loam, 6 to 12 percent slopes, eroded

Bedrock Depth - Min:

Watertable Depth - Annual Min:

Drainage Class - Dominant:

Hydrologic Group - Dominant:

Major components are printed below

Freeon(100%)

horizon Ap(0cm to 20cm) horizon E,E/B,Bt1(20cm to 58cm) horizon 2Bt2,2Bt3(58cm to 97cm) horizon 2C(97cm to 152cm) 30cm

Moderately well drained

C/D - These soils have moderately high runoff potential when drained and high runoff potential when undrained.

Silt Ioam Silt Ioam Sandy Ioam Sandy Ioam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: FnC2 - Freeon silt loam, 6 to 12 percent slopes

Component: Freeon (85%)

The Freeon component makes up 85 percent of the map unit. Slopes are 6 to 12 percent. This component is on ground moraines on till plains. The parent material consists of loess and/or silty lacustrine deposits over dense sandy loam till. Depth to a root restrictive layer, densic material, is 39 to 59 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during April. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Component: Magnor (5%)

Generated brief soil descriptions are created for major soil components. The Magnor soil is a minor component.

Component: Santiago (4%) Generated brief soil descriptions are created for major soil components. The Santiago soil is a minor component.

Component: Freeon (2%) Generated brief soil descriptions are created for major soil components. The Freeon soil is a minor component.

Component: Amery (2%) Generated brief soil descriptions are created for major soil components. The Amery soil is a minor component.

Component: Capitola (2%)

Generated brief soil descriptions are created for major soil components. The Capitola soil is a minor component.

Map Unit KeB (0.87%)

Map Unit Name:	Kert silt loam, 1 to 6 percent slopes
Bedrock Depth - Min:	102cm
Watertable Depth - Annual Min:	46cm
Drainage Class - Dominant:	Somewhat poorly drained
Hydrologic Group - Dominant:	B/D - These soils have moderately low runoff potential when drained and high runoff potential when undrained.
Major components are printed below	
Kert(100%)	
horizon Ap(0cm to 20cm)	Silt loam
horizon E,E/B(20cm to 56cm)	Silt Ioam
horizon 2Bt1(56cm to 71cm)	Silt loam
horizon 2Bt2(71cm to 102cm)	Silty clay loam

Weathered bedrock

Component Description:

horizon 3Cr1,3Cr2(102cm to 152cm)

Minor map unit components are excluded from this report.

Map Unit: KeB - Kert silt loam, 1 to 6 percent slopes

Component: Kert (99%)

The Kert component makes up 99 percent of the map unit. Slopes are 1 to 6 percent. This component is on hills. The parent material consists of silty drift and/or loamy drift over silty residuum and/or sandy residuum and/or clayey residuum over weathered sandstone and/or interbedded shale. Depth to a root restrictive layer, bedrock, paralithic, inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is very low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 18 inches during March, April, May, June, October, November, December. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

Component: Vesper (1%)

Generated brief soil descriptions are created for major soil components. The Vesper soil is a minor component.

Map Unit LoB (5.16%)	
Map Unit Name:	Loyal silt loam, 1 to 6 percent slopes
Bedrock Depth - Min:	
Watertable Depth - Annual Min:	30cm
Drainage Class - Dominant:	Moderately well drained
Hydrologic Group - Dominant:	C/D - These soils have moderately high runoff potential when drained and high runoff potential when undrained.
Major components are printed below	
Loyal(90%)	
horizon Ap(0cm to 23cm)	Silt loam
horizon E(23cm to 36cm)	Silt loam
horizon E/B(36cm to 51cm)	Silt loam
horizon 2B/E(51cm to 61cm)	Loam
horizon 2Bt1(61cm to 91cm)	Loam
horizon 2Bt2(91cm to 114cm)	Loam
horizon 2Cd(114cm to 200cm)	Loam
Component Description:	

Minor map unit components are excluded from this report.

Map Unit: LoB - Loyal silt loam, 1 to 6 percent slopes

Component: Loyal (90%)

The Loyal component makes up 90 percent of the map unit. Slopes are 1 to 6 percent. This component is on ground moraines on till plains. The parent material consists of silty alluvium and/or loess over dense loamy till. Depth to a root restrictive layer, densic material, is 40 to 64 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during April. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

Component: Withee (6%) Generated brief soil descriptions are created for major soil components. The Withee soil is a minor component.

Component: Rietbrock (2%) Generated brief soil descriptions are created for major soil components. The Rietbrock soil is a minor component.

Component: Fenwood (2%)

Generated brief soil descriptions are created for major soil components. The Fenwood soil is a minor component.

Map Unit LoC2 (0.77%)

Map Unit Name: Loyal silt loam, 6 to 12 percent slopes Bedrock Depth - Min: Watertable Depth - Annual Min: 30cm Drainage Class - Dominant: Moderately well drained Hydrologic Group - Dominant: C/D - These soils have moderately high runoff potential when drained and high runoff potential when undrained. Major components are printed below Loyal(90%) horizon Ap(0cm to 23cm) Silt loam horizon E(23cm to 36cm) Silt loam horizon E/B(36cm to 51cm) Silt loam horizon 2B/E(51cm to 61cm) Loam horizon 2Bt1(61cm to 91cm) Loam horizon 2Bt2(91cm to 114cm) Loam horizon 2Cd(114cm to 200cm) Loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: LoC2 - Loyal silt loam, 6 to 12 percent slopes

Component: Loyal (90%)

The Loyal component makes up 90 percent of the map unit. Slopes are 6 to 12 percent. This component is on ground moraines on till plains. The parent material consists of silty alluvium and/or loess over dense loamy till. Depth to a root restrictive layer, densic material, is 40 to 64 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during April. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Component: Freeon (4%)

Generated brief soil descriptions are created for major soil components. The Freeon soil is a minor component.

Component: Hiles (3%)

Generated brief soil descriptions are created for major soil components. The Hiles soil is a minor component.

Component: Fenwood (3%)

Generated brief soil descriptions are created for major soil components. The Fenwood soil is a minor component.

Map Unit MbB (0.39%)	
Map Unit Name:	Magnor silt loam, 1 to 6 percent slopes
Bedrock Depth - Min:	
Watertable Depth - Annual Min:	15cm
Drainage Class - Dominant:	Somewhat poorly drained
Hydrologic Group - Dominant:	C/D - These soils have moderately high runoff potential when drained and high runoff potential when undrained.
Major components are printed below	
Magnor(100%)	
horizon Ap(0cm to 20cm)	Silt loam
horizon E(20cm to 28cm)	Silt loam
horizon E/B,B/E(28cm to 46cm)	Silt loam
horizon 2Bt1,2Bt2(46cm to 81cm)	Sandy loam
horizon 2C(81cm to 152cm)	Sandy loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: MbB - Magnor silt loam, 0 to 4 percent slopes

Component: Magnor (80%)

The Magnor component makes up 80 percent of the map unit. Slopes are 0 to 4 percent. This component is on ground moraines on till plains. The parent material consists of loess and/or silty lacustrine deposits over dense sandy loam till. Depth to a root restrictive layer, densic material, is 39 to 59 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 6 inches during April. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria.

Component: Freeon (8%)

Generated brief soil descriptions are created for major soil components. The Freeon soil is a minor component.

Component: Cebana (4%) Generated brief soil descriptions are created for major soil components. The Cebana soil is a minor component.

Component: Magnor (2%) Generated brief soil descriptions are created for major soil components. The Magnor soil is a minor component.

Component: Pesabic (2%) Generated brief soil descriptions are created for major soil components. The Pesabic soil is a minor component.

Component: Capitola (2%) Generated brief soil descriptions are created for major soil components. The Capitola soil is a minor component.

Component: Almena (2%) Generated brief soil descriptions are created for major soil components. The Almena soil is a minor component.

Map Unit Pc (0.41%)

Map Unit Name:

Pits, gravel

Bedrock Depth - Min: Watertable Depth - Annual Min: Drainage Class - Dominant: Hydrologic Group - Dominant: Major components are printed below Pits(99%) horizon H1(0cm to 25cm) Stratified extremely gravelly coarse sand to very gravelly sand Component Description: Minor map unit components are excluded from this report. Map Unit: Pc - Pits, gravel Component: Pits (99%) Generated brief soil descriptions are created for major soil components. The Pits is a miscellaneous area.

Component: Aquents (1%) Generated brief soil descriptions are created for major soil components. The Aquents soil is a minor component.

Map Unit Px (8.35%)	
Map Unit Name:	Poskin silt loam, 0 to 2 percent slopes
Bedrock Depth - Min:	
Watertable Depth - Annual Min:	15cm
Drainage Class - Dominant:	Somewhat poorly drained
Hydrologic Group - Dominant:	B/D - These soils have moderately low runoff potential when drained and high runoff potential when undrained.

erisinfo.com Environmental Risk Information Services

Major components are printed below

Poskin(100%) horizon Ap(0cm to 25cm) horizon E(25cm to 36cm) horizon E/B,B/E(36cm to 58cm) horizon Bt1(58cm to 74cm) horizon 2Bt2(74cm to 97cm) horizon 2C(97cm to 152cm)

Silt loam Silt loam Silt loam Sandy loam Stratified sand to g

Silt loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: Px - Poskin silt loam, 0 to 2 percent slopes

Component: Poskin (99%)

The Poskin component makes up 99 percent of the map unit. Slopes are 0 to 2 percent. This component is on depressions on outwash plains. The parent material consists of loamy drift and/or silty drift over sandy and gravelly outwash. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 6 inches during April. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria.

Component: Rib (1%)

Generated brief soil descriptions are created for major soil components. The Rib soil is a minor component.

Map Unit Rb (3.6%)	
Map Unit Name:	Rib silt loam, 0 to 2 percent slopes
Bedrock Depth - Min:	
Watertable Depth - Annual Min:	0cm
Drainage Class - Dominant:	Poorly drained
Hydrologic Group - Dominant:	B/D - These soils have moderately low runoff potential when drained and high runoff potential when undrained.
Major components are printed below	
Rib(100%)	
horizon Ap(0cm to 20cm)	Silt loam
horizon Bg1,Bg2,Bg3(20cm to 71cm)	Silt loam
horizon 2Bg4(71cm to 84cm)	Loam
horizon 2C(84cm to 152cm)	Stratified coarse sand to loamy sand
Component Description:	

Minor map unit components are excluded from this report.

Map Unit: Rb - Rib silt loam, 0 to 2 percent slopes

Component: Rib (100%)

The Rib component makes up 100 percent of the map unit. Slopes are 0 to 2 percent. This component is on drainageways on outwash plains. The parent material consists of loamy drift and/or silty drift over stratified sandy and gravelly outwash. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is frequently ponded. A seasonal zone of water saturation is at 0 inches during January, February, March, April, May, June, July, August, September, October, November, December. Organic matter content in the surface horizon is about 7 percent. Nonirrigated land capability classification is 2w. This soil meets hydric criteria.

Map Unit Rc (7.05%)

Map Unit Name: Rib mucky silt loam, ponded, 0 to 2 percent slopes Bedrock Depth - Min: Watertable Depth - Annual Min: 0cm Drainage Class - Dominant: Poorly drained Hydrologic Group - Dominant: B/D - These soils have moderately low runoff potential when drained and high runoff potential when undrained. Major components are printed below Rib(100%) Silt loam horizon A(0cm to 38cm) horizon Bg1,2,3,2Bg4(38cm to 112cm) Silt loam horizon 2C(112cm to 152cm) Stratified coarse sand to loamy sand Component Description:

Minor map unit components are excluded from this report.

Map Unit: Rc - Rib mucky silt loam, ponded, 0 to 2 percent slopes

Component: Rib (100%)

The Rib, ponded component makes up 100 percent of the map unit. Slopes are 0 to 2 percent. This component is on depressions on outwash plains. The parent material consists of loamy drift and/or silty drift over stratified sandy and gravelly outwash. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is frequently ponded. A seasonal zone of water saturation is at 0 inches during January, February, March, April, May, June, July, August, September, October, November, December. Organic matter content in the surface horizon is about 15 percent. Nonirrigated land capability classification is 6w. This soil meets hydric criteria.

Map Unit RpC2 (0.16%)	
Map Unit Name:	Rosholt loam, 6 to 12 percent slopes, eroded
Bedrock Depth - Min:	
Watertable Depth - Annual Min:	
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	B - Soils in this group have moderately low runoff potential when thoroughly wet. Water transmission through the soil is unimpeded.
Major components are printed below	
Rosholt(100%)	
horizon Ap(0cm to 20cm) horizon E(20cm to 38cm) horizon B/E,Bt1,Bt2(38cm to 71cm) horizon 2Bt3(71cm to 86cm) horizon 2C(86cm to 152cm)	Loam Fine sandy loam Fine sandy loam Gravelly loamy sand Stratified coarse sand to sand
Map Unit SrB (0.81%)	
Map Unit Name:	Spencer silt loam, 2 to 6 percent slopes
Bedrock Depth - Min:	
Watertable Depth - Annual Min:	91cm
Drainage Class - Dominant:	Moderately well drained
Hydrologic Group - Dominant:	C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted.
Major components are printed below	5
Spencer(100%)	
horizon Ap(0cm to 23cm) horizon E(23cm to 30cm)	Silt Ioam Silt Ioam

horizon E/B,B/E(30cm to 51cm) horizon Bt1,Bt2,C1(51cm to 107cm) horizon 2C2(107cm to 152cm) Silt Ioam Silt Ioam Sandy Ioam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: SrB - Spencer silt loam, 2 to 6 percent slopes

Component: Spencer (100%)

The Spencer component makes up 100 percent of the map unit. Slopes are 2 to 6 percent. This component is on ground moraines. The parent material consists of silty drift over sandy loam till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 36 inches during March, April, May, October, November, December. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

Map Unit SrC2 (0.86%)

Map Unit Name: Bedrock Depth - Min: Watertable Depth - Annual Min: Drainage Class - Dominant:

Hydrologic Group - Dominant:

Major components are printed below

• • •	
Spencer(100%)	
horizon Ap(0cm to 23	Bcm)
horizon E(23cm to 30)cm)
horizon E/B,B/E(30cr	n to 51cm)
horizon Bt1,Bt2,C1(5	1cm to 107cm)
horizon 2C2(107cm t	o 152cm)

Spencer silt loam, 6 to 12 percent slopes, eroded

Moderately well drained

91cm

Silt Ioam Silt Ioam Silt Ioam Silt Ioam Sandy Ioam

C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted.

Component Description:

Minor map unit components are excluded from this report.

Map Unit: SrC2 - Spencer silt loam, 6 to 12 percent slopes, eroded

Component: Spencer (100%)

The Spencer component makes up 100 percent of the map unit. Slopes are 6 to 12 percent. This component is on ground moraines. The parent material consists of silty drift over sandy loam till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 36 inches during March, April, May, October, November, December. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Map Unit SsB (0.98%)	
Map Unit Name:	Spencer silt loam, gravelly substratum, 2 to 6 percent slopes
Bedrock Depth - Min:	
Watertable Depth - Annual Min:	91cm
Drainage Class - Dominant:	Moderately well drained
Hydrologic Group - Dominant:	C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted.
Major components are printed below	-
Spencer(100%)	
Soil Information

horizon Ap(0cm to 20cm) horizon E,E/B,B/E,Bt(20cm to 127cm) horizon 2C2(127cm to 152cm) Silt loam Silt loam Gravelly sand

Component Description:

Minor map unit components are excluded from this report.

Map Unit: SsB - Spencer silt loam, gravelly substratum, 2 to 6 percent slopes

Component: Spencer (100%)

The Spencer, gravelly substratum component makes up 100 percent of the map unit. Slopes are 2 to 6 percent. This component is on end moraines. The parent material consists of silty drift over sandy loam till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 36 inches during March, April, May, October, November, December. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

Map Unit W (0.17%) Map Unit Name: No more attributes available for this map unit	Water
Component Description:	
Minor map unit components are excluded from this rep	port.
Map Unit: W - Water	
Component: Water (100%) Generated brief soil descriptions are created for major	soil components. The Water is a miscellaneous area.
Map Unit WeB (39.83%)	
Map Unit Name:	Withee silt loam, 0 to 3 percent slopes
Bedrock Depth - Min:	
Watertable Depth - Annual Min:	15cm
Drainage Class - Dominant:	Somewhat poorly drained
Hydrologic Group - Dominant:	C/D - These soils have moderately high runoff potential when drained and high runoff potential when undrained.
Major components are printed below	

Silt loam Silt loam

Silt loam

Silt loam

Loam

Loam

Loam

Component Description:

horizon Ap(0cm to 23cm)

horizon E(23cm to 36cm) horizon E/B(36cm to 46cm)

horizon B/E(46cm to 61cm)

horizon 2Bt1(61cm to 86cm)

horizon 2Bt2(86cm to 119cm)

horizon 2Cd(119cm to 200cm)

Withee(83%)

Minor map unit components are excluded from this report.

Map Unit: WeB - Withee silt loam, 0 to 3 percent slopes

Component: Withee (83%)

The Withee component makes up 83 percent of the map unit. Slopes are 0 to 3 percent. This component is on ground moraines on till plains. The parent material consists of loess and/or silty alluvium over dense loamy till. Depth to a root restrictive layer, densic

Soil Information

material, is 40 to 64 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 6 inches during April. Organic matter content in the surface horizon is about 4 percent. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria.

Component: Marshfield (10%)

Generated brief soil descriptions are created for major soil components. The Marshfield soil is a minor component.

Component: Loyal (5%) Generated brief soil descriptions are created for major soil components. The Loyal soil is a minor component.

Component: Rietbrock (1%) Generated brief soil descriptions are created for major soil components. The Rietbrock soil is a minor component.

Component: Magnor (1%) Generated brief soil descriptions are created for major soil components. The Magnor soil is a minor component.











Wells and Additional Sources Summary

Federal Sources

Public Water Systems Violations and Enforcement Data							
Мар Кеу	PWS ID	Distance (ft)	Direction				
22	WI6090702	3994.81	SW				
Safe Drinking Water I	Safe Drinking Water Information System (SDWIS)						
Map Key	ID	Distance (ft)	Direction				
	No records found						
USGS National Water	Information System						
Map Key	ID	Distance (ft)	Direction				
	No records found						
Wells from NWIS							
Map Key	ID	Distance (ft)	Direction				
	No records found						

State Sources

Historic Well Construction Reports (1930-1989)

Map Key	WID	Distance (ft)	Direction	
2	9505461	0.00	-	
3	9505091	709.26	ENE	
3	9505463	709.26	ENE	
4	9505453	1006.13	NW	
5	9505161	1265.12	SW	
8	9505233	2406.03	SSW	
13	9505454	2877.03	NW	
14	9505213	3333.50	N	
15	9505455	3319.74	N	
17	9505476	3332.88	SE	
20	9505089	3920.10	ESE	
25	9505252	4120.07	NE	
25	9505251	4120.07	NE	
26	9505210	4131.97	NE	
27	9502300	4199.96	SSW	
29	9505214	4659.27	N	
30	9505133	4348.25	SE	
32	9505220	4932.76	ENE	
32	9505245	4932.76	ENE	
32	9505243	4932.76	ENE	
35	9505090	5126.85	ESE	
37	9505451	5056.01	NE	

Wells and Additional Sources Summary

Oil and Gas Wells

Map Key

ID

Distance (ft) Direction

No records found

Public Water Supply Systems

Мар Кеу	DNR PWS ID	Distance (ft)	Direction
21	60907022	3942.04	SW

Well Construction Report

Map Key	WI Unique Well No	Distance (ft)	Direction
		0.00	
1	LM946	0.00	-
2	8BA174	0.00	-
3	8BA176	709.26	ENE
3	8LM336	709.26	ENE
4	8BA168	1006.13	NW
5	8BC460	1265.12	SW
6	MY799	2177.87	E
7	AAD819	2496.00	W
8	8BC459	2406.03	SSW
9	SX515	2534.77	SSW
10	MT248	2650.78	ESE
11	YY192	2919.43	E
12	UX232	2814.04	NW
13	8BA169	2877.03	NW
14	8BC448	3333.50	N
15	8BA170	3319.74	N
16	UX162	3295.69	NNE
17	8BA175	3332.88	SE
18	SG663	3423.91	NNW
18	MK033	3423.91	NNW
19	KZ723	3693.60	SSW
20	8BC461	3920.10	ESE
23	UV609	3936.40	NW
24	ZX238	4074.45	SW
25	WR569	4120.07	NE
25	8BC441	4120.07	NE
25	WR566	4120.07	NE
25	XB124	4120.07	NE
25	QM019	4120.07	NE
25	QZ438	4120.07	NE
25	WS645	4120.07	NE
25	8BC440	4120.07	NE
25	QM040	4120.07	NE
25	WR565	4120.07	NE
25	QM041	4120.07	NE
25	XB126	4120.07	NE
26	8BC445	4131.97	NE
27	NN082	4199.96	SSW
27	8BA813	4199.96	SSW
28	QZ363	4496.23	SSE
29	8BC449	4659.27	Ν
29	XL716	4659.27	Ν
30	DS293	4348.25	SE
30	8AZ674	4348.25	SE
31	UV629	5048.50	Ν
32	8BC443	4932.76	ENE
32	8BC444	4932.76	ENE
32	8BC442	4932.76	ENE

40

Wells and Additional Sources Summary

33 34 35 35 36 37	NJ207 YA969 8BC462 MY658 FP106 8BA166	5045.43 5008.02 5126.85 5126.85 5014.19 5056.01	SSE ESE ESE SW NE
37 38	MY670	5255.47	WSW

Well Inventory

Мар Кеу	ID	Distance (ft)	Direction
	No records found		

Map Key Direction Distance (mi) **Distance (ft) Elevation (ft)** 22 3,994.81 SW 0.76 1,123.98 Address Line 2: State Code: WI Zip Code: 54768 City Name: Stanley Address Line 1: 34027 CTH X PWS ID: WI6090702 PWS Type Code: TNCWS PWS Type Description: Transient Non-Community Water System Primary Source Code: GW Groundwater Primary Source Desc: PWS Activity Code: А PWS Activity Description: Active

DB

PWSV

Public Water Systems Violations and Enforcement Data

County Served:	Chippewa
State Served:	WI
Zip Code Served:	

PWS Deactivation Date:

Population Served Count:

Phone Number:

--Details--

City Served:

Historic Well Construction Reports (1930-1989)

50

STANLEY

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
2	-	0.00	0.00	1,137.41	WATER WELLS
WID:	95054	461	Latitude:	44.95329	
Depth to Bedrock:			Longitude:	-90.97118	
County Name:	CHIP	PEWA			
Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
3	ENE	0.13	709.26	1,090.00	WATER WELLS
WID:	95050	091	Latitude:	44.956907	
Depth to Bedrock:			Longitude:	-90.961098	
County Name:	CHIP	PEWA			
Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
3	ENE	0.13	709.26	1,090.00	WATER WELLS
42 erisin	fo.com Environi	mental Risk Information S	Services	Order	No: 23031400190p

15	Ν	0.63	3.319.74	1,119.41	WATER WELLS
Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
WID: Depth to Bedrock: County Name:	95052 CHIP	213 PEWA	Latitude: Longitude:	44.967721 -90.971378	
14	N	0.63	3,333.50	1,136.61	WATER WELLS
Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
WID: Depth to Bedrock: County Name:	95054 CHIP	454 PEWA	Latitude: Longitude:	44.964132 -90.98134	
13	NW	0.54	2,877.03	1,145.75	WATER WELLS
Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
WID: Depth to Bedrock: County Name:	9505; CHIP	233 PEWA	Latitude: Longitude:	44.946075 -90.97622	
8	SSW	0.46	2,406.03	1,098.73	WATER WELLS
Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
WID: Depth to Bedrock: County Name:	9505 [.] CHIP	161 PEWA	Latitude: Longitude:	44.949681 -90.976219	
5	SW	0.24	1,265.12	1,117.39	WATER WELLS
Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
WID: Depth to Bedrock: County Name:	95054 CHIP	453 PEWA	Latitude: Longitude:	44.960488 -90.976249	
4	NW	0.19	1,006.13	1,101.87	WATER WELLS
Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
Depth to Bedrock: County Name:	CHIP	PEWA	Longitude:	-90.961098	
WID:	95054	463	Latitude:	44.956907	

27	SSW	0.80	4,199.96	1,088.62	WATER WELLS
Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
WID: Depth to Bedrock: County Name:	95052 CHIP	210 PEWA	Latitude: Longitude:	44.967761 -90.956034	
26	NE	0.78	4,131.97	1,090.18	WATER WELLS
Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
WID: Depth to Bedrock: County Name:	95052 CHIP	251 PEWA	Latitude: Longitude:	44.965995 -90.953387	
25	NE	0.78	4,120.07	1,090.00	WATER WELLS
Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
WID: Depth to Bedrock: County Name:	95052 CHIPI	252 PEWA	Latitude: Longitude:	44.965995 -90.953387	
25	NE	0.78	4,120.07	1,090.00	WATER WELLS
Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
WID: Depth to Bedrock: County Name:	95050 CHIP	089 PEWA	Latitude: Longitude:	44.949761 -90.950764	
20	ESE	0.74	3,920.10	1,087.58	WATER WELLS
Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
WID: Depth to Bedrock: County Name:	95054 CHIP	176 PEWA	Latitude: Longitude:	44.946157 -90.955865	
17	SE	0.63	3,332.88	1,112.52	WATER WELLS
Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
Depth to Bedrock: County Name:	CHIP	PEWA	Longitude:	-90.966345	
WID:	95054	155	Latitude:	44.967692	

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
WID: Depth to Bedrock: County Name:	95052 CHIP	243 PEWA	Latitude: Longitude:	44.960591 -90.945628	
32	ENE	0.93	4,932.76	1,080.31	WATER WELLS
Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	
WID: Depth to Bedrock: County Name:	9505 CHIP	PEWA	Latitude: Longitude:	44.960591 -90.945628	
	0505	0.00		44.000504	
32	ENE	0.93	4 932 76	1 080 31	
County Name:	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
WID: Depth to Bedrock:	95052	220	Latitude: Longitude:	44.960591 -90.945628	
32	ENE	0.93	4,932.76	1,080.31	WATER WELLS
Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
WID: Depth to Bedrock: County Name:	9505 [.] CHIP	133 PEWA	Latitude: Longitude:	44.94248 -90.955818	
30	SE	0.82	4,348.25	1,079.76	WATER WELLS
Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
Depth to Bedrock: County Name:	CHIP	PEWA	Longitude:	-90.97145	
WID:	95052	214	Latitude:	44.971358	
29	Ν	0.88	4,659.27	1,147.95	WATER WELLS
Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
Depth to Bedrock: County Name:	CHIP	PEWA	Longitude:	-90.981277	
WID:	95023	300	Latitude:	44.942369	

WID: Depth to Bedrock:		9505090		l l	.atitude: .ongitude:	44.94977 -90.94566	5 63
County Name:		CHIPPEV	VA				
Мар Кеу	Directi	on D	Distance (mi)	Dis	tance (ft)	Elevation (ft) DB
37	NE	0	.96	5,05	6.01	1,089.53	WATER WELLS
WID:		9505451		L	atitude:	44.96781	4
Depth to Bedrock:				L	ongitude:	-90.95082	25
County Name:		CHIPPEV	VA				
Public Water	Supply	Syster	ns				
Мар Кеу	Directi	on D)istance (mi)	Dis	tance (ft)	Elevation (ft) DB
21	SW	0	.75	3,94	2.04	1,125.36	PWS
DNR PWS ID:		60907022	2	F	Purchased Grnd Wtr:	0	
Туре:		Transient	, non-community	F	Purchased Surf Wtr:	0	
Status:		Active		5	Service Connects:	1	
DNR Region:		West Cer	ntral Region	١	Vater Meters:	0	
County:		Chippewa	a	5	Storage Capacity:	0	
Non Transient Pop:		0		5	Season Begins:		
Transient Pop:		50		S	Season Ends:		
Surface Water:		0		F	Provide Wtr to Sys:	No	
Ground Water:		100		F	Recei Wtr from Sys:	No	
Service Types:		Restaura	nt				
Most Recent Sanita Survey:	iry	09/04/20	19				
Well Construc	ction Re	eport					

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
1	-	0.00	0.00	1,111.48	PRIVATE WW
WI Unique Well No:	LM946		Temp Outer Cas:		
High Cap Well No: Hi Cap Well:			Temp Casing Diam: Temp Casing Rem:		
Hi Cap Property:			Why Not Removed:		
County Well Loc:			Other Drill Method:		
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		
Muni Type:			Screen Description:		
Tax Parcel No:			Casing Depth Amt:	70 FEET	
Well Complete Date	e: 06/03/2	1997	Screen To:		
DNR Rec Date:			Sealant Method:		
Fire No:			Static Depth Amt:	15	

Subdivision:		Pumping Level:	
Lot:		Pumping At:	
Block:		Pumping Units:	
Government Parcel:		For:	
Survey Township:	29	Well Start Depth:	
Survey Range:	5	Developed:	
Survey Section:	34	Disinfected:	
Q Section:	NE	Capped:	
QQ Section:	NW	Proper Seal:	
Well Status:	Replacement	Contractor Signed:	
Original Year:		Rig Oper Signed:	
Replace Reason:		Geologic Log No:	
Prev WI Well No:		Common Well No:	
Replace Well No:		DNR Facility ID:	
Well Const Type:		Watr Seg No:	676519
Other Const Type:		LL Lat Dd Amt:	
Category:		LL Long Dd Amt:	
No Services:		Survey Range Dir:	W
Facility Type:		Well Name:	
High Pt Property:		Calc Specific Cap	
In Floodolain:		Well Denth Amt	155
Rotary Mud Circ:		Well Dep Amt Text	155 FEFT
Rotary Air:		Static Depth:	feet below ground surface
Rotary Foam:		Location Method:	$\Omega\Omega$ section centroid
Rotary Foan.		Casing Depth Amt:	
Cable Tool Bit:		Decade Complete:	1000 1000
Cable Tool Bit.		Decade Complete.	1990-1999
Owner Address	DO DOX 31		
Owner Address:	PO BOX 31		
Owner City:			
Owner State:			
Owner Zip:			
Constructor Name:	KLINE WELL @ PUMP INC		
Constructor Addr:			
Constructor City:			
Constructor State:			
Constructor Zip:			
Seal Description:			
Drilling Difficulty:			
Other Driller Comments:			
Water Quality Comments:			
Water Quantity Comments: Exception Area Comments:			

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
2	-	0.00	0.00	1,137.41	PRIVATE WW
WI Unique Well No:	8BA1	74	Temp Outer Cas:		
High Cap Well No:	02/11		Temp Casing Diam:		
Hi Cap Well:			Temp Casing Rem:		
Hi Cap Property:			Why Not Removed:		
County Well Loc:			Other Drill Method:		
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		
Muni Type:			Screen Description:		
Tax Parcel No:			Casing Depth Amt:		
Well Complete Date			Screen To:		
DNR Rec Date:			Sealant Method:		
Fire No:			Static Depth Amt:		
Subdivision:			Pumping Level:		
Lot:			Pumping At:		
Block:			Pumping Units:		
Government Parcel:	:		For:		
Survey Township:	29		Well Start Depth:		
Survey Range:	5		Developed:		
Survey Section:	34		Disinfected:		
Q Section:	NE		Capped:		
QQ Section:	SW		Proper Seal:		
Well Status:			Contractor Signed:		
Original Year:			Rig Oper Signed:		
Replace Reason:			Geologic Log No:		
Prev WI Well No:			Common Well No:		
Replace Well No:			DNR Facility ID:		
Well Const Type:			Watr Seq No:	113775701	
Other Const Type:			LL Lat Dd Amt:		
Category:			LL Long Dd Amt:		
No Services:			Survey Range Dir:	W	
Facility Type:			Well Name:		
High Pt Property:			Calc Specific Cap:		
In Floodplain:			Well Depth Amt:		
Rotary Mud Circ:			Well Dep Amt Text:		
Rotary Air:			Static Depth:		
Rotary Foam:			Location Method:	QQ section centroid	k
Reverse Rotary:			Casing Depth Amt:		
Cable Tool Bit:			Decade Complete:		
Cable Bit Diameter:					
Owner:					
Owner Address:					
Owner City:					

Owner State:

Owner Zip:	
Constructor Name:	
Constructor Addr:	
Constructor City:	
Constructor State:	
Constructor Zip:	
Seal Description:	
Drilling Difficulty:	
Other Driller Comments:	
Water Quality Comments:	
Water Quantity Comments: Exception Area Comments: Well URL:	
Well Constr Url:	https://dnr.wi.gov/WellConstructionSearch/ReportViewer.aspx? id=WellConstructionReport&download=false&WUWN=8BA174

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
3	ENE	0.13	709.26	1,090.00	PRIVATE WW
WI Unique Well No [.]	8BA1	76	Temp Outer Cas:		
High Cap Well No:	00/11		Temp Casing Diam:		
Hi Can Well [.]			Temp Casing Rem		
Hi Cap Property:			Why Not Removed:		
County Well Loc:			Other Drill Method:		
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		
Muni Type:			Screen Description:		
Tax Parcel No:			Casing Depth Amt:		
Well Complete Date	9:		Screen To:		
DNR Rec Date:			Sealant Method:		
Fire No:			Static Depth Amt:		
Subdivision:			Pumping Level:		
Lot:			Pumping At:		
Block:			Pumping Units:		
Government Parcel	:		For:		
Survey Township:	29		Well Start Depth:		
Survey Range:	5		Developed:		
Survey Section:	35		Disinfected:		
Q Section:	NW		Capped:		
QQ Section:	NW		Proper Seal:		
Well Status:			Contractor Signed:		
Original Year:			Rig Oper Signed:		
Replace Reason:			Geologic Log No:		
Prev WI Well No:			Common Well No:		
Replace Well No:			DNR Facility ID:		
Well Const Type:			Watr Seq No:	113775703	

Other Const Type:		LL Lat Dd Amt:	
Category:		LL Long Dd Amt:	
No Services:		Survey Range Dir:	W
Facility Type:		Well Name:	
High Pt Property:		Calc Specific Cap:	
In Floodplain:		Well Depth Amt:	
Rotary Mud Circ:		Well Dep Amt Text:	
Rotary Air:		Static Depth:	
Rotary Foam:		Location Method:	QQ section centroid
Reverse Rotary:		Casing Depth Amt:	
Cable Tool Bit:		Decade Complete:	
Cable Bit Diameter:			
Owner:			
Owner Address:			
Owner City:			
Owner State:			
Owner Zip:			
Constructor Name:			
Constructor Addr:			
Constructor City:			
Constructor State:			
Constructor Zip:			
Seal Description:			
Drilling Difficulty:			
Other Driller Comments:			
Water Quality Comments:			
Water Quantity Comments: Exception Area Comments: Well URL:			
Well Constr Url:	https://dnr.wi.gov/WellConstructionSe	arch/ReportViewer.aspx?	

https://dnr.wi.gov/WellConstructionSearch/ReportViewer.aspx? id=WellConstructionReport&download=false&WUWN=8BA176

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
3	ENE	0.13	709.26	1,090.00	PRIVATE WW
WI Unique Well No:	8LM3	36	Temp Outer Cas:		
High Cap Well No:			Temp Casing Diam:		
Hi Cap Well:			Temp Casing Rem:		
Hi Cap Property:			Why Not Removed:		
County Well Loc:			Other Drill Method:		
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		
Muni Type:			Screen Description:		
Tax Parcel No:			Casing Depth Amt:		
Well Complete Date	e:		Screen To:		
DNR Rec Date:			Sealant Method:		

Fire No:		Static Depth Amt:	
Subdivision:		Pumping Level:	
Lot:		Pumping At:	
Block:		Pumping Units:	
Government Parcel:		For:	
Survey Township:	29	Well Start Depth:	
Survey Range:	5	Developed:	
Survey Section:	35	Disinfected:	
Q Section:	NW	Capped:	
QQ Section:	NW	Proper Seal:	
Well Status:		Contractor Signed:	
Original Year:		Rig Oper Signed:	
Replace Reason:		Geologic Log No:	
Prev WI Well No:		Common Well No:	
Replace Well No:		DNR Facility ID:	
Well Const Type:		Watr Seg No:	11/0/8100
Other Const Type:		I Lat Dd Amt	114040190
Category:		LL Long Dd Amt	
Valegory.		EL LONG DU AIIIL	۱۸/
No Services.		Survey Range Dir.	vv
Facility Type.			
High Pt Property:		Calc Specific Cap:	
Rotary Mud Circ:		Well Dep Amt Text:	
Rotary Air:		Static Depth:	
Rotary Foam:		Location Method:	QQ section centroid
Reverse Rotary:		Casing Depth Amt:	
Cable Tool Bit:		Decade Complete:	
Cable Bit Diameter:			
Owner:			
Owner Address:			
Owner City:			
Owner State:			
Owner Zip:			
Constructor Name:			
Constructor Addr:			
Constructor City:			
Constructor State:			
Constructor Zip:			
Seal Description:			
Drilling Difficulty:			
Other Driller Comments:			
Water Quality Comments:			
Water Quantity			
Comments:			
Exception Area			
Well URL:			

Well Constr Url:

https://dnr.wi.gov/WellConstructionSearch/ReportViewer.aspx? id=WellConstructionReport&download=false&WUWN=8LM336

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
4	NW	0.19	1,006.13	1,101.87	PRIVATE WW
WI Unique Well No:	8B/	A168	Temp Outer Cas:		
High Cap Well No:			Temp Casing Diam:		
Hi Cap Well:			Temp Casing Rem:		
Hi Cap Property:			Why Not Removed:		
County Well Loc:			Other Drill Method:		
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		
Muni Type:			Screen Description:		
Tax Parcel No:			Casing Depth Amt:		
Well Complete Date):		Screen To:		
DNR Rec Date:			Sealant Method:		
Fire No:			Static Depth Amt:		
Subdivision:			Pumping Level:		
Lot:			Pumping At:		
Block:			Pumping Units:		
Government Parcel	:		For:		
Survey Township:	29		Well Start Depth:		
Survey Range:	5		Developed:		
Survey Section:	27		Disinfected:		
Q Section:	SM	I	Capped:		
QQ Section:	SE		Proper Seal:		
Well Status:			Contractor Signed:		
Original Year:			Rig Oper Signed:		
Replace Reason:			Geologic Log No:		
Prev WI Well No:			Common Well No:		
Replace Well No:			DNR Facility ID:		
Well Const Type:			Watr Seq No:	113775695	
Other Const Type:			LL Lat Dd Amt:		
Category:			LL Long Dd Amt:		
No Services:			Survey Range Dir:	W	
Facility Type:			Well Name:		
High Pt Property:			Calc Specific Cap:		
In Floodplain:			Well Depth Amt:		
Rotary Mud Circ:			Well Dep Amt Text:		
Rotary Air:			Static Depth:		
Rotary Foam:			Location Method:	QQ section centroid	I
Reverse Rotary:			Casing Depth Amt:		
Cable Tool Bit:			Decade Complete:		
Cable Bit Diameter:			1		
Owner:					
Owner Address:					

Owner City:

Owner State:	
Owner Zip:	
Constructor Name:	
Constructor Addr:	
Constructor City:	
Constructor State:	
Constructor Zip:	
Seal Description:	
Drilling Difficulty:	
Other Driller Comments:	
Water Quality Comments:	
Water Quantity Comments: Exception Area Comments: Well URL:	
Well Constr Url:	https://dnr.wi.gov/WellConstructionSearch/ReportViewer.aspx? id=WellConstructionReport&download=false&WUWN=8BA168

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
5	SW	0.24	1,265.12	1,117.39	PRIVATE WW
WI Unique Well No:	8BC4	60	Temp Outer Cas:		
High Cap Well No:			Temp Casing Diam:		
Hi Cap Well:			Temp Casing Rem:		
Hi Cap Property:			Why Not Removed:		
County Well Loc:			Other Drill Method:		
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		
Muni Type:			Screen Description:		
Tax Parcel No:			Casing Depth Amt:		
Well Complete Date	e:		Screen To:		
DNR Rec Date:			Sealant Method:		
Fire No:			Static Depth Amt:		
Subdivision:			Pumping Level:		
Lot:			Pumping At:		
Block:			Pumping Units:		
Government Parcel	:		For:		
Survey Township:	29		Well Start Depth:		
Survey Range:	5		Developed:		
Survey Section:	34		Disinfected:		
Q Section:	SW		Capped:		
QQ Section:	NE		Proper Seal:		
Well Status:			Contractor Signed:		
Original Year:			Rig Oper Signed:		
Replace Reason:			Geologic Log No:		
Prev WI Well No:			Common Well No:		
Replace Well No:			DNR Facility ID:		

Well Const Type:		Watr Seq No:	113777994
Other Const Type:		LL Lat Dd Amt:	
Category:		LL Long Dd Amt:	
No Services:		Survey Range Dir:	W
Facility Type:		Well Name:	
High Pt Property:		Calc Specific Cap:	
In Floodplain:		Well Depth Amt:	
Rotary Mud Circ:		Well Dep Amt Text:	
Rotary Air:		Static Depth:	
Rotary Foam:		Location Method:	QQ section centroid
Reverse Rotary:		Casing Depth Amt:	
Cable Tool Bit:		Decade Complete:	
Cable Bit Diameter:			
Owner:			
Owner Address:			
Owner City:			
Owner State:			
Owner Zip:			
Constructor Name:			
Constructor Addr:			
Constructor City:			
Constructor State:			
Constructor Zip:			
Seal Description:			
Drilling Difficulty:			
Other Driller Comments:			
Water Quality Comments:			
Water Quantity			
Exception Area			
Comments:			
Well Constr Url:	https://dnr.wi.gov/WellConstructionSe id=WellConstructionReport&download	arch/ReportViewer.aspx? l=false&WUWN=8BC460	

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
6	E	0.41	2,177.87	1,095.51	PRIVATE WW
	MV700		Temp Outer Cas:		
High Cap Well No:	WI 7 9 5		Temp Casing Diam:		
Hi Cap Well:			Temp Casing Rem:		
Hi Cap Property:			Why Not Removed:		
County Well Loc:			Other Drill Method:		
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		
Muni Type:			Screen Description:		
Tax Parcel No:			Casing Depth Amt:	80 FEET	
Well Complete Date	: 04/15/1	1999	Screen To:		

DNR Rec Date:		Sealant Method:	
Fire No:		Static Depth Amt:	15
Subdivision:		Pumping Level:	
Lot:		Pumping At:	
Block:		Pumping Units:	
Government Parcel:		For:	
Survey Township:	29	Well Start Depth:	
Survey Range:	5	Developed:	
Survey Section:	35	Disinfected:	
Q Section:	NW	Capped:	
QQ Section:	SE	Proper Seal:	
Well Status:	New Well	Contractor Signed:	
Original Year:		Rig Oper Signed:	
Replace Reason:		Geologic Log No:	
Prev WI Well No:		Common Well No:	
Replace Well No:		DNR Facility ID:	
Well Const Type:		Watr Seq No:	1027690
Other Const Type:		LL Lat Dd Amt:	
Category:		LL Long Dd Amt:	
No Services:		Survey Range Dir:	W
Facility Type:		Well Name:	
High Pt Property:		Calc Specific Cap:	
In Floodplain:		Well Depth Amt:	117
Rotary Mud Circ:		Well Dep Amt Text:	117 FEET
Rotary Air:		Static Depth:	feet below ground surface
Rotary Foam:		Location Method:	QQ section centroid
Reverse Rotary:		Casing Depth Amt:	80
Cable Tool Bit:		Decade Complete:	1990-1999
Cable Bit Diameter:			
Owner:			
Owner Address:	PO BOX 37		
Owner City:			
Owner State:			
Owner Zip:			
Constructor Name:	WILLIAM D BRUNNER		
Constructor Addr:			
Constructor City:			
Constructor State:			
Constructor Zip:			
Seal Description:			
Drilling Difficulty:			
Other Driller Comments:			
Water Quality Comments:			
Water Quantity Comments: Exception Area Comments: Well URL:			

Well Constr Url:

https://dnr.wi.gov/WellConstructionSearch/ReportViewer.aspx? id=WellConstructionReport&download=false&WUWN=MY799

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
7	W	0.47	2,496.00	1,140.34	PRIVATE WW
WI Unique Well No:	AAD	819	Temp Outer Cas:		
High Cap Well No:			Temp Casing Diam:		
Hi Cap Well:			Temp Casing Rem:		
Hi Cap Property:			Why Not Removed:		
County Well Loc:			Other Drill Method:		
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		
Muni Type:			Screen Description:		
Tax Parcel No:			Casing Depth Amt:	62 FEET	
Well Complete Date	: 08/1	0/2020	Screen To:		
DNR Rec Date:			Sealant Method:		
Fire No:			Static Depth Amt:	39	
Subdivision:			Pumping Level:		
Lot:			Pumping At:		
Block:			Pumping Units:		
Government Parcel:			For:		
Survey Township:	29		Well Start Depth:		
Survey Range:	5		Developed:		
Survey Section:	34		Disinfected:		
Q Section:	NW		Capped:		
QQ Section:	NW		Proper Seal:		
Well Status:	New	Well	Contractor Signed:		
Original Year:			Rig Oper Signed:		
Replace Reason:			Geologic Log No:		
Prev WI Well No:			Common Well No:		
Replace Well No:			DNR Facility ID:		
Well Const Type:			Watr Seq No:	114141399	
Other Const Type:			LL Lat Dd Amt:	44.9566	
Category:			LL Long Dd Amt:	-90.9831	
No Services:			Survey Range Dir:	W	
Facility Type:			Well Name:		
High Pt Property:			Calc Specific Cap:		
In Floodplain:			Well Depth Amt:	84	
Rotary Mud Circ:			Well Dep Amt Text:	84 FEET	
Rotary Air:			Static Depth:	feet below ground	surface
Rotary Foam:			Location Method:	Latitude and longi	tude
Reverse Rotary:			Casing Depth Amt:	62	
Cable Tool Bit:			Decade Complete:	2020-PRESENT	
Cable Bit Diameter:					
Owner:					

Owner Address:

7861 COUNTY HIGHWAY G

Owner City:	
Owner State:	
Owner Zip:	
Constructor Name:	MIDWEST HYDROFRACKING LLC
Constructor Addr:	
Constructor City:	
Constructor State:	
Constructor Zip:	
Seal Description:	
Drilling Difficulty:	
Other Driller Comments:	
Water Quality Comments:	
Water Quantity Comments: Exception Area Comments: Well URL:	
Well Constr Url:	https://dnr.wi.gov/WellConstructionSearch/ReportViewer.aspx? id=WellConstructionReport&download=false&WUWN=AAD819

Map Key **Elevation (ft)** DB Direction Distance (mi) Distance (ft) 8 SSW 0.46 2,406.03 1,098.73 PRIVATE WW WI Unique Well No: 8BC459 Temp Outer Cas: High Cap Well No: Temp Casing Diam: Hi Cap Well: Temp Casing Rem: Hi Cap Property: Why Not Removed: County Well Loc: Other Drill Method: DNR Region: Other Drillin Desc: County: Screen Diameter: Screen Description: Muni Type: Tax Parcel No: Casing Depth Amt: Well Complete Date: Screen To: DNR Rec Date: Sealant Method: Static Depth Amt: Fire No: Subdivision: Pumping Level: Lot: Pumping At: Block: **Pumping Units: Government Parcel:** For: Survey Township: 29 Well Start Depth: Survey Range: 5 Developed: Survey Section: 34 Disinfected: Q Section: SW Capped: QQ Section: SE Proper Seal: Well Status: Contractor Signed: Original Year: **Rig Oper Signed:** Replace Reason: Geologic Log No: Prev WI Well No: Common Well No:

Replace Well No:			DNR Facility ID:		
Well Const Type:			Watr Seq No:	113777993	
Other Const Type:			LL Lat Dd Amt:		
Category:			LL Long Dd Amt:		
No Services:			Survey Range Dir:	W	
Facility Type:			Well Name:		
High Pt Property:			Calc Specific Cap:		
In Floodplain:			Well Depth Amt:		
Rotary Mud Circ:			Well Dep Amt Text:		
Rotary Air:			Static Depth:		
Rotary Foam:			Location Method:	QQ section centroid	
Reverse Rotary:			Casing Depth Amt:		
Cable Tool Bit:			Decade Complete:		
Cable Bit Diameter	:				
Owner:					
Owner Address:					
Owner City:					
Owner State:					
Owner Zip:					
Constructor Name:					
Constructor Addr:					
Constructor City:					
Constructor State:					
Constructor Zip:					
Seal Description:					
Drilling Difficulty:					
Other Driller Comm	ients:				
Water Quality Com	ments:				
Water Quantity Comments: Exception Area Comments: Well URL:					
Well Constr Url:	https:/	/dnr.wi.gov/WellConstructi	onSearch/ReportViewer.asp	x?	
	id=We	ellConstructionReport&dow	nload=false&WUWN=8BC4	59	
Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
9	SSW	0.48	2,534.77	1,101.10	PRIVATE WW
WI Unique Well No	: SX51	5	Temp Outer Cas:		
High Cap Well No:			Temp Casing Diam:		
Hi Cap Well:			Temp Casing Rem		
Hi Cap Property:			Why Not Removed:		
County Well Loc			Other Drill Method		
DNR Region:			Other Drillin Desc:		
Countv:			Screen Diameter:		
Muni Type:			Screen Description:		
· //·-·					

Casing Depth Amt:

33 FEET

Tax Parcel No:

Well Complete Date:	07/29/2005	Screen To:	
DNR Rec Date:		Sealant Method:	
Fire No:		Static Depth Amt:	11
Subdivision:		Pumping Level:	
Lot:		Pumping At:	
Block:		Pumping Units:	
Government Parcel:		For:	
Survey Township:	29	Well Start Depth:	
Survey Range:	5	Developed:	
Survey Section:	34	Disinfected:	
Q Section:	SW	Capped:	
QQ Section:	SE	Proper Seal:	
Well Status:	New Well	Contractor Signed:	
Original Year:		Rig Oper Signed:	
Replace Reason:		Geologic Log No:	
Prev WI Well No:		Common Well No:	
Replace Well No:		DNR Facility ID:	
Well Const Type:		Watr Seq No:	1563030
Other Const Type:		LL Lat Dd Amt:	44.9457
Category:		LL Long Dd Amt:	-90.9762
No Services:		Survey Range Dir:	W
Facility Type:		Well Name:	
High Pt Property:		Calc Specific Cap:	
In Floodplain:		Well Depth Amt:	43
Rotary Mud Circ:		Well Dep Amt Text:	43 FEET
Rotary Air:		Static Depth:	feet below ground surface
Rotary Foam:		Location Method:	Parcel centroid
Reverse Rotary:		Casing Depth Amt:	33
Cable Tool Bit:		Decade Complete:	2000-2009
Cable Bit Diameter:			
Owner:			
Owner Address:	7158 345TH ST		
Owner City:			
Owner State:			
Owner Zip:			
Constructor Name:	JESSE W BRUNNER		
Constructor Addr:			
Constructor City:			
Constructor State:			
Constructor Zip:			
Seal Description:			
Drilling Difficulty:			
Other Driller Comments:			
Water Quality Comments:			
Water Quantity			
Exception Area			
Comments:			

Well URL:

Well Constr Url:

https://dnr.wi.gov/WellConstructionSearch/ReportViewer.aspx? id=WellConstructionReport&download=false&WUWN=SX515

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
10	ESE	0.50	2,650.78	1,098.59	PRIVATE WW
WI Unique Well No:	MT24	18	Temp Outer Cas:		
High Cap Well No:			Temp Casing Diam:		
Hi Cap Well:			Temp Casing Rem:		
Hi Cap Property:			Why Not Removed:		
County Well Loc:			Other Drill Method:		
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		
Muni Type:			Screen Description:		
Tax Parcel No:			Casing Depth Amt:	31 FEET	
Well Complete Date	e: 08/11	/1998	Screen To:		
DNR Rec Date:			Sealant Method:		
Fire No:			Static Depth Amt:	13	
Subdivision:			Pumping Level:		
Lot:			Pumping At:		
Block:			Pumping Units:		
Government Parcel	:		For:		
Survey Township:	29		Well Start Depth:		
Survey Range:	5		Developed:		
Survey Section:	35		Disinfected:		
Q Section:	SW		Capped:		
QQ Section:	NE		Proper Seal:		
Well Status:	New	Well	Contractor Signed:		
Original Year:			Rig Oper Signed:		
Replace Reason:			Geologic Log No:		
Prev WI Well No:			Common Well No:		
Replace Well No:			DNR Facility ID:		
Well Const Type:			Watr Seq No:	695013	
Other Const Type:			LL Lat Dd Amt:		
Category:			LL Long Dd Amt:		
No Services:			Survey Range Dir:	W	
Facility Type:			Well Name:		
High Pt Property:			Calc Specific Cap:		
In Floodplain:			Well Depth Amt:	42	
Rotary Mud Circ:			Well Dep Amt Text:	42 FEET	
Rotary Air:			Static Depth:	feet below groun	d surface
Rotary Foam:			Location Method:	QQ section cent	oid
Reverse Rotary:			Casing Depth Amt:	31	
Cable Tool Bit:			Decade Complete:	1990-1999	
Cable Bit Diameter:	:				
Owner:					

Owner Address:	PO BOX 37
Owner City:	
Owner State:	
Owner Zip:	
Constructor Name:	WILLIAM D BRUNNER
Constructor Addr:	
Constructor City:	
Constructor State:	
Constructor Zip:	
Seal Description:	
Drilling Difficulty:	
Other Driller Comments:	
Water Quality Comments:	
Water Quantity Comments: Exception Area Comments: Well URL:	
Well Constr Url:	https://dnr.wi.gov/WellConstructionSearch/ReportViewer.aspx? id=WellConstructionReport&download=false&WUWN=MT248

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
11	E	0.55	2,919.43	1,085.07	PRIVATE WW
WI Unique Well No:	YY19	2	Temp Outer Cas:		
High Cap Well No:			Temp Casing Diam:		
Hi Cap Well:			Temp Casing Rem:		
Hi Cap Property:			Why Not Removed:		
County Well Loc:			Other Drill Method:		
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		
Muni Type:			Screen Description:		
Tax Parcel No:			Casing Depth Amt:	61 FEET	
Well Complete Date	: 10/31	/2017	Screen To:		
DNR Rec Date:			Sealant Method:		
Fire No:			Static Depth Amt:	12	
Subdivision:			Pumping Level:		
Lot:			Pumping At:		
Block:			Pumping Units:		
Government Parcel:			For:		
Survey Township:	29		Well Start Depth:		
Survey Range:	5		Developed:		
Survey Section:	35		Disinfected:		
Q Section:	NE		Capped:		
QQ Section:	SE		Proper Seal:		
Well Status:	New	Well	Contractor Signed:		
Original Year:			Rig Oper Signed:		
Replace Reason:			Geologic Log No:		

Prev WI Well No:		Common Well No:	
Replace Well No:		DNR Facility ID:	
Well Const Type:		Watr Seq No:	104141967
Other Const Type:		LL Lat Dd Amt:	44.9546
Category:		LL Long Dd Amt:	-90.9525
No Services:		Survey Range Dir:	W
Facility Type:		Well Name:	
High Pt Property:		Calc Specific Cap:	
In Floodplain:		Well Depth Amt:	145
Rotary Mud Circ:		Well Dep Amt Text:	145 FEET
Rotary Air:		Static Depth:	feet below ground surface
Rotary Foam:		Location Method:	Latitude and longitude
Reverse Rotary:		Casing Depth Amt:	61
Cable Tool Bit:		Decade Complete:	2010-2019
Cable Bit Diameter:			
Owner:			
Owner Address:	310 URQUART RD		
Owner City:			
Owner State:			
Owner Zip:			
Constructor Name:	MIDWEST HYDROFRACKING LLC		
Constructor Addr:			
Constructor City:			
Constructor State:			
Constructor Zip:			
Seal Description:			
Drilling Difficulty:			
Other Driller Comments:			
Water Quality Comments:			
Water Quantity Comments: Exception Area Comments: Well URL:	https://dnr.wi.gov/WellConstructionSe	arch/ReportViewer.aspx? =false&WUWN=YY192	
Well Constr Url:			

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
12	NW	0.53	2,814.04	1,145.61	PRIVATE WW
			Tomp Outor Coo.		
vvi Unique vveii No.	07232		Temp Outer Cas.		
High Cap Well No:			Temp Casing Diam:		
Hi Cap Well:		Temp Casing Rem:			
Hi Cap Property:			Why Not Removed:		
County Well Loc:			Other Drill Method:		
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		
Muni Type:			Screen Description:		

Tax Parcel No:		Casing Depth Amt:	48 FEET
Well Complete Date:	12/02/2013	Screen To:	
DNR Rec Date:		Sealant Method:	
Fire No:		Static Depth Amt:	50
Subdivision:		Pumping Level:	
Lot:		Pumping At:	
Block:		Pumping Units:	
Government Parcel:		For:	
Survey Township:	29	Well Start Depth:	
Survey Range:	5	Developed:	
Survey Section:	27	Disinfected:	
Q Section:	SW	Capped:	
QQ Section:	NE	Proper Seal:	
Well Status:	Replacement	Contractor Signed:	
Original Year:		Rig Oper Signed:	
Replace Reason:		Geologic Log No:	
Prev WI Well No:		Common Well No:	
Replace Well No:		DNR Facility ID:	
Well Const Type:		Watr Seg No:	53337089
Other Const Type:		LL Lat Dd Amt:	44.964
Category:		LL Long Dd Amt:	-90.9812
No Services:		Survey Range Dir:	W
Facility Type:		Well Name:	
High Pt Property:		Calc Specific Cap:	
In Floodplain:		Well Depth Amt:	70
Rotary Mud Circ:		Well Dep Amt Text:	70 FEET
Rotary Air:		Static Depth:	feet below ground surface
Rotary Foam:		Location Method:	Parcel centroid
Reverse Rotary:		Casing Depth Amt:	48
Cable Tool Bit:		Decade Complete:	2010-2019
Cable Bit Diameter			
Owner [.]			
Owner Address:	34111 CO RD O		
Owner City:			
Owner State:			
Owner Zip			
Constructor Name:	JOHN J HATFIELD		
Constructor Addr:			
Constructor City:			
Constructor State:			
Constructor Zip:			
Seal Description:			
Drilling Difficulty:			
Other Driller Comments:			
Water Quality Comments:			
Water Quantity			
Comments:			

Exception Area

Comments:

Well URL:

Well Constr Url:

https://dnr.wi.gov/WellConstructionSearch/ReportViewer.aspx? id=WellConstructionReport&download=false&WUWN=UX232

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
13	NW	0.54	2,877.03	1,145.75	PRIVATE WW
WI Unique Well No:	8B/	4169	Temp Outer Cas:		
High Cap Well No:			Temp Casing Diam:		
Hi Cap Well:			Temp Casing Rem:		
Hi Cap Property:			Why Not Removed:		
County Well Loc:			Other Drill Method:		
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		
Muni Type:			Screen Description:		
Tax Parcel No:			Casing Depth Amt:		
Well Complete Date	e:		Screen To:		
DNR Rec Date:			Sealant Method:		
Fire No:			Static Depth Amt:		
Subdivision:			Pumping Level:		
Lot:			Pumping At:		
Block:			Pumping Units:		
Government Parcel	:		For:		
Survey Township:	29		Well Start Depth:		
Survey Range:	5		Developed:		
Survey Section:	27		Disinfected:		
Q Section:	SM	1	Capped:		
QQ Section:	NW	1	Proper Seal:		
Well Status:			Contractor Signed:		
Original Year:			Rig Oper Signed:		
Replace Reason:			Geologic Log No:		
Prev WI Well No:			Common Well No:		
Replace Well No:			DNR Facility ID:		
Well Const Type:			Watr Seq No:	113775696	
Other Const Type:			LL Lat Dd Amt:		
Category:			LL Long Dd Amt:		
No Services:			Survey Range Dir:	W	
Facility Type:			Well Name:		
High Pt Property:			Calc Specific Cap:		
In Floodplain:			Well Depth Amt:		
Rotary Mud Circ:			Well Dep Amt Text:		
Rotary Air:			Static Depth:		
Rotary Foam:			Location Method:	QQ section centroi	d
Reverse Rotary:			Casing Depth Amt:		
Cable Tool Bit:			Decade Complete:		
Cable Bit Diameter:					

Owner:	
Owner Address:	
Owner City:	
Owner State:	
Owner Zip:	
Constructor Name:	
Constructor Addr:	
Constructor City:	
Constructor State:	
Constructor Zip:	
Seal Description:	
Drilling Difficulty:	
Other Driller Comments:	
Water Quality Comments:	
Water Quantity Comments: Exception Area Comments: Well URL:	
Well Constr Url:	https://dnr.wi.gov/WellConstructionSearch/ReportViewer.aspx? id=WellConstructionReport&download=false&WUWN=8BA169

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
14	N	0.63	3,333.50	1,136.61	PRIVATE WW
WI Unique Well No:	8B0	C448	Temp Outer Cas:		
High Cap Well No:			Temp Casing Diam:		
Hi Cap Well:			Temp Casing Rem:		
Hi Cap Property:			Why Not Removed:		
County Well Loc:			Other Drill Method:		
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		
Muni Type:			Screen Description:		
Tax Parcel No:			Casing Depth Amt:		
Well Complete Date	e:		Screen To:		
DNR Rec Date:			Sealant Method:		
Fire No:			Static Depth Amt:		
Subdivision:			Pumping Level:		
Lot:			Pumping At:		
Block:			Pumping Units:		
Government Parcel	:		For:		
Survey Township:	29		Well Start Depth:		
Survey Range:	5		Developed:		
Survey Section:	27		Disinfected:		
Q Section:	NE		Capped:		
QQ Section:	SW	,	Proper Seal:		
Well Status:			Contractor Signed:		
Original Year:			Rig Oper Signed:		

Man Kay Dirac	tion Distance (mi)	Distance (ft) El	evotion (ft)	
vveil Constr Url:	nttps://dnr.wi.gov/WellConstruction id=WellConstructionReport&downlo	Search/ReportViewer.aspx? ad=false&WUWN=8BC448		
Exception Area Comments: Well URL:				
Comments:				
Water Quality Comments:				
Other Driller Comments:				
Drilling Difficulty:				
Seal Description:				
Constructor Zip:				
Constructor State:				
Constructor City:				
Constructor Addr:				
Constructor Name:				
Owner Zip:				
Owner State:				
Owner City:				
Owner Address:				
Owner:				
Cable Bit Diameter:				
Cable Tool Bit:		Decade Complete:		
Reverse Rotary:		Casing Depth Amt:		
Rotary Foam:		Location Method:	QQ section centroid	
Rotary Air:		Static Depth:		
Rotary Mud Circ:		Well Dep Amt Text:		
In Floodplain:		Well Depth Amt:		
High Pt Property:		Calc Specific Cap:		
Facility Type:		Well Name:		
No Services:		Survey Range Dir:	W	
Category:		LL Long Dd Amt:		
Other Const Type:		LL Lat Dd Amt:		
Well Const Type:		Watr Seq No:	113777982	
Replace Well No:		DNR Facility ID:		
Prev WI Well No:		Common Well No:		
Replace Reason:		Geologic Log No:		

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
15	Ν	0.63	3,319.74	1,119.05	PRIVATE WW
WI Unique Well No: 8BA170		Temp Outer Cas:			
High Cap Well No:		Temp Casing Diam:			
Hi Cap Well:		Temp Casing Rem:			
Hi Cap Property:		Why Not Removed:			
County Well Loc:		Other Drill Method:			
DNR Region:			Other Drillin Desc:		
County:		Screen Diameter:			

Muni Type:		Screen Description:	
Tax Parcel No:		Casing Depth Amt:	
Well Complete Date:		Screen To:	
DNR Rec Date:		Sealant Method:	
Fire No:		Static Depth Amt:	
Subdivision:		Pumping Level:	
Lot:		Pumping At:	
Block:		Pumping Units:	
Government Parcel:		For:	
Survey Township:	29	Well Start Depth:	
Survey Range:	5	Developed:	
Survey Section:	27	Disinfected:	
Q Section:	NE	Capped:	
QQ Section:	SE	Proper Seal:	
Well Status:		Contractor Signed:	
Original Year:		Rig Oper Signed:	
Replace Reason:		Geologic Log No:	
Prev WI Well No:		Common Well No:	
Replace Well No:		DNR Facility ID:	
Well Const Type:		Watr Seg No:	113775697
Other Const Type:		LL Lat Dd Amt:	
Category:		LL Long Dd Amt:	
No Services:		Survey Range Dir:	W
Facility Type:		Well Name:	
High Pt Property:		Calc Specific Cap:	
In Floodplain:		Well Depth Amt:	
Rotary Mud Circ:		Well Dep Amt Text:	
Rotary Air:		Static Depth:	
Rotary Foam:		Location Method:	QQ section centroid
Reverse Rotary:		Casing Depth Amt:	
Cable Tool Bit:		Decade Complete:	
Cable Bit Diameter:		·	
Owner:			
Owner Address:			
Owner City:			
Owner State:			
Owner Zip:			
Constructor Name:			
Constructor Addr:			
Constructor City:			
Constructor State:			
Constructor Zip:			
Seal Description:			
Drilling Difficulty:			

Other Driller Comments: Water Quality Comments: Water Quantity

Comments:

67 erisinf
Exception Area Comments: Well URL:

Well Constr Url:

https://dnr.wi.gov/WellConstructionSearch/ReportViewer.aspx? id=WellConstructionReport&download=false&WUWN=8BA170

Мар Кеу	Directio	n Distance (mi)	Distance (ft)	Elevation (ft)	DB
16	NNE	0.62	3,295.69	1,098.56	PRIVATE WW
WI Unique Well No:	L	JX162	Temp Outer Cas:		
High Cap Well No:			Temp Casing Diam:		
Hi Cap Well:			Temp Casing Rem:		
Hi Cap Property:			Why Not Removed:		
County Well Loc:			Other Drill Method:		
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		
Muni Type:			Screen Description:		
Tax Parcel No:			Casing Depth Amt:	41.5 FEET	
Well Complete Date	e: 0	9/02/2010	Screen To:		
DNR Rec Date:			Sealant Method:		
Fire No:			Static Depth Amt:	24	
Subdivision:			Pumping Level:		
Lot:			Pumping At:		
Block:			Pumping Units:		
Government Parcel	:		For:		
Survey Township:	2	9	Well Start Depth:		
Survey Range:	5		Developed:		
Survey Section:	2	6	Disinfected:		
Q Section:	Ν	IW	Capped:		
QQ Section:	S	SW	Proper Seal:		
Well Status:	R	Replacement	Contractor Signed:		
Original Year:			Rig Oper Signed:		
Replace Reason:			Geologic Log No:		
Prev WI Well No:			Common Well No:		
Replace Well No:			DNR Facility ID:		
Well Const Type:			Watr Seq No:	5659691	
Other Const Type:			LL Lat Dd Amt:	44.9666	
Category:			LL Long Dd Amt:	-90.9595	
No Services:			Survey Range Dir:	W	
Facility Type:			Well Name:		
High Pt Property:			Calc Specific Cap:		
In Floodplain:			Well Depth Amt:	46	
Rotary Mud Circ:			Well Dep Amt Text:	46 FEET	
Rotary Air:			Static Depth:	feet below ground	surface
Rotary Foam:			Location Method:	Parcel centroid	
Reverse Rotary:			Casing Depth Amt:	41.5	
Cable Tool Bit:			Decade Complete:	2010-2019	
Cable Bit Diameter:					

Owner:	
Owner Address:	20298 CO RD H
Owner City:	
Owner State:	
Owner Zip:	
Constructor Name:	MIDWEST HYDROFRACKING LLC
Constructor Addr:	
Constructor City:	
Constructor State:	
Constructor Zip:	
Seal Description:	
Drilling Difficulty:	
Other Driller Comments:	
Water Quality Comments:	
Water Quantity Comments: Exception Area Comments: Well URL:	
Well Constr Url:	https://dnr.wi.gov/WellConstructionSearch/ReportViewer.aspx? id=WellConstructionReport&download=false&WUWN=UX162

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
17	SE	0.63	3,332.88	1,112.52	PRIVATE WW
WI Unique Well No:	: 8BA1	75	Temp Outer Cas:		
High Cap Well No:			Temp Casing Diam:		
Hi Cap Well:			Temp Casing Rem:		
Hi Cap Property:			Why Not Removed:		
County Well Loc:			Other Drill Method:		
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		
Muni Type:			Screen Description:		
Tax Parcel No:			Casing Depth Amt:		
Well Complete Date	e:		Screen To:		
DNR Rec Date:			Sealant Method:		
Fire No:			Static Depth Amt:		
Subdivision:			Pumping Level:		
Lot:			Pumping At:		
Block:			Pumping Units:		
Government Parcel	:		For:		
Survey Township:	29		Well Start Depth:		
Survey Range:	5		Developed:		
Survey Section:	35		Disinfected:		
Q Section:	SW		Capped:		
QQ Section:	SE		Proper Seal:		
Well Status:			Contractor Signed:		
Original Year:			Rig Oper Signed:		

Replace Reason:		Geologic Log No:	
Prev WI Well No:		Common Well No:	
Replace Well No:		DNR Facility ID:	
Well Const Type:		Watr Seq No:	113775702
Other Const Type:		LL Lat Dd Amt:	
Category:		LL Long Dd Amt:	
No Services:		Survey Range Dir:	W
Facility Type:		Well Name:	
High Pt Property:		Calc Specific Cap:	
In Floodplain:		Well Depth Amt:	
Rotary Mud Circ:		Well Dep Amt Text:	
Rotary Air:		Static Depth:	
Rotary Foam:		Location Method:	QQ section centroid
Reverse Rotary:		Casing Depth Amt:	
Cable Tool Bit:		Decade Complete:	
Cable Bit Diameter:			
Owner:			
Owner Address:			
Owner City:			
Owner State:			
Owner Zip:			
Constructor Name:			
Constructor Addr:			
Constructor City:			
Constructor State:			
Constructor Zip:			
Seal Description:			
Drilling Difficulty:			
Other Driller Comments:			
Water Quality Comments:			
Water Quantity Comments: Exception Area Comments:			
Well URL:	https://dnr.wi.gov/WellConstructionSe	arch/ReportViewer.aspx?	
Well Constr Url:		a=raise&vvuvviv=8BA175	

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
18	NNW	0.65	3,423.91	1,158.82	PRIVATE WW
WI Unique Well No:	SG663	3	Temp Outer Cas:		
High Cap Well No:		Temp Casing Diam:			
Hi Cap Well:		Temp Casing Rem:			
Hi Cap Property:		Why Not Removed:			
County Well Loc:	y Well Loc:		Other Drill Method:		
DNR Region:	Region:		Other Drillin Desc:		
County:		Screen Diameter:			

Muni Type:		Screen Description:	
Tax Parcel No:		Casing Depth Amt:	56 FEET
Well Complete Date:	06/27/2006	Screen To:	
DNR Rec Date:		Sealant Method:	
Fire No:		Static Depth Amt:	20
Subdivision:		Pumping Level:	
L ot:		Pumping At:	
Block [.]		Pumping Units:	
Government Parcel		For:	
Survey Townshin:	29	Well Start Depth:	
Survey Range:	5	Developed:	
Survey Range.	27	Developed.	
O Section:		Capped:	
		Capped.	
		Proper Seal.	
		Contractor Signed:	
Original Year:		Rig Oper Signed:	
Replace Reason:		Geologic Log No:	
Prev WI Well No:			
Replace Well No:		DNR Facility ID:	
Well Const Type:		Watr Seq No:	1653336
Other Const Type:		LL Lat Dd Amt:	
Category:		LL Long Dd Amt:	
No Services:		Survey Range Dir:	W
Facility Type:		Well Name:	
High Pt Property:		Calc Specific Cap:	
In Floodplain:		Well Depth Amt:	76
Rotary Mud Circ:		Well Dep Amt Text:	76 FEET
Rotary Air:		Static Depth:	feet below ground surface
Rotary Foam:		Location Method:	QQ section centroid
Reverse Rotary:		Casing Depth Amt:	56
Cable Tool Bit:		Decade Complete:	2000-2009
Cable Bit Diameter:			
Owner:			
Owner Address:	34452 CO TK O		
Owner City:			
Owner State:			
Owner Zip:			
Constructor Name:	JOHN J HATFIELD		
Constructor Addr:			
Constructor City:			
Constructor State:			
Constructor Zip:			
Seal Description:			
Drilling Difficulty:			
Other Driller Comments:			

Water Quantity

Water Quality Comments:

Exception Area Comments: Well URL:

Well Constr Url:

https://dnr.wi.gov/WellConstructionSearch/ReportViewer.aspx? id=WellConstructionReport&download=false&WUWN=SG663

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
18	NNW	0.65	3,423.91	1,158.82	PRIVATE WW
WI Unique Well No:	MK	033	Temp Outer Cas:		
High Cap Well No:			Temp Casing Diam:		
Hi Cap Well:			Temp Casing Rem:		
Hi Cap Property:			Why Not Removed:		
County Well Loc:			Other Drill Method:		
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		
Muni Type:			Screen Description:		
Tax Parcel No:			Casing Depth Amt:	52 FEET	
Well Complete Date	e: 09/	19/1997	Screen To:		
DNR Rec Date:			Sealant Method:		
Fire No:			Static Depth Amt:	40	
Subdivision:			Pumping Level:		
Lot:			Pumping At:		
Block:			Pumping Units:		
Government Parcel	:		For:		
Survey Township:	29		Well Start Depth:		
Survey Range:	5		Developed:		
Survey Section:	27		Disinfected:		
Q Section:	NW	1	Capped:		
QQ Section:	SE		Proper Seal:		
Well Status:	Nev	w Well	Contractor Signed:		
Original Year:			Rig Oper Signed:		
Replace Reason:			Geologic Log No:		
Prev WI Well No:			Common Well No:		
Replace Well No:			DNR Facility ID:		
Well Const Type:			Watr Seq No:	690451	
Other Const Type:			LL Lat Dd Amt:		
Category:			LL Long Dd Amt:		
No Services:			Survey Range Dir:	W	
Facility Type:			Well Name:		
High Pt Property:			Calc Specific Cap:		
In Floodplain:			Well Depth Amt:	83	
Rotary Mud Circ:			Well Dep Amt Text:	83 FEET	
Rotary Air:			Static Depth:	feet below ground	surface
Rotary Foam:			Location Method:	QQ section centroi	d
Reverse Rotary:			Casing Depth Amt:	52	
Cable Tool Bit:			Decade Complete:	1990-1999	
Cable Bit Diameter:					

72

Owner:	
Owner Address:	34452 CO HWY O
Owner City:	
Owner State:	
Owner Zip:	
Constructor Name:	JOHN J HATFIELD
Constructor Addr:	
Constructor City:	
Constructor State:	
Constructor Zip:	
Seal Description:	
Drilling Difficulty:	
Other Driller Comments:	
Water Quality Comments:	
Water Quantity Comments: Exception Area Comments: Well URL:	
Well Constr Url:	https://dnr.wi.gov/WellConstructionSearch/ReportViewer.aspx? id=WellConstructionReport&download=false&WUWN=MK033

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
19	SSW	0.70	3,693.60	1,085.91	PRIVATE WW
WI Unique Well No:	KZ72	3	Temp Outer Cas:		
High Cap Well No:			Temp Casing Diam:		
Hi Cap Well:			Temp Casing Rem:		
Hi Cap Property:			Why Not Removed:		
County Well Loc:			Other Drill Method:		
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		
Muni Type:			Screen Description:		
Tax Parcel No:			Casing Depth Amt:	32 FEET	
Well Complete Date	e: 07/16	6/1997	Screen To:		
DNR Rec Date:			Sealant Method:		
Fire No:			Static Depth Amt:	18	
Subdivision:			Pumping Level:		
Lot:			Pumping At:		
Block:			Pumping Units:		
Government Parcel	:		For:		
Survey Township:	28		Well Start Depth:		
Survey Range:	5		Developed:		
Survey Section:	3		Disinfected:		
Q Section:	NW		Capped:		
QQ Section:	NE		Proper Seal:		
Well Status:	New	Well	Contractor Signed:		
Original Year:			Rig Oper Signed:		

73

Replace Reason: Prev WI Well No: Replace Well No:		Geologic Log No: Common Well No: DNR Facility ID:	
Well Const Type:		Watr Seg No:	666790
Other Const Type:		LL Lat Dd Amt:	
Category:		LL Long Dd Amt:	
No Services:		Survey Range Dir:	W
Facility Type:		Well Name:	
High Pt Property:		Calc Specific Cap:	
In Floodplain:		Well Depth Amt:	53
Rotary Mud Circ:		Well Dep Amt Text:	53 FEET
Rotary Air:		Static Depth:	feet below ground surface
Rotary Foam:		Location Method:	QQ section centroid
Reverse Rotary:		Casing Depth Amt:	32
Cable Tool Bit:		Decade Complete:	1990-1999
Cable Bit Diameter:			
Owner:			
Owner Address:	CTY TRK X		
Owner City:			
Owner State:			
Owner Zip:			
Constructor Name:	JOHN J HATFIELD		
Constructor Addr:			
Constructor City:			
Constructor State:			
Constructor Zip:			
Seal Description:			
Drilling Difficulty:			
Other Driller Comments:			
Water Quality Comments:			
Water Quantity Comments: Exception Area Comments: Well URL:			
Well Constr Url:	https://dnr.wi.gov/WellConstructionSe id=WellConstructionReport&download	arch/ReportViewer.aspx? d=false&WUWN=KZ723	

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
20	ESE	0.74	3,920.10	1,087.58	PRIVATE WW
		4	Tama Outon Case		
vvi Unique vveii ivo:	8BC46	1	Temp Outer Cas:		
High Cap Well No:			Temp Casing Diam:		
Hi Cap Well:			Temp Casing Rem:		
Hi Cap Property:	Hi Cap Property:		Why Not Removed:		
County Well Loc:		Other Drill Method:			
DNR Region:		Other Drillin Desc:			
County:		Screen Diameter:			

Muni Type:		Screen Description:	
Tax Parcel No:		Casing Depth Amt:	
Well Complete Date:		Screen To:	
DNR Rec Date:		Sealant Method:	
Fire No:		Static Depth Amt:	
Subdivision:		Pumping Level:	
Lot:		Pumping At:	
Block:		Pumping Units:	
Government Parcel:		For:	
Survey Township:	29	Well Start Depth:	
Survey Range:	5	Developed:	
Survey Section:	35	Disinfected:	
Q Section:	SE	Capped:	
QQ Section:	NW	Proper Seal:	
Well Status:		Contractor Signed:	
Original Year:		Rig Oper Signed:	
Replace Reason:		Geologic Log No:	
Prev WI Well No:		Common Well No:	
Replace Well No:		DNR Facility ID:	
Well Const Type:		Watr Seq No:	113777995
Other Const Type:		LL Lat Dd Amt:	
Category:		LL Long Dd Amt:	
No Services:		Survey Range Dir:	W
Facility Type:		Well Name:	
High Pt Property:		Calc Specific Cap:	
In Floodplain:		Well Depth Amt:	
Rotary Mud Circ:		Well Dep Amt Text:	
Rotary Air:		Static Depth:	
Rotary Foam:		Location Method:	QQ section centroid
Reverse Rotary:		Casing Depth Amt:	
Cable Tool Bit:		Decade Complete:	
Cable Bit Diameter:			
Owner:			
Owner Address:			
Owner City:			
Owner State:			
Owner Zip:			
Constructor Name:			
Constructor Addr:			
Constructor City:			
Constructor State:			
Constructor Zip:			
Seal Description:			
Drilling Difficulty:			

Water Quantity Comments:

Other Driller Comments: Water Quality Comments:

Exception Area Comments: Well URL:

Well Constr Url:

https://dnr.wi.gov/WellConstructionSearch/ReportViewer.aspx? id=WellConstructionReport&download=false&WUWN=8BC461

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	NW	0.75	3,936.40	1,138.06	PRIVATE WW
WI Unique Well No:	UV	/609	Temp Outer Cas:		
High Cap Well No:			Temp Casing Diam:		
Hi Cap Well:			Temp Casing Rem:		
Hi Cap Property:			Why Not Removed:		
County Well Loc:			Other Drill Method:		
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		
Muni Type:			Screen Description:		
Tax Parcel No:			Casing Depth Amt:	43 FEET	
Well Complete Date	e: 12	/14/2006	Screen To:		
DNR Rec Date:			Sealant Method:		
Fire No:			Static Depth Amt:	51	
Subdivision:			Pumping Level:		
Lot:			Pumping At:		
Block:			Pumping Units:		
Government Parcel	:		For:		
Survey Township:	29		Well Start Depth:		
Survey Range:	5		Developed:		
Survey Section:	27		Disinfected:		
Q Section:	NV	V	Capped:		
QQ Section:	SV	V	Proper Seal:		
Well Status:	Re	eplacement	Contractor Signed:		
Original Year:			Rig Oper Signed:		
Replace Reason:			Geologic Log No:		
Prev WI Well No:			Common Well No:		
Replace Well No:			DNR Facility ID:		
Well Const Type:			Watr Seq No:	1833295	
Other Const Type:			LL Lat Dd Amt:		
Category:			LL Long Dd Amt:		
No Services:			Survey Range Dir:	W	
Facility Type:			Well Name:		
High Pt Property:			Calc Specific Cap:		
In Floodplain:			Well Depth Amt:	80	
Rotary Mud Circ:			Well Dep Amt Text:	80 FEET	
Rotary Air:			Static Depth:	feet below grour	id surface
Rotary Foam:			Location Method:	QQ section cent	roid
Reverse Rotary:			Casing Depth Amt:	43	
Cable Tool Bit:			Decade Complete:	2000-2009	
Cable Bit Diameter:					

76 erisinfo.com

Owner:	
Owner Address:	8521 CO HWY G
Owner City:	
Owner State:	
Owner Zip:	
Constructor Name:	PEAK WELL DRILLING LLC
Constructor Addr:	
Constructor City:	
Constructor State:	
Constructor Zip:	
Seal Description:	
Drilling Difficulty:	
Other Driller Comments:	
Water Quality Comments:	
Water Quantity Comments: Exception Area Comments:	
Well URL:	https://dnr.wi.gov/WellConstructionSearch/ReportViewer.aspx? id=WellConstructionReport&download=false&WUWN=UV609
Well Constr Url:	

Map Kev	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
				()	
24	SW	0.77	4,074.45	1,122.78	PRIVATE WW
WI Unique Well No:	ZX23	8	Temp Outer Cas:		
High Cap Well No:			Temp Casing Diam:		
Hi Cap Well:			Temp Casing Rem:		
Hi Cap Property:			Why Not Removed:		
County Well Loc:			Other Drill Method:		
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		
Muni Type:			Screen Description:		
Tax Parcel No:			Casing Depth Amt:	46 FEET	
Well Complete Date	e: 07/27	/2019	Screen To:		
DNR Rec Date:			Sealant Method:		
Fire No:			Static Depth Amt:	24	
Subdivision:			Pumping Level:		
Lot:			Pumping At:		
Block:			Pumping Units:		
Government Parcel	:		For:		
Survey Township:	28		Well Start Depth:		
Survey Range:	5		Developed:		
Survey Section:	3		Disinfected:		
Q Section:	NW		Capped:		
QQ Section:	NW		Proper Seal:		
Well Status:	Repla	acement	Contractor Signed:		
Original Year:			Rig Oper Signed:		

77

Replace Reason: Prev WI Well No: Replace Well No:		Geologic Log No: Common Well No: DNR Facility ID:	
Well Const Type:		Watr Seq No:	113700480
Other Const Type:		LL Lat Dd Amt:	44.9439
Category:		LL Long Dd Amt:	-90.9834
No Services:		Survey Range Dir:	W
Facility Type:		Well Name:	
High Pt Property:		Calc Specific Cap:	
In Floodplain:		Well Depth Amt:	63
Rotary Mud Circ:		Well Dep Amt Text:	63 FEET
Rotary Air:		Static Depth:	feet below ground surface
Rotary Foam:		Location Method:	Latitude and longitude
Reverse Rotary:		Casing Depth Amt:	46
Cable Tool Bit:		Decade Complete:	2010-2019
Cable Bit Diameter:			
Owner:			
Owner Address:	34027 COUNTY HWY X		
Owner City:			
Owner State:			
Owner Zip:			
Constructor Name:	MIDWEST HYDROFRACKING LLC		
Constructor Addr:			
Constructor City:			
Constructor State:			
Constructor Zip:			
Seal Description:			
Drilling Difficulty:			
Other Driller Comments:			
Water Quality Comments:			
Water Quantity Comments: Exception Area Comments:			
Well URL:	https://dnr.wi.gov/WellConstructionSe	arch/ReportViewer.aspx?	
Well Constr Url:		J=IAISEQVVUVVIN=ZAZ30	

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
25	NE	0.78	4,120.07	1,090.00	PRIVATE WW
WI Unique Well No: High Cap Well No: Hi Cap Well: Hi Cap Property: County Well Loc: DNR Region:	WR569	9	Temp Outer Cas: Temp Casing Diam: Temp Casing Rem: Why Not Removed: Other Drill Method: Other Drillin Desc:		
County:			Screen Diameter:		

Muni Type:		Screen Description:	
Tax Parcel No:		Casing Depth Amt:	39 FEET
Well Complete Date:	09/15/2001	Screen To:	
DNR Rec Date:		Sealant Method:	
Fire No:		Static Depth Amt:	8
Subdivision:		Pumping Level:	·
L ot:		Pumping At	
Block:		Pumping Units:	
Government Parcel		For:	
Survey Townshin	29	Well Start Depth	
Survey Range:	5	Developed:	
Survey Section:	26	Disinfected:	
O Section:	20	Canned:	
Q Section:		Dropor Sool:	
Woll Status:	Now Woll	Contractor Signod:	
		Dia Oper Signadu	
Diginal Year.		Rig Oper Signed.	
		DNR Facility ID:	00004000
well Const Type:		Watr Seq No:	33934228
Other Const Type:		LL Lat Dd Amt:	
Category:		LL Long Dd Amt:	
No Services:		Survey Range Dir:	W
Facility Type:		Well Name:	
High Pt Property:		Calc Specific Cap:	
In Floodplain:		Well Depth Amt:	60
Rotary Mud Circ:		Well Dep Amt Text:	60 FEET
Rotary Air:		Static Depth:	feet below ground surface
Rotary Foam:		Location Method:	Section centroid
Reverse Rotary:		Casing Depth Amt:	39
Cable Tool Bit:		Decade Complete:	2000-2009
Cable Bit Diameter:			
Owner:			
Owner Address:	116 3RD AVE		
Owner City:			
Owner State:			
Owner Zip:			
Constructor Name:	WILLIAM D BRUNNER		
Constructor Addr:			
Constructor City:			
Constructor State:			
Constructor Zip:			
Seal Description:			
Drilling Difficulty:			
Other Driller Comments:			

79

Water Quality Comments:

Exception Area Comments: Well URL:

Well Constr Url:

https://dnr.wi.gov/WellConstructionSearch/ReportViewer.aspx? id=WellConstructionReport&download=false&WUWN=WR569

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
25	NE	0.78	4,120.07	1,090.00	PRIVATE WW
WI Unique Well No:	8BC4	41	Temp Outer Cas:		
High Cap Well No:			Temp Casing Diam:		
Hi Cap Well:			Temp Casing Rem:		
Hi Cap Property:			Why Not Removed:		
County Well Loc:			Other Drill Method:		
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		
Muni Type:			Screen Description:		
Tax Parcel No:			Casing Depth Amt:		
Well Complete Date	e :		Screen To:		
DNR Rec Date:			Sealant Method:		
Fire No:			Static Depth Amt:		
Subdivision:			Pumping Level:		
Lot:			Pumping At:		
Block:			Pumping Units:		
Government Parcel	:		For:		
Survey Township:	29		Well Start Depth:		
Survey Range:	5		Developed:		
Survey Section:	26		Disinfected:		
Q Section:			Capped:		
QQ Section:			Proper Seal:		
Well Status:			Contractor Signed:		
Original Year:			Rig Oper Signed:		
Replace Reason:			Geologic Log No:		
Prev WI Well No:			Common Well No:		
Replace Well No:			DNR Facility ID:		
Well Const Type:			Watr Seq No:	113777975	
Other Const Type:			LL Lat Dd Amt:		
Category:			LL Long Dd Amt:		
No Services:			Survey Range Dir:	W	
Facility Type:			Well Name:		
High Pt Property:			Calc Specific Cap:		
In Floodplain:			Well Depth Amt:		
Rotary Mud Circ:			Well Dep Amt Text:		
Rotary Air:			Static Depth:		
Rotary Foam:			Location Method:	Section centroid	
Reverse Rotary:			Casing Depth Amt:		
Cable Tool Bit:			Decade Complete:		
Cable Bit Diameter:					

Owner:	
Owner Address:	
Owner City:	
Owner State:	
Owner Zip:	
Constructor Name:	
Constructor Addr:	
Constructor City:	
Constructor State:	
Constructor Zip:	
Seal Description:	
Drilling Difficulty:	
Other Driller Comments:	
Water Quality Comments:	
Water Quantity Comments: Exception Area Comments: Well URL:	
Well Constr Url:	https://dnr.wi.gov/WellConstructionSearch/ReportViewer.aspx? id=WellConstructionReport&download=false&WUWN=8BC441

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
25	NE	0.78	4,120.07	1,090.00	PRIVATE WW
WI Unique Well No:	WR	566	Temp Outer Cas:		
High Cap Well No:			Temp Casing Diam:		
Hi Cap Well:			Temp Casing Rem:		
Hi Cap Property:			Why Not Removed:		
County Well Loc:			Other Drill Method:		
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		
Muni Type:			Screen Description:		
Tax Parcel No:			Casing Depth Amt:	37 FEET	
Well Complete Date	e: 09/0	02/2001	Screen To:		
DNR Rec Date:			Sealant Method:		
Fire No:			Static Depth Amt:	7	
Subdivision:			Pumping Level:		
Lot:			Pumping At:		
Block:			Pumping Units:		
Government Parcel	:		For:		
Survey Township:	29		Well Start Depth:		
Survey Range:	5		Developed:		
Survey Section:	26		Disinfected:		
Q Section:			Capped:		
QQ Section:			Proper Seal:		
Well Status:	Nev	v Well	Contractor Signed:		
Original Year:			Rig Oper Signed:		

Replace Reason: Prev WI Well No: Replace Well No:		Geologic Log No: Common Well No: DNR Facility ID:	
Well Const Type:		Watr Seq No:	33934227
Other Const Type:		LL Lat Dd Amt:	
Category:		LL Long Dd Amt:	
No Services:		Survey Range Dir:	W
Facility Type:		Well Name:	
High Pt Property:		Calc Specific Cap:	
In Floodplain:		Well Depth Amt:	60
Rotary Mud Circ:		Well Dep Amt Text:	60 FEET
Rotary Air:		Static Depth:	feet above ground surface
Rotary Foam:		Location Method:	Section centroid
Reverse Rotary:		Casing Depth Amt:	37
Cable Tool Bit:		Decade Complete:	2000-2009
Cable Bit Diameter:			
Owner:			
Owner Address:	116 3RD AVE		
Owner City:			
Owner State:			
Owner Zip:			
Constructor Name:	WILLIAM D BRUNNER		
Constructor Addr:			
Constructor City:			
Constructor State:			
Constructor Zip:			
Seal Description:			
Drilling Difficulty:			
Other Driller Comments:			
Water Quality Comments:			
Water Quantity Comments: Exception Area Comments: Well URL:			
Well Constr Url:	https://dnr.wi.gov/WellConstructionSe id=WellConstructionReport&download	arch/ReportViewer.aspx? I=false&WUWN=WR566	

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
25	NE	0.78	4,120.07	1,090.00	PRIVATE WW
WI Unique Well No: High Cap Well No: Hi Cap Well: Hi Cap Property: County Well Loc: DNR Region:	XB124		Temp Outer Cas: Temp Casing Diam: Temp Casing Rem: Why Not Removed: Other Drill Method: Other Drillin Desc:		
County:			Screen Diameter:		

		Saraan Deparintion:	
Tax Parcel No:		Casing Depth Amt:	
Well Complete Date:	07/08/2013	Screen To:	411 221
DNP Roc Date:	07/00/2013	Scieen TO.	
Eiro No:		Static Dopth Amt	0
File NU.		Static Depth Anti.	9
		Pumping Level.	
LUI.		Pumping Al.	
Government Parcel:	22	For:	
Survey Township:	-	vvell Start Depth:	
Survey Range:	5	Developed:	
Survey Section:	26	Disinfected:	
Q Section:		Capped:	
QQ Section:		Proper Seal:	
Well Status:	Reconstruction	Contractor Signed:	
Original Year:		Rig Oper Signed:	
Replace Reason:		Geologic Log No:	
Prev WI Well No:		Common Well No:	
Replace Well No:		DNR Facility ID:	
Well Const Type:		Watr Seq No:	41138722
Other Const Type:		LL Lat Dd Amt:	
Category:		LL Long Dd Amt:	
No Services:		Survey Range Dir:	W
Facility Type:		Well Name:	
High Pt Property:		Calc Specific Cap:	
In Floodplain:		Well Depth Amt:	60
Rotary Mud Circ:		Well Dep Amt Text:	60 FEET
Rotary Air:		Static Depth:	feet below ground surface
Rotary Foam:		Location Method:	Section centroid
Reverse Rotary:		Casing Depth Amt:	41
Cable Tool Bit:		Decade Complete:	2010-2019
Cable Bit Diameter:			
Owner:			
Owner Address:	116 3RD AVE		
Owner City:			
Owner State			
Owner Zin [.]			
Constructor Name			
Constructor Addr:			
Constructor City:			
Constructor City.			
Constructor State.			
Constructor Zip:			
Other Driller Comments:			

Water Quality Comments: Water Quantity Comments:

Exception Area Comments: Well URL:

Well Constr Url:

https://dnr.wi.gov/WellConstructionSearch/ReportViewer.aspx? id=WellConstructionReport&download=false&WUWN=XB124

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
25	NE	0.78	4,120.07	1,090.00	PRIVATE WW
WI Unique Well No:	QM	1019	Temp Outer Cas:		
High Cap Well No:			Temp Casing Diam:		
Hi Cap Well:			Temp Casing Rem:		
Hi Cap Property:			Why Not Removed:		
County Well Loc:			Other Drill Method:		
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		
Muni Type:			Screen Description:		
Tax Parcel No:			Casing Depth Amt:	39 FEET	
Well Complete Date	e: 01/	16/2002	Screen To:		
DNR Rec Date:			Sealant Method:		
Fire No:			Static Depth Amt:	3	
Subdivision:			Pumping Level:		
Lot:			Pumping At:		
Block:			Pumping Units:		
Government Parcel	:		For:		
Survey Township:	29		Well Start Depth:		
Survey Range:	5		Developed:		
Survey Section:	26		Disinfected:		
Q Section:			Capped:		
QQ Section:			Proper Seal:		
Well Status:	Nev	w Well	Contractor Signed:		
Original Year:			Rig Oper Signed:		
Replace Reason:			Geologic Log No:		
Prev WI Well No:			Common Well No:		
Replace Well No:			DNR Facility ID:		
Well Const Type:			Watr Seq No:	1513777	
Other Const Type:			LL Lat Dd Amt:		
Category:			LL Long Dd Amt:		
No Services:			Survey Range Dir:	W	
Facility Type:			Well Name:		
High Pt Property:			Calc Specific Cap:		
In Floodplain:			Well Depth Amt:	63	
Rotary Mud Circ:			Well Dep Amt Text:	63 FEET	
Rotary Air:			Static Depth:	feet below ground	surface
Rotary Foam:			Location Method:	Section centroid	
Reverse Rotary:			Casing Depth Amt:	39	
Cable Tool Bit:			Decade Complete:	2000-2009	
Cable Bit Diameter:					

Owner:	
Owner Address:	116 3RD AVE
Owner City:	
Owner State:	
Owner Zip:	
Constructor Name:	WILLIAM D BRUNNER
Constructor Addr:	
Constructor City:	
Constructor State:	
Constructor Zip:	
Seal Description:	
Drilling Difficulty:	
Other Driller Comments:	
Water Quality Comments:	
Water Quantity Comments: Exception Area Comments: Well URL:	
Well Constr Url:	https://dnr.wi.gov/WellConstructionSearch/ReportViewer.aspx? id=WellConstructionReport&download=false&WUWN=QM019

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
25	NE	0.78	4,120.07	1,090.00	PRIVATE WW
WI Unique Well No:	QZ4	38	Temp Outer Cas:		
High Cap Well No:			Temp Casing Diam:		
Hi Cap Well:			Temp Casing Rem:		
Hi Cap Property:			Why Not Removed:		
County Well Loc:			Other Drill Method:		
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		
Muni Type:			Screen Description:		
Tax Parcel No:			Casing Depth Amt:	43 FEET	
Well Complete Date	e: 11/1	2/2002	Screen To:		
DNR Rec Date:			Sealant Method:		
Fire No:			Static Depth Amt:	8	
Subdivision:			Pumping Level:		
Lot:			Pumping At:		
Block:			Pumping Units:		
Government Parcel	:		For:		
Survey Township:	29		Well Start Depth:		
Survey Range:	5		Developed:		
Survey Section:	26		Disinfected:		
Q Section:			Capped:		
QQ Section:			Proper Seal:		
Well Status:	New	Well	Contractor Signed:		
Original Year:			Rig Oper Signed:		

Replace Reason: Prev WI Well No: Replace Well No:		Geologic Log No: Common Well No:	
Well Const Type:		Watr Seg No:	1513701
Other Const Type:		I Lat Dd Amt	1010/01
Category:		LL Long Dd Amt	
No Services:		Survey Range Dir:	W
Facility Type:		Well Name	
High Pt Property:		Calc Specific Cap:	
In Floodplain:		Well Depth Amt:	58.5
Rotary Mud Circ:		Well Dep Amt Text:	58.5 FEET
Rotary Air:		Static Depth:	feet below ground surface
Rotary Foam:		Location Method:	Section centroid
Reverse Rotary:		Casing Depth Amt:	43
Cable Tool Bit:		Decade Complete:	2000-2009
Cable Bit Diameter:			
Owner:			
Owner Address:	116 3RD AVE		
Owner City:			
Owner State:			
Owner Zip:			
Constructor Name:	WILLIAM D BRUNNER		
Constructor Addr:			
Constructor City:			
Constructor State:			
Constructor Zip:			
Seal Description:			
Drilling Difficulty:			
Other Driller Comments:			
Water Quality Comments:			
Water Quantity Comments: Exception Area Comments: Well URL:			
Well Constr Url:	https://dnr.wi.gov/WellConstructionSe id=WellConstructionReport&download	arch/ReportViewer.aspx? J=false&WUWN=QZ438	

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
25	NE	0.78	4,120.07	1,090.00	PRIVATE WW
WI Unique Well No:	WS645	5	Temp Outer Cas:		
High Cap Well No:			Temp Casing Diam:		
Hi Cap Well:			Temp Casing Rem:		
Hi Cap Property:			Why Not Removed:		
County Well Loc:			Other Drill Method:		
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		
•					

Muni Type:		Screen Description:	
Tax Parcel No:		Casing Depth Amt:	47 FEET
Well Complete Date:	03/13/2012	Screen To:	
DNR Rec Date:		Sealant Method:	
Fire No:		Static Depth Amt:	13
Subdivision:		Pumping Level:	
Lot:		Pumping At:	
Block:		Pumping Units:	
Government Parcel:		For:	
Survey Township:	29	Well Start Depth:	
Survey Range:	5	Developed:	
Survey Section:	26	Disinfected:	
Q Section:		Capped:	
QQ Section:		Proper Seal:	
Well Status:	New Well	Contractor Signed:	
Original Year:		Rig Oper Signed:	
Replace Reason:		Geologic Log No:	
Prev WI Well No:		Common Well No:	
Replace Well No:		DNR Facility ID:	
Well Const Type:		Watr Seg No:	23750153
Other Const Type:		LL Lat Dd Amt:	
Category:		LL Long Dd Amt:	
No Services		Survey Range Dir	W
Facility Type		Well Name	
High Pt Property:		Calc Specific Cap	
In Floodolain:		Well Depth Amt:	95
Rotary Mud Circ:		Well Dep Amt Text:	05 FEET
Rotary Air:		Static Depth:	feet below around surface
Rotary Foom:		Location Mothod:	Section controid
Rolary Foant.		Cosing Dopth Amt	
Cable Teel Dit		Casing Depth Anti.	47
Cable Tool Bit.		Decade Complete.	2010-2019
Owner.			
Owner Address:	116 3RD AVE		
Owner City:			
Owner State:			
Owner Zip:			
Constructor Name:	JESSE W BRUNNER		
Constructor Addr:			
Constructor City:			
Constructor State:			
Constructor Zip:			
Seal Description:			
Drilling Difficulty:			
Other Driller Comments:			

Water Quality Comments: Water Quantity

Comments:

Exception Area Comments: Well URL:

Well Constr Url:

https://dnr.wi.gov/WellConstructionSearch/ReportViewer.aspx? id=WellConstructionReport&download=false&WUWN=WS645

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
25	NE	0.78	4,120.07	1,090.00	PRIVATE WW
WI Unique Well No:	8BC44	40	Temp Outer Cas:		
High Cap Well No:			Temp Casing Diam:		
Hi Cap Well:			Temp Casing Rem:		
Hi Cap Property:			Why Not Removed:		
County Well Loc:			Other Drill Method:		
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		
Muni Type:			Screen Description:		
Tax Parcel No:			Casing Depth Amt:		
Well Complete Date	e:		Screen To:		
DNR Rec Date:			Sealant Method:		
Fire No:			Static Depth Amt:		
Subdivision:			Pumping Level:		
Lot:			Pumping At:		
Block:			Pumping Units:		
Government Parcel	:		For:		
Survey Township:	29		Well Start Depth:		
Survey Range:	5		Developed:		
Survey Section:	26		Disinfected:		
Q Section:			Capped:		
QQ Section:			Proper Seal:		
Well Status:			Contractor Signed:		
Original Year:			Rig Oper Signed:		
Replace Reason:			Geologic Log No:		
Prev WI Well No:			Common Well No:		
Replace Well No:			DNR Facility ID:		
Well Const Type:			Watr Seq No:	113777974	
Other Const Type:			LL Lat Dd Amt:		
Category:			LL Long Dd Amt:		
No Services:			Survey Range Dir:	W	
Facility Type:			Well Name:		
High Pt Property:			Calc Specific Cap:		
In Floodplain:			Well Depth Amt:		
Rotary Mud Circ:			Well Dep Amt Text:		
Rotary Air:			Static Depth:		
Rotary Foam:			Location Method:	Section centroid	
Reverse Rotary:			Casing Depth Amt:		
Cable Tool Bit:			Decade Complete:		
Cable Bit Diameter:					

Owner:	
Owner Address:	
Owner City:	
Owner State:	
Owner Zip:	
Constructor Name:	
Constructor Addr:	
Constructor City:	
Constructor State:	
Constructor Zip:	
Seal Description:	
Drilling Difficulty:	
Other Driller Comments:	
Water Quality Comments:	
Water Quantity Comments: Exception Area Comments: Well URL:	
Well Constr Url:	https://dnr.wi.gov/WellConstructionSearch/ReportViewer.aspx? id=WellConstructionReport&download=false&WUWN=8BC440

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
25	NE	0.78	4,120.07	1,090.00	PRIVATE WW
WI Unique Well No:	QM	040	Temp Outer Cas:		
High Cap Well No:			Temp Casing Diam:		
Hi Cap Well:			Temp Casing Rem:		
Hi Cap Property:			Why Not Removed:		
County Well Loc:			Other Drill Method:		
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		
Muni Type:			Screen Description:		
Tax Parcel No:			Casing Depth Amt:	45 FEET	
Well Complete Date	e: 01/2	29/2002	Screen To:		
DNR Rec Date:			Sealant Method:		
Fire No:			Static Depth Amt:	8	
Subdivision:			Pumping Level:		
Lot:			Pumping At:		
Block:			Pumping Units:		
Government Parcel	:		For:		
Survey Township:	29		Well Start Depth:		
Survey Range:	5		Developed:		
Survey Section:	26		Disinfected:		
Q Section:			Capped:		
QQ Section:			Proper Seal:		
Well Status:	Nev	w Well	Contractor Signed:		
Original Year:			Rig Oper Signed:		

Replace Reason: Prev WI Well No: Replace Well No:		Geologic Log No: Common Well No: DNR Facility ID:	
Well Const Type:		Watr Seq No:	1513778
Other Const Type:		LL Lat Dd Amt:	
Category:		LL Long Dd Amt:	
No Services:		Survey Range Dir:	W
Facility Type:		Well Name:	
High Pt Property:		Calc Specific Cap:	
In Floodplain:		Well Depth Amt:	64.5
Rotary Mud Circ:		Well Dep Amt Text:	64.5 FEET
Rotary Air:		Static Depth:	feet below ground surface
Rotary Foam:		Location Method:	Section centroid
Reverse Rotary:		Casing Depth Amt:	45
Cable Tool Bit:		Decade Complete:	2000-2009
Cable Bit Diameter:			
Owner:			
Owner Address:	116 3RD AVE		
Owner City:			
Owner State:			
Owner Zip:			
Constructor Name:	WILLIAM D BRUNNER		
Constructor Addr:			
Constructor City:			
Constructor State:			
Constructor Zip:			
Seal Description:			
Drilling Difficulty:			
Other Driller Comments:			
Water Quality Comments:			
Water Quantity Comments: Exception Area Comments: Well URL:			
Well Constr Url:	https://dnr.wi.gov/WellConstructionSe id=WellConstructionReport&download	arch/ReportViewer.aspx? J=false&WUWN=QM040	

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
25	NE	0.78	4,120.07	1,090.00	PRIVATE WW
WI Unique Well No:	WR56	5	Temp Outer Cas:		
High Cap Well No:			Temp Casing Diam:		
Hi Cap Well:			Temp Casing Rem:		
Hi Cap Property:			Why Not Removed:		
County Well Loc:			Other Drill Method:		
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		

Muni Type:		Screen Description:	
Tax Parcel No [.]		Casing Depth Amt:	40 FEET
Well Complete Date:	08/20/2001	Screen To	
DNR Rec Date:	00,20,2001	Sealant Method:	
Fire No:		Static Depth Amt	16
Subdivision:		Pumping Level:	10
Lot:			
Block:		Pumping Linite:	
Government Parcel:		For:	
Survey Township:	20	Noll Start Dopth:	
Survey Township.	29	Neil Start Depth.	
Survey Range.	5	Developed.	
Survey Section.	20	Disiniected.	
Q Section:		Capped:	
QQ Section:		Proper Seal:	
Well Status:	New Well	Contractor Signed:	
Original Year:		Rig Oper Signed:	
Replace Reason:		Geologic Log No:	
Prev WI Well No:		Common Well No:	
Replace Well No:		DNR Facility ID:	
Well Const Type:		Watr Seq No:	33934226
Other Const Type:		LL Lat Dd Amt:	
Category:		LL Long Dd Amt:	
No Services:		Survey Range Dir:	W
Facility Type:		Well Name:	
High Pt Property:		Calc Specific Cap:	
In Floodplain:		Well Depth Amt:	57
Rotary Mud Circ:		Well Dep Amt Text:	57 FEET
Rotary Air:		Static Depth:	feet below ground surface
Rotary Foam:		Location Method:	Section centroid
Reverse Rotary:		Casing Depth Amt:	40
Cable Tool Bit:		Decade Complete:	2000-2009
Cable Bit Diameter:			
Owner:			
Owner Address:	116 3RD AVE		
Owner City:			
Owner State:			
Owner Zip:			
Constructor Name:	WILLIAM D BRUNNER		
Constructor Addr:			
Constructor City:			
Constructor State:			
Constructor Zip:			
Seal Description:			
Drilling Difficulty:			
Other Driller Comments			

Water Quality Comments: Water Quantity

Comments:

Exception Area Comments: Well URL:

Well Constr Url:

https://dnr.wi.gov/WellConstructionSearch/ReportViewer.aspx? id=WellConstructionReport&download=false&WUWN=WR565

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
25	NE	0.78	4,120.07	1,090.00	PRIVATE WW
WI Unique Well No:	QM	041	Temp Outer Cas:		
High Cap Well No:			Temp Casing Diam:		
Hi Cap Well:			Temp Casing Rem:		
Hi Cap Property:			Why Not Removed:		
County Well Loc:			Other Drill Method:		
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		
Muni Type:			Screen Description:		
Tax Parcel No:			Casing Depth Amt:	45 FEET	
Well Complete Date	e: 02/*	13/2002	Screen To:		
DNR Rec Date:			Sealant Method:		
Fire No:			Static Depth Amt:	8.2	
Subdivision:			Pumping Level:		
Lot:			Pumping At:		
Block:			Pumping Units:		
Government Parcel	:		For:		
Survey Township:	29		Well Start Depth:		
Survey Range:	5		Developed:		
Survey Section:	26		Disinfected:		
Q Section:			Capped:		
QQ Section:			Proper Seal:		
Well Status:	Nev	w Well	Contractor Signed:		
Original Year:			Rig Oper Signed:		
Replace Reason:			Geologic Log No:		
Prev WI Well No:			Common Well No:		
Replace Well No:			DNR Facility ID:		
Well Const Type:			Watr Seq No:	1515352	
Other Const Type:			LL Lat Dd Amt:		
Category:			LL Long Dd Amt:		
No Services:			Survey Range Dir:	W	
Facility Type:			Well Name:		
High Pt Property:			Calc Specific Cap:		
In Floodplain:			Well Depth Amt:	64	
Rotary Mud Circ:			Well Dep Amt Text:	64 FEET	
Rotary Air:			Static Depth:	feet below ground	d surface
Rotary Foam:			Location Method:	Section centroid	
Reverse Rotary:			Casing Depth Amt:	45	
Cable Tool Bit:			Decade Complete:	2000-2009	
Cable Bit Diameter:					

Owner:	
Owner Address:	116 3RD AVE
Owner City:	
Owner State:	
Owner Zip:	
Constructor Name:	WILLIAM D BRUNNER
Constructor Addr:	
Constructor City:	
Constructor State:	
Constructor Zip:	
Seal Description:	
Drilling Difficulty:	
Other Driller Comments:	
Water Quality Comments:	
Water Quantity Comments: Exception Area Comments: Well URL:	
Well Constr Url:	https://dnr.wi.gov/WellConstructionSearch/ReportViewer.aspx? id=WellConstructionReport&download=false&WUWN=QM041

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
25	NE	0.78	4,120.07	1,090.00	PRIVATE WW
WI Unique Well No:	XB1	26	Temp Outer Cas:		
High Cap Well No:			Temp Casing Diam:		
Hi Cap Well:			Temp Casing Rem:		
Hi Cap Property:			Why Not Removed:		
County Well Loc:			Other Drill Method:		
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		
Muni Type:			Screen Description:		
Tax Parcel No:			Casing Depth Amt:	47 FEET	
Well Complete Date	e: 05/2	0/2013	Screen To:		
DNR Rec Date:			Sealant Method:		
Fire No:			Static Depth Amt:	7	
Subdivision:			Pumping Level:		
Lot:			Pumping At:		
Block:			Pumping Units:		
Government Parcel	:		For:		
Survey Township:	29		Well Start Depth:		
Survey Range:	5		Developed:		
Survey Section:	26		Disinfected:		
Q Section:			Capped:		
QQ Section:			Proper Seal:		
Well Status:	Rec	onstruction	Contractor Signed:		
Original Year:			Rig Oper Signed:		

Replace Reason: Prev WI Well No: Replace Well No:		Geologic Log No: Common Well No: DNR Facility ID:	
Well Const Type:		Watr Seq No:	38613442
Other Const Type:		LL Lat Dd Amt:	
Category:		LL Long Dd Amt:	
No Services:		Survey Range Dir:	W
Facility Type:		Well Name:	
High Pt Property:		Calc Specific Cap:	
In Floodplain:		Well Depth Amt:	57
Rotary Mud Circ:		Well Dep Amt Text:	57 FEET
Rotary Air:		Static Depth:	feet below ground surface
Rotary Foam:		Location Method:	Section centroid
Reverse Rotary:		Casing Depth Amt:	47
Cable Tool Bit:		Decade Complete:	2010-2019
Cable Bit Diameter:			
Owner:			
Owner Address:	116 3RD AVE		
Owner City:			
Owner State:			
Owner Zip:			
Constructor Name:	WILLIAM D BRUNNER		
Constructor Addr:			
Constructor City:			
Constructor State:			
Constructor Zip:			
Seal Description:			
Drilling Difficulty:			
Other Driller Comments:			
Water Quality Comments:			
Water Quantity Comments: Exception Area Comments: Well URL:			
Well Constr Url:	https://dnr.wi.gov/WellConstructionSe id=WellConstructionReport&download	arch/ReportViewer.aspx? I=false&WUWN=XB126	

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
26	NE	0.78	4,131.97	1,090.18	PRIVATE WW
WI Unique Well No High Cap Well No:	: 8BC44	45	Temp Outer Cas: Temp Casing Diam:		
Hi Cap Well:		Temp Casing Rem:			
Hi Cap Property:			Why Not Removed:		
County Well Loc:		Other Drill Method:			
DNR Region:		Other Drillin Desc:			
County:			Screen Diameter:		

Muni Type:		Screen Description:	
Tax Parcel No:		Casing Depth Amt:	
Well Complete Date:		Screen To:	
DNR Rec Date:		Sealant Method:	
Fire No:		Static Depth Amt:	
Subdivision:		Pumping Level:	
Lot:		Pumping At:	
Block:		Pumping Units:	
Government Parcel:		For:	
Survey Township:	29	Well Start Depth:	
Survey Range:	5	Developed:	
Survey Section:	26	Disinfected:	
Q Section:	NW	Capped:	
QQ Section:	SE	Proper Seal:	
Well Status:		Contractor Signed:	
Original Year:		Rig Oper Signed:	
Replace Reason:		Geologic Log No:	
Prev WI Well No:		Common Well No:	
Replace Well No:		DNR Facility ID:	
Well Const Type:		Watr Seq No:	113777979
Other Const Type:		LL Lat Dd Amt:	
Category:		LL Long Dd Amt:	
No Services:		Survey Range Dir:	W
Facility Type:		Well Name:	
High Pt Property:		Calc Specific Cap:	
In Floodplain:		Well Depth Amt:	
Rotary Mud Circ:		Well Dep Amt Text:	
Rotary Air:		Static Depth:	
Rotary Foam:		Location Method:	QQ section centroid
Reverse Rotary:		Casing Depth Amt:	
Cable Tool Bit:		Decade Complete:	
Cable Bit Diameter:			
Owner:			
Owner Address:			
Owner City:			
Owner State:			
Owner Zip:			
Constructor Name:			
Constructor Addr:			
Constructor City:			
Constructor State:			
Constructor Zip:			
Seal Description:			
Drilling Difficulty:			

Other Driller Comments: Water Quality Comments: Water Quantity

Comments:

Exception Area Comments: Well URL:

Well Constr Url:

https://dnr.wi.gov/WellConstructionSearch/ReportViewer.aspx? id=WellConstructionReport&download=false&WUWN=8BC445

Мар Кеу	Direction	n Distance (mi)	Distance (ft)	Elevation (ft)	DB
27	SSW	0.80	4,199.96	1,088.62	PRIVATE WW
WI Unique Well No:	N	N082	Temp Outer Cas:		
High Cap Well No:			Temp Casing Diam:		
Hi Cap Well:			Temp Casing Rem:		
Hi Cap Property:			Why Not Removed:		
County Well Loc:			Other Drill Method:		
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		
Muni Type:			Screen Description:		
Tax Parcel No:			Casing Depth Amt:	38 FEET	
Well Complete Date	e: 11	/02/1999	Screen To:		
DNR Rec Date:			Sealant Method:		
Fire No:			Static Depth Amt:	18	
Subdivision:			Pumping Level:		
Lot:			Pumping At:		
Block:			Pumping Units:		
Government Parcel	:		For:		
Survey Township:	28	}	Well Start Depth:		
Survey Range:	5		Developed:		
Survey Section:	3		Disinfected:		
Q Section:	NV	N	Capped:		
QQ Section:	NV	N	Proper Seal:		
Well Status:	Re	eplacement	Contractor Signed:		
Original Year:			Rig Oper Signed:		
Replace Reason:			Geologic Log No:		
Prev WI Well No:			Common Well No:		
Replace Well No:			DNR Facility ID:		
Well Const Type:			Watr Seq No:	1051121	
Other Const Type:			LL Lat Dd Amt:		
Category:			LL Long Dd Amt:		
No Services:			Survey Range Dir:	W	
Facility Type:			Well Name:		
High Pt Property:			Calc Specific Cap:		
In Floodplain:			Well Depth Amt:	65	
Rotary Mud Circ:			Well Dep Amt Text:	65 FEET	
Rotary Air:			Static Depth:	feet below ground	surface
Rotary Foam:			Location Method:	QQ section centro	id
Reverse Rotary:			Casing Depth Amt:	38	
Cable Tool Bit:			Decade Complete:	1990-1999	
Cable Bit Diameter:					

Owner:	
Owner Address:	6935 CTY HWY G
Owner City:	
Owner State:	
Owner Zip:	
Constructor Name:	KLINE WELL & PUMP INC
Constructor Addr:	
Constructor City:	
Constructor State:	
Constructor Zip:	
Seal Description:	
Drilling Difficulty:	
Other Driller Comments:	
Water Quality Comments:	
Water Quantity Comments: Exception Area Comments: Well URL:	
Well Constr Url:	https://dnr.wi.gov/WellConstructionSearch/ReportViewer.aspx? id=WellConstructionReport&download=false&WUWN=NN082

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
27	SSW	0.80	4,199.96	1,088.62	PRIVATE WW
WI Unique Well No:	8BA8	13	Temp Outer Cas:		
High Cap Well No:			Temp Casing Diam:		
Hi Cap Well:			Temp Casing Rem:		
Hi Cap Property:			Why Not Removed:		
County Well Loc:			Other Drill Method:		
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		
Muni Type:			Screen Description:		
Tax Parcel No:			Casing Depth Amt:		
Well Complete Date	e:		Screen To:		
DNR Rec Date:			Sealant Method:		
Fire No:			Static Depth Amt:		
Subdivision:			Pumping Level:		
Lot:			Pumping At:		
Block:			Pumping Units:		
Government Parcel	:		For:		
Survey Township:	28		Well Start Depth:		
Survey Range:	5		Developed:		
Survey Section:	3		Disinfected:		
Q Section:	NW		Capped:		
QQ Section:	NW		Proper Seal:		
Well Status:			Contractor Signed:		
Original Year:			Rig Oper Signed:		

97

Replace Reason:		Geologic Log No:	
Prev WI Well No:		Common Well No:	
Replace Well No:		DNR Facility ID:	
Well Const Type:		Watr Seq No:	113776343
Other Const Type:		LL Lat Dd Amt:	
Category:		LL Long Dd Amt:	
No Services:		Survey Range Dir:	W
Facility Type:		Well Name:	
High Pt Property:		Calc Specific Cap:	
In Floodplain:		Well Depth Amt:	
Rotary Mud Circ:		Well Dep Amt Text:	
Rotary Air:		Static Depth:	
Rotary Foam:		Location Method:	QQ section centroid
Reverse Rotary:		Casing Depth Amt:	
Cable Tool Bit:		Decade Complete:	
Cable Bit Diameter:			
Owner:			
Owner Address:			
Owner City:			
Owner State:			
Owner Zip:			
Constructor Name:			
Constructor Addr:			
Constructor City:			
Constructor State:			
Constructor Zip:			
Seal Description:			
Drilling Difficulty:			
Other Driller Comments:			
Water Quality Comments:			
Water Quantity Comments: Exception Area Comments: Well URL:			
Well Constr Url:	https://dnr.wi.gov/WellConstructionSec id=WellConstructionReport&download	arch/ReportViewer.aspx? I=false&WUWN=8BA813	

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
28	SSE	0.85	4,496.23	1,101.68	PRIVATE WW
WI Unique Well No:	QZ36	3	Temp Outer Cas:		
High Cap Well No:			Temp Casing Diam	:	
Hi Cap Well:		Temp Casing Rem:			
Hi Cap Property:			Why Not Removed:		
County Well Loc:			Other Drill Method:		
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		

Muni Type:		Screen Description:	
Tax Parcel No:		Casing Depth Amt:	31 FEET
Well Complete Date:	08/28/2002	Screen To:	
DNR Rec Date:		Sealant Method:	
Fire No:		Static Depth Amt:	18
Subdivision:		Pumping Level:	
Lot:		Pumping At:	
Block:		Pumping Units:	
Government Parcel:		For:	
Survey Township:	28	Well Start Depth:	
Survey Range:	5	Developed:	
Survey Section:	3	Disinfected:	
Q Section:	NE	Capped:	
QQ Section:	SE	Proper Seal:	
Well Status:	New Well	Contractor Signed:	
Original Year:		Rig Oper Signed:	
Replace Reason:		Geologic Log No:	
Prev WI Well No:		Common Well No:	
Replace Well No:		DNR Facility ID:	
Well Const Type:		Watr Seq No:	1339894
Other Const Type:		LL Lat Dd Amt:	44.9399
Category:		LL Long Dd Amt:	-90.9653
No Services:		Survey Range Dir:	W
Facility Type:		Well Name:	
High Pt Property:		Calc Specific Cap:	
In Floodplain:		Well Depth Amt:	58
Rotary Mud Circ:		Well Dep Amt Text:	58 FEET
Rotary Air:		Static Depth:	feet below ground surface
Rotary Foam:		Location Method:	Parcel centroid
Reverse Rotary:		Casing Depth Amt:	31
Cable Tool Bit:		Decade Complete:	2000-2009
Cable Bit Diameter:			
Owner:			
Owner Address:	N14638 SANDHILL AVE		
Owner City:			
Owner State:			
Owner Zip:			
Constructor Name:	JESSE W BRUNNER		
Constructor Addr:			
Constructor City:			
Constructor State:			
Constructor Zip:			
Seal Description:			
Drilling Difficulty:			
Other Driller Comments:			
Water Quality Comments:			

Water Quantity Comments:

Exception Area Comments: Well URL:

Well Constr Url:

https://dnr.wi.gov/WellConstructionSearch/ReportViewer.aspx? id=WellConstructionReport&download=false&WUWN=QZ363

Мар Кеу	Directi	on Dista	nce (mi)	Distance (ft)	Elevation (ft)	DB
29	Ν	0.88		4,659.27	1,147.95	PRIVATE WW
WI Unique Well No:	:	8BC449		Temp Outer Cas:		
High Cap Well No:				Temp Casing Diam:		
Hi Cap Well:				Temp Casing Rem:		
Hi Cap Property:				Why Not Removed:		
County Well Loc:				Other Drill Method:		
DNR Region:				Other Drillin Desc:		
County:				Screen Diameter:		
Muni Type:				Screen Description:		
Tax Parcel No:				Casing Depth Amt:		
Well Complete Date	e:			Screen To:		
DNR Rec Date:				Sealant Method:		
Fire No:				Static Depth Amt:		
Subdivision:				Pumping Level:		
Lot:				Pumping At:		
Block:				Pumping Units:		
Government Parcel	:			For:		
Survey Township:		29		Well Start Depth:		
Survey Range:		5		Developed:		
Survey Section:		27		Disinfected:		
Q Section:		NE		Capped:		
QQ Section:		NW		Proper Seal:		
Well Status:				Contractor Signed:		
Original Year:				Rig Oper Signed:		
Replace Reason:				Geologic Log No:		
Prev WI Well No:				Common Well No:		
Replace Well No:				DNR Facility ID:		
Well Const Type:				Watr Seq No:	113777983	
Other Const Type:				LL Lat Dd Amt:		
Category:				LL Long Dd Amt:		
No Services:				Survey Range Dir:	W	
Facility Type:				Well Name:		
High Pt Property:				Calc Specific Cap:		
In Floodplain:				Well Depth Amt:		
Rotary Mud Circ:				Well Dep Amt Text:		
Rotary Air:				Static Depth:		
Rotary Foam:				Location Method:	QQ section centroic	l
Reverse Rotary:				Casing Depth Amt:		
Cable Tool Bit:				Decade Complete:		
Cable Bit Diameter:	:					

Owner:	
Owner Address:	
Owner City:	
Owner State:	
Owner Zip:	
Constructor Name:	
Constructor Addr:	
Constructor City:	
Constructor State:	
Constructor Zip:	
Seal Description:	
Drilling Difficulty:	
Other Driller Comments:	
Water Quality Comments:	
Water Quantity Comments: Exception Area Comments: Well URL:	
Well Constr Url:	https://dnr.wi.gov/WellConstructionSearch/ReportViewer.aspx? id=WellConstructionReport&download=false&WUWN=8BC449

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
29	Ν	0.88	4,659.27	1,147.95	PRIVATE WW
WI Unique Well No:	XL71	6	Temp Outer Cas:		
High Cap Well No:			Temp Casing Diam:		
Hi Cap Well:			Temp Casing Rem:		
Hi Cap Property:			Why Not Removed:		
County Well Loc:			Other Drill Method:		
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		
Muni Type:			Screen Description:		
Tax Parcel No:			Casing Depth Amt:	67 FEET	
Well Complete Date	e: 04/09	/2015	Screen To:		
DNR Rec Date:			Sealant Method:		
Fire No:			Static Depth Amt:	60	
Subdivision:			Pumping Level:		
Lot:			Pumping At:		
Block:			Pumping Units:		
Government Parcel	:		For:		
Survey Township:	29		Well Start Depth:		
Survey Range:	5		Developed:		
Survey Section:	27		Disinfected:		
Q Section:	NE		Capped:		
QQ Section:	NW		Proper Seal:		
Well Status:	Repla	acement	Contractor Signed:		
Original Year:			Rig Oper Signed:		

101

Replace Reason: Prev WI Well No: Replace Well No:		Geologic Log No: Common Well No: DNR Facility ID:	
Well Const Type:		Watr Seg No:	64032616
Other Const Type:		LL Lat Dd Amt:	
Category:		LL Long Dd Amt:	
No Services:		Survey Range Dir:	W
Facility Type:		Well Name:	
High Pt Property:		Calc Specific Cap:	
In Floodplain:		Well Depth Amt:	120
Rotary Mud Circ:		Well Dep Amt Text:	120 FEET
Rotary Air:		Static Depth:	feet below ground surface
Rotary Foam:		Location Method:	QQ section centroid
Reverse Rotary:		Casing Depth Amt:	67
Cable Tool Bit:		Decade Complete:	2010-2019
Cable Bit Diameter:			
Owner:			
Owner Address:	8839 345 ST		
Owner City:			
Owner State:			
Owner Zip:			
Constructor Name:	MIDWEST HYDROFRACKING LLC		
Constructor Addr:			
Constructor City:			
Constructor State:			
Constructor Zip:			
Seal Description:			
Drilling Difficulty:			
Other Driller Comments:			
Water Quality Comments:			
Water Quantity Comments: Exception Area Comments: Well URL:			
Well Constr Url:	https://dnr.wi.gov/WellConstructionSe id=WellConstructionReport&download	arch/ReportViewer.aspx? I=false&WUWN=XL716	

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
30	SE	0.82	4,348.25	1,079.76	PRIVATE WW
	DC000		Tama Outer Casi		
vvi Unique vveii ivo:	DS293		Temp Outer Cas:		
High Cap Well No:			Temp Casing Diam:		
Hi Cap Well:			Temp Casing Rem:		
Hi Cap Property:			Why Not Removed:		
County Well Loc:			Other Drill Method:		
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		

Muni Type:		Screen Description:	
Tax Parcel No:		Casing Depth Amt:	49 FEET
Well Complete Date:	07/25/1991	Screen To:	
DNR Rec Date:		Sealant Method:	
Fire No:		Static Depth Amt:	8
Subdivision:		Pumping Level:	
Lot:		Pumping At:	
Block:		Pumping Units:	
Government Parcel:		For:	
Survey Township:	28	Well Start Depth:	
Survey Range:	5	Developed:	
Survey Section:	2	Disinfected:	
Q Section:	NW	Capped:	
QQ Section:	NE	Proper Seal:	
Well Status:	Replacement	Contractor Signed:	
Original Year:		Rig Oper Signed:	
Replace Reason:		Geologic Log No:	
Prev WI Well No:		Common Well No:	
Replace Well No:		DNR Facility ID:	
Well Const Type:		Watr Seq No:	588184
Other Const Type:		LL Lat Dd Amt:	
Category:		LL Long Dd Amt:	
No Services:		Survey Range Dir:	W
Facility Type:		Well Name:	
High Pt Property:		Calc Specific Cap:	
In Floodplain:		Well Depth Amt:	98
Rotary Mud Circ:		Well Dep Amt Text:	98 FEET
Rotary Air:		Static Depth:	feet below ground surface
Rotary Foam:		Location Method:	QQ section centroid
Reverse Rotary:		Casing Depth Amt:	49
Cable Tool Bit:		Decade Complete:	1990-1999
Cable Bit Diameter:		·	
Owner:			
Owner Address:	RR 1 CO TK X		
Owner City:			
Owner State:			
Owner Zip:			
Constructor Name:	JOHN J HATFIELD		
Constructor Addr:			
Constructor City:			
Constructor State:			
Constructor Zip:			
Seal Description:			
Drilling Difficulty:			

Water Quantity

Other Driller Comments: Water Quality Comments:
Exception Area Comments: Well URL:

Well Constr Url:

https://dnr.wi.gov/WellConstructionSearch/ReportViewer.aspx? id=WellConstructionReport&download=false&WUWN=DS293

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
30	SE	0.82	4,348.25	1,079.76	PRIVATE WW
WI Unique Well No: High Cap Well No: Hi Cap Well	8AZ6	674	Temp Outer Cas: Temp Casing Diam: Temp Casing Rem:		
Hi Cap Property:			Why Not Removed:		
County Well Loc:			Other Drill Method:		
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		
Muni Type:			Screen Description:		
Tax Parcel No:			Casing Depth Amt:		
Well Complete Date	e:		Screen To:		
DNR Rec Date:			Sealant Method:		
Fire No:			Static Depth Amt:		
Subdivision:			Pumping Level:		
Lot:			Pumping At:		
Block:			Pumping Units:		
Government Parcel	:		For:		
Survey Township:	28		Well Start Depth:		
Survey Range:	5		Developed:		
Survey Section:	2		Disinfected:		
Q Section:	NW		Capped:		
QQ Section:	NE		Proper Seal:		
Well Status:			Contractor Signed:		
Original Year:			Rig Oper Signed:		
Replace Reason:			Geologic Log No:		
Prev WI Well No:			Common Well No:		
Replace Well No:			DNR Facility ID:		
Well Const Type:			Watr Seq No:	113775200	
Other Const Type:			LL Lat Dd Amt:		
Category:			LL Long Dd Amt:		
No Services:			Survey Range Dir:	W	
Facility Type:			Well Name:		
High Pt Property:			Calc Specific Cap:		
In Floodplain:			Well Depth Amt:		
Rotary Mud Circ:			Well Dep Amt Text:		
Rotary Air:			Static Depth:		
Rotary Foam:			Location Method:	QQ section centroic	ł
Reverse Rotary:			Casing Depth Amt:		
Cable Tool Bit:			Decade Complete:		
Cable Bit Diameter:					

Owner:	
Owner Address:	
Owner City:	
Owner State:	
Owner Zip:	
Constructor Name:	
Constructor Addr:	
Constructor City:	
Constructor State:	
Constructor Zip:	
Seal Description:	
Drilling Difficulty:	
Other Driller Comments:	
Water Quality Comments:	
Water Quantity Comments: Exception Area Comments: Well URL:	
Well Constr Url:	https://dnr.wi.gov/WellConstructionSearch/ReportViewer.aspx? id=WellConstructionReport&download=false&WUWN=8AZ674

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
31	Ν	0.96	5,048.50	1,120.15	PRIVATE WW
WI Unique Well No:	UV62	29	Temp Outer Cas:		
High Cap Well No:			Temp Casing Diam:		
Hi Cap Well:			Temp Casing Rem:		
Hi Cap Property:			Why Not Removed:		
County Well Loc:			Other Drill Method:		
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		
Muni Type:			Screen Description:		
Tax Parcel No:			Casing Depth Amt:	50.5 FEET	
Well Complete Date	e: 09/14	/2009	Screen To:		
DNR Rec Date:			Sealant Method:		
Fire No:			Static Depth Amt:	32	
Subdivision:			Pumping Level:		
Lot:			Pumping At:		
Block:			Pumping Units:		
Government Parcel	:		For:		
Survey Township:	29		Well Start Depth:		
Survey Range:	5		Developed:		
Survey Section:	27		Disinfected:		
Q Section:	NE		Capped:		
QQ Section:	NE		Proper Seal:		
Well Status:	Repla	acement	Contractor Signed:		
Original Year:			Rig Oper Signed:		

Replace Reason:		Geologic Log No:	
Prev WI Well No:		Common Well No:	
Replace Well No:		DNR Facility ID:	
Well Const Type:		Watr Seq No:	1881331
Other Const Type:		LL Lat Dd Amt:	44.9724167
Category:		LL Long Dd Amt:	-90.9642333
No Services:		Survey Range Dir:	W
Facility Type:		Well Name:	
High Pt Property:		Calc Specific Cap:	
In Floodplain:		Well Depth Amt:	200
Rotary Mud Circ:		Well Dep Amt Text:	200 FEET
Rotary Air:		Static Depth:	feet below ground surface
Rotary Foam:		Location Method:	Latitude and longitude
Reverse Rotary:		Casing Depth Amt:	50.5
Cable Tool Bit:		Decade Complete:	2000-2009
Cable Bit Diameter:			
Owner:			
Owner Address:	8900 350TH ST		
Owner City:			
Owner State:			
Owner Zip:			
Constructor Name:	PEAK WELL DRILLING LLC		
Constructor Addr:			
Constructor City:			
Constructor State:			
Constructor Zip:			
Seal Description:			
Drilling Difficulty:			
Other Driller Comments:			
Water Quality Comments:			
Water Quantity Comments: Exception Area Comments: Well URL:			
Well Constr Url:	https://dnr.wi.gov/WellConstructionSea id=WellConstructionReport&download	arch/ReportViewer.aspx? l=false&WUWN=UV629	
	· · · · · · · · · · · · · · · · · · ·		

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
32	ENE	0.93	4,932.76	1,080.31	PRIVATE WW
WI Unique Well No:	: 8BC44	43	Temp Outer Cas:		
High Cap Well No:			Temp Casing Diam:		
Hi Cap Well: Temp Casing Rem:					
Hi Cap Property:			Why Not Removed:		
County Well Loc:			Other Drill Method:		
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		

Muni Type:		Screen Description:	
Tax Parcel No:		Casing Depth Amt:	
Well Complete Date:		Screen To:	
DNR Rec Date:		Sealant Method:	
Fire No:		Static Depth Amt:	
Subdivision:		Pumping Level:	
Lot:		Pumping At:	
Block:		Pumping Units:	
Government Parcel:		For:	
Survey Township:	29	Well Start Depth:	
Survey Range:	5	Developed:	
Survey Section:	26	Disinfected:	
Q Section:	SE	Capped:	
QQ Section:	SE	Proper Seal:	
Well Status:		Contractor Signed:	
Original Year:		Rig Oper Signed:	
Replace Reason:		Geologic Log No:	
Prev WI Well No:		Common Well No:	
Replace Well No:		DNR Facility ID:	
Well Const Type:		Watr Seg No:	113777977
Other Const Type:		LL Lat Dd Amt:	
Category:		LL Long Dd Amt:	
No Services:		Survey Range Dir:	W
Facility Type:		Well Name:	
High Pt Property:		Calc Specific Cap:	
In Floodplain:		Well Depth Amt:	
Rotary Mud Circ:		Well Dep Amt Text:	
Rotary Air:		Static Depth:	
Rotary Foam:		Location Method:	QQ section centroid
Reverse Rotary:		Casing Depth Amt:	
Cable Tool Bit:		Decade Complete:	
Cable Bit Diameter:		·	
Owner:			
Owner Address:			
Owner City:			
Owner State:			
Owner Zip:			
Constructor Name:			
Constructor Addr:			
Constructor City:			
Constructor State:			
Constructor Zip:			
Seal Description:			
Drilling Difficulty:			
Other Driller Comments:			

Water Quality Comments: Water Quantity

Comments:

Exception Area Comments: Well URL:

Well Constr Url:

https://dnr.wi.gov/WellConstructionSearch/ReportViewer.aspx? id=WellConstructionReport&download=false&WUWN=8BC443

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
32	ENE	0.93	4,932.76	1,080.31	PRIVATE WW
WI Unique Well No:	8B0	2444	Temp Outer Cas:		
High Cap Well No:			Temp Casing Diam:		
Hi Cap Well:			Temp Casing Rem:		
Hi Cap Property:			Why Not Removed:		
County Well Loc:			Other Drill Method:		
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		
Muni Type:			Screen Description:		
Tax Parcel No:			Casing Depth Amt:		
Well Complete Date	e:		Screen To:		
DNR Rec Date:			Sealant Method:		
Fire No:			Static Depth Amt:		
Subdivision:			Pumping Level:		
Lot:			Pumping At:		
Block:			Pumping Units:		
Government Parcel	:		For:		
Survey Township:	29		Well Start Depth:		
Survey Range:	5		Developed:		
Survey Section:	26		Disinfected:		
Q Section:	SE		Capped:		
QQ Section:	SE		Proper Seal:		
Well Status:			Contractor Signed:		
Original Year:			Rig Oper Signed:		
Replace Reason:			Geologic Log No:		
Prev WI Well No:			Common Well No:		
Replace Well No:			DNR Facility ID:		
Well Const Type:			Watr Seq No:	113777978	
Other Const Type:			LL Lat Dd Amt:		
Category:			LL Long Dd Amt:		
No Services:			Survey Range Dir:	W	
Facility Type:			Well Name:		
High Pt Property:			Calc Specific Cap:		
In Floodplain:			Well Depth Amt:		
Rotary Mud Circ:			Well Dep Amt Text:		
Rotary Air:			Static Depth:		
Rotary Foam:			Location Method:	QQ section centroid	Ł
Reverse Rotary:			Casing Depth Amt:		
Cable Tool Bit:			Decade Complete:		
Cable Bit Diameter:					

Owner:	
Owner Address:	
Owner City:	
Owner State:	
Owner Zip:	
Constructor Name:	
Constructor Addr:	
Constructor City:	
Constructor State:	
Constructor Zip:	
Seal Description:	
Drilling Difficulty:	
Other Driller Comments:	
Water Quality Comments:	
Water Quantity Comments: Exception Area Comments: Well URL:	
Well Constr Url:	https://dnr.wi.gov/WellConstructionSearch/ReportViewer.aspx? id=WellConstructionReport&download=false&WUWN=8BC444

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
32	ENE	0.93	4,932.76	1,080.31	PRIVATE WW
WI Unique Well No:	8BC4	42	Temp Outer Cas:		
High Cap Well No:			Temp Casing Diam:		
Hi Cap Well:			Temp Casing Rem:		
Hi Cap Property:			Why Not Removed:		
County Well Loc:			Other Drill Method:		
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		
Muni Type:			Screen Description:		
Tax Parcel No:			Casing Depth Amt:		
Well Complete Date):		Screen To:		
DNR Rec Date:			Sealant Method:		
Fire No:			Static Depth Amt:		
Subdivision:			Pumping Level:		
Lot:			Pumping At:		
Block:			Pumping Units:		
Government Parcel	:		For:		
Survey Township:	29		Well Start Depth:		
Survey Range:	5		Developed:		
Survey Section:	26		Disinfected:		
Q Section:	SE		Capped:		
QQ Section:	SE		Proper Seal:		
Well Status:			Contractor Signed:		
Original Year:			Rig Oper Signed:		

Replace Reason:		Geologic Log No:	
Prev WI Well No:		Common Well No:	
Replace Well No:		DNR Facility ID:	
Well Const Type:		Watr Seq No:	113777976
Other Const Type:		LL Lat Dd Amt:	
Category:		LL Long Dd Amt:	
No Services:		Survey Range Dir:	W
Facility Type:		Well Name:	
High Pt Property:		Calc Specific Cap:	
In Floodplain:		Well Depth Amt:	
Rotary Mud Circ:		Well Dep Amt Text:	
Rotary Air:		Static Depth:	
Rotary Foam:		Location Method:	QQ section centroid
Reverse Rotary:		Casing Depth Amt:	
Cable Tool Bit:		Decade Complete:	
Cable Bit Diameter:			
Owner:			
Owner Address:			
Owner City:			
Owner State:			
Owner Zip:			
Constructor Name:			
Constructor Addr:			
Constructor City:			
Constructor State:			
Constructor Zip:			
Seal Description:			
Drilling Difficulty:			
Other Driller Comments:			
Water Quality Comments:			
Water Quantity Comments: Exception Area Comments: Well URL:			
Well Constr Url:	https://dnr.wi.gov/WellConstructionS id=WellConstructionReport&downloa	earch/ReportViewer.aspx? ad=false&WUWN=8BC442	
Man Kay	ion Distance (mi)		

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
33	SSE	0.96	5,045.43	1,100.29	PRIVATE WW
WI Unique Well No:	: NJ20	7	Temp Outer Cas:		
High Cap Well No:			Temp Casing Dian	n:	
Hi Cap Well:		Temp Casing Rem:			
Hi Cap Property:		Why Not Removed:			
County Well Loc:			Other Drill Method	:	
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		

Muni Type:		Screen Description:	
Tax Parcel No:		Casing Depth Amt:	30 FEET
Well Complete Date:	07/24/1999	Screen To:	
DNR Rec Date:		Sealant Method:	
Fire No:		Static Depth Amt:	12
Subdivision:		Pumping Level:	
Lot:		Pumping At:	
Block:		Pumping Units:	
Government Parcel:		For:	
Survey Township:	28	Well Start Depth:	
Survey Range:	5	Developed:	
Survey Section:	2	Disinfected:	
Q Section:	NW	Capped:	
QQ Section:	SW	Proper Seal:	
Well Status:	New Well	Contractor Signed:	
Original Year:		Rig Oper Signed:	
Replace Reason:		Geologic Log No:	
Prev WI Well No:		Common Well No:	
Replace Well No:		DNR Facility ID:	
Well Const Type:		Watr Seq No:	1044569
Other Const Type:		LL Lat Dd Amt:	
Category:		LL Long Dd Amt:	
No Services:		Survey Range Dir:	W
Facility Type:		Well Name:	
High Pt Property:		Calc Specific Cap:	
In Floodplain:		Well Depth Amt:	38
Rotary Mud Circ:		Well Dep Amt Text:	38 FEET
Rotary Air:		Static Depth:	feet below ground surface
Rotary Foam:		Location Method:	QQ section centroid
Reverse Rotary:		Casing Depth Amt:	30
Cable Tool Bit:		Decade Complete:	1990-1999
Cable Bit Diameter:			
Owner:			
Owner Address:	RR 1 BOX 7		
Owner City:			
Owner State:			
Owner Zip:			
Constructor Name:	WILLIAM D BRUNNER		
Constructor Addr:			
Constructor City:			
Constructor State:			
Constructor Zip:			
Seal Description:			

Drilling Difficulty:

Other Driller Comments: Water Quality Comments: Water Quantity

Comments: 111

Exception Area Comments: Well URL:

Well URL:

Well Constr Url:

https://dnr.wi.gov/WellConstructionSearch/ReportViewer.aspx? id=WellConstructionReport&download=false&WUWN=NJ207

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
34	ESE	0.95	5,008.02	1,070.02	PRIVATE WW
WI Unique Well No:	YA96	39	Temp Outer Cas:		
High Cap Well No:			Temp Casing Diam:		
Hi Cap Well:			Temp Casing Rem:		
Hi Cap Property:			Why Not Removed:		
County Well Loc:			Other Drill Method:		
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		
Muni Type:			Screen Description:		
Tax Parcel No:			Casing Depth Amt:	47 FEET	
Well Complete Date	e: 01/2 ²	1/2017	Screen To:		
DNR Rec Date:			Sealant Method:		
Fire No:			Static Depth Amt:	16	
Subdivision:			Pumping Level:		
Lot:			Pumping At:		
Block:			Pumping Units:		
Government Parcel:	:		For:		
Survey Township:	29		Well Start Depth:		
Survey Range:	5		Developed:		
Survey Section:	35		Disinfected:		
Q Section:	SE		Capped:		
QQ Section:	SE		Proper Seal:		
Well Status:	New	Well	Contractor Signed:		
Original Year:			Rig Oper Signed:		
Replace Reason:			Geologic Log No:		
Prev WI Well No:			Common Well No:		
Replace Well No:			DNR Facility ID:		
Well Const Type:			Watr Seq No:	93302413	
Other Const Type:			LL Lat Dd Amt:	44.9455199999	99995
Category:			LL Long Dd Amt:	-90.948619999	99999
No Services:			Survey Range Dir:	W	
Facility Type:			Well Name:		
High Pt Property:			Calc Specific Cap:		
In Floodplain:			Well Depth Amt:	100	
Rotary Mud Circ:			Well Dep Amt Text:	100 FEET	
Rotary Air:			Static Depth:	feet below grou	nd surface
Rotary Foam:			Location Method:	Latitude and lor	ngitude
Reverse Rotary:			Casing Depth Amt:	47	
Cable Tool Bit:			Decade Complete:	2010-2019	
Cable Bit Diameter:					

Owner:	
Owner Address:	W13687 SHINER DR
Owner City:	
Owner State:	
Owner Zip:	
Constructor Name:	MIDWEST HYDROFRACKING LLC
Constructor Addr:	
Constructor City:	
Constructor State:	
Constructor Zip:	
Seal Description:	
Drilling Difficulty:	
Other Driller Comments:	
Water Quality Comments:	
Water Quantity Comments: Exception Area Comments: Well URL:	
Well Constr Url:	https://dnr.wi.gov/WellConstructionSearch/ReportViewer.aspx? id=WellConstructionReport&download=false&WUWN=YA969

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
35	ESE	0.97	5,126.85	1,071.38	PRIVATE WW
WI Unique Well No:	8BC4	162	Temp Outer Cas:		
High Cap Well No:			Temp Casing Diam:		
Hi Cap Well:			Temp Casing Rem:		
Hi Cap Property:			Why Not Removed:		
County Well Loc:			Other Drill Method:		
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		
Muni Type:			Screen Description:		
Tax Parcel No:			Casing Depth Amt:		
Well Complete Date	e:		Screen To:		
DNR Rec Date:			Sealant Method:		
Fire No:			Static Depth Amt:		
Subdivision:			Pumping Level:		
Lot:			Pumping At:		
Block:			Pumping Units:		
Government Parcel	:		For:		
Survey Township:	29		Well Start Depth:		
Survey Range:	5		Developed:		
Survey Section:	35		Disinfected:		
Q Section:	SE		Capped:		
QQ Section:	NE		Proper Seal:		
Well Status:			Contractor Signed:		
Original Year:			Rig Oper Signed:		

Replace Reason:		Geologic Log No:	
Prev WI Well No:		Common Well No:	
Replace Well No:		DNR Facility ID:	
Well Const Type:		Watr Seq No:	113777996
Other Const Type:		LL Lat Dd Amt:	
Category:		LL Long Dd Amt:	
No Services:		Survey Range Dir:	W
Facility Type:		Well Name:	
High Pt Property:		Calc Specific Cap:	
In Floodplain:		Well Depth Amt:	
Rotary Mud Circ:		Well Dep Amt Text:	
Rotary Air:		Static Depth:	
Rotary Foam:		Location Method:	QQ section centroid
Reverse Rotary:		Casing Depth Amt:	
Cable Tool Bit:		Decade Complete:	
Cable Bit Diameter:			
Owner:			
Owner Address:			
Owner City:			
Owner State:			
Owner Zip:			
Constructor Name:			
Constructor Addr:			
Constructor City:			
Constructor State:			
Constructor Zip:			
Seal Description:			
Drilling Difficulty:			
Other Driller Comments:			
Water Quality Comments:			
Water Quantity Comments: Exception Area Comments:			
Well URL:	https://dnr.wi.gov/WellConstructionSe	arch/ReportViewer.aspx?	
Well Constr Url:	ia=vveiiConstructionReport&download	a=taise&vvUvvN=8BC462	

Map Key Direction Distance (mi) Distance (ft) Elevation	on (ft) DB
35 ESE 0.97 5,126.85 1,071.38	PRIVATE WW
WI Unique Well No: MY658 Temp Outer Cas:	
High Cap Well No: Temp Casing Diam:	
Hi Cap Well: Temp Casing Rem:	
Hi Cap Property: Why Not Removed:	
County Well Loc: Other Drill Method:	
DNR Region: Other Drillin Desc:	
County: Screen Diameter:	

Muni Type:		Screen Description:	
Tax Parcel No:		Casing Depth Amt:	49 FEET
Well Complete Date:	11/17/1998	Screen To:	
DNR Rec Date:		Sealant Method:	
Fire No:		Static Depth Amt:	18
Subdivision:		Pumping Level:	
Lot:		Pumping At:	
Block:		Pumping Units:	
Government Parcel:		For:	
Survey Township:	29	Well Start Depth:	
Survey Range:	5	Developed:	
Survey Section:	35	Disinfected:	
Q Section:	SE	Capped:	
QQ Section:	NE	Proper Seal:	
Well Status:	New Well	Contractor Signed:	
Original Year:		Rig Oper Signed:	
Replace Reason:		Geologic Log No:	
Prev WI Well No:		Common Well No:	
Replace Well No:		DNR Facility ID:	
Well Const Type:		Watr Seq No:	1024180
Other Const Type:		LL Lat Dd Amt:	
Category:		LL Long Dd Amt:	
No Services:		Survey Range Dir:	W
Facility Type:		Well Name:	
High Pt Property:		Calc Specific Cap:	
In Floodplain:		Well Depth Amt:	95
Rotary Mud Circ:		Well Dep Amt Text:	95 FEET
Rotary Air:		Static Depth:	feet below ground surface
Rotary Foam:		Location Method:	QQ section centroid
Reverse Rotary:		Casing Depth Amt:	49
Cable Tool Bit:		Decade Complete:	1990-1999
Cable Bit Diameter:			
Owner:			
Owner Address:	31661 CTY HWY O		
Owner City:			
Owner State:			
Owner Zip:			
Constructor Name:	JOHN J HATFIELD		
Constructor Addr:			
Constructor City:			
Constructor State:			
Constructor Zip:			
Seal Description:			
Drilling Difficulty:			
Other Driller Comments:			
Water Quality Comments:			

Water Quantity

Exception Area Comments: Well URL:

Well Constr Url:

https://dnr.wi.gov/WellConstructionSearch/ReportViewer.aspx? id=WellConstructionReport&download=false&WUWN=MY658

Мар Кеу	Direction	n Distance (mi)	Distance (ft)	Elevation (ft)	DB
36	SW	0.95	5,014.19	1,114.11	PRIVATE WW
		_			
WI Unique Well No:	FF	P106	Temp Outer Cas:		
High Cap Well No:			Temp Casing Diam:		
Hi Cap Well:			Temp Casing Rem:		
Hi Cap Property:			Why Not Removed:		
County Well Loc:			Other Drill Method:		
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		
Muni Type:			Screen Description:		
Tax Parcel No:			Casing Depth Amt:	31 FEET	
Well Complete Date	e: 06	5/24/1994	Screen To:		
DNR Rec Date:			Sealant Method:		
Fire No:			Static Depth Amt:	25	
Subdivision:			Pumping Level:		
Lot:			Pumping At:		
Block:			Pumping Units:		
Government Parcel	:		For:		
Survey Township:	28	3	Well Start Depth:		
Survey Range:	5		Developed:		
Survey Section:	4		Disinfected:		
Q Section:	N	E	Capped:		
QQ Section:	N	E	Proper Seal:		
Well Status:	Ne	ew Well	Contractor Signed:		
Original Year:			Rig Oper Signed:		
Replace Reason:			Geologic Log No:		
Prev WI Well No:			Common Well No:		
Replace Well No:			DNR Facility ID:		
Well Const Type:			Watr Seq No:	606251	
Other Const Type:			LL Lat Dd Amt:		
Category:			LL Long Dd Amt:		
No Services:			Survey Range Dir:	W	
Facility Type:			Well Name:		
High Pt Property:			Calc Specific Cap:		
In Floodplain:			Well Depth Amt:	55	
Rotary Mud Circ:			Well Dep Amt Text:	55 FEET	
Rotary Air:			Static Depth:	feet below ground	surface
Rotary Foam:			Location Method:	QQ section centro	bid
Reverse Rotary:			Casing Depth Amt:	31	
Cable Tool Bit:			Decade Complete:	1990-1999	
Cable Bit Diameter:					

Owner:	
Owner Address:	RR 1 BOX 243
Owner City:	
Owner State:	
Owner Zip:	
Constructor Name:	JOHN J HATFIELD
Constructor Addr:	
Constructor City:	
Constructor State:	
Constructor Zip:	
Seal Description:	
Drilling Difficulty:	
Other Driller Comments:	
Water Quality Comments:	
Water Quantity Comments: Exception Area Comments: Well URL:	
Well Constr Url:	https://dnr.wi.gov/WellConstructionSearch/ReportViewer.aspx? id=WellConstructionReport&download=false&WUWN=FP106

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
37	NE	0.96	5,056.01	1,089.53	PRIVATE WW
WI Unique Well No:	8BA1	66	Temp Outer Cas:		
High Cap Well No:			Temp Casing Diam:		
Hi Cap Well:			Temp Casing Rem:		
Hi Cap Property:			Why Not Removed:		
County Well Loc:			Other Drill Method:		
DNR Region:			Other Drillin Desc:		
County:			Screen Diameter:		
Muni Type:			Screen Description:		
Tax Parcel No:			Casing Depth Amt:		
Well Complete Date	e:		Screen To:		
DNR Rec Date:			Sealant Method:		
Fire No:			Static Depth Amt:		
Subdivision:			Pumping Level:		
Lot:			Pumping At:		
Block:			Pumping Units:		
Government Parcel	:		For:		
Survey Township:	29		Well Start Depth:		
Survey Range:	5		Developed:		
Survey Section:	26		Disinfected:		
Q Section:	NE		Capped:		
QQ Section:	SW		Proper Seal:		
Well Status:			Contractor Signed:		
Original Year:			Rig Oper Signed:		

117

Replace Reason:		Geologic Log No:	
Prev WI Well No:		Common Well No:	
Replace Well No:		DNR Facility ID:	
Well Const Type:		Watr Seq No:	113775693
Other Const Type:		LL Lat Dd Amt:	
Category:		LL Long Dd Amt:	
No Services:		Survey Range Dir:	W
Facility Type:		Well Name:	
High Pt Property:		Calc Specific Cap:	
In Floodplain:		Well Depth Amt:	
Rotary Mud Circ:		Well Dep Amt Text:	
Rotary Air:		Static Depth:	
Rotary Foam:		Location Method:	QQ section centroid
Reverse Rotary:		Casing Depth Amt:	
Cable Tool Bit:		Decade Complete:	
Cable Bit Diameter:			
Owner:			
Owner Address:			
Owner City:			
Owner State:			
Owner Zip:			
Constructor Name:			
Constructor Addr:			
Constructor City:			
Constructor State:			
Constructor Zip:			
Seal Description:			
Drilling Difficulty:			
Other Driller Comments:			
Water Quality Comments:			
Water Quantity Comments: Exception Area Comments: Well URL:			
Well Constr Url:	https://dnr.wi.gov/WellConstructionSe id=WellConstructionReport&download	arch/ReportViewer.aspx? I=false&WUWN=8BA166	

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB	
38	WSW	1.00	5,255.47	1,161.59	PRIVATE WW	
WI Unique Well No:	MY67	70	Temp Outer Cas:			
High Cap Well No:			Temp Casing Diam	:		
Hi Cap Well:		Temp Casing Rem:				
Hi Cap Property:		Why Not		emoved:		
County Well Loc:			Other Drill Method:			
DNR Region:			Other Drillin Desc:			
County:			Screen Diameter:			

Muni Type:		Screen Description:	
Tax Parcel No:		Casing Depth Amt:	70 FEET
Well Complete Date:	09/13/1999	Screen To:	
DNR Rec Date:		Sealant Method:	
Fire No:		Static Depth Amt:	45
Subdivision:		Pumping Level:	
Lot:		Pumping At:	
Block:		Pumping Units:	
Government Parcel:		For:	
Survey Township:	29	Well Start Depth:	
Survey Range:	5	Developed:	
Survey Section:	33	Disinfected:	
Q Section:	SE	Capped:	
QQ Section:	SW	Proper Seal:	
Well Status:	New Well	Contractor Signed:	
Original Year:		Rig Oper Signed:	
Replace Reason:		Geologic Log No:	
Prev WI Well No:		Common Well No:	
Replace Well No:		DNR Facility ID:	
Well Const Type:		Watr Seq No:	1057232
Other Const Type:		LL Lat Dd Amt:	
Category:		LL Long Dd Amt:	
No Services:		Survey Range Dir:	W
Facility Type:		Well Name:	
High Pt Property:		Calc Specific Cap:	
In Floodplain:		Well Depth Amt:	112
Rotary Mud Circ:		Well Dep Amt Text:	112 FEET
Rotary Air:		Static Depth:	feet below ground surface
Rotary Foam:		Location Method:	QQ section centroid
Reverse Rotary:		Casing Depth Amt:	70
Cable Tool Bit:		Decade Complete:	1990-1999
Cable Bit Diameter:			
Owner:			
Owner Address:	7378 CTY TK G		
Owner City:			
Owner State:			
Owner Zip:			
Constructor Name:	JOHN J HATFIELD		
Constructor Addr:			
Constructor City:			
Constructor State:			
Constructor Zip:			
Seal Description:			
Drilling Difficulty:			

Other Driller Comments: Water Quality Comments: Water Quantity

erisinfo.com | Environmental Risk Information Services

Comments:

Exception Area Comments: Well URL: Well Constr Url:

https://dnr.wi.gov/WellConstructionSearch/ReportViewer.aspx? id=WellConstructionReport&download=false&WUWN=MY670

Radon Information

This section lists any relevant radon information found for the target property.

Federal EPA Radon Zone for CHIPPEWA County: 2

Zone 1: Counties with predicted average indoor radon screening levels greater than 4 pCi/L Zone 2: Counties with predicted average indoor radon screening levels from 2 to 4 pCi/L Zone 3: Counties with predicted average indoor radon screening levels less than 2 pCi/L

Federal Area Radon Information for CHIPPEWA County

18 2.3 3.7 2.7 4.3

No Measures/Homes:
Geometric Mean:
Arithmetic Mean:
Median:
Standard Deviation:
Maximum:
% >4 pCi/L:
% >20 pCi/L:
Notes on Data Table:

18.5 33 0 TABLE 1. Screening indoor radon data from the State/EPA Residential Radon Survey of Wisconsin conducted during 1986-87. Data represent 2-7 day charcoal canister measurements from the lowest level of each home tested.

Appendix

Federal Sources

FEMA National Flood Hazard Layer	FEMA FLOOD
The National Flood Hazard Layer (NFHL) data incorporates Flood Insurance Rate Map (FIRM) databases published by the Federal Emergency Management Agency (FEMA), and any Letters Of Map Revision (LOMRs) that have been issued against those databases since their publication date. The FIRM Database is the digital, geospatial version of the flood hazard information shown on the published paper FIRMs. The FIRM Database depicts flood risk information and supporting data used to develop the risk data. The FIRM Database is derived from Flood Insurance Studies (FISs), previously published FIRMs, flood hazard analyses performed in support of the FISs and FIRMs, and new mapping data, where available.	
Indoor Radon Data	INDOOR RADON
Indoor radon measurements tracked by the Environmental Protection Agency(EPA) and the State Residential Radon Survey.	
Public Water Systems Violations and Enforcement Data	PWSV
List of drinking water violations and enforcement actions from the Safe Drinking Water Information System (SDWIS) made available by the Drinking Water Protection Division of the US EPA's Office of Groundwater and Drinking Water. Enforcement sensitive actions are not included in the data released by the EPA. Address information provided in SWDIS may correspond either with the physical location of the water system, or with a contact address.	
Radon Zone Level	RADON ZONE
Areas showing the level of Radon Zones (level 1, 2 or 3) by county. This data is maintained by the Environmental Protection Agency (EPA).	
Safe Drinking Water Information System (SDWIS)	SDWIS
The Safe Drinking Water Information System (SDWIS) contains information about public water systems as reported to US Environmental Protection Agency (EPA) by the states. Addresses may correspond with the location of the water system, or with a contact address.	
Soil Survey Geographic database	SSURGO
The Soil Survey Geographic database (SSURGO) contains information about soil as collected by the National Cooperative Soil Survey at the Natural Resources Conservation Service (NRCS). Soil maps outline areas called map units. The map units are linked to soil properties in a database. Each map unit may contain one to three major components and some minor components.	
U.S. Fish & Wildlife Service Wetland Data	US WETLAND
The U.S. Fish & Wildlife Service Wetland layer represents the approximate location and type of wetlands and deepwater habitats in the United States.	
USGS Current Topo	US TOPO
US Topo topographic maps are produced by the National Geospatial Program of the U.S. Geological Survey (USGS). The project was launched in late 2009, and the term "US Topo" refers specifically to quadrangle topographic maps published in 2009 and later.	
USGS Geology	US GEOLOGY
Seamless maps depicting geological information provided by the United States Geological Survey (USGS).	
USGS National Water Information System	FED USGS
The U.S. Geological Survey (USGS)'s National Water Information System (NWIS) is the nation's principal repository of water resources data. This database includes comprehensive information of well-construction details, time-series data for gage height, streamflow, groundwater level, and precipitation and water use data.	
Wells from NWIS	FED USGS
The U.S. Geological Survey's National Water Information System (NWIS) is the nation's principal repository of water resources data. The NWIS includes comprehensive information of well-construction details, time- series data for gage height, streamflow, groundwater level, and precipitation and water use data. This NWIW dataset contains select Site Types from the overall NWIS Sites data, limited to the following Group Site Types only: Groundwater Group Site Types: Well, Collector or Ranney type well, Hyporheic-zone well,	

Appendix

Interconnected Wells, Multiple wells; Spring Group Site Type: Spring; and Other Group Site Types: Aggregate groundwater use, Cistern.

State Sources

Historic Well Construction Reports (1930-1989)	WATER WELLS
A list of Historic Well Construction Reports, made available by the Wisconsin Geological and Natural History Survey (WGNHS). The data includes private wells drilled for drinking water use from 1936 to 1989 and was compiled from well construction reports (WCRs) that were submitted by well drillers to the Wisconsin Department of Natural Resources (DNR). Since 1936, well drillers are required by the Wisconsin Department of Natural Resources (DNR) to file a well construction report for the construction of any well used for drinking water.	
Oil and Gas Wells	OGW
As of WI state regulatory agencies, FracTracker Alliance - state of South Wisconsin confirmed not to have any active (drilled but not plugged) oil and gas wells.	
Public Water Supply Systems	PWS
The Department of Natural Resources, Bureau of Drinking Water and Groundwater maintains data about Wisconsin's drinking water and groundwater quality. The Bureau's Drinking Water System is to enforce the Safe Drinking Water Act (SDWA) regulations covering Public Water Systems (PWS).	
Well Construction Report	PRIVATE WW
This is the list of Private Water Well data, maintained by Wisconsin Department of Natural Resources (DNR). The Data contains the private wells drilled for drinking water use, during 1988 to present.	
Well Inventory	WELL
Groundwater Retrieval Network (GRN) database contains the list of well data, maintained by Wisconsin Department of Natural Resources. The Data covers the period from the early 1970s to present for the Public Water Supply data; 1988 to present for the Private Water Supply data; from the mid 1970s to present for the GEMS database; and from the mid 1970s to present for the SWAMP system.	

Liability Notice

Reliance on information in Report: The Physical Setting Report (PSR) DOES NOT replace a full Phase I Environmental Site Assessment but is solely intended to be used as a review of environmental databases and physical characteristics for the site or adjacent properties.

License for use of information in Report: No page of this report can be used without this cover page, this notice and the project property identifier. The information in Report(s) may not be modified or re-sold.

Your Liability for misuse: Using this Service and/or its reports in a manner contrary to this Notice or your agreement will be in breach of copyright and contract and ERIS may obtain damages for such mis-use, including damages caused to third parties, and gives ERIS the right to terminate your account, rescind your license to any previous reports and to bar you from future use of the Service.

No warranty of Accuracy or Liability for ERIS: The information contained in this report has been produced by ERIS Information Inc. ("ERIS") using various sources of information, including information provided by Federal and State government departments. The report applies only to the address and up to the date specified on the cover of this report, and any alterations or deviation from this description will require a new report. This report and the data contained herein does not purport to be and does not constitute a guarantee of the accuracy of the information contained herein and does not constitute a legal opinion nor medical advice. Although ERIS has endeavored to present you with information that is accurate, ERIS Information Inc. disclaims, any and all liability for any errors, omissions, or inaccuracies in such information and data, whether attributable to inadvertence, negligence or otherwise, and for any consequences arising therefrom. Liability on the part of ERIS is limited to the monetary value paid for this report.

Trademark and Copyright: You may not use the ERIS trademarks or attribute any work to ERIS other than as outlined above. This Service and Report(s) are protected by copyright owned by ERIS Information Inc. Copyright in data used in the Service or Report(s) (the "Data") is owned by ERIS or its licensors. The Service, Report(s) and Data may not be copied or reproduced in whole or in any substantial part without prior written consent of ERIS.

Appendix C

Thaler Oil Company, Inc.

Detail Report

Map Key	Numbe Record	er of Is	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site		DB
1	1 of 1		ENE	0.08/ 431.55	1,101.63 / -31	THALER OIL 807 JANICK STANLEY W	L COMPANY, INC. I ROAD /I 54729	TIER 2
Facility ID:		200309			Country	R(US	
Facility Stat	us:	ACTIVE			No of Ch	emicals:	1	
Facility Type	e:	Facility			No of Eh	IS Chemicals:	0	
NAICS:		424710			Avg Dail	y Amt Unit:	lbs	
Company N	ame:	100						
No of EHS N	Nore Than	TPQ:	0					
<u>Tier 2 Facili</u>	ties Details							
CAS No:		74986			Is Explos	sive:	No	
No of Days	Onsite:	365			Is Flamn	nable:	Yes	
Max Daily A	mount:	203520			Is Physic	cal HNOC:	No	
Is Pure:		Yes			Organic	Peroxide:	No	
IS EHS:		No			Is Oxidiz	er:	No	
Is Mix:		No			Is Pyrop	horic Gas:	No	
Is Solid Stat	te:	No			Is Self H	eating:	No	
Is Liquid Sta	ate:	Yes			Is Self R	eactive:	No	
Is Reactive	Haz:	Yes			Is Acute	Toxicity:	No	
Is Immediate	e Haz:	No			Is Aspira	tion Haz:	No	
Is Delayed H	lazard:	No			Is Carcin	ogenic:	No	
Combustible EHS Name:	e Dust:	No			Is Health	HNOC:	No	
Chemical Na	ame:		PROPANE					
Sudden Rele	ease Press	ure Haz:	Yes					
Corrosive to	Metal:		No					
Gas Under H	Pressure:		Yes					
Emission of	Gas with	Nater:	No					
Is Pyrophor	ic Liquid o	Solid:	No					
Is Germ Cell Mutagenicity:		No						
Is Reproductive Toxicity:		No						
Respiratory Skin Sensitize:		No						
Serious Eye	Serious Eye Damage Irritation: No							
Is Simple As	sphyxiant:		No					
Skin Corrosion or Irritation:		Yes						
Specific Tar	get Organ	Toxic:	No					

Appendix D

Buzz's Body Shop

WDNR SHWIMS on the Web

Navigation: <u>SOTW Home</u> >> <u>Advanced Search</u> >> <u>Search Results</u> >> Location Detail

BUZZS BODY SHOP **Facility Name**

HELP					
General Information					
Facility Name			County	WDNR Region	
BUZZS BODY SHOP			CHIPPEWA	WEST CNTRL	
Facility Status	FID	EPA ID	SIC Code	NAICS Code	
OPERATING	WID981191851				
Physical Address Find on Google Maps	Municipality	State	Zip		
RT 2 W MAPLE	STANLEY	WI	54768		
Mailing Address	City	State	Zip		
ROUTE 2 W MAPLE	STANLEY	WI	54768		
Facility Owner Type	Public Land Survey Syst	tem Desc.	Latitude and Long	itude	
PRIVATE		NOT AVAILABLE			

Facility Owner(s)

MYLON HALTERMAN ROUTE 2 W MAPLE STANLEY, WI 54768

Waste Management Activities at this Location				
Activity Type Click to view details	Activity Status	License No.		
HW GENERATOR - VERY SMALL	ACTIVE	N/A		



The Official Internet site for the Wisconsin Department of Natural Resources 101 S. Webster Street . PO Box 7921 . Madison, Wisconsin 53707-7921 . 608.266.2621

Appendix E

Gene Gustafson Residence

To go back to your search results please click the back arrow 💮 in the above Toolbar

Tank Details							
		Site and O	wner				
Site Info	County & Municipality			Owner	Owner		
Facility ID: 457883		Chippewa County		Gene Gustafson	Gene Gustafson		
Gene Gustafson		City of Stanley		W Maple St			
W Maple St		Fire Dept ID: 0909		Stanley	Stanley		
Stanley				WI 54768			
Site Anniversary Date:		Dispenser Has Sumps: N					
	Underground Storage Tank	· ID: 32459, WANG ID: 09090	0050, Abandoned w	ithout Product as of 197	5-01-01		
Install Date:		Capacity In Gallons:	500	Contents:	Leaded Gasoline		
Tank Occupancy:	Residential	Marketer:	Ν	CAS Number			
Federally Regulated:	No	Spill Protection:	Not Installed	Overfill Protection:	Not Installed		
Overfill Prot Type:	Not Installed	Containment Sump Installed:	Ν	Lining Inspected Date	2:		
Corrosion Protect Type:		Date Of Lining:		Underground Piping:	Y		
Leak Detection:		Wall Type:	Single				
Leak Test Method:							
Construction Material:	Coated Steel						
		PIPING - Abandoned	without Product				
Flex Connectors:	Ν	UST Mainfolded: N		Related Tank ID: 1	18830		
Туре:	Piping (Storage Tank)	Aboveground Piping: N		Aboveground Pipe Cons:			
Construction Material:	Unknown	Corrosion Protect Type:		Leak Detection: U	nknown		
Catastrophic Leak Detectio	n:			Leak Test Method:			
				Pipe Wall Type: S	ingle		
				Piping System Type:			
Inspection Test Dates							
Т	est Type	Test Da	te	Tes	t Expire Date		

Appendix F

L. Romanowski Corporation

Tank Search Public Number of matching records:	Access						3/28/2023 9:41 AM
Tank Type	Tank ID	Facility ID	Street Address	Tank Status	Tank Contents	Tank Size (Gal)	Facility Owner
County: Chippewa County	, FDID: 090	2					
Underground Storage Tank	76896	<u>466131</u>	Rte 3	In Use	Leaded Gasoline	300	Kenneth Romanowski
County: Chippewa County	, FDID: 090	9					
Underground Storage Tank	71666	<u>463619</u>	Rte 2	In Use	Diesel	300	Jim Romanowski
County: Chippewa County, FDID: 6004							
Underground Storage Tank	75286	<u>416927</u>	N2118 Skyline Dr	In Use	Leaded Gasoline	300	Larry Romanowski
Underground Storage Tank	75292	<u>447090</u>	W17137 Cths	In Use	Leaded Gasoline	300	Dan Romanowski

Appendix G

Sanborn Fire Map Information



Project Property:	City of Stanley Industrial Park Development Project
	80th Ave
	Stanley WI 54768
Project No:	CCEDC 22001
Requested By:	CBS Squared, Inc
Order No:	23031400190
Date Completed:	March 14, 2023

Please note that no information was found for your site or adjacent properties.

Wetland Delineation Report

Stanley Industrial Park City of Stanley Chippewa County, Wisconsin

June 2023

Prepared for: CBS Squared, Inc 770 Technology Way Chippewa Falls, WI 54729

Prepared by: Ingraham Technical Services, Inc. 19775 55th Avenue Chippewa Fall, WI 54729



WETLAND DELINEATION CONFIRMATION REQUEST CHECK LIST WDNR WETLAND IDENTIFICATION PROGRAM

The following is the <u>preferred</u> order for all information provided in wetland delineation reports submitted for wetland confirmation. Please include this completed checklist with all wetland delineation report submittals. All of the following <u>must</u> be included with all wetland delineation reports that are submitted for confirmation:

X Introductory Section

- Why the delineation was undertaken
- Date the field work was completed
- Who conducted field work
- Qualifications

X Methods used during the wetland delineation

- Description of methods
- Sources Reviewed (WWI mapping, Soil Survey, etc.)
- Description of any site specific agency guidance (site meetings, etc.)

X Results and Discussion

- Antecedent hydrologic condition analysis
- Previous wetland delineation mapping
- Existing environmental mapping (WWI mapping, Soil survey, etc.)
- Amount and types of wetland located within the project area
- Discussion explaining how the wetland/upland boundary was differentiated
- Disturbed and problematic areas encountered during the delineation
- Other water resources located in the project area (navigable streams, etc.)
- X
 Topographic mapping (Include map scale, clearly identified review area, a north arrow)

 X
 WWI mapping (Include map scale, clearly identified review area, a north arrow)

 X
 Soil Survey mapping (Include map scale, clearly identified review area, a north arrow)

 X
 Wetland Delineation Map showing an accurate depiction of wetland boundaries and data points identified during field investigation (Include map scale, clearly identified review area, a north arrow)

 X
 Complete, legible wetland delineation data forms from the appropriate regional supplement

 X
 Site photos

 X
 Any previous delineation information

 X
 Areas that are currently, or were recently (less than three years prior to the delineation) under agricultural production must include a Farm Service Agency (FSA) Slide Review. All FSA Slide Reviews should include the following:

 •
 Conjes or photos of slides if available
 - Copies or photos of slides if available
 - A completed wetland documentation form (NRCS form NRCS-CPA-32W)
 - A copy of the draft NRCS Wetland Inventory map if available

X Literature Cited

Please include this completed checklist with all wetland delineation report submittals.

Certification Page Wetland Delineation Report

Stanley Industrial Park City of Stanley Chippewa County, Wisconsin

> Prepared for: CBS Squared, Inc 770 Technology Way Chippewa Falls, WI 54729

Prepared by: Kerry Ingraham Ingraham Technical Services, Inc. 19775 55th Avenue Chippewa Fall, WI 54729

The procedures described in this report and the field methods used constitute an official wetland delineation in accordance with the 1987 U.S Army Corps of Engineers *Wetland Delineation Manual and Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral Northeast Region* (version 2).

The field delineation was completed by Kerry Ingraham. The methodology meets the standards and criteria described in the manual and conforms to the application standards and regulations in force at the time of the fieldwork was completed. The results reflect conditions present at the time of the delineation.

I hereby certify that this report was prepared by me.

Prepared by:	Kury F. Jagah	June 12, 2023
	Kerry Ingraham	Date
	WDNR Assured Wetland Delineator 2022	
	Ingraham Technical Services	



Table of Contents

Wetland Delineation Ch	neck List
Certification Page	
Table of Contents	
Introduction	
Methods	
Off Site Resource	ce Review1
Field Methods.	
Results	
Site Description	
Site Topography	y and Drainage2
Historical Aeria	I Photograph Review
WI Wetland Inv	entory Map Review3
Soils Review	
Climate Data Su	immary3
Field Investigation Resu	Jlts
Wetland 1	
Wetland 2	5
Wetland 3	5
Wetland 4	
Regulatory Consideration	ons7
Bibliography	
List of Tables	
Table 1: Wetlan	d Classification4
List of Figures	
Figure 1	Project Location
Figure 2	Topographic and Drainage Map
Figure 3	WI Wetland Inventory Map
Figure 4	NRCS Soil Survey Map
Figure 5	Wetland Hydrology Features
Figure 6a-c	Wetland Delineation Maps
List of Appendices	
Appendix A	Wetland Determination Data Forms
Appendix B	Climate Summary Data
Appendix C	Site Photographs
Appendix D	Methods
Appendix E	Assured Wetland Delineator Confirmation (2022)

Introduction

Ingraham Technical Services Inc of Chippewa Falls, Wisconsin (ITS) performed a wetland delineation for the CBS Squared Inc of Chippewa Falls, WI as part of the preliminary design for the Stanley Industrial Park project in Stanley, WI. The area of interest (AOI) for this delineation includes a roughly 82.4-acre parcel located at the intersection of 345th Street and State Highway 29 in the City of Stanley.

The AOI is located along the western edge of the City of Stanley, Chippewa County, Wisconsin. The property is owned by the City of Stanley (PIN# 22905-3411-00020002, PIN# 22905-3413-00020000A, PIN# 22905-3414-00020001). The AOI extends from the corner of the intersection of 345th Street and STH 29 on the southwest northward to 80th Street. The boundary of the AOI on the west, south and north is the road right-of-way (ROW) and did not include the roadside ditches. The boundary on the east is the parcel limits. The 40-acre parcel located northwest of the AOI was not included in the delineation (See Figures 1 - Project Location Map).

The purpose of this study was to investigate the subject properties, identify areas meeting the technical criteria for wetlands, delineate the jurisdictional extent of the wetland basin, and classify the wetland habitat. This report describes the methodology and results of the field delineation performed on May 17th-18th, 2023.

The wetland delineation was performed by Kerry Ingraham, Environmental Scientist/President with Ingraham Technical Services of Chippewa Falls, Wisconsin. Ms. Ingraham is a WDNR Assured Wetland Delineator.

Methods

According to the US Army Corps of Engineers, wetlands are, "those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions." This wetland delineation followed methods outlined in the *Corps of Engineers Wetland Delineation Manual* (USACE 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual*. *Northeast Region* (Version 2.0) where the presence of a wetland is determined based on three hydric criteria - vegetation, soils, and hydrology. The boundary of a wetland is where these hydric criteria give way to upland features. The following offsite and field methods were used to complete this wetland delineation.

Off Site Resource Review

Prior to completing the field investigation, documents were reviewed which provided information on soils, topography, and areas where wetlands have been identified or are likely to occur. These resources included but are not limited to maps of known and potential wetlands, soil and geologic surveys, topographic maps (2 ft. contour intervals if possible), water resources and floodplain maps, and historical aerial photographs.

Weather data was assembled and reviewed prior to the field investigation. An NRCS Antecedent Rainfall Documentation (ARD) was completed for the three months prior to the field investigation. Recent precipitation data (within 7 days) was also reviewed prior to the field investigation.

Field Methods

The field investigation identified wetland and upland features within the project limits followed by the establishment of transects perpendicular to the wetland edge. The wetland boundary was determined in the field by identifying the presence/absence of hydrophytic vegetation, hydric soils and hydrology required to establish and support a wetland. The wetland boundary is where wetland features give way to upland features. The boundary was flagged and surveyed to within one meter for documentation.

A detailed description of the Off Site and Field Methods is included in Appendix F.

Results

The results of the Offsite Resource Review and Field Investigation were used to delineate and classify the wetlands within the AOI. The following sections describe the results of these efforts.
Site Description

The AOI is on the west side of the City of Stanley, Section 34 T29N R05W in Chippewa County Wisconsin. The area investigated was a rural, sparsely developed section of Stanley. Land use in the area is and has historically been agricultural. This area is proposed as a new industrial park. The AOI is bounded on the west and north by the ROW (33-ft from centerline) of 345th Street and 80th Avenue, respectively. The AOI extends to the adjacent parcel limits on the east and to the STH 29 ROW on the south. See Figure 1 – Site Location.

Recent use of the property has been for row crops. An historical farmstead is in the southwest corner of the AOI. An apparent wooded wet spot in the southeast area of the AOI is not used for crop production.

Site Topography and Drainage

The topography in the vicinity of the subject properties is relatively flat with rolling hills. The topography of the AOI includes a linear hill at the west and central area with the highest point 1130 ft. The topography slopes away from the high point toward the north and east at 2-5 % before flattening at the edges of the AOI. The wooded wet area and an offsite wetland to the east are allocated in these flatter slope areas. The low points of the AOI are located along the north and east at an elevation of approximately 1095 ft. (see Figure 2 - Topography).

Drainage in the AOI flows by sheet flow and/or is captured by a shallow grass-lined swales that convey drainage downslope from the top of the hill. Drainage toward the southeast includes a swale the discharges into the wooded wet area and offsite toward the east. A second drainage swale runs from the central part of the AOI east to an offsite wet area. Drainage toward the north flows by sheet flow (no swale) to a flat area prior to discharging to a culvert along 80th Avenue.

The surface water drainage from the AOI is conveyed north through wetlands toward the low-lying valley. The wet area drains into an unnamed stream (Wisconsin Body Identification Code (WBIC) 2146900) The drainage toward the south and east flows through wet areas to an unnamed stream (WBIC 2147000). Both unnamed streams flow into the Wolf River (WBIC 2146000). The drainage system extends south into the North Fork Eau Claire River, LC17 watershed. The AOI is not in the floodplain of any waterbody according to the Flood Hazard Zone Map review.

Historical Aerial Photograph Review:

A review of historical aerial photographs was completed to gain an understanding of the historical changes to land use, topography, drainage, or other factors influencing the presence of wetlands. The property has historically been used for agricultural purposes. Accordingly, each photograph was reviewed for the presence of wet signatures in general accordance with USACE Guidance July 1, 2016. Crop signatures of potential wetland hydrology were identified for further evaluation in the field. Aerial photographs from 1938, 1999, 2005, 2010, 2016 and 2019 were reviewed.

The 1938 photograph showed the entire AOI was used for agricultural purposes. The remainder of the photographs confirm that the AOI was used for agricultural purposes until the present. The primary farmstead was in the southwest corner of the AOI, Contour farm methods were used in some years to minimize the erosion from the fields. Grassed drainage swales were left fallow in two locations in the AOI. These swales flow toward the east and discharge into wetlands either onsite (wooded wet area) or offsite along the eastern project limits. Areas near the apparent wetlands show agricultural signatures of wetland hydrology or were left fallow.

The photographs were reviewed for indications of potential indicators of wetland hydrology. Areas identified included the following. All areas were reviewed onsite during the field investigation (See Figure 5):

- Drainage swales flowing east toward wet areas.
- Areas adjacent to mapped wetlands, typically at the toe of the steeper slopes of the agricultural field.
- Areas of the flatter topographic relief exhibiting wet signatures in one or more photographs.

Wetland Inventory Map Review:

The Wisconsin Wetland Inventory (WWI) Map (Figure 3) was reviewed to identify the presence of mapped wetlands, wetland indicators and hydric soils on or in the vicinity of the AOI.

The WWI Map identifies two wetlands within the AOI. A T3K is positioned at the foot slope of a drainage swale on the southeast border of the AOI. Hydric soil Cb lies within the borders of the mapped wetland on three sides, extending beyond the wetland and AOI to the southeast

The second mapped wetland is a S3/E1K. It is positioned along the eastern boundary of the AOI, midway between the north and south project limits. Only a small portion of this mapped wetland lies within the AOI.

Soils Map Review:

The Chippewa County Soil Survey Map (Figure 4) indicate the following four soil series present within the AOI:

Cb – Capitola-Cabana complex, 0 to 2 percent slopes, very stony. This soil is present in a small area on the southeast border of the AOI, extending southeast beyond the AOI. This soil series is poorly drained to very poorly drained and is listed on the Wisconsin Hydric Soil List as WI Predominantly Hydric.

LoC2 – Loyal silt loam, 6 to 12 percent slopes. This soil surrounds the Capitola-Cabana soil in the southeast corner of the AOI that is actively cropped. This soil series is moderately well drained and is listed on the Wisconsin Hydric Soil List as WI Nonhydric.

SrB – Spencer silt loam, 2 to 6 percent slopes. This soil is formed on ground moraines and is identified in the northern half of the AOI. This soil series is moderately well drained and is listed on the Wisconsin Hydric Soil List as WI Nonhydric.

WeB – Withee silt loam, 0 to 3 percent slopes. This soil is formed on ground moraines and is the most prevalent soil within the AOI. This soil series is somewhat poorly drained and is listed on the Wisconsin Hydric Soil List as WI Predominantly Nonhydric.

Climate Data Summary:

An antecedent precipitation evaluation was conducted for the three months prior to the field investigation (Feb-April 2023). The results of an NRCS Antecedent Rainfall Documentation (ARD) evaluation using the Chippewa Valley Regional Airport weather station WETS data indicated conditions were Wetter than normal.

The Palmer Drought Index indicates hydrological conditions were Mid-range (-1.99 to +1.99) just prior to the site visit. In addition to the ARD and Palmer Index, the precipitation data just prior to the field investigation was reviewed. It appears that the precipitation in early May (within 14 days of the field visit) was Normal, trending toward Dry. (Appendix B).

Based on review of all meteorological data, climatic/hydrologic conditions were considered Normal at the time of the field investigation.

Field Investigation Results

Results of the offsite review, topographical position, observations of hydrophytic vegetation, soils and hydrology indicators, or lack thereof, along with best professional judgment were all used to identify wetlands versus upland in the AOI. Four wetland basins were identified in the AOI. The following section describes the four wetland basins and the basis for determining the wetland boundaries. See Table 1 (below), Appendix A for Wetland Delineation Data Forms, Wetland Delineation Map (Figure 5), and site photographs (Appendix D).

All landscape alterations within the AOI are associated with historic agricultural use. These altercations were conducted under normal farming practices and therefore, the AOI was considered to have normal circumstances. Topographical position, review of historical and recent aerial photographs, observation of soil and hydrology indicators (or lack thereof), along with best professional judgement were all used to identify the wetland boundary.

Wetland No.	Size (Sq. ft.)	WWI Classification	Cowardin Classification	Fish & Wildlife Service Circular 39	Basic Guide to Wisconsin Wetlands and Their Boundaries
1	17,500	E1K	PEM1C	Type 1: Seasonally flooded basin or flat	Fresh (Wet) Meadow
2	39,000	ТЗК	PFO1C	Type 7: Wooded Swamp	Lowland Hardwood Swamp
3	10,750	S3/E1K	PSS1/EM1C	Type 6: Shrub Swamp/Type 1: Seasonally Basin or Flat.	Shrub-Carr/Fresh (Wet) Meadow
4	5000	E1K	PEM1C	Type 1: Seasonally flooded basin or flat	Fresh (Wet) Meadow

Table 1 – Wetland Classification

*Wetland size refers only to the AOI; wetlands may extend outside the AOI

WWI Definitions:

E1K – Emergent/Wet Meadow (E); Persistent (1); Wet soil, Palustrine (K)

S3K – Scrub/Shrub (S); Broad-leaved, deciduous (3); Wet soil, Palustrine (K)

T3K – Forested; Broad-leaved, deciduous (3); Wet soil, Palustrine (K)

Cowardian Definitions:

PEM1C – Palustrine (P), Emergent (EM), Persistent (1), Seasonally Flooded (C) PSS1 – Palustrine (P); Scrub-shrub (SS); Broad-leaved, deciduous (1), Seasonally Flooded (C) PFO1C - Palustrine (P); Forested (FO); Broad-leaved, deciduous (1), Seasonally Flooded (C)

Wetland 1 (E1K)

Wetland 1 is in a depression on the footslope of a hillslope in an agricultural field. It includes the ditch at the base of the road slope. The Wetland Map (figure 3) does not identify a mapped wetland in this location. A large rectangular area appeared to have been sprayed with herbicide. The dead dominant vegetation was reed canary grass (*Phalaris arundinacea* – FACW). The road slope ditch was not sprayed with herbicide and was dominated by reed canary grass. Vegetation was significantly disturbed therefore it did not meet the technical criteria for hydrophytic vegetation. The wetland continues to the east outside the AOI.

Supporting documentation of field observations are found in Appendix A on data sheets labeled Sample Points (SP) 1-wet and SP 1-up.

Soils consisted of silty loam underlain by silty clay loam. Soils met the technical criteria for hydric soil indicators A11 – Depleted Below Dark Surface and F3 – Depleted Matrix.

Primary wetland hydrology indicators were high water table (A2) and saturation (A3). There was one secondary wetland hydrology indicator, geomorphic position (D2). Water table was encountered at 10 inches below ground surface. Saturation was observed at 8 inches below ground surface. The wetland sample point met wetland hydrology criteria.

The wetland sample point did not meet the criteria for hydrophytic vegetation due to the vegetation being significantly disturbed but did meet wetland criteria for hydrophytic soil and wetland hydrology therefore, the wetland sample point met wetland criteria.

The Upland sample point (SP 1-up) is upslope to the west of SP 1-wet. No live vegetation was present (same as SP 1-wet). The dead dominant vegetation was reed canary grass and foxtail. Vegetation was significantly disturbed and therefore, did not meet the technical criteria for hydrophytic vegetation. Soils did not meet the technical criteria for a hydric soil indicator. No primary or secondary hydrology indicators were observed.

Saturation nor water table were encountered. The upland sample point did not meet the technical criteria for hydrophytic soil or wetland hydrology therefore, the upland sample point did not meet wetland criteria.

Wetland 2 (T3K)

Wetland 2 is a wooded wetland in a depression on the footslope of a hillslope. The Wetland Map (Figure 3) shows this wetland as an isolated wetland, but field verification proved Wetland 2 (T3K) to be hydrologically connected to Wetland 1. Surface water flows from a drainage swale upslope to the west into the wetland and downslope to the east into Wetland 1.

Supporting documentation of field observations are found in Appendix A on data sheets labeled sample points (SP) 2-wet, 2.1-up, and 2.2-up.

Dominant vegetation in the tree stratum was white oak (*Quercus alba* – FACU) and American elm (*Ulmus americana* – FACW). Dominated vegetation in the shrub stratum was black cherry (*Prunus serotina* – FACU), buckthorn (*Rhamnus cathartica* – FAC), and Missouri gooseberry (*Ribes missouriense* – NI). Dominant vegetation in the herb layer was Virginia waterleaf (*Hydrophyllum virginianum* – FAC) and stinging nettle (*Urtica dioica* – FACW). Hydrophytic vegetation criteria was met with the Dominance Test.

Soils consisted of 10 inches of dark silty loam underlain by at least 12 inches of light gray silty loam with a depleted matrix. Soils met the technical criteria for hydric soil indicators A11 – Depleted Below Dark Surface and F3 – Depleted Matrix.

There was one primary wetland hydrology indicator, saturation (A3) and one secondary wetland hydrology indicator, geomorphic position (D2). Water table was encountered at 15 inched below ground surface. Saturation was observed at 12 inches below ground surface. The wetland sample point met wetland hydrology criteria.

The wetland sample point met the technical criteria for hydrophytic vegetation, hydrophytic soil and wetland hydrology therefore, the wetland sample point met wetland criteria.

Two upland sample points were taken (SP 2.1-up, SP 2.2-up). SP 2.1-up is located on the north side of the wetland where the cropped field meets the woodland. The field was planted in winter rye. The sample point is in a very shallow depression where the vegetation was sparse and appeared to have been washed out by heavy rainfall. Soil cracks were observed. SP 2.2-up is in a drainage swale west of the wetland. Historic aerial photographs show the drainage swale has never been plowed or planted.

Hydrophytic vegetation criteria was not met at SP 2.1-up due to it being significantly disturbed but was met at SP 2.2-up with reed canary grass being the dominant vegetation (*Phalaris arundinacea* – FACW) in the drainage swale. Soils did not meet the technical criteria for a hydric soil indicator. No primary or secondary hydrology indicators were observed. Saturation nor water table were encountered. Although SP 2.2-up met the criteria for hydrophytic vegetation and SP 2.1-up did not, neither sample point met wetland criteria for hydrophytic soil or wetland hydrology therefore, the upland sample points did not meet wetland criteria.

Wetland 3 (S3/E1K)

Wetland 3 is located on the eastern border, midway between the northern and southern border of the AOI. The Wetland Map (Figure 3) identifies this wetland as an isolated wetland. Only a small portion of the wetland lies within the AOI with the majority extending southeast, outside the AOI.

The wetland is in a cropped field positioned in a depression on the toeslope of a hillslope. Vegetation was significantly disturbed as it is a cropped field currently planted in winter rye. Therefore, the vegetation did not meet the technical criteria for hydrophytic vegetation. The crop was thin and washed out on the slope in and around the wetland border with surface soil cracks present. Downslope to the southeast, the field was left unplowed/unplanted and had deep tire ruts in the soil. Corn stubble remained from last year showing the soil had recently supported a crop. An herbicide application appeared to have been applied possibly last fall as

there was a distinct line of live and dead vegetation. The vegetation was dominated by reed canary grass (Phalaris arundinacea – FACW).

Supporting documentation of field observations are found in Appendix A on data sheets labeled sample points (SP) 3-wet, 3.1-wet and 3.2-up.

Soils consisted of 10 inches of dark silty loam underlain by at least 12 inches of light gray silty loam with a depleted matrix. Soils met the technical criteria for hydric soil indicators A11 – Depleted Below Dark Surface and F3 – Depleted Matrix.

SP 3-wet had no primary wetland hydrology indicators. Two secondary wetland hydrology indicators were met with surface soil cracks (B6) and geomorphic position (D2). Neither saturation nor water table observed. The wetland sample point met wetland hydrology criteria.

Two upland sample points were taken (SP 3.1-up, SP 3.2-up). SP 3.1-up is in the cropped field northwest of SP 3-wet. The field was planted in winter rye. The sample point is on an approximate 5 percent slope where the vegetation was sparse and appeared to have been washed out by heavy rainfall. Soil cracks were observed. SP 3.2-up is in a drainage swale west of the wetland. As with SP 2.2-up, historic aerial photographs show the drainage swale at SP 3.2-up has never been plowed or planted.

Hydrophytic vegetation criteria was not met at SP 3.1-up due to it being significantly disturbed but was met at SP 3.2-up with reed canary grass being the dominant vegetation (*Phalaris arundinacea* – FACW) in the drainage swale. Soils did not meet the technical criteria for a hydric soil indicator. No primary or secondary hydrology indicators were observed. Saturation nor water table were encountered. Although SP 3.2-up met the criteria for hydrophytic vegetation and SP 3.1-up did not, neither upland sample point met wetland criteria for hydrophytic soil or wetland hydrology therefore, the upland sample points did not meet wetland criteria.

Wetland 4 (E1K)

Wetland 4 is in a shallow depression on the northwest border of the AOI west of the entrance to the field. The Wetland Map (figure 3) does not identify a mapped wetland in this location. A cropped planting of winter rye dominated the plowed field portion of the wetland and reed canary grass (Phalaris arundinacea – FACW) dominated the unplowed portion adjacent to the road ditch in the road right of way. The wetland continues into the road ditch outside the AOI.

Supporting documentation of field observations are found in Appendix A on data sheets labeled Sample Points (SP) 4-wet and SP 4-up.

SP 4-wet is in the unplowed area of the wetland adjacent to the road ditch. Dominant vegetation was reed canary grass (*Phalaris arundinacea* – FACW) which met the technical criteria for hydrophytic vegetation.

Soils at SP 4-wet consisted of 8 inches of dark silty loam underlain by at least 14 inches of silty loam and silty clay loam with a depleted matrix. Soils met the technical criteria for hydric soil indicator F3 – Depleted Matrix.

SP 4-wet had no primary wetland hydrology indicators. Three secondary wetland hydrology indicators were met with surface soil cracks (B6), geomorphic position (D2), and FAC-neutral test (D5). Neither saturation nor water table observed. The wetland sample point met wetland hydrology criteria.

The wetland sample point met the technical criteria for hydrophytic vegetation, hydrophytic soil and wetland hydrology therefore, the wetland sample point met wetland criteria.

The upland sample point (SP 4-up) is in the cropped field upslope to the south of SP 4-wet. Vegetation was significantly disturbed due to cropping. Hydrophytic vegetation criteria was not met at SP 4-up due to it being significantly disturbed. Soils consisted of silty loam underlain by silty clay loam. Soils at SP 4-up did not meet the technical criteria for a hydric soil indicator. No primary hydrology indicators were observed. There was one secondary hydrology indicator, surface soil cracks (B6). Saturation nor water table were encountered. The

upland sample point did not meet the technical criteria for hydrophytic vegetation, hydric soil, or wetland hydrology therefore, the upland sample point did not meet wetland criteria.

Regulatory Considerations

Kerry Ingraham, Environmental Scientist/President with Ingraham Technical Services is a WDNR Assured Wetland Delineator. A letter describing her authority and the use of this report under the Wetland Delineation Professional Assurance Program is provided in Appendix F.

Wetlands in the project area are regulated by agencies at the local, state, and federal levels including the USACE and USEPA at the federal level and the WDNR at the state level. The findings of this wetland delineation report are based on the site conditions which existed at the time of this investigation and may not be valid if conditions change. Wetland boundaries presented in this report may be subject to confirmation by the WDNR and potentially USACE (depending on jurisdiction). The final authority for wetland boundaries and permit requirements is regulated by the government agencies which have jurisdiction over this project. Construction plans that propose any direct alteration or indirect impact to wetlands or watercourses within the project area will require approvals from the appropriate regulatory agencies (potentially including local zoning requirements). Violation of the wetland regulations can result in substantial civil and/or criminal penalties.

Bibliography

Black, M.R. and E.J. Judziewicz, 2009. Wildflowers of Wisconsin and the Great Lakes Region. The University of Wisconsin Press, Madison Wisconsin.

Chadde, S.W., 1998. A Great Lakes Wetland Flora. Pocketflora Press, Calumet, Michigan.

Eggers and Reed, 2014. Wetland Plants and Plant Communities of Minnesota & Wisconsin. U.S. Army Corps of Engineers, St. Paul District, St. Paul, Minnesota.

MUNSELL SOIL-COLOR CHARTS. 2009 Year Revised, Munsell Color, Grand Rapids, MI

Newcomb, L., 1977. Newcomb's Wildflower Guide. Little, Brown and Company, New York, New York

Palmer Drought Index https://www.ncdc.noaa.gov/temp-and-precip/drought/weekly-palmers/

U.S. Army Corps of Engineers 1987. Corps of Engineers Wetlands Delineation Manual. Technical Report Y – 87 – 1. Waterways Experiment Station, Vicksburg, Mississippi

U.S. Army Corps of Engineers 2010. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral Northeast Region (Version 2.0). U.S. Army Engineer Research and Development Center, Vicksburg, Mississippi

U.S Army CORPS of Engineers 2020. National Wetland Plant List, version 3.5 http://wetland-plants.usace.army.mil/ U.S. Army CORPS of Engineers, Engineer Research and Development Center, Cold Regions Research and Engineering Laboratory, Hanover, NH

USDA Natural Resources Conservation Service. NCSS Web Soil Survey http://websoilsurvey.nrcs.usda.gov/app/

USDA Natural Resources Conservation Service. 2018. Field Indicators of Hydric Soils in the United States, Version 8.2. L. M. Vasilas, G. W. Hurt, and C. V. Noble (eds.). USDA, NRCS, in cooperation with the National Technical Committee for Hydric Soils.

USDA Soil Conservation Service. 1991. Hydric Soils of the United States. In cooperation with the National Technical Committee for Hydric Soils. USDA-SCS, Washington, D.C.

Wisconsin Coastal Management Program, 1995. PUBL-WZ-029-94. Basic Guide to Wisconsin's Wetlands and Their Boundaries. Madison, WI

Wisconsin Department of Natural Resources Wetlands Inventory Map, Surface Water Data Viewer On-line Database. <u>http://dnrmaps.wi.gov/SL/Viewer.html?Viewer=SWDV&runWorkflow=Wetland</u>

List of Figures

- Figure 1 Project Location
- Figure 2 Topographic and Drainage Map
- Figure 3 WI Wetland Inventory Map
- Figure 4 NRCS Soil Survey Map
- Figure 5 Wetland Hydrology Features
- Figure 6 Wetland Delineation Map
- Figure 6A Wetland 1 & 2 Delineation Map
- Figure 6B Wetland 3 Delineation Map
- Figure 6C Wetland 4 Delineation Map



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



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





USDA Natural Resources

Conservation Service

	MAP LE	GEND		MAP INFORMATION
Area of Interest (A	OI) f Interest (AOI)	8	Spoil Area Stony Spot	The soil surveys that comprise your AOI were mapped at 1:15,800.
Soils Soil M	ap Unit Polvoons	â	Very Stony Spot	Warning: Soil Map may not be valid at this scale.
Soil M	ap Unit Lines	\$	Wet Spot	Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soi
Soil M	ap Unit Points	4	Other Special Line Features	line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detaile
Special Point Fe	atures	· · ·		scale.
Blowo	ut	Water Fea		Please rely on the har scale on each man sheet for man
🔀 Borrov	v Pit	\sim	Streams and Carlais	measurements.
💥 Clay S	pot	Transport	ation Rails	Source of Map: Natural Resources Conservation Service
♦ Closed	I Depression	~	Interstate Highways	Coordinate System: Web Mercator (EPSG:3857)
💥 Grave	Pit	~	US Routes	Maps from the Web Soil Survey are based on the Web Mercat
Grave	ly Spot	\sim	Major Roads	projection, which preserves direction and shape but distorts
🚳 Landfi	1	~	Local Roads	Albers equal-area conic projection that preserves area, such as in Albers equal-area conic projection, should be used if more
🙏 🛛 Lava F	low	Backgrou	nd	accurate calculations of distance or area are required.
Arsh Marsh	or swamp	No.	Aerial Photography	This product is generated from the USDA-NRCS certified data of the version date(s) listed below.
🙊 Mine c	or Quarry			Soil Survey Area: Chippewa County, Wisconsin
Miscel	laneous Water			Survey Area Data: Version 19, Sep 15, 2022
Pereni	nial Water			Soil map units are labeled (as space allows) for map scales
V Rock 0	Dutcrop			1:50,000 or larger.
🕂 Saline	Spot			Date(s) aerial images were photographed: Jul 21, 2022—Se 13. 2022
Sandy	Spot			The orthophoto or other base map on which the soil lines were
Severe	ely Eroded Spot			compiled and digitized probably differs from the background
Sinkho	le			Imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.
Slide of	or Slip			
🚿 Sodic	Spot			



Г

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI					
Сь	Capitola-Cebana complex, 0 to 2 percent slopes, very stony	5.7	3.9%					
LoC2	Loyal silt loam, 6 to 12 percent slopes	11.4	7.8%					
Px	Poskin silt loam, 0 to 2 percent slopes	14.4	9.8%					
Rb	Rib silt loam, 0 to 2 percent slopes	3.0	2.0%					
SrB	Spencer silt loam, 2 to 6 percent slopes	16.0	10.9%					
WeB	Withee silt loam, 0 to 3 percent slopes	96.1	65.6%					
Totals for Area of Interest		146.6	100.0%					







ITS













Appendix A Wetland Delineation Data Forms

Project/Site: Stanley Industrial Park Applicant/Owner: Neil Bowe, CBS Squared, Inc Investigator(s): Kerry Ingraham Landform (hillslope, terrace, etc.): hillslope Slope (%): 5 Lat.: Soil Map Unit Name Capitola-Cabana complex, 0 to 2 p Are climatic/hydrologic conditions of the site typical for Are vegetation X , soil , or hydrology (If needed, explain any answers in remarks)	City/County: Lo g.: significant significant naturally p	Chippewa County State: WI Section, Township ocal relief (concave, Datum: y stony (Cb) NWI Ci year? <u>YES</u> (If no, tly disturbed? oroblematic?	Sampling Date: 5/17/23 Sampling Point <u>1-wet</u> , Range: Section 34, T29N, R5W convex, none): <u>concave</u> assification: E1K explain in remarks) Are "normal circumstances" present? <u>Yes</u>
Hydrophytic vegetation present? N Hydric soil present? Y Indicators of wetland hydrology present? Y Remarks: (Explain alternative procedures here or in a	Is the sample If yes, optiona separate report.)	ed area within a wet	tland? Y Wetland 1
Wetland 1 is in a depression on the footslope ditch. Vegetation was significantly disturbed. A herbicide. The dead dominant vegetation was the AOI	ot a hillslope in a large rectangul reed canary gra	an agricultural field ar area appeared ss. The wetland c	 It includes the road slope to have been sprayed with ontinues to the east outside
Primary Indicators (minimum of one is required; check Surface Water (A1) Water-St X High Water Table (A2) Aquatic F X Saturation (A3) Marl Dep Water Marks (B1) Hydroger Sediment Deposits (B2) Oxidized Drift Deposits (B3) Roots (C Algal Mat or Crust (B4) Presence Iron Deposits (B5) Recent Ir Inundation Visible on Aerial Imagery (C6) (B7) Thin Muc Sparsely Vegetated Concave Surface Other (Expland)	all that apply) ained Leaves (B9) auna (B13) posits (B15) n Sulfide Odor (C1) Rhizospheres on Livir 3) e of Reduced Iron (C4) on Reduction in Tilled sk Surface (C7) splain in Remarks)	Secon require Sur Dra No Cra Sat SoilsStu Stu Sha Sha Sha Sha Sha	dary Indicators (minimum of two ed) face Soil Cracks (B6) ainage Patterns (B10) ss Trim Lines (B16) <i>r</i> -Season Water Table (C2) ayfish Burrows (C8) uration Visible on Aerial Imagery (C9) nted or Stressed Plants (D1) omorphic Position (D2) allow Aquitard (D3) C-Neutral Test (D5) crotopographic Relief (D4)
Field Observations: Surface water present? Yes No X Water table present? Yes X No X Saturation present? Yes X No X (includes capillary fringe) Ves X No X	 Depth (inches Depth (inches Depth (inches););10);8	Indicators of wetland hydrology present? Y
Describe recorded data (stream gauge, monitoring well Remarks: See Photos: 1-3	l, aerial photos, pr	evious inspections),	, if available:

+ifi. . nla

EGETATION - L	lse scientific names of plant	S			Sampling Point	: 1-we
Tree Stratum 1 2 3 4 4	Plot Size (30 ft. radius)	Absolute % Cover	Dominant Species	Indicator Status	Tree Stratum Sapling/Shrub Stratum Herb Stratum Woody Vine Stratum	20% 50% 0 0 0 0 0 0 0 0
Sapling/Shrub	Plot Size (15 ft. radius)	0 Absolute % Cover	= Total Cover Dominant Species	Indicator Status	Dominance Test Worksheet Number of Dominant Species that are OBL, FACW, or FAC: Total Number of Dominant Species Across all Percent of Dominant Species that are OBL, FACW, or FAC:	(# (# (#
1 2 3 4 5 5 6 7 7 8 9 9 0					Prevalence Index WorksheTotal % Cover of:OBL species0X 1 =FACW species0X 2 =FAC species0X 3 =FACU species0X 4 =UPL species0X 5 =Column totals0(A)Prevalence Index = B/A =	≥t = 0 = 0 = 0 = 0 = 0 (E
Herb Stratum 1 2 3 4 5 5 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Plot Size (5 ft. radius)	0 Absolute % Cover	= Total Cover Dominant Species	Indicator Status	Hydrophytic Vegetation Ind Rapid test for hydrophytic Dominance test is >50% Prevalence index is ≤3.0 Morphogical adaptations supporting data in Remains separate sheet) Problematic hydrophytic (explain)) *Indicators of hydric soil and wetlan present, unless disturbed or problem	icators: ic vegetation)* * (provide irks or on a vegetation* d hydrology mu: natic
9 1 2 3 4 5 Woody Vine	Plot Size (30 ft. radius)		= Total Cover Dominant	Indicator	Definitions of Vegetation S Iree - Woody plants 3 in. (7.6 cm) o breast height (DBH), regardless of h Sapling/shrub - Woody plants less greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) p size, and woody plants less than 3.	rata: r more in diamet sight. han 3 in. DBH a plants, regardles 28 ft tall.
Stratum 12 23 3 45		% Cover	Species	Status	Woody vines - All woody vines great height. Hydrophytic vegetation present? N	ter than 3.28 ft i

SOIL							S	ampling Point:	1-wet
								- · · ·	
Profile Des	cription: (Desci	ribe to t	he depth needed	to doc	<u>ument t</u>	he indic	ator or confirm the abs	sence of indicators	.)
(Inches)	Color (moist)	%	Color (moist)	%	Tvpe*	Loc**	Texture	Remar	ks
0-4	10YR 4/2	60		/0			silv loam		
	10YR 3/2	40							
4-10	10YR 3/2	95	7.5YR 3/4	5	С	м	silty clay loam	distinct concer	ntrations
10-22	10YR 5/2	80	7.5YR 4/6	20	С	М	silty clay loam	prominent conc	cetrations
		 			ļ				
		 							
		 							
		 							
*Type: C=C	L Concentration, D)=Deplet	ion, RM=Reduce	d Matri	I ix, CS=C	L Covered	or Coated Sand Grains	 3	
**Location:	PL=Pore Lining	<u>j, M=Ma</u>	trix						
Hydric Soi	I Indicators:						Indicators for Pre	oblematic Hydric S	Soils:
His His Bla Hyd Stra X Dep Thio Sar Sar Sar Sar Sar 149 *Indicators	Histisol (A1) Polyvalue Below Surface 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) (S8) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Stratified Layers (A5) Loamy Mucky Mineral Polyvalue Below Surface (S7) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) X Depleted Matrix (F3) Sandy Redox (S5) Depleted Dark Surface (F7) Stripped Matrix (S6) Redox Depressions (F8) Dark Surface (S7) (LRR R, MLRA Matrix (S6) Redox Depressions (F8) Marksurface (S7) (LRR R, MLRA Matrix (S6) Redox Depressions (F8) Marksurface (S7) (LRR R, MLRA Matrix (S6) Other (Explain in Remarks) Mays Matrix Sof hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic								
Restrictive Type: Depth (inch	Layer (if observ nes):	/ed):			-		Hydric soil pres	ent? Y	
Remarks:									

Project/Site: Stanley Industrial Park	City/County:	Chippewa County	Sampling Date: 5/17/23			
Applicant/Owner: <u>City of Stanley</u>		_State: WI	Sampling Point1-up			
Investigator(s):Kerry Ingraham		Section, Township, Range: Section 34, T29N, R5W				
Landform (hillslope, terrace, etc.): <u>hillslope</u>	Lo	Local relief (concave, convex, none): linear				
Slope (%): <u>5</u> Lat.: Lon	g.:	Datum:				
Soil Map Unit Name Loyal silt loam, 6 to 12 percent slo	pes (LoC2)	NWI C	assification: none			
Are climatic/hydrologic conditions of the site typical for	or this time of the	year? <u>YES</u> (If no,	explain in remarks)			
Are vegetation X, soil , or hydrology	significan	tly disturbed?	Are "normal			
Are vegetation, soil, or hydrology	naturally	problematic?	circumstances" present? Yes			
(If needed, explain any answers in remarks)						
SUMMARY OF FINDINGS						
Hydrophytic vegetation present? <u>N</u> Hydric soil present? N	Is the sample	ed area within a wet	land? <u>N</u>			
Indicators of wetland hydrology present?	If yes, option	al wetland site ID				
Remarks: (Explain alternative procedures here or in a	separate report.)					
SP 1-up is in an agricultural field upslope from	Wetland 1 and	SP 1-wet. Vegetat	ion was significantly disturbed.			
A large rectangular area appeared to have be	en sprayed with	herbicide. The de	ad dominant vegetation was			
reed canary grass and foxtail. See Photos: 1-3	3					
HYDROLOGY						
		Secon	dary Indicators (minimum of two			
Primary Indicators (minimum of one is required; check	all that apply)	require				
Surface Water (A1)VVater-St	ained Leaves (B9)	Sur	face Soil Cracks (B6)			
High water Lable (A2)Aquatic F	auna (B13)	Dra				
Saturation (A3)Mari Dep	OSITS (B15)	IVIOS	SS Trim Lines (B16)			
Sediment Deposite (B2)	Dhiman baran an Livia	Dry Cra	-Season Water Table $(C2)$			
Drift Deposits (B3)	Rhizuspheres on Livir					
Algal Mat or Crust (B4)	of Reduced Iron (C4)	Sati	ration Visible on Aerial Imagery (C9)			
Iron Deposits (B5)	on Reduction in Tilled	Soils Stur	nted or Stressed Plants (D1)			
Inundation Visible on Aerial Imagery (C6)		Geo	pmorphic Position (D2)			
(B7) Thin Muc	k Surface (C7)	Sha	llow Aquitard (D3)			
Sparsely Vegetated Concave Surface Other (Ex	plain in Remarks)	FAC	C-Neutral Test (D5)			
(B8)		Mic	rotopographic Relief (D4)			
Field Observations:						
Surface water present? Yes No _>	C Depth (inches)	;) <u>:</u>	Indicators of			
Water table present? Yes No _>	Depth (inches	s) <u>:</u>				
Saturation present? Yes No>	Depth (inches	;) <u>:</u>	nyarology			
(includes capillary tringe)						
Describe recorded data (stream dauge, monitoring wel	. aerial photos, p	revious inspections)	if available:			
	,, p, p.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Remarks:						

. .

Tree Stratum	Plot Size(30 ft. radius)	Absolute	Dominant	In dia atau	50/20 Thresholds	
)		% Cover	Species	Status	Tree Stratum Sapling/Shrub Stratum Herb Stratum	20% 50% 0 0 0 0
					Woody Vine Stratum	0 0
) 					Dominance Test Workshee Number of Dominant	ət
3					FACW, or FAC:	(A
)					Total Number of Dominant Species Across all	0 (B
		0	= Total Cover		Percent of Dominant	(~
Sapling/Shrub Stratum	Plot Size(15 ft. radius)	Absolute % Cover	Dominant Species	Indicator Status	FACW, or FAC:	<u>0.00%</u> (A
<u></u>					Prevalence Index Worksh	eet
3			·		OBL species 0 x 1	= 0
ł					FACW species 0 x 2	= 0
) }			·		FAC species 0 x 3 FACU species 0 x 4	= 0 = 0
,					UPL species 0×5	= 0
3					Column totals 0 (A) Prevalence Index = B/A =	<u> 0 </u> (B
)						
		0	= Total Cover		Hydrophytic Vegetation In	dicators:
Herb Stratum 2 3 4 4	Plot Size (5 ft. radius)	Absolute % Cover	Dominant Species	Indicator Status	Rapid test for hydrophy Dominance test is >50° Prevalence index is ≤3 Morphogical adaptation supporting data in Rem separate sheet)	vtic vegetation % .0* s* (provide parks or on a
;					Problematic hydrophyti	c vegetation*
;					(explain) *Indicators of hydric soil and wetla present, unless disturbed or proble	nd hydrology mus matic
2					Definitions of Vegetation S Iree - Woody plants 3 in. (7.6 cm) breast height (DBH), regardless of	Strata: or more in diamete height.
} 					Sapling/shrub - Woody plants less greater than 3.28 ft (1 m) tall.	s than 3 in. DBH ar
·		0	= Total Cover		Herb - All herbaceous (non-woody) plants, regardless
Woody Vine Stratum	Plot Size (30 ft. radius)	Absolute % Cover	Dominant Species	Indicator Status	size, and woody plants less than 3 Woody vines - All woody vines gra	3.28 ft tall. eater than 3.28 ft in
2					height.	
\$ 					Hydrophytic	
·		0	= Total Cover		present? N	
marks: (Include of	noto numbers here or on a sep	arate sheet)				

SOIL Sampling Point: 1-up Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix **Redox Features** Texture Remarks % Color (moist) Type* Loc** (Inches) Color (moist) % 0-6 10YR 3/2 sily loam 6-12 10YR 3/1 7.5YR 4/4 1 С 99 Μ sily loam 5 12-18 10YR 5/1 95 7.5YR 5/4 D Μ silty clay loam 18-22 10YR 5/1 90 7.5YR 5/4 10 D М silty clay loam *Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains **Location: PL=Pore Lining, M=Matrix Hydric Soil Indicators: Indicators for Problematic Hydric Soils: Polyvalue Below Surface 2 cm Muck (A10) (LRR K, L, MLRA 149B Histisol (A1) Coast Prairie Redox (A16) (LRR K, L, R) Histic Epipedon (A2) (S8) (LRR R, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) (LRR R, MLRA 149B Dark Surface (S7) (LRR K, L Stratified Layers (A5) Polyvalue Below Surface (S8) (LRR K, L) Loamy Mucky Mineral Depleted Below Dark Suface (A11) (F1) (**LRR K, L**) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Depleted Dark Surface (F7) Stripped Matrix (S6) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA Other (Explain in Remarks) 149B) Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: Hydric soil present? N Depth (inches): Remarks:

Project/Site: Stanley Industrial Park	City/County:	Dunn county	Sampling Date: 5/17/2023
Applicant/Owner: City of Stanley		State: WI	Sampling Point 2-wet
Investigator(s): Kerry Ingraham		Section, Township	, Range: Section 34, T29N, R5W
Landform (hillslope, terrace, etc.): depression on footsl	ope Lo	cal relief (concave,	convex, none): concave
Slope (%): 3 Lat.: Long	.:	Datum:	· /
Soil Map Unit Name Capitola-cebana complex. 0 to 2 per	rcent slopes, ver	(stony (Cb) NWI C	assification: T3K
Are climatic/hydrologic conditions of the site typical for	this time of the v	/ear? YES (If no	explain in remarks)
Are vegetation soil or hydrology	significant	lv disturbed?	Are "normal
Are vegetation, soil, or hydrology	naturally n	roblematic?	circumstances" present? Yes
(If needed, explain any answers in remarks)			
SUMMARY OF FINDINGS			
Hydrophytic vegetation present? Y	Is the sample	d area within a wet	land? Y
Hydric soil present? Y			
Indicators of wetland hydrology present? Y	If yes, optiona	al wetland site ID	Wetland 2
Remarks: (Explain alternative procedures here or in a s	eparate report.)		
Wetland 2 is a wooded wetland in a depression	on a footslone	of a hillslope. Sur	face water flows frow a
drainage swale unsland to the west into the we	tland and down	clone to the east	into Water news new a
		slope to the east	
See Photos: 4-6			
HIDROLOGI		0	dem , la die eterre (minimum ef ture
Deine markedischen Animierung of eine is mensional als als als		Second	uary indicators (minimum of two
Primary Indicators (minimum of one is required; check a	all that apply)	require	a)
Surface Water (A1)Water-Stal	ned Leaves (B9)	Suri	face Soil Cracks (B6)
High Water Table (A2)Aquatic Fa	una (B13)	Dra	inage Patterns (B10)
X Saturation (A3) Marl Depo	sits (B15)	Mos	ss Trim Lines (B16)
Water Marks (B1)Hydrogen S	Sulfide Odor (C1)	Dry	-Season Water Table (C2)
Sediment Deposits (B2) Oxidized R	hizospheres on Livin	gCra	yfish Burrows (C8)
Drift Deposits (B3) Roots (C3))		
Algal Mat or Crust (B4)Presence of	of Reduced Iron (C4)	Satu	uration Visible on Aerial Imagery (C9)
Iron Deposits (B5) Recent Iron	n Reduction in Tilled	SoilsStur	nted or Stressed Plants (D1)
Inundation Visible on Aerial Imagery (C6)		X Geo	pmorphic Position (D2)
(B7)Thin Muck	Surface (C7)	Sha	llow Aquitard (D3)
Sparsely Vegetated Concave Surface Other (Exp	lain in Remarks)	FAC	C-Neutral Test (D5)
(B8)		Mic	rotopographic Relief (D4)
Field Observations:			
Surface water present? Yes No X	Depth (inches):	Indicators of
Water table present? Yes X No	Depth (inches): 15	wetland
Saturation present? Yes X No	Depth (inches): 12	hydrology
(includes capillary fringe)			present? Y
Describe recorded data (stream gauge, monitoring well,	aerial photos, pr	evious inspections),	if available:

Remarks:

VEGETATION - Use scientific names of plants

VEGETATION - Use scientific names of plants				Sampling Point: 2-wet
Tree Stratum Plot Size (30 ft. radius)	Absolute % Cover	Dominant Species	Indicator Status	50/20 Thresholds 20% 50% Tree Stratum 12 30
1 Quercus alba	40	Ý	FACU	Sapling/Shrub Stratum 8 21
2 Ulmus americana	20	Y	FACW	Herb Stratum 31 79
3				Woody Vine Stratum 0 0
4				
5				Dominance Test Worksheet
6				Number of Dominant
7				Species that are OBL,
8				FACW, or FAC:(A)
9				Total Number of Dominant
10				Species Across all <u>7</u> (B)
	60	= Total Cover		Percent of Dominant
				Species that are OBL,
Sapling/Shrub Plot Size (15 ft. radius)	Absolute	Dominant	Indicator	FACW, or FAC: <u>57.14%</u> (A/B)
Stratum	% Cover	Species	Status	
1 Prunus serotina	20	<u> </u>	FACU	Prevalence Index Worksheet
2 Rhamnus cathartica	10	<u> </u>	FAC	Total % Cover of:
3 Ribes missouriense	10	<u>Y</u>	<u> </u>	OBL species $0 \times 1 = 0$
4 Sambucus racemosa	2	<u> </u>	FACU	FACW species $50 \times 2 = 100$
5				FAC species $135 \times 3 = 405$
6				FACU species $64 \times 4 = 256$
/				$\begin{array}{c} \text{UPL species} \underline{0} x \ 5 = \underline{0} \\ \hline \end{array} $
8				Column totals 249 (A) 761 (B)
9				Prevalence Index = $B/A = 3.06$
	42			Hydrophytic Vogetation Indicators:
	Absoluto	Dominant	Indicator	Panid test for hydrophytic vegetation
Herb Stratum Plot Size (5 ft. radius)	% Cover	Species	Status	X Dominance test is >50%
1 Hydrophyllum virginianum	75	Y	FAC	Prevalence index is $\leq 3.0^*$
2 Urtica dioica	50	Y	FAC	Morphogical adaptations* (provide
3 Impatiens capensis	30	N	FACW	supporting data in Remarks or on a
4 Arctium minus	2	N	FACU	separate sheet)
5				Problematic hydrophytic vegetation*
6				(explain)
7				*Indicators of hydric soil and wetland hydrology must be
8				present, unless disturbed or problematic
9				
				Definitions of Vegetation Strata: Iree - Woody plants 3 in. (7.6 cm) or more in diameter at
12				breast height (DBH), regardless of height.
13				
14				Sapling/shrub - Woody plants less than 3 in. DBH and
15				greater than 3.28 ft (1 m) tall.
	157	= Total Cover		
		-		nerb - All herbaceous (non-woody) plants, regardless of
Woody Vine Plot Size (20 ft, radius)	Absolute	Dominant	Indicator	size, and woody plants less than 0.20 it tan.
Stratum	% Cover	Species	Status	Woody vines - All woody vines greater than 3.28 ft in
1				height.
2				
3				
4				Hydrophytic
5				vegetation
	0	= Iotal Cover		present? <u>Y</u>
Remarks: (Include photo numbers here or on a con-	arate choot)			
Incentaries, (include prioto numbers here or on a sep-	arate sneet)			

SOIL							S	ampling Point: 2-wet		
							f firms the she			
Profile Description: (Describe to the depth needed to document)						he Indica	ator or confirm the abs	sence of indicators.)		
(Inches)	Color (moist)	%	Color (moist)	Эхгеа∟ %	Tvne*	1.00**	Texture	Remarks		
0_6	10VR 3/2	80		70			eilty loam			
0-0	10VR 2/2	20			┨────┤		Silly Man	+		
6_10	10112/2	100					silty loam	1		
10-17	10VR 5/1		10VR 5/4	10		м		Distinct concentrations		
17-22	10VR 5/2	80	7 5VR 5/6	20		M	silty loam	Distinct concentrations		
11-22	10111 0/2	00	7.511 0.0	20			Silly Ioan			
					┨────┤					
*Type: C=C	L Concentration, C)=Deplet	ion. RM=Reduce	ed Matri	x. CS=C	L Covered (or Coated Sand Grains	3		
**Location:	: PL=Pore Lining	a, M=Ma	itrix		~,					
Hydric Soi	I Indicators:	,					Indicators for Pre	oblematic Hydric Soils:		
His His Bla Hyd Stra X Deg Thio Sar Sar Sar Sar Sar Sar Sar Sar Sar Sar										
Depth (inch	nes):				-		Hydric son pres	ent? <u> </u>		
Nemanys.										

Project/Site: <u>Stanley Industrial Park</u>	City/County:	Chippewa County	_Sampling Date: 5/17/2023
Applicant/Owner: City of Stanley		State: WI	Sampling Point 2.1-up
Investigator(s): Kerry Ingraham		Section, Township	, Range: Section 34, T29N, R5W
Landform (hillslope, terrace, etc.): depression on slop	be Lo	cal relief (concave,	convex, none): <u>concave</u>
Slope (%): 1 Lat.: Lor	ıg.:	Datum:	
Soil Map Unit Name Loyal silt loam, 6 to 12 percent slo	opes (LoC2)	NWI C	lassification: none
Are climatic/hydrologic conditions of the site typical f	or this time of the y	/ear? <u>YES</u> (If no,	explain in remarks)
Are vegetation X , soil , or hydrology	significant	ly disturbed?	Are "normal
Are vegetation, soil, or hydrology	naturally p	problematic?	circumstances" present? Yes
(If needed, explain any answers in remarks)			
	l		
Hvdrophytic vegetation present? N	Is the sample	d area within a we	tland? N
Hydric soil present? N			
Indicators of wetland hydrology present? N	If yes, optiona	al wetland site ID	
, <u> </u>			
Remarks: (Explain alternative procedures here or in a	separate report.)		
SP 2.1-up is located on the north side of Wetl	and 2 where the	cropped field mee	ets the woodland. The field was
planted in winter rve. The SP iwhere the vege	tation was sparse	and looked to h	ave been washed out from
beauvirain Soil cracks were present. See Pho	tación was sparse		
lleavy Iain. Son Gacks were present. See The			
HYDROLOGY			
		Secon	darv Indicators (minimum of two
Primarv Indicators (minimum of one is required; check	all that apply)	require	d)
Surface Water (A1) Water-S	tained Leaves (B9)	X Sur	rface Soil Cracks (B6)
High Water Table (A2) Aquatic F	Fauna (B13)	 Dra	ainage Patterns (B10)
Saturation (A3) Marl De	posits (B15)	Mo	oss Trim Lines (B16)
Water Marks (B1) Hydroge	n Sulfide Odor (C1)	 Dry	v-Season Water Table (C2)
Sediment Deposits (B2) Oxidized	Rhizospheres on Livin	ig Cra	ayfish Burrows (C8)
Drift Deposits (B3)Roots (C	;3)	· <u> </u>	
Algal Mat or Crust (B4)	e of Reduced Iron (C4)	Sat	turation Visible on Aerial Imagery (C9)
Iron Deposits (B5)	ron Reduction in Tilled	SoilsStu	inted or Stressed Plants (D1)
Inundation Visible on Aerial Imagery (C6)		Ge	omorphic Position (D2)
(B7)Thin Mu	ck Surface (C7)	Sha	allow Aquitard (D3)
Sparsely Vegetated Concave SurfaceOther (E	xplain in Remarks)	FA	C-Neutral Test (D5)
(B8)		Mic	crotopographic Relief (D4)
- 1: 2:			
Field Observations:	V Danth (inchoo)	λ.	Indicators of
Surface water present? Yes No	X Depth (inches)):	wetland
Saturation present? Yes No	Y Depth (inches))	hydrology
(includes capillary fringe)		·	present? N
Describe recorded data (stream gauge, monitoring we	II, aerial photos, pro	evious inspections)	, if available:
Remarks:			

. .

EGETATION - Use scientific names of plan	nts			Sampling Po	int: 2.1-up
				50/20 Thresholds	
	Absolute	Dominant	Indicator		20% 50%
Tree Stratum Plot Size (30 ft. radius)	% Cover	Species	Status	Tree Stratum	0 0
	,			Sapling/Shrub Stratum	0 0
				Herb Stratum	2 5
				Woody Vine Stratum	2 5
				woody vine offatum	0 0
				Dominance Test Worksh	oot
				Number of Dominant	30L
				Species that are OBL,	
				FACW, or FAC:	(A)
				Total Number of Dominant	
				Species Across all	(B)
	:	= Total Cover		Percent of Dominant	
				Species that are OBL,	
Sapling/Shrub	Absolute	Dominant	Indicator	FACW. or FAC:	25.00% (A/E
Stratum Plot Size (15 ft. radius)	% Cover	Species	Status	,	
otratam		opeoles	Olulus	Broyalanco Indox Works	haat
					lieet
				Total % Cover of:	
				UBL species 0 x	1 = 0
				FACW species 2 x	2 =
				FAC species 0 x	3 =
				FACU species 8 x	4 = 32
				UPL species 0 x	5 = 0
				Column totals 10 (A	$\frac{36}{36}$ (B)
				$\frac{1}{10000000000000000000000000000000000$	$\frac{00}{3.60}$
				Frevalence Index - B/A -	3.00
		<u> </u>			
		= Total Cover			
				Hydrophytic Vegetation I	ndicators:
Herb Stratum Plot Size (5 ft radius)	Absolute	Dominant	Indicator	Rapid test for hydropl	nytic vegetation
	% Cover	Species	Status	Dominance test is >50)%
Taraxacum officinale	3	Y	FACU	Prevalence index is ≤	3.0*
Chenopodium album	3	Y	FACU	Morphogical adaptatic	ons* (provide
Arctium minus	2	Y	FACU	supporting data in Re	marks or on a
Phalaris arundinacea	2	Y	FACW	separate sheet)	
		<u>·</u>		Problematic hydrophy	tic vegetation*
					tie vegetation
				*Indicators of hydric soil and wet	land hydrology must i
				present, unless disturbed or prob	lematic
				Definitions of Vegetation	Strata:
				Iree - Woody plants 3 in. (7.6 cn	i) or more in diameter
				breast height (DBH), regardless o	f height.
				Sapling/shrub - Woody plants les	ss than 3 in. DBH and
				greater than 3.28 ft (1 m) tall.	
		- Total Cover			
				Herb - All herbaceous (non-wood	y) plants, regardless o
				size, and woody plants less than	i 3.28 ft tall.
Woody Vine Plot Size (30 ft, radius)	Absolute	Dominant	Indicator		
Stratum	% Cover	Species	Status	Woody vines - All woody vines g	reater than 3.28 ft in
				height.	
				Hydrophytic	
				veretation	
		Tatal Ories			
		= Total Cover		present? <u>N</u>	-
marks: (Include photo numbers here or on a se	eparate sheet)				
marks: (Include photo numbers here or on a s Sparslev vegetated area in a depression	eparate sheet) in agricultural f	ield at the ed	ge of the wo	ods.	

SOIL								Sampling Point:	2.1-up
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
(Inches)	Color (moist)	%	Color (moist)	JX Feat %	Tvpe*	1 00**	Texture	Rema	rks
0-12	10YR 3/2	100					silty loam		
12-20	10YR 4/2	100					silty loam		
20-22	10YR 4/1	90	7.5YR 3/3	10			silty loam	prominent con	centrations
*Type: C=C	Concentration	 =Denlet	ion RM=Reduce	d Matri	x CS=C	overed	or Coated Sand Grai	ns	
**Location:	PL=Pore Lining	. M=Ma	trix	u matri	^, 00-0	overeu		113	
Hydric Soi	Indicators:	<u>, m ma</u>					Indicators for F	Problematic Hydric	Soils:
Histisol (A1) Polyvalue Below Surface 2 cm Muck (A10) (LRR K, L, MLRA 149B Histic Epipedon (A2) (S8) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) (LRR R, MLRA 149B Dark Surface (S7) (LRR K, L, R) Depleted Below Dark Suface (A11) (F1) (LRR K, L) Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 1449. Sandy Redox (S5) Depleted Dark Surface (F7) Redox Dark Surface (F7) Redox Depressions (F8) Stripped Matrix (S6) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA Other (Explain in Remarks) *Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic						K, L, R) LRR K, L, R) LRR K, L, R) LRR K, L, R) (MLRA 149B) A, 145, 149B) 2)			
Restrictive Type: Depth (inch	Layer (if observ	ved):			-		Hydric soil pre	esent? <u>N</u>	
Remarks:									

Project/Site: Stanley Industrial Park	City/County: <u>Chippewa County</u> Sampling Date: <u>5/17/2023</u>
Applicant/Owner: <u>City of Stanley</u>	State:Sampling Point2.2-up
Investigator(s): Kerry Ingraham	Section, Township, Range: Section 34, T29N, R5W
Landform (hillslope, terrace, etc.): drainage swale on	hillslopeLocal relief (concave, convex, none):concave
Slope (%): <u>5</u> Lat.: Lor	ng.: Datum:
Soil Map Unit Name Loyal Silt Loam, 6 to 12 percent sl	lopes (LoC2) NWI Classification: none
Are climatic/hydrologic conditions of the site typical for	or this time of the year? YES (If no, explain in remarks)
Are vegetation, soil, or hydrology	significantly disturbed? Are "normal
Are vegetation, soil, or hydrology	naturally problematic? circumstances" present? Yes
(If needed, explain any answers in remarks)	
• • •	
SUMMARY OF FINDINGS	Т
Hydrophytic vocatation procent? V	Is the compled area within a wetland?
Hydric soil present?	
Indicators of wotland hydrology present?	If yes, ontional wotland site ID
Remarks: (Explain alternative procedures here or in a	separate report.)
SP 2.2-up is located in a drainage swale upslo	ope to the west of Wetland 2. The drainage swale is left fallow.
See Photos: 4-6	
HYDROLOGY	
HYDROLOGY	Secondary Indicators (minimum of two
HYDROLOGY Primary Indicators (minimum of one is required: check	Secondary Indicators (minimum of two
HYDROLOGY Primary Indicators (minimum of one is required; check Surface Water (A1) Water-Si	Secondary Indicators (minimum of two (all that apply) required) Stained Leaves (B9) Surface Soil Cracks (B6)
HYDROLOGY Primary Indicators (minimum of one is required; check	Secondary Indicators (minimum of two K all that apply) required) Stained Leaves (B9)
HYDROLOGY Primary Indicators (minimum of one is required; check	Secondary Indicators (minimum of two required) Stained Leaves (B9)
HYDROLOGY Primary Indicators (minimum of one is required; check Surface Water (A1) Water-Si High Water Table (A2) Aquatic F Saturation (A3) Marl Dep Water Marks (B1) Hydroge	Secondary Indicators (minimum of two required) Stained Leaves (B9) Stained Leaves (B9) Surface Soil Cracks (B6) Fauna (B13) posits (B15) Moss Trim Lines (B16) Dray Sulfide Odor (C1)
HYDROLOGY Primary Indicators (minimum of one is required; check Surface Water (A1) Water-Si High Water Table (A2) Aquatic F Saturation (A3) Marl Dep Water Marks (B1) Hydroget Sediment Deposits (B2) Oxidized	Secondary Indicators (minimum of two required) Stained Leaves (B9) Surface Soil Cracks (B6) Fauna (B13) Drainage Patterns (B10) posits (B15) Moss Trim Lines (B16) en Sulfide Odor (C1) Dry-Season Water Table (C2) t Rbizospheres on Living Cravfish Burrows (C8)
HYDROLOGY Primary Indicators (minimum of one is required; check Surface Water (A1) Water-St High Water Table (A2) Aquatic F Saturation (A3) Marl Dep Water Marks (B1) Hydroget Sediment Deposits (B2) Oxidized Drift Deposits (B3) Boots (C	Secondary Indicators (minimum of two required) Stained Leaves (B9)
HYDROLOGY Primary Indicators (minimum of one is required; check Surface Water (A1) Water-St High Water Table (A2) Aquatic F Saturation (A3) Marl Dep Water Marks (B1) Hydrogea Sediment Deposits (B2) Oxidized Drift Deposits (B3) Roots (C Alcal Mat or Crust (B4) Presence	Secondary Indicators (minimum of two required) Stained Leaves (B9)
HYDROLOGY Primary Indicators (minimum of one is required; check Surface Water (A1) Water-St High Water Table (A2) Aquatic F Saturation (A3) Marl Deg Water Marks (B1) Hydroget Sediment Deposits (B2) Oxidized Drift Deposits (B3) Roots (C Algal Mat or Crust (B4) Presence Iron Deposits (B5) Recent In	Secondary Indicators (minimum of two required) Stained Leaves (B9) Surface Soil Cracks (B6) Fauna (B13) Drainage Patterns (B10) posits (B15) Moss Trim Lines (B16) en Sulfide Odor (C1) Dry-Season Water Table (C2) d Rhizospheres on Living Crayfish Burrows (C8) C3) Saturation Visible on Aerial Imagery (C9) ron Reduction in Tilled Soils Stunted or Stressed Plants (D1)
HYDROLOGY Primary Indicators (minimum of one is required; check Surface Water (A1) Water-St High Water Table (A2) Aquatic F Saturation (A3) Marl Deg Water Marks (B1) Hydroget Sediment Deposits (B2) Oxidized Drift Deposits (B3) Roots (C Algal Mat or Crust (B4) Presence Iron Deposits (B5) Recent In	Secondary Indicators (minimum of two required) Stained Leaves (B9) Surface Soil Cracks (B6) Fauna (B13) Drainage Patterns (B10) posits (B15) Moss Trim Lines (B16) en Sulfide Odor (C1) Dry-Season Water Table (C2) d Rhizospheres on Living Crayfish Burrows (C8) C3) Saturation Visible on Aerial Imagery (C9) ron Reduction in Tilled Soils Stunted or Stressed Plants (D1)
HYDROLOGY Primary Indicators (minimum of one is required; check Surface Water (A1) Water-St High Water Table (A2) Aquatic F Saturation (A3) Marl Deg Water Marks (B1) Hydroger Sediment Deposits (B2) Oxidized Drift Deposits (B3) Roots (C Algal Mat or Crust (B4) Presence Iron Deposits (B5) Recent Ir Inundation Visible on Aerial Imagery (C6) (B7) Thin Muc	Secondary Indicators (minimum of two required) Stained Leaves (B9)
HYDROLOGY Primary Indicators (minimum of one is required; check Surface Water (A1) Water-Si High Water Table (A2) Aquatic F Saturation (A3) Marl Dep Water Marks (B1) Hydroget Sediment Deposits (B2) Oxidized Drift Deposits (B3) Roots (C Algal Mat or Crust (B4) Presence Iron Deposits (B5) Recent Ir Inundation Visible on Aerial Imagery (C6) (B7) Thin Muc Sparsely Vegetated Concave Surface Other (E)	Secondary Indicators (minimum of two required) Stained Leaves (B9) Surface Soil Cracks (B6) Fauna (B13) Drainage Patterns (B10) posits (B15) Moss Trim Lines (B16) en Sulfide Odor (C1) Dry-Season Water Table (C2) d Rhizospheres on Living Crayfish Burrows (C8) C3) Saturation Visible on Aerial Imagery (C9) ron Reduction in Tilled Soils Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) X FAC-Neutral Test (D5) X FAC-Neutral Test (D5)
HYDROLOGY Primary Indicators (minimum of one is required; check Surface Water (A1) Water-Si High Water Table (A2) Aquatic F Saturation (A3) Marl Dep Water Marks (B1) Hydroget Sediment Deposits (B2) Oxidized Drift Deposits (B3) Roots (C Algal Mat or Crust (B4) Presence Iron Deposits (B5) Recent Ir Inundation Visible on Aerial Imagery (C6) (B7) Thin Mud Sparsely Vegetated Concave Surface Other (E3)	Secondary Indicators (minimum of two required) Stained Leaves (B9) Surface Soil Cracks (B6) Fauna (B13) Drainage Patterns (B10) posits (B15) Moss Trim Lines (B16) en Sulfide Odor (C1) Dry-Season Water Table (C2) d Rhizospheres on Living Crayfish Burrows (C8) C3) Saturation Visible on Aerial Imagery (C9) ron Reduction in Tilled Soils Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Explain in Remarks) X
HYDROLOGY Primary Indicators (minimum of one is required; check	Secondary Indicators (minimum of two required) Stained Leaves (B9)
HYDROLOGY Primary Indicators (minimum of one is required; check Surface Water (A1) Water-St High Water Table (A2) Aquatic F Saturation (A3) Marl Deg Water Marks (B1) Hydroget Sediment Deposits (B2) Oxidized Drift Deposits (B3) Roots (C Algal Mat or Crust (B4) Presence Iron Deposits (B5) Recent Ir Inundation Visible on Aerial Imagery (C6) (B7) Thin Mute Sparsely Vegetated Concave Surface Other (Example) Field Observations: Field Observations:	Secondary Indicators (minimum of two required) Stained Leaves (B9)
HYDROLOGY Primary Indicators (minimum of one is required; check Surface Water (A1) Water-St High Water Table (A2) Aquatic F Saturation (A3) Marl Deg Water Marks (B1) Hydroget Sediment Deposits (B2) Oxidized Drift Deposits (B3) Roots (C Algal Mat or Crust (B4) Presence Iron Deposits (B5) Recent Ir Inundation Visible on Aerial Imagery (C6) (B7) Thin Muc Sparsely Vegetated Concave Surface Other (E) (B8) Field Observations: Surface water present? Yes No Xes	X Secondary Indicators (minimum of two required) Stained Leaves (B9) Surface Soil Cracks (B6) Fauna (B13) Drainage Patterns (B10) posits (B15) Moss Trim Lines (B16) en Sulfide Odor (C1) Dry-Season Water Table (C2) d Rhizospheres on Living Crayfish Burrows (C8) C3) Saturation Visible on Aerial Imagery (C9) ron Reduction in Tilled Soils Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Explain in Remarks) X X Depth (inches):
HYDROLOGY Primary Indicators (minimum of one is required; check Surface Water (A1)	X Depth (inches): X Depth (inches): X Depth (inches):
HYDROLOGY Primary Indicators (minimum of one is required; check Surface Water (A1)	X Depth (inches): X Depth (inches): X Depth (inches):

Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION - Use scientific names of plants

VEGETATION - Use scientific names of plan	ts			Sampling Point: 2.2-up
Tree Stratum Plot Size (30 ft. radius)	Absolute	Dominant	Indicator	50/20 Thresholds 20% 50%
1	% Cover	Species	Status	Sapling/Shrub Stratum 0 0
2				Herb Stratum 20 50
3				Woody Vine Stratum 0 0
5				Dominance Test Worksheet
7				Species that are OBL,
8				FACW, or FAC:(A)
9				Total Number of Dominant
10		= Total Cover		Species Across all <u>1</u> (B)
				Species that are OBL.
Sapling/Shrub Plot Size (15 ft. radius) Stratum	Absolute % Cover	Dominant Species	Indicator Status	FACW, or FAC:(A/B)
1				Prevalence Index Worksheet
2				I lotal % Cover of:
4				FACW species $100 \times 2 = 200$
5				FAC species $0 \times 3 = 0$
6				FACU species $0 \times 4 = 0$
7				UPL species $0 \times 5 = 0$
8 Q				Column totals 100 (A) 200 (B) Prevalence Index = B(A = 2.00
10				
	0	= Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum Plot Size (5 ft. radius)	Absolute % Cover	Dominant Species	Indicator Status	Rapid test for hydrophytic vegetation X Dominance test is >50%
Phalaris arundinacea 2	100	Y		X Prevalence index is ≤3.0* Morphogical adaptations* (provide
3				supporting data in Remarks or on a separate sheet)
5				Problematic hydrophytic vegetation*
6				(explain)
7				*Indicators of hydric soil and wetland hydrology must be
9				
10				Definitions of Vegetation Strata:
11 12	- <u> </u>			breast height (DBH), regardless of height.
13 14				Sapling/shrub - Woody plants less than 3 in. DBH and
15	100	- Total Carra		grouter than 0.20 it (1 m) tan.
		- Total Cover		Herb - All herbaceous (non-woody) plants, regardless of
Woody Vine Plot Size (30 ft radius)	Absolute	Dominant	Indicator	size, and woody plants less than 3.28 ft tall.
Stratum	% Cover	Species	Status	Woody vines - All woody vines greater than 3.28 ft in height
2				
3 4	- <u> </u>			Hydrophytic
5				vegetation
	0	= Total Cover		present? Y
Remarks: (Include photo numbers here or on a se	parate sheet)			

SOIL Sampling Point: 2.2-up Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix **Redox Features** Texture Remarks Type* Loc** (Inches) Color (moist) % Color (moist) % silty loam 0-6 10YR 3/1 60 10YR 3/2 40 100 6-10 10YR 3/2 silty loam 10-14 10YR 3/2 69 7.5YR 4/3 2 С silty loam М faint concentrations 10YR 4/2 30 14-22 10YR 4/2 75 7.5YR 4/4 5 С Μ silty loam prominent concentrations 10YR 5/2 20 *Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains **Location: PL=Pore Lining, M=Matrix Hydric Soil Indicators: Indicators for Problematic Hydric Soils: Polyvalue Below Surface 2 cm Muck (A10) (LRR K, L, MLRA 149B Histisol (A1) Coast Prairie Redox (A16) (LRR K, L, R) Histic Epipedon (A2) (S8) (LRR R, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) (LRR R, MLRA 149B Dark Surface (S7) (LRR K, L Stratified Layers (A5) Polyvalue Below Surface (S8) (LRR K, L) Loamy Mucky Mineral Depleted Below Dark Suface (A11) (F1) (**LRR K, L**) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Depleted Dark Surface (F7) Stripped Matrix (S6) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA Other (Explain in Remarks) 149B) Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: Hydric soil present? N Depth (inches): Remarks:

Project/Site: Stanley Industrial Park	City/County: Chippewa County Sampling Date: 5/18/2023
Applicant/Owner: City of Stanley	State: WI Sampling Point 3-wet
Investigator(s): Kerry Ingraham	Section, Township, Range: Section 34, T29N, R5W
Landform (hillslope, terrace, etc.): depression on footslop	eLocal relief (concave, convex, none): _concave
Slope (%): Lat.: Long.:	Datum:
Soil Map Unit Name Capitola-cebana complex, 0 to 2 perce	ent slopes, very stony (Cb) NWI Classification: S3/E1K
Are climatic/hydrologic conditions of the site typical for th	is time of the year? YES (If no, explain in remarks)
Are vegetation X , soil , or hydrology	significantly disturbed? Are "normal
Are vegetation, soil, or hydrology	naturally problematic? circumstances" present? Yes
(If needed, explain any answers in remarks)	

SUMMARY OF FINDINGS

Hydrophytic vegetation present? N Hydric soil present? Y	Is the sampled area within a wetland? NN
Indicators of wetland hydrology present? Y	If yes, optional wetland site IDWetland 3
Remarks: (Explain alternative procedures here or in	a separate report.)

Wetland 3 is located on the eastern border of the AOI, midway between the northern and southern border. Only a small portion lies within the AOI with the majority of the wetland extending southeast outside the AOI. The wetland is in a deppression on a cropped field of winter rye on the toeslope of a hillslope. Photos 7-10

HYDROLOGY

		Secondary Indicators (minimum of two
Primary Indicators (minimum of one is req	uired; check all that apply)	required)
Surface Water (A1)	Water-Stained Leaves (B9)	X Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fauna (B13)	Drainage Patterns (B10)
Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Crayfish Burrows (C8)
Drift Deposits (B3)	Roots (C3)	
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)
Iron Deposits (B5)	Recent Iron Reduction in Tilled Soils	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial Imagery	(C6)	X Geomorphic Position (D2)
(B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface	Other (Explain in Remarks)	FAC-Neutral Test (D5)
(B8)		Microtopographic Relief (D4)
Field Observations:		
Surface water present? Yes	No X Depth (inches):	
Water table present? Yes	NoXDepth (inches):	
Saturation present? Yes	_ NoX Depth (inches):	nydrology
(Includes capillary tringe)		present? <u>Y</u>
Describe recorded data (stream gauge, m	onitoring well, aerial photos, previous insp	pections), if available:
Remarks:		
The crop was thin with surface soil	cracks present in and near the wetla	nd border. Wetter areas downslope
had were left unplowed/planted and	d had deep tractor ruts. Corn stubble	remained from last year.
See Photos 7-10		

. . .

٦

٦

fol

Tree Stratum Plot Size (30 ft, radius) Absolute % Cover Dominant Spacies Indicator Status Size (20 ftresholds Image: Stratum 20% 50% 50% Image: Stratum 0 0 Image: Stratum 0 <	EGETATION - Use	scientific names of plants				Sampling Poir	<u>nt: 3-</u>	-wet
The Stratum Plot Size (30 ft. radius) Account of the stratum Control of the stratum <thcontrol of="" stratum<="" th="" the=""> Control</thcontrol>			Absolute	Dominant	Indicator	50/20 Thresholds	20% 5	.00/
3: Over Species Status 0 0 Seping/Shrub Cover Species Status 0 0 Saping/Shrub Piot Size (15 ft, radius) Absolute Dominant Indicator Species 0 (A) Saping/Shrub Piot Size (15 ft, radius) Absolute Dominant Indicator Prevalence Index Worksheet Species Status Cover Species 0 x 1 = 0 (B) Species Status O Cover of: 00 (B) Prevalence Index Worksheet Total % Number of Dominant Indicator Species 0 x 1 = 0 (B) Species Status O = Total % Number of Dominant DOMINA % Species 0 (B) Prevalence Index Worksheet Total % Cover of: Species Species 0 x 4 = 0 (B) Prevalence Index worksheet DOMINA % Species 0 (B) Prevalence Index worksheet DOMINA % Species 0 (C) (C) (C) (C) (C) (C) (C) (C) (C) <	Tree Stratum	Plot Size (30 ft. radius)		Dominant	Statua	Tree Streture	20% 5	,0% 0
Absolute Output			% Cover	Species	Status	Tree Stratum	0	0
Herb Stratum 0 0 Saping/Shrub Plot Size (15 ft. radius) Absolute % Cover Dominant Species Access all % Cover 0 0 Saping/Shrub Plot Size (15 ft. radius) Absolute % Cover Dominant % Cover Species Access all % Cover 0 0 Saping/Shrub Plot Size (15 ft. radius) Absolute % Cover Dominant % Cover Species Access all % Cover 0 10 Saping/Shrub Plot Size (15 ft. radius) Absolute % Cover Dominant % Cover Species Cover of: COLUM totals 0 x 4 = 0 0 10 Species 0 = Total Cover FACW species 0 x 4 = 0 0 10 Prevalence Index Worksheet Total Cover FACW species 0 x 4 = 0 0 10 Prevalence Index Worksheet Total Cover FACW species 0 x 4 = 0 0 10 Prevalence Index Worksheet Total Cover Prevalence Index Worksheet 10 10 Prevalence Index Size (5 ft. radius) Absolute % Cover Species Status 10 10 Prevalence Index Worksheet Total Cover Prevalence Index Worksheet 10 10 More More Index Size (5 ft. radius) </td <td>1</td> <td></td> <td></td> <td></td> <td></td> <td>Sapling/Shrub Stratum</td> <td>0</td> <td>0</td>	1					Sapling/Shrub Stratum	0	0
3	2					Herb Stratum	0	0
Image: Stratum Plot Size (15 ft. radius) Absolute % Cover Total Cover Pervalence Index Worksheet Number of Dominant Species Across all Species Across all Species Across all Species Across all Species Matter OBL, PACW, or FAC: 0 (8) Pervalence Index Worksheet Total Cover Sapling/Shrub Statum Plot Size (15 ft. radius) Absolute % Cover Dominant % Cover Indicator % Cover of Pervalence Index Worksheet Total % Cover of PAC species 0 x 1 = 0 Provalence Index Worksheet Total % Cover of PAC species 0 x 3 = 0 PAC species 1 advector pace 1 PAC species 0 x 3 = 0 PAC species 1 advector pace 1 PAC species 1 advector pac	3					Woody Vine Stratum	0	0
Number of Dominant Septices Archard (Construction) Septintices (Status)	5					Dominance Test Workshee	ət	
Species Absolute O (A) Sapling/Shrub Plot Size (15 ft. radius) Absolute Dominant Indicator Sapling/Shrub Plot Size (15 ft. radius) Absolute Dominant Indicator Stratum Plot Size (15 ft. radius) Absolute Dominant Indicator Sapling/Shrub Plot Size (15 ft. radius) Absolute Dominant Indicator Sapling Shrub Plot Size (15 ft. radius) Absolute Dominant Indicator Sapling Shrub Plot Size (15 ft. radius) Absolute O FACU species 0 x 1 = 0 Sapling Shrub Plot Size (15 ft. radius) Facult species 0 x 1 = 0 Facult species 0 (B) Sapling Shrub Plot Size (15 ft. radius) Absolute Dominant Indicator Prevalence Index = B/A = 0 UP species Det Size (15 ft. radius) Species Status Dominant Indicator Sapling Shrub Plot Size (15 ft. radius) Species Status Species Status Prevalence Index = B/A = 0 UP species Det Size (10 ft. radius) Species Status Species Status Species Status <	6					Number of Dominant		
3	/					Species that are OBL,		
a	8					FACW, or FAC:	0	_(A)
0 = Total Cover Species Across all 0 (B) Saping/Shrub Piet Size (15 ft. radius) Absolute Dominant Indicator Stratum Species Status Prevalence Index Worksheet Total % Cover of: 0.00%, (A/I Signing/Shrub Most Number Species Status Prevalence Index Worksheet Total % Cover of: 0.00%, (A/I Signing/Shrub Most Number Species 0.1 × 1 = 0 0.00%, (A/I Signing/Shrub Most Number Total Cover OBL species 0.0 × 1 = 0 Signing/Shrub Species 0.0 × 1 = 0 FAC species 0.0 × 1 = 0 Signing/Shrub Species 0.0 × 1 = 0 0.0 (B) Prevalence Index Worksheet Signing/Shrub Total Cover Species 0.0 × 5 = 0 0.0 (B) Prevalence Index = 0(A) = 0 0.0 (B) Signing/Shrub Piot Size (5 ft. radius) Absolute Dominant Indicator Species Status Prevalence Index signing/Nube vegetation functions of Nuerophytic vegetation funces of Nuerophytic vegetation functions of Nuerophytic ve	9					Total Number of Dominant		
0 = Total Cover Percentar OBL, Sapling/Shrub Plot Size (15 ft. radius) Absolute Dominant Indicator Stratum % Cover Species Status Percentar OBL, Prevalence Index Worksheet Total Score of: OBL species 0 x 1 = 0 Prevalence Index Worksheet Total Score of: OBL species 0 x 1 = 0 Prevalence Index Worksheet Total Score of: OBL species 0 x 3 = 0 PAC species 0 x 3 = 0 Column totals 0 x 3 = 0 Prevalence Index Worksheet Column totals 0 x 5 = 0 Column totals 0 x 6 = 0 Image: Stratum Plot Size (5 ft. radius) % Cover Species Status Pervalence Index is >50% Problematic hydrophytic vegetation* Species Status Problematic hydrophytic vegetation* Image: Stratum Plot Size (5 ft. radius) % Cover Species Status Image: Stratum Plot Size (3 ft. radius) Absolute Dominant Stratus Problematic hydrophytic vegetation* Image: Stratum Plot Size (30 ft. radius) Absolute Dominant Stratus Species Status	0					Species Across all	0	_(B)
Saping/Shrub Plot Size (15 ft. radius) Absolute Dominant Indicator Stratum Prevalence Index Worksheet Total % Cover of: OLO% (Mit Size (15 ft. radius) Cover Species Status Size (15 ft. radius) Species Species O Species Size (15 ft. radius) O Total % Cover of: OIL species O Species O = Total % Cover of: OIL species O Species Species <t< td=""><td></td><td></td><td>=</td><td>= Total Cover</td><td></td><td>Percent of Dominant</td><td></td><td></td></t<>			=	= Total Cover		Percent of Dominant		
Sapling/Shrub Plot Size (15 ft. radius) Absolute Dominant Indicator Stratum % Cover Species Status Image: Stratum Image: Stratum Prevalence Index Worksheet Image: Stratum Image: Stratum Total % Cover Image: Stratum Image: Stratum Image: Stratum Image: Stratum Plot Size (5 ft. radius) Absolute Dominant Image: Stratum Plot Size (5 ft. radius) Absolute Dominant Indicator Image: Stratum Plot Size (5 ft. radius) Absolute Dominant Indicator Image: Stratum Plot Size (5 ft. radius) Absolute Dominant Indicator Image: Stratum Plot Size (5 ft. radius) Absolute Dominant Indicator Image: Stratum Plot Size (30 ft. radius) Absolute Dominant Indicator Image: Stratum Plot Size (30 ft. radius) Absolute Dominant Indicator Image: Stratum Plot Size (30 ft. radius) Absolute Dominant Indicator Image: Stratum Plot Size (30 ft. radius) Absolute Dominant Indicator <td></td> <td></td> <td></td> <td></td> <td></td> <td>Species that are OBL,</td> <td></td> <td></td>						Species that are OBL,		
Image: Stratum Plot Size (5 ft. radius) Absolute % Cover Dominant % Cover Indicator % Cover Image: Stratum Plot Size (5 ft. radius) Absolute % Cover Dominant % Cover Indicator % Cover Image: Stratum Plot Size (5 ft. radius) Absolute % Cover Dominant % Cover Indicator % Cover Image: Stratum Plot Size (5 ft. radius) Absolute % Cover Dominant % Cover Indicator % Cover Image: Stratum Plot Size (5 ft. radius) Absolute % Cover Dominant % Cover Indicator % Cover Image: Stratum Plot Size (30 ft. radius) Absolute % Cover Dominant % Cover Indicator % Cover Image: Stratum Plot Size (30 ft. radius) Absolute % Cover Dominant % Cover Indicator % Cover Image: Stratum Plot Size (30 ft. radius) Absolute % Cover Dominant % Cover Indicator % Cover Image: Stratum Plot Size (30 ft. radius) Absolute % Cover Dominant % Cover Indicator % Cover Image: Stratum Plot Size (30 ft. radius) Absolute % Cover Dominant % Cover Indicator % Cover Image: Stratum Plot Size (30 ft. radius) Absolute % Cover Dominant % Cover	Sapling/Shrub Stratum	Plot Size(15 ft. radius)	Absolute % Cover	Dominant Species	Indicator Status	FACW, or FAC:	0.00%	_(A/B
Image: Section of the section of th	1					Prevalence Index Worksh	eet	
3	2					Total % Cover of:		
image: second	3					OBL species 0 x 1	= _0	_
FAC species 0 x 3 = 0 ACU species 0 x 4 = 0 Provement 0 = Total Cover Herb Stratum Plot Size (5 ft. radius) Absolute % Cover Dominant Species Indicator Status Image: Stratum Plot Size (5 ft. radius) Absolute % Cover Dominant Species Indicator Image: Stratum Plot Size (5 ft. radius) Absolute % Cover Dominant Species Indicator Image: Stratum Plot Size (30 ft. radius) Absolute % Cover Dominant Species Indicator Image: Stratum Plot Size (30 ft. radius) Absolute % Cover Dominant Species Indicator Image: Stratum Plot Size (30 ft. radius) Absolute % Cover Dominant Species Indicator Image: Stratum Plot Size (30 ft. radius) Absolute % Cover Dominant Species Indicator Image: Stratum Plot Size (30 ft. radius) Absolute % Cover Dominant Species Indicator Image: Stratum Plot Size (30 ft. radius) Absolute % Cover Dominant Species Indicator Image: Stratum Imademode phatis Stratus Indicat	4					FACW species 0 x 2	= 0	_
B	5					FAC species 0 x 3	= 0	-
Image: species in the species is th	6					FACU species 0 x 4	= 0	-
Column totals O Column totals O Column totals O Column totals O O Column totals Column totals Column totals O Column totals Co	7					UPL species 0 x 5	= 0	-
Image: statum Plot Size (5 ft. radius) Absolute Dominant Indicator Merb Stratum Plot Size (5 ft. radius) Absolute Dominant Status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status Image: status	8					Column totals 0 (A)	0	- (B)
0 = Total Cover Herb Stratum Plot Size (5 ft, radius) Absolute % Cover Dominant Species Indicator 2	9					Prevalence Index = B/A =		_(=)
0 = Total Cover Herb Stratum Plot Size (5 ft, radius) Absolute % Cover Dominant Species Indicator Status 2	0							-
Herb Stratum Plot Size (5 ft. radius) Absolute % Cover Dominant Species Indicator Status Hydrophytic Vegetation Indicators: 			0 =	Total Cover				
Herb Stratum Plot Size (5 ft, radius) Absolute % Cover Dominant Species Indicator Status						Hydrophytic Vegetation In	dicators:	
Indiciding of the fold	Herb Stratum	Plot Size (5 ft radius)	Absolute	Dominant	Indicator	Rapid test for hydrophy	ytic vegeta	ition
Image: Solution of the solution	nerb otratum		% Cover	Species	Status	Dominance test is >509	%	
Morphogical adaptations* (provide supporting data in Remarks or on a separate sheet) Morphogical adaptations* (provide supporting data in Remarks or on a separate sheet) Problematic hydrophytic vegetation* (explain) "Indicators of hydro soil and wetland hydrology must l present, unless disturbed or problematic Image: Stratum Stratum Plot Size (30 ft, radius) Absolute O Image: Stratum Image: Strat	1					Prevalence index is ≤3	.0*	
supporting data in Remarks or on a	2					Morphogical adaptation	is* (provide	э
Image: Separate sheet) Problematic hydrophytic vegetation* (explain) Image: Separate sheet) Image: Separate sheet) Image: Separate sheet) Problematic hydrophytic vegetation* (explain) Image: Separate sheet) Image: Separate sheet) Image: Separate sheet) Problematic hydrophytic vegetation* (explain) Image: Separate sheet) Image: Separate sheet) Image: Separate sheet) Problematic hydrophytic vegetation* (explain) Image: Separate sheet) Image: Separate sheet) Vegetation Image: Separate sheet) Vegetation numbers here or on a separate sheet) Image: Separate sheet) Vegetation was significantly disturbed as it is in a cropped field currently planted in winter rye. The crop was thin and washe	3					supporting data in Rem	arks or on	а
Problematic hydrophytic vegetation* (explain) *Indicators of hydric soil and wetland hydrology must l person person<	4					separate sheet)		
Image: Second	5					Problematic hydrophyti	c vegetatio	on*
Image: Second	6					(explain)		
Image: Sector of the sector	7					*Indicators of hydric soil and wetla	and hydrology	must b
Definitions of Vegetation Strata: Image: Stratum Image: Stratum Moody Vine Plot Size (30 ft. radius) Stratum Absolute Moody Vine Plot Size (30 ft. radius) Absolute Dominant Indicator Stratum Moody Vine Plot Size (30 ft. radius) Absolute Dominant Indicator Stratus Image: Stratum Image: Stratus Image: Stratum Image: Stratus Image: Stratum Image: Stratus Image: Stratus Image: Stratus Image: St	8					present, unless disturbed or proble	matic	
Definitions of Vegetation Strata: Image: Stratum Woody Vine Stratum Plot Size (30 ft. radius) Absolute O Total Cover Woody Vine Stratum Plot Size (30 ft. radius) Absolute Dominant Indicator % Cover Species Stratum O Total Cover Woody Vine Plot Size (30 ft. radius) Absolute Dominant Indicator % Cover Species Status Hydrophytic vegetation O Total Cover N Hydrophytic vegetation vegetation was significantly disturbed as it is in a cropped field currently planted in winter rye. The crop was thin and washed out the clone in and around the veloce in and aro	9							
Image: Solution of the second seco	0					Definitions of Vegetation S	Strata:	
2	1					Iree - Woody plants 3 in. (7.6 cm)	or more in dia	ameter a
34	2					breast height (DBH), regardless of	height.	
Woody Vine Plot Size (30 ft. radius) Absolute Dominant Indicator Stratum Plot Size (30 ft. radius) Absolute Dominant Indicator Stratum 0 = Total Cover Woody vines call Woody vines call Model 0 = Total Cover Indicator Stratum 0 = Total Cover Status Model 0 = Total Cover Status Model 0 = Total Cover Status Model 0 = Total Cover Hydrophytic Vegetation 0 = Total Cover N Model 0 = Total Cover N Model 0 = Total Cover N Model 0 = Total Cover N Method N N N Model = Total Cover N N Method N N N Model present? N N	3					Continue have Mande along to be		
0 = Total Cover Woody Vine Stratum Plot Size (30 ft. radius) Absolute % Cover Dominant Species Indicator Status 1	4					greater than 3.28 ft (1 m) tall.	; than 3 in. DE	3H and
Woody Vine Stratum Plot Size (30 ft. radius) Absolute % Cover Dominant Species Indicator Status Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Moody Vine Stratum Plot Size (30 ft. radius) Absolute % Cover Dominant Species Indicator Status Woody vines - All woody vines greater than 3.28 ft tall. Moody vines - All woody vines	5		<u> </u>	= Total Cover				
Woody Vine Stratum Plot Size (30 ft. radius) Absolute % Cover Dominant Species Indicator Status size, and woody plants less than 3.28 ft tall. Image: Stratum Moody vines - All woody vines greater than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft tall. Image: Stratum Image: Stratus Image: Stratus Hydrophytic vegetation present? N Image: Stratus Image: Stratus Image: Stratus N N<						Herb - All herbaceous (non-woody)) plants, regar	dless o
Plot Size (30 ft. radius) Stratum Plot Size (30 ft. radius) Mostrice Species Status Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic vegetation present? N emarks: (Include photo numbers here or on a separate sheet) Vegetation was significantly disturbed as it is in a cropped field currently planted in winter rye. The crop was thin and washe out on the slope in and around the worland herder. Downslope to the southeest, the field was left uppleused/u	Woody Vino		Absoluto	Dominant	Indicator	size, and woody plants less than 3	3.28 ft tall.	
Stratum % Cover Species Status Woody vines - All woody vines greater than 3.28 ft in height. 1	Stratum	Plot Size(30 ft. radius)		Species	Status			
Image: Second	Stratum		% Cover	Species	Status	Woody vines - All woody vines gre	ater than 3.28	3 ft in
Hydrophytic vegetation present? N Vegetation was significantly disturbed as it is in a cropped field currently planted in winter rye. The crop was thin and washe	י י					neight.		
Image: Addition of the second seco	∠ 3							
0 = Total Cover vegetation 0 = Total Cover present? N N emarks: (Include photo numbers here or on a separate sheet) Vegetation was significantly disturbed as it is in a cropped field currently planted in winter rye. The crop was thin and washe out on the slope in and around the wortland herder. Downslope to the southeast, the field was left upplement of was the southeast.	4					Hydrophytic		
0 = Total Cover present? N emarks: (Include photo numbers here or on a separate sheet) Vegetation was significantly disturbed as it is in a cropped field currently planted in winter rye. The crop was thin and washe out on the slope in and around the worland berger. Downslope to the southeast, the field was left upplement of without and washe out on the slope in and around the worland berger.	5					vegetation		
emarks: (Include photo numbers here or on a separate sheet) Vegetation was significantly disturbed as it is in a cropped field currently planted in winter rye. The crop was thin and washe	-		0 =	= Total Cover		present? N		
emarks: (Include photo numbers here or on a separate sheet) Vegetation was significantly disturbed as it is in a cropped field currently planted in winter rye. The crop was thin and washe								
Vegetation was significantly disturbed as it is in a cropped field currently planted in winter rye. The crop was thin and washe	emarks: (Include phot	o numbers here or on a sen	arate sheet)			<u>I</u>		
aut on the clone in and around the wetland border. Dewnclone to the southeast, the field was left undewed/underted with	Vegetation was sig	nificantly disturbed as it i	s in a cronne	d field curren	tly planted in	winter rve. The crop was t	hin and w	<i>y</i> ashe
	out on the along in	and around the wetland	bardar Daw	malana ta tha	aguthagat d	the field was left upplewed	lunnlanta.	d with

deep tire ruts. Corn stuble remained from last year showing the soil has recently supported crop growth. Herbicide had been applied, possibly last fall as there was a distinct line of live and dead vegetation. Veg dominated by reed canary grass (Phalaris arundinacea - FACW)
SOIL Sampling Point: 3-wet Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix **Redox Features** Texture Remarks Type* Loc** (Inches) Color (moist) % Color (moist) % silty loam 0-10 10YR 4/2 93 7.5YR 3/4 7 С Μ prominent concentrations 10-12 10YR 4/1 7.5YR 4/6 90 10 С Μ prominent concentrations 12-20 10YR 4/1 70 7.5YR 4/6 30 С Μ prominent concentrations silty loam 20-24 10YR 4/1 50 7.5YR 4/6 10 С М silty loam prominent concentrations 10YR 5/1 40 *Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains **Location: PL=Pore Lining, M=Matrix Hydric Soil Indicators: Indicators for Problematic Hydric Soils: Polyvalue Below Surface 2 cm Muck (A10) (LRR K, L, MLRA 149B Histisol (A1) Coast Prairie Redox (A16) (LRR K, L, R) Histic Epipedon (A2) (S8) (LRR R, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) (LRR R, MLRA 149B Dark Surface (S7) (LRR K, L Stratified Layers (A5) Polyvalue Below Surface (S8) (LRR K, L) Loamy Mucky Mineral Depleted Below Dark Suface (A11) (F1) (**LRR K, L**) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) X Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleved Matrix (S4) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Depleted Dark Surface (F7) Red Parent Material (F21) Stripped Matrix (S6) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA Other (Explain in Remarks) 149B) Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: Hydric soil present? Y Depth (inches): Remarks:

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

City/County: <u>Chippewa County</u> Sampling Date: <u>5/18/2023</u>
State: WI Sampling Point 3.1-up
Section, Township, Range: Section 34, T29N, R5W
Local relief (concave, convex, none): linear
ng.: Datum:
opes (LoC2) NWI Classification: none
or this time of the year? YES (If no, explain in remarks)
significantly disturbed? Are "normal
naturally problematic? circumstances" present? Yes
In the completioner within a wattend?
If yes, entional wotland site ID
) separate report)
oslope to the northwest of SP 3-wet and wetland 3. Vedetation is
sultural field. See Photos 7-10
cultural field. See Photos 7-10
cultural field. See Photos 7-10
Secondary Indicators (minimum of two
Secondary Indicators (minimum of two required)
Scondary Indicators (minimum of two call that apply) required)
Secondary Indicators (minimum of two required) Stained Leaves (B9) Eaving (B12) Stained Leaves (B12) Stained Leaves (B12) Stained Leaves (B12) Stained Leaves (B12)
Secondary Indicators (minimum of two call that apply) Stained Leaves (B9) X Surface Soil Cracks (B6) Fauna (B13) Drainage Patterns (B10) parite (P16)
Secondary Indicators (minimum of two cultural field. See Photos 7-10 Secondary Indicators (minimum of two c all that apply) Stained Leaves (B9) Fauna (B13) posits (B15) Secondary Indicators (minimum of two required) X Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Drainage Mater Table (C2)
Secondary Indicators (minimum of two required) Stained Leaves (B9) Fauna (B13) posits (B15) An Sulfide Odor (C1) A Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Cravifich Burrows (C8)
Secondary Indicators (minimum of two call that apply) Stained Leaves (B9) X Sufface Soil Cracks (B6) Fauna (B13) posits (B15) m Sulfide Odor (C1) d Rhizospheres on Living
Secondary Indicators (minimum of two call that apply) Stained Leaves (B9) X Sufface Soil Cracks (B6) Fauna (B13) posits (B15) Sufface Odor (C1) d Rhizospheres on Living C3) c of Bedurad Iran (C1)
Secondary Indicators (minimum of two call that apply) Secondary Indicators (minimum of two call that apply) required) Stained Leaves (B9) X Surface Soil Cracks (B6) Fauna (B13) Drainage Patterns (B10) posits (B15) Moss Trim Lines (B16) en Sulfide Odor (C1) Dry-Season Water Table (C2) d Rhizospheres on Living Crayfish Burrows (C8) C3) Saturation Visible on Aerial Imagery (C9) rop Paduction in Tilled Soile Sturted or Stressed Plates (D1)
Secondary Indicators (minimum of two call that apply) Stained Leaves (B9) Fauna (B13) posits (B15) e of Reduced Iron (C4) ron Reduction in Tilled Soils
Secondary Indicators (minimum of two call that apply) Secondary Indicators (minimum of two call that apply) Stained Leaves (B9) Fauna (B13) posits (B15) Sen Sulfide Odor (C1) d Rhizospheres on Living C3) e of Reduced Iron (C4) ron Reduction in Tilled Soils sturface (C7)
Secondary Indicators (minimum of two call that apply) Secondary Indicators (minimum of two call that apply) Stained Leaves (B9) Fauna (B13) posits (B15) en Sulfide Odor (C1) d Rhizospheres on Living C3) e of Reduced Iron (C4) ron Reduction in Tilled Soils ck Surface (C7) ck Surface (C7) ck Surface (C7) cynain in Remarks)
Secondary Indicators (minimum of two call that apply) Stained Leaves (B9) Fauna (B13) posits (B15) an Sulfide Odor (C1) d Rhizospheres on Living C3) e of Reduced Iron (C4) ron Reduction in Tilled Soils e k Surface (C7) ck Surface (C7)
Secondary Indicators (minimum of two call that apply) Secondary Indicators (minimum of two call that apply) required) Stained Leaves (B9) X Surface Soil Cracks (B6) Fauna (B13) Drainage Patterns (B10) posits (B15) Moss Trim Lines (B16) en Sulfide Odor (C1) Dry-Season Water Table (C2) d Rhizospheres on Living Crayfish Burrows (C8) C3) Saturation Visible on Aerial Imagery (C9) ck Surface (C7) Shallow Aquitard (D3) ck Surface (C7) FAC-Neutral Test (D5) microtopographic Relief (D4) Microtopographic Relief (D4)
Secondary Indicators (minimum of two call that apply) Secondary Indicators (minimum of two call that apply) Stained Leaves (B9) Fauna (B13) posits (B15) en Sulfide Odor (C1) d Rhizospheres on Living C3) e of Reduced Iron (C4) ron Reduction in Tilled Soils ck Surface (C7) ck Surface (C7) cx Surface (C7) c
Secondary Indicators (minimum of two c all that apply) Stained Leaves (B9) Fauna (B13) posits (B15) en Sulfide Odor (C1) d Rhizospheres on Living C3) e of Reduced Iron (C4) ron Reduction in Tilled Soils ck Surface (C7) ixplain in Remarks) X Depth (inches):
Secondary Indicators (minimum of two c all that apply) Stained Leaves (B9) Fauna (B13) posits (B15) en of Reduced Iron (C4) ron Reduction in Tilled Soils e of Reduced Iron (C4) ron Reduction in Remarks) Explain in Remarks) X Depth (inches): X Depth (inches): X Depth (inches):
Secondary Indicators (minimum of two K all that apply) Secondary Indicators (minimum of two K all that apply) Stained Leaves (B9) Fauna (B13) posits (B15) Secondary Indicators (B16) Depth (inches): X Depth (inches): X Depth (inches): X Depth (inches): X Depth (inches):

Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

. .

					50/20 Thresholds		
T 01 1		Absolute	Dominant	Indicator		20%	50%
Tree Stratum	Plot Size (30 ft. radius)	% Cover	Snecies	Status	Tree Stratum	0	0
1		/0 0010	opeelee	orarao	Sapling/Shrub Stratum	Ő	Õ
2					Horb Stratum	0	õ
<u></u>					Weedy Vine Stratum	0	0
					woody vine Stratum	U	U
+					Deside and Test Middle	1	
٥					Dominance lest Worksho	et	
õ					Number of Dominant		
7					Species that are OBL,		
3					FACW, or FAC:	0	(A)
9					Total Number of Dominant		
0					Species Across all	0	(B)
		0	= Total Cover		Percent of Dominant		_ ` /
					Species that are OBI		
Sopling/Shrub		Abaaluta	Dominant	Indiactor	EACIAL or EAC:	0.000/	(^ / E
Sapility/Stitub	Plot Size (15 ft. radius)	Absolute	Dominant	Indicator	FACW, OF FAC.	0.00%	(A/E
Stratum		% Cover	Species	Status			
1					Prevalence Index Works	heet	
2					Total % Cover of:		
3					OBL species 0 x	1 = 0	
4					FACW species 0 x	2 = 0	
5					FAC species 0 x	3 = 0	
						4 - 0	
7						$\frac{1}{2} = \frac{1}{2}$	
					UPL species <u>0</u> x	5 = 0	
3					Column totals 0 (A)0	(B)
9					Prevalence Index = B/A =	: <u> </u>	
ງ							
		0	= Total Cover				
					Hydrophytic Vegetation	ndicators	
		Absolute	Dominant	Indicator	Rapid test for hydrop	nytic vere	tation
Herb Stratum	Plot Size (5 ft. radius)		Species	Status		19110 VCGC	lation
1		% Cover	Species	Status	Dominance test is >50	J70 2.0*	
·					Prevalence index is s	3.0	- I -
2					Morphogical adaptation	ns" (provi	ae
3					supporting data in Re	marks or c	on a
4					<pre>separate sheet)</pre>		
5					Problematic hydrophy	tic vegeta	tion*
6					(explain)		
7					*Indicators of hydric soil and wet	land hydrolog	ay must b
3					present, unless disturbed or prob	lematic	
a							
°					Definitions of Vegetation	Strata	
1					Iree - Woody plants 3 in. (7.6 cm) or more in o	diameter
					breast height (DBH), regardless of	f height.	
<u> </u>							
3					Sanling/shrub - Woody plants le	ss than 3 in	DBH and
1					greater than 3 28 ft (1 m) tall	55 (1141) 0 111.	Derrand
5					greater than 0.20 it (1 iii) tall.		
		0	= Total Cover			v) nlonte etc.	ordera
					nero - An neroaceous (non-wood	y) prants, reg	aiuless c
Woody Vine		Absoluto	Dominant	Indicator	size, and woody plants less than	3.28 It tall.	
Stratum	Plot Size (30 ft. radius)		Specie	Status			
Stratum		70 Cover	Species	ວເລເບຣ	Woody vines - All woody vines g	reater than 3	.28 ft in
l					height.		
2							
3							
4					Hydrophytic		
5					vegetation		
			- Total Cover		prosont2 N		
						_	

SOIL

Sampling Point: 3.1-up

Profile Des	cription: (Desc	ribe to t	he depth neede	d to doo	cument t	the indic	ator or confirm the abs	ence of indicators.)
Depth	Depth Matrix Redox Features					- .		
(Inches)	Color (moist)	%	Color (moist)	%	Tvpe*	Loc**	Texture	Remarks
0-6	10YR 3/2							
6-14	10YR 3/2	98	7 5YR 4/4	2	С	м	silty loam	distinct concentration
14-19	10YR 4/2	95	7.5YR 4/4	5	Ċ	м	silty loam	distinct concentration
19.22	10YR 4/2	90	7.5YR 4/6	10	C C	м	silty loam	
10 22	1011(4/2		7.011(4/0		Ŭ		Sitty loan	
*Type: C=C	Concentration	I)=Deplet	ion RM=Reduce	L ed Matri	I x CS=0	Covered	L or Coated Sand Grains	
**Location:	PL=Pore Lining	a. M=Ma	itrix	ou main	,			
Hydric Soi	I Indicators:	,					Indicators for Pro	blematic Hydric Soils:
	- marcator or							
His	tisol (A1)		Po	yvalue	Below S	urface	2 cm Muck (A	10) (LRR K, L, MLRA 149B
His	tic Epipedon (A	2)	(S8	3) (LRR	R, MLR/	4 149B)	Coast Prairie F	Redox (A16) (LRR K, L, R)
Bla	ck Histic (A3)		Ťhi	n Dark	Surface	(S9)	5 cm Mucky P	eat or Peat (S3) (LRR K, L, R)
Hyo	drogen Sulfide (A4)	(LF	RRR, M	LRA 149	B	Dark Surface ((S7) (LRR K, L
Stra	atified Layers (A	45)	Loa	amy Mu	cky Mine	eral	Polyvalue Belo	ow Surface (S8) (LRR K, L)
	pleted Below Da	rk Sufa	ce (A11)(F1) (LRR	K, L)		Thin Dark Surf	ace (S9) (LRR K, L)
	ck Dark Surface	e (A12)	Loa	amy Gle	yed Mai	(F2)	Iron-Manganes	se Masses (F12) (LRR K, L, R)
	ndy Mucky Mine	eral (S1)		n beted N	hatrix (F	3) 	Pleamont Floo	
Sar	ndy Gleyed Mat	rix (54)		Jox Dar	k Surrac	Ce (F6) face (F7	Nesic Spoalc	(1A6) (MILRA 144A, 145, 149B)
	inped Metrix (SS)	2)		dev Der	ark Sur) Red Parent Ma	Aleriai (F21) Dark Surfage (TE12)
	k Surface (S7)			nox Deb	16221011	5 (FO)		in Remarks)
140								
*Indicators	of hydrophytic	vegetat	ion and weltand	hvdrolo	oav mus	t be pre	sent. unless disturbed	or problematic
		5		,	3,			
Restrictive	Layer (if observ	ved):						
Туре:		-			_		Hydric soil prese	ent? <u>N</u>
Depth (inch	nes):				_			
Remarks:								

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: <u>Stanley Industrial Park</u> Applicant/Owner: <u>City of Stanley</u> Investigator(s): <u>Kerry Ingraham</u> Landform (hillslope, terrace, etc.): <u>hillslope</u> Slope (%): <u>3</u> Lat.: <u>Long</u> Soil Map Unit Name Loyal silt Ioam, 6 to 12 percent slop	City/County: Lo g.: pes (LoC2)	Chippewa County State: WI Section, Township ocal relief (concave, Datum: NWI CI	Sampling Date: 5/18/2023 Sampling Point 3.2-up , Range: Section 34, T29N, R5W convex, none): linear
Are vegetation, soil, or hydrology _ Are vegetation, soil, or hydrology _ (If needed, explain any answers in remarks)	significani	problematic?	Are "normal circumstances" present? <u>Yes</u>
Hydrophytic vegetation present? Y Hydric soil present? N Indicators of wetland hydrology present? N Remarks: (Explain alternative procedures here or in a second	Is the sample If yes, optiona separate report.) at of Wetland 3.	ed area within a wet al wetland site ID See Photos 7-10	land? <u>N</u> Wetland 3
HYDROLOGY Primary Indicators (minimum of one is required; check	all that apply) ained Leaves (B9) auna (B13) osits (B15) Sulfide Odor (C1) Rhizospheres on Livir 3) of Reduced Iron (C4) on Reduction in Tilled < Surface (C7) plain in Remarks)	Second require Surt Dra Mos Dry Cra Satu SoilsSatu Gec Sha Sha FAC Mic	dary Indicators (minimum of two d) face Soil Cracks (B6) inage Patterns (B10) ss Trim Lines (B16) -Season Water Table (C2) lyfish Burrows (C8) uration Visible on Aerial Imagery (C9) nted or Stressed Plants (D1) omorphic Position (D2) illow Aquitard (D3) C-Neutral Test (D5) protopographic Relief (D4)
Field Observations: Surface water present? Yes No X Water table present? Yes No X Saturation present? Yes No X (includes capillary fringe) Ves Ves Ves	Depth (inches Depth (inches Depth (inches	5): 5): 5):	Indicators of wetland hydrology present? <u>N</u>
Describe recorded data (stream gauge, monitoring well	, aerial photos, pr	revious inspections),	if available:
Remarks:			

VEGETATION - Use scientific names of plants

VEGETATION - Use scientific names c	of plants			Sampling Point: 3.2-up
Tree Stratum Plot Size (30 ft rad	dius) Absolute	Dominant	Indicator	50/20 Thresholds 20% 50%
	% Cover	Species	Status	Tree Stratum 0 0
1				Sapling/Shrub Stratum 0 0
3				Woody Vine Stratum 0 0
4				
5				Dominance Test Worksheet
7				Species that are OBL,
8				FACW, or FAC: (A)
9				Total Number of Dominant
10				Species Across all <u>1</u> (B)
	0	_= lotal Cover		Percent of Dominant Species that are OBI
Sapling/Shrub	Absolute	Dominant	Indicator	FACW. or FAC: 100.00% (A/B)
Stratum Plot Size (15 ft. rad	dius) % Cover	Species	Status	
1				Prevalence Index Worksheet
2				Total % Cover of:
3				$\begin{array}{c c} OBL \text{ species} & 0 & x \ 1 = & 0 \\ EACW \text{ appaging} & 100 & x \ 2 = & 200 \\ \end{array}$
45				FACW species $100 \times 2 = 200$
6				FACU species $0 \times 4 = 0$
7				UPL species $0 \times 5 = 0$
8				Column totals 100 (A) 200 (B)
9				Prevalence Index = B/A =
10	0	= Total Cover		
		-		Hydrophytic Vegetation Indicators:
Herb Stratum Plot Size (5 ft rad	ius) Absolute	Dominant	Indicator	Rapid test for hydrophytic vegetation
	% Cover	Species	Status	X Dominance test is >50%
1 Phalaris arundinacea		_ <u>Y</u>	FACW	Prevalence index is ≤3.0" Morphogical adaptations* (provide
3				supporting data in Remarks or on a
4				separate sheet)
5				Problematic hydrophytic vegetation*
6				(explain)
8				present. unless disturbed or problematic
9				
10				Definitions of Vegetation Strata:
11 12				breast height (DBH), regardless of height.
13				Serling/shruh Wasdu slants loss than 2 in DBU and
14				greater than 3.28 ft (1 m) tall.
	100	= Total Cover		
		-		size, and woody plants less than 3.28 ft tall.
Woody Vine Plot Size (30 ft, rad	dius) Absolute	Dominant	Indicator	
Stratum	% Cover	Species	Status	Woody vines - All woody vines greater than 3.28 ft in
1				height.
3				
4				Hydrophytic
5				vegetation
	0	= Total Cover		present? <u>Y</u>
Remarks: (Include photo numbers here or o	on a separate sheet)			1

SOIL							Sa	mpling Point: 3.2-up	
Drofile Doc	intion: (Doco	-iba ta t	to depth poodor	to do	-umont t	ha india	the confirm the cher	of indiactors)	
Denth	Matrix	nbe to t	Redu	n Feat	tures		ator or committee abse		
(Inches)	Color (moist)	%	Color (moist)	%	Type*	1 00**	Texture	Remarks	
0-4	10YR 3/3	,,,				200	silty loam		
4-12	10YR 3/2						silty loam		
12-16	10YR 4/2	68	7 5YR 4/6	2	C	М	silty loam	prominent concentrations	
12 10	10YR 5/2	30	7.011(4/0			101		prominent concentrations	
16-22	10YR 4/2	65	7.5YR 4/6	5			silty loam	prominent concentrations	
10-22	10YR 5/2	30	7.011(4/0						
	1011(0/2								
					1				
*Type: C=C	Concentration, D	- Deplet	ion, RM=Reduce	d Matri	ix, CS=C	overed	or Coated Sand Grains		
**Location:	PL=Pore Lining	g, M=Ma	trix						
Hydric Soi	Indicators:						Indicators for Pro	blematic Hydric Soils:	
His His Bla Hyd Stra Dep Thi Sar Sar Sar Sar Sar Sar Sar Sar Nar Pastrictiva	Hydric Soil Indicators: Indicators for Problematic Hydric Soils: Histisol (A1) Polyvalue Below Surface Histic Epipedon (A2) (S8) (LRR R, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) Hydrogen Sulfide (A4) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral Depleted Below Dark Surface (A11) (F1) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Sandy Gleyed Matrix (S4) Redox Dark Surface (F6) Stripped Matrix (S6) Redox Depressions (F8) Dark Surface (S7) (LRR R, MLRA HayB) *Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic								
Type: Depth (inch	nes):	vea).			-		Hydric soil prese	nt? <u>N</u>	
nemarks.									

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Stanley Industrial Park	City/County:	Chippewa County	Sampling Date: 5/18/2023
Applicant/Owner: City of Stanley		State: WI	Sampling Point 4-wet
Investigator(s): Kerry Ingraham		Section, Township	, Range: Section 34, T29N, R5W
Landform (hillslope, terrace, etc.): depression	ו Lo	ocal relief (concave,	convex, none): concave
Slope (%): Lat.:	Long.:	Datum:	
Soil Map Unit Name Withee silt loam, 0 to 3 pe	ercent slopes (WeB)	NWI C	lassification: E1K
Are climatic/hydrologic conditions of the site	typical for this time of the	year? YES (If no,	explain in remarks)
Are vegetation , soil , or hy	drology significan	tly disturbed?	Are "normal
Are vegetation , soil , or hy	drology naturally	problematic?	circumstances" present? Yes
(If needed, explain any answers in remarks)			·
SUMMARY OF FINDINGS			
Hydrophytic vogotation procent?	V Is the sample	ad area within a wat	Hand?
Hydric soil present?	$\frac{1}{\sqrt{2}}$ is the sample	eu area within a wet	
Indiactors of watered by dralagy propert?		al watland site ID	Watered 4
Indicators of wetland hydrology present?	<u>r</u> in yes, options	al wetland site ID	
Remarks: (Explain alternative procedures her	e or in a separate report)		
Matland 4 is in a shallow depression a	a the NWA harder of the	A OL weat of the fi	ald antronoo. The wetland
wettand 4 is in a shallow depression o			eid entrance. The wetland
continues outside the AOI, into the roa	ad side ditch and culvert	. The wetland map	does not identify a wetland in
this area. A portion of the wetland is pl	lowed and planted. SP 4	4-wet is in the unp	lowed area next to the ditch.
HIDROLOGI			
		Secon	dary Indicators (minimum of two
Primary Indicators (minimum of one is require	d; check all that apply)	require	ed)
Surface Water (A1)	_Water-Stained Leaves (B9)	X_Sur	face Soil Cracks (B6)
High Water Table (A2)	_Aquatic Fauna (B13)	Dra	ainage Patterns (B10)
Saturation (A3)	_Marl Deposits (B15)	Mos	ss Trim Lines (B16)
Water Marks (B1)	_Hydrogen Sulfide Odor (C1)	Dry	/-Season Water Table (C2)
Sediment Deposits (B2)	Oxidized Rhizospheres on Livir	ngCra	ayfish Burrows (C8)
Drift Deposits (B3)	_Roots (C3)		
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Sati	uration Visible on Aerial Imagery (C9)
Iron Deposits (B5)	Recent Iron Reduction in Tilled	Soils Stu	nted or Stressed Plants (D1)
Inundation Visible on Aerial Imagery	_(C6)	XGeo	omorphic Position (D2)
(B7)	_Thin Muck Surface (C7)	Sha	allow Aquitard (D3)
Sparsely Vegetated Concave Surface	Other (Explain in Remarks)	X FAC	C-Neutral Test (D5)
(B8)		Mic	crotopographic Relief (D4)
Field Observations:			
Surface water present? Yes I	No X Depth (inches	s):	Indicators of
Water table present? Yes I	No X Depth (inches	s):	wetland
Saturation present? Yes I	No X Depth (inches	s):	hydrology
(includes capillary fringe)			present? <u>Y</u>
Describe recorded data (stream daugo, monit	oring well aerial photos pr	revious inspections)	if available:
Desende recorded data (Stream gauge, monit	oning weil, aeriai priotos, pi		, ii avallabie.
Remarks:			
See Photos 11-13			
See 1 10:03 11-13			

. . . . ntifi f nlo nte

VEGETATION - Use scientific names	s of plants				Sampling Point:	4-wet
Tree Stratum Plot Size (30 ft. 1 2 3 4	Abs	solute Cover	Dominant Species	Indicator Status	50/20 Thresholds20%Tree Stratum0Sapling/Shrub Stratum0Herb Stratum19Woody Vine Stratum0	50% 0 0 48 0
5 6 7 8 9 10 Sapling/Shrub		0 =	Total Cover		Dominance Test Worksheet Number of Dominant Species that are OBL, FACW, or FAC: 1 Total Number of Dominant Species Across all 1 Percent of Dominant Species that are OBL, EACW, or FAC: 100 ((A) (B)
Plot Size (15 ft. 1 2 3 4 5 6 7 8 9 10	radius) // 00 // // // // // // // // // // // // //	0 =	Species		Prevalence Index WorksheetTotal % Cover of:OBL species $0 \times 1 =$ FACW species $95 \times 2 =$ FAC species $0 \times 3 =$ FACU species $0 \times 4 =$ UPL species $0 \times 5 =$ Column totals $95 \pmod{4} =$ Prevalence Index = B/A = 2.0	0 90 0 0 90 0 90 (B) 0 0 90 (B)
Herb Stratum Plot Size (5 ft. r 1 Phalaris arundinacea 2	radius) Abs %	solute Cover 95	Dominant Species Y	Indicator Status FACW	Hydrophytic Vegetation Indicatoo Rapid test for hydrophytic veg X Dominance test is >50% X Prevalence index is ≤3.0* Morphogical adaptations* (pro supporting data in Remarks o separate sheet) Problematic hydrophytic vege (explain) *Indicators of hydric soil and wetland hydropresent, unless disturbed or problematic	rs: getation wide r on a station*
5 10 11 12 13 14 15		95 =	Total Cover		Definitions of Vegetation Strata: Iree - Woody plants 3 in. (7.6 cm) or more breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 i greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, size, and woody plants less than 3.28 ft tal	In diameter at
Woody Vine Stratum Plot Size (30 ft. 1 2 3 4	radius) Abs	solute Cover	Dominant Species	Indicator Status	Woody vines - All woody vines greater that height. Hydrophytic	า 3.28 ft in
5		0 =	Total Cover		vegetation present? Y	
Remarks: (Include photo numbers here of The southem area of Wetland 4 is	or on a separate s planted in win	sheet) ter rye. ⁻	The area plar	nted had spa	rse growth.	

SOIL								Sampling Point:	4-wet
Profile Des	cription: (Desci	ribe to t	he depth needeo	to do	cument t	he indica	ator or confirm the al	bsence of indicators	;.)
Depth	Matrix		Rede	ox Feat	tures		Texture	Rema	rks
(Inches)	Color (moist)	%	Color (moist)	%	lype*	Loc**			
0-8	10YR 3/2	100					silty loam		
8-14	10YR 4/2	60	7.5YR 3/4	7			silty loam	prominent con	centrations
	10YR 3/2	33							
14-19	10YR 5/2	80	7.5YR 4/6	20			silty clay loam	prominent con	centrations
19-22	10YR 5/1	50	7.5YR 4/6	30			silty clay loam	prominent con	centrations
	10YR 5/2	20							
*Type: C=C	Concentration D	=Denlet	ion RM=Reduce	d Matr	ix CS=C		or Coated Sand Grai		
**Location:	PL=Pore Lining	. M=Ma	trix	a mati	ix, 00-0			15	
Hydric Soi	I Indicators:	<u>, 111 1110</u>					Indicators for P	roblematic Hydric	Soils:
His His Bla Hyo Stra Dep Thio Sar Sar Sar Sar Sar Sar Sar Sar Sar Sar	tisol (A1) tic Epipedon (A2 ck Histic (A3) drogen Sulfide (/ atified Layers (A bleted Below Da ck Dark Surface ndy Mucky Mine ndy Gleyed Matri ndy Redox (S5) ipped Matrix (S6 ck Surface (S7) DB) of hydrophytic	2) A4) rk Sufa (A12) ral (S1) rix (S4) i) (LRR R , vegetat	Poly (S8 Thir Loa ce (A11)(F1) Loa Loa Red Red MLRA	/value) (LRR n Dark R R, M my Mu o (LRR my Gle leted N lox Dar leted I lox Dar	Below S R, MLRA Surface LRA 149 cky Mine K, L) eyed Mat Matrix (F: k Surfac Dark Surf pressions	urface A 149B) (S9) B eral rix (F2) 3) e (F6) face (F7) s (F8) t be pres	2 cm Muck (Coast Prairie 5 cm Mucky Dark Surface Polyvalue Be Thin Dark Su Iron-Mangan Piedmont Flo Mesic Spodi Red Parent I Very Shallov Other (Expla	A10) (LRR K, L, ML e Redox (A16) (LRR Peat or Peat (S3) (e (S7) (LRR K, L elow Surface (S8) (L urface (S9) (LRR K, ese Masses (F12) (bodplain Soils (F19) c (TA6) (MLRA 144A Material (F21) v Dark Surface (TF1) in in Remarks) d or problematic	RA 149B K, L, R) LRR K, L, R) L L RR K, L, R) (MLRA 149B) A, 145, 149B) 2)
Restrictive Type: Depth (inch	Layer (if observ nes):	ved):			_		Hydric soil pre	sent? Y	
Remarks:									

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Stanley Industrial Park Applicant/Owner: City of Stanley Investigator(s): Kerry Ingraham Landform (hillslope, terrace, etc.): depression Slope (%): Lat.: L Soil Map Unit Name Withee silt loam, 0 to 3 percent Are climatic/hydrologic conditions of the site typical Are vegetation X , soil , or hydrolog Are vegetation , soil , or hydrolog (If needed, explain any answers in remarks) Image: Comparison of the site start	City/County: Lo ong.: slopes (WeB) I for this time of the y y significant y naturally p	Chippewa County State: WI Section, Township cal relief (concave, Datum: NWI Cl year? YES (If no, ly disturbed?	Sampling Date: 5/18/2023 Sampling Point 4-up , Range: Section 34, T29N, R5W convex, none): concave assification: E1K explain in remarks) Are "normal circumstances" present? Yes
SUMMARY OF FINDINGS	- 1		
Hydrophytic vegetation present? N Hydric soil present? N Indicators of wetland hydrology present? N Remarks: (Explain alternative procedures here or in	Is the sample If yes, optiona a separate report.)	ed area within a wet	land? <u>N</u>
SP 4-up is south of SP 4-wet in the cropped	winter rye field. Se	ee Photos 11-13	
HYDROLOGY			
Primary Indicators (minimum of one is required; che Surface Water (A1) Water High Water Table (A2) Aquati Saturation (A3) Marl D Water Marks (B1) Hydro Sediment Deposits (B2) Oxidiz Drift Deposits (B3) Roots Algal Mat or Crust (B4) Presea Iron Deposits (B5) Recenn Inundation Visible on Aerial Imagery (C6) (B7) Thin M Sparsely Vegetated Concave Surface Other (B8) Field Observations:	ck all that apply) -Stained Leaves (B9) c Fauna (B13) Deposits (B15) gen Sulfide Odor (C1) ted Rhizospheres on Livir (C3) nce of Reduced Iron (C4) it Iron Reduction in Tilled Muck Surface (C7) (Explain in Remarks)	Second require X Suri Dra Mos Dry Cra Soils Soils Soils Soils Soils Soils Soils Soils Soils	dary Indicators (minimum of two d) face Soil Cracks (B6) inage Patterns (B10) ss Trim Lines (B16) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) nted or Stressed Plants (D1) omorphic Position (D2) Ilow Aquitard (D3) C-Neutral Test (D5) rotopographic Relief (D4)
Surface water present? Yes No Water table present? Yes No Saturation present? Yes No (includes capillary fringe) Ves Ves	X Depth (inches X Depth (inches X Depth (inches):):):	Indicators of wetland hydrology present? <u>N</u>
Describe recorded data (stream gauge, monitoring v	vell, aerial photos, pr	evious inspections),	if available:
Remarks:			

VEGETATION - Use scientific names of plants

VEGETATION - Use scientific names of plants				Sampling Point:	4-up
Tree Stratum Plot Size (30 ft. radius)	Absolute % Cover	Dominant Species	Indicator Status	50/20 Thresholds Tree Stratum Sanling/Shrub Stratum	20% 50% 0 0
2				Herb Stratum Woody Vine Stratum	19 48 0 0
5 6 7				Dominance Test Worksheet Number of Dominant Species that are OBL,	
8 9 10				FACW, or FAC: Total Number of Dominant Species Across all	<u> </u>
Sapling/Shrub Plot Size(15 ft. radius)	Absolute	= Total Cover	Indicator	Species that are OBL, FACW, or FAC:	<u>0.00% (</u> A/B)
Stratum 1 2	% Cover			Prevalence Index Workshee Total % Cover of: OBL species0x 1 =	t0
4 5 6 7				FACW species0x 2 =FAC species0x 3 =FACU species0x 4 =UPL species0x 5 =	0 0 0 0
8 9 10		- Total Cover		Column totals <u>0</u> (A) Prevalence Index = B/A =	(B)
Herb Stratum Plot Size(5 ft. radius) 1	Absolute % Cover 95	Dominant Species Y	Indicator Status	Hydrophytic Vegetation India Rapid test for hydrophytic Dominance test is >50% Prevalence index is ≤3.0°	cators: c vegetation
2 3 4 5 6				Morphogical adaptations* supporting data in Remar separate sheet) Problematic hydrophytics (explain)	(provide ks or on a vegetation*
7 8 9				*Indicators of hydric soil and wetland present, unless disturbed or problema	hydrology must be atic
10 11 12				Definitions of Vegetation Str Iree - Woody plants 3 in. (7.6 cm) or breast height (DBH), regardless of hei	r ata: more in diameter at ght.
14 15		- Total Covor		Sapling/shrub - Woody plants less th greater than 3.28 ft (1 m) tall.	an 3 in. DBH and
Woody Vine Plot Size(30 ft. radius) Stratum	Absolute % Cover	Dominant Species	Indicator Status	Herb - All herbaceous (non-woody) pl size, and woody plants less than 3.24 Woody vines - All woody vines greate	ants, regardless of 3 ft tall. er than 3.28 ft in
1 2 3 				height.	
4 5	0	= Total Cover		Hydrophytic vegetation present? <u>N</u>	
Remarks: (Include photo numbers here or on a sepa	arate sheet)				

SOIL Sampling Point: 4-up Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix **Redox Features** Texture Remarks Type* Loc** (Inches) Color (moist) % Color (moist) % 100 0-4 10YR 3/2 silty loam 4-8 10YR 3/2 7.5YR 3/3 С 95 5 Μ silty loam faint concentrations 8-12 10YR 3/2 75 7.5YR 3/3 5 С Μ silty loam faint concentrations 10YR.4/2 20 12-16 10YR 5/1 80 7.5YR 4/6 20 С Μ silty clay loam distinct concentrations 16-22 10YR 5/1 70 7.5YR 4/6 30 С Μ silty clay loam distinct concentrations *Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains **Location: PL=Pore Lining, M=Matrix Hydric Soil Indicators: Indicators for Problematic Hydric Soils: Polyvalue Below Surface 2 cm Muck (A10) (LRR K, L, MLRA 149B Histisol (A1) Coast Prairie Redox (A16) (LRR K, L, R) Histic Epipedon (A2) (S8) (LRR R, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) (LRR R, MLRA 149B Dark Surface (S7) (LRR K, L Stratified Layers (A5) Polyvalue Below Surface (S8) (LRR K, L) Loamy Mucky Mineral Depleted Below Dark Suface (A11) (F1) (**LRR K, L**) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Depleted Dark Surface (F7) Red Parent Material (F21) Stripped Matrix (S6) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA Other (Explain in Remarks) 149B) Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: Hydric soil present? N Depth (inches): Remarks:

Appendix B Climate Summary Data

NRCS Antecedent Rainfall Documentation Method

Project:	City of Stanley Ind Park	Result	Score	Condition	
Location:	Chippewa County		6-9	Drier than normal	
WETS Station:	CVRA		10-14	Normal	
Years:	1989-2020	15	15-18	Wetter than normal	
Field Dates		Comments	2 weeks prior to field work		
			appears normal precipitation.		

	Avg	30% chance30% chance			Condition	Monthly	Weighted	
Month	Precip	precip <	precip >	2023	Condition	Value	Weight	Score
Feb	1.08	0.65	1.30	2.02	Wet	3	1	3
Mar	1.98	1.24	2.39	3.22	Wet	3	2	6
Apr	3.02	2.14	3.58	2.92	Normal	2	3	6
							SCORE	15

Daily Record

Date	Precipitation
4/23/2023	0.00
4/24/2023	0.00
4/25/2023	0.00
4/26/2023	Т
4/27/2023	0.19
4/28/2023	0.06
4/29/2023	0.10
4/30/2023	0.00
5/1/2023	0.00
5/2/2023	0.00
5/3/2023	0.00
5/4/2023	1.32
5/5/2023	0.41
5/6/2023	0.00
5/7/2023	0.00





Accumulated Precipitation - CHIPPEWA VALLEY REGIONAL AIRPORT, WI

Palmer Hydrological Drought Index Long-Term (Hydrological) Conditions





Appendix C Site Photographs



Photo 1: Wetland 1 looking south along STH 29 ROW



Photo 2: Wetland 1 looking north.



Photo 3: Wetland 1 looking SE at SP 1-wet



Photo 4: Looking W at Wetland 1/Wetland 2 boundary.



Photo 5: Wetland 2 boundary. Upland on right



Photo 6: looking south at SP 2.2 Up



Photo 7: Looking East along north Wetland 3 Boundary.



Photo 8: Looking East at SP 3.2 Up



Photo 9: Looking East at Wetland 3 Boundary and SP 3.1 Wet beyond



Photo 10: Looking West at SP 3.1 Up



Photo 11: Looking East at Wetland 4



Photo 12: Looking West at Wetland 4



Photo 13: Looking south at SP 4-Wet

Appendix E Methods



Wetland Delineation Methods - 2023 Ingraham Technical Services Inc

According to the US Army Corps of Engineers, wetlands are, "those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. This wetland delineation followed methods outlined in the *Corps of Engineers Wetland Delineation Manual* (USACE 1987) and the *Regional Supplements to the Corps of Engineers Wetland Delineation Manual* where the project is located (*i.e., Midwest or Northeast/Northcentral*) (Version 2.0). Based on these methods, the presence of a wetland is determined based on three hydric criteria - vegetation, soils, and hydrology. The boundary of a wetland is where these hydric criteria give way to upland features.

The delineation procedures in the *Corps Manual (i.e.,* the Routine Onsite Determination Method), in combination with wetland indicators and guidance provided in the *Regional Supplement* were applied for this delineation. Where differences in the two documents occur, the *Regional Supplement* takes precedence over the *Corps Manual* for applications in the specific *Corps Region* where the project is located (USACE 2012).

Off Site Resource Review

Prior to completing the field investigation, documents were reviewed which provided information on soils, topography, and areas where wetlands have been identified or are likely to occur. The following resources were reviewed:

- Wisconsin Department of Natural Resources (WDNR) Surface Water Data Viewer (SWDV)
 - o Wisconsin Wetland Inventory (WWI) Map for Wetlands
 - o Hydric Soil Indicator Map
 - Topographic Map (may be sourced from other locations 2 ft contour min.)
 - o Flood Hazard Map
 - Natural Resources Conservation Service (NRCS) Web Soil Survey
 - o Soil Map
 - o Custom Soil Resource Report
 - o Hydric Soils Report
- WEX Bedrock Geology of Wisconsin Maps
- Climate Data
 - WETS
 - o Palmer Drought Index
- NRCS and Google Earth Historic Aerial Photographs

An NRCS Antecedent Rainfall Documentation (ARD) is conducted for the three months prior to the field investigation. The closest NOAA Regional Climate Centers agACIS site with complete WETS data (20 years minimum data) is used to assess the precipitation history of the area.

The Palmer Drought Index indicates hydrological conditions for the area in the previous 2-week period prior to the site visit. In addition to the ARD and Palmer Index, the precipitation data for the week prior to the field investigation is reviewed. The review of all meteorological data is used to assess if precipitation conditions at the time of field work are considered to be Wetter, Drier or Normal compared to historical conditions.

Field Methods

The field investigation identified wetland and upland features within the project limits followed by the establishment of transects perpendicular to the wetland edge. The wetland boundary was identified where wetland features gave way to upland features.

The wetland boundary was determined in the field by identifying the presence/absence of hydrophytic vegetation, hydric soils and hydrology required to establish and support a wetland.

The three wetland criteria were analyzed using the following methods:

- Hydrophytic (Wetland) Vegetation: Wetland plant species nomenclature follows the US Army Corps of Engineers National Wetland Plant List: 2020 Update of Wetland Ratings. Wetland vegetation data was collected using nested circular sample plot sizes of 5-feet for the herbaceous stratum, 15-feet for sapling/shrub stratum, and 30-feet for the tree and woody vine stratums. Rectangular plots of equal size were used in place of circular plots in areas where abrupt slopes and short distances between upland and wetland sampling points exist.
- Hydric (Wetland) Soils: Soils were observed for hydric soil characteristics. Soils were examined in cores taken with a core auger and pits dug with a tile spade. Soil profiles were observed at a depth necessary to confirm hydric soil characteristics. Soil profile depths are typically within 16-20 inches below ground surface to allow for: (1) observation of an adequate portion of the soil profile to determine presence/absence of hydric soil characteristics; (2) observation of hydrology including depth to water table and saturated soils; and, (3) identification of disturbances (e.g. buried horizon, plow line, etc.). Soil color determinations were made using MUNSELL Soil Color Charts (2009). Site soil characteristics were compared to those mapped and described in the Soil Survey for County where the project is located (USDA Web Soil Survey). Hydric soil characteristics were compared to those identified in the *Regional Supplement* (USACE 2012) and the most recent version of the Natural Resources Conservation Service (NRCS) publication *Field Indicators of Hydric Soils in the United States, Version 8.2* (USDA 2018).
- Hydrology: Primary and secondary indicators of hydrology were identified in the field to determine the presence or absence of wetland hydrology. Subsurface wetland hydrology indicators were examined using the soil cores and/or soil pits as deep as 24 inches to confirm soil saturation in the upper 12 inches of the soil profile.

Field Records: The transects were documented at two sample points and one boundary marking. The sample points (Upland and Wetland) were analyzed and the boundary was identified between those points. The sample points were recorded on Wetland Determination Data Forms (Appendix A). Each data sheet is referenced to a sample location along the identified wetland boundary by the plot ID number. Numbers ending in "W" identify data collected within the wetland basin. Numbers ending in "U" identify data collected outside the wetland basin.

Wetland boundaries were located and marked with white "Wetland Boundary" pin flags. Fluorescent pink flags were used to mark upland and wetland sample points. The wetland edge is considered the highest extent of the wetland basin; areas above the boundary fail to meet the three required wetland parameters while areas below the edge meet the wetland parameters required by the field delineation methodology.

The sample points and boundary flags were surveyed in the field with the use of a Trimble R1 GNSS Receiver. The accuracy of this instrument and software is less than one meter of variance in the horizontal plane.

Appendix E Assured Wetland Delineator Confirmation (2023)

Tony Evers, Governor Adam N. Payne, Secretary Telephone 608-266-2621 Toll Free 1-888-936-7463 TTY Access via relay - 711



April 3, 2023

Kerry Ingraham Ingraham Technical Services, Inc. 19775 55th Avenue Chippewa Falls, WI 54729

Subject: 2023 Assured Wetland Delineator Confirmation

Dear Ms. Ingraham:

This letter provides Wisconsin Department of Natural Resources (WDNR) confirmation for the wetland delineations you conduct during the 2023 growing season. You and your clients will not need to wait for the WDNR to review your wetland delineations before moving forward with project planning. This will help expedite the review process for WDNR's wetland regulatory program. Your name and contact information will continue to be listed on our website at: http://dnr.wi.gov/topic/wetlands/assurance.html.

In the instance where a municipality may require a letter of confirmation for your work prior to moving forward in the local regulatory process, this letter shall serve as that confirmation. Although your wetland delineations do not require WDNR field review, inclusion of a Wetland Delineation Report is required for projects needing State authorized wetland, waterway and/or storm water permit approvals.

To comply with Chapter 23.321, State Statutes, please supply the department with a polygon shapefile of the wetland boundaries delineated within the project area. Please do not include data such as parcel boundaries, project limits, wetland graphic representation symbols, etc. If internal upland polygons are found within a wetland polygon, then please label as UPLAND. The shapefile should utilize a State Plane Projection and be overlain onto recent aerial photography. If a different projection system is used, please indicate in which system the data are projected. In the correspondence sent with the shapefile, please supply a brief description of each wetland's plant community (eg: wet meadow, floodplain forest, etc.). Please send these data to Calvin Lawrence (608-266-0756 or email at calvin.lawrence@wisconsin.gov).

If you or any client has a question regarding your status in the Wetland Delineation Professional Assurance Program, contact me by email at kara.brooks@wisconsin.gov or phone at 414-308-6780. Thank you for all your hard work and best wishes for the upcoming field season.

Sincerely,

Kara Brooks Wetland Identification Coordinator Bureau of Watershed Management

State of Wisconsin Department of Natural Resources Bureau of Natural Heritage Conservation Attn: Endangered Resources Review Program PO Box 7921, Madison WI 53707-7921 dnr.wi.gov

Form 1700-047 (R 9/22)

Page 1 of 2

Notice: Pursuant to s. 23.27(3)(b), Wis. Stats., this form must be completed and submitted to the Department of Natural Resources (DNR) to request an Endangered Resources (ER) Review of proposed development, management, planning or similar type of project. An ER Review provides the requester with information from Wisconsin's Natural Heritage Inventory (NHI) database and other sources on rare plants and animals, high quality natural communities, and other endangered resources that may be impacted by the proposed project. The ER Review will also include specific recommendations and requirements to help projects comply with Wisconsin's Endangered Species Law (s. 29.604, Wis. Stats.) and other laws and regulations protecting endangered resources. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records Law (ss. 19.31-19.39, Wis. Stats.).

Instructions: The following materials are required to process this request. Submit all materials by mail to the address above or email (DNRERReview@wisconsin.gov). Do <u>not</u> include payment with this form.

- Completed, signed form
- □ Map(s) delineating the project area, preferably an aerial photo

Submission of the following materials are strongly encouraged and will facilitate review of your project:

- NHI Public Portal Preliminary Assessment Printout
- D Photographs that clearly show the project area, including natural features and vegetation present on site
- Additional relevant information and reports (e.g., detailed project and habitat descriptions, wetland delineation, and site plans)

Request	er Informati	ion (ER Re	eview, correspondence	and invoice v	vill be sent to this person)				
Name					Organization				
Kerry Ingraham					Ingraham Technical Services Inc.				
Mailing Address						State	ZIP Code		
Ave				Chippewa Fal	lls	WI	54729		
Telephone Number					Email Address				
(715) 271-4916					kerry@ingrahamtechnicalservices.com				
Landowr	ner Informa	tion (if diff	erent than Section 1)						
				Organization					
nley				City					
lress				City State ZIP Cod			ZIP Code		
5				Stanley		WI	54768		
Number				Email Addres	S				
5758				clerk@ci.star	nley.wi.gov				
				_					
Project Name					Project Address <i>(if applicable)</i>				
Stanley Industrial Park									
es:				-					
ntial C) Commerci	al 💿 lı	ndustrial 🔘 Utility/En	ergy 🔿 Tra	ansportation (roads, railroad	s, trails, l	narbors, airports)		
С) Other:								
PSC Approval (Utility/Energy only)					DOT or FHWA Administered				
⊖Yes ⊖No ⊖Unknown					◯ Yes ◯ No ◯ Unknown				
Start Date (on-site disturbance) End Date (on-site disturbance)			Federal Land, Funding or Permit						
			ty O Town O Vil	llage of:	Land Types (Select all that	apply)			
				lage of.	Drivate Dublic	(e.g. road	ROWs, schools,		
		Stanle	у			city/count	y land, etc.)		
Range	Direction	Section	Additional Comments on TRS Location (attach additional information if necessary)						
5	⊖e ⊙w	34	See Attached Chippewa County Parcel Information - Stanley Industrail Park						
	Oe Ow								
	ham ress Ave Number 916 Landowr 1ey ress 5 Number 5758 ne ustrial Par es: ntial (val (Utility) 5 No on-site distu	ham ress Ave Number 916 Landowner Information alley ress solution alley ress Solution Mumber Solution Mumber Solution Number Solution Solution Solution Mark Solution Other: Other: Val (Utility/Energy only Other: Val (Utility/Energy only No Unkn on-site disturbance) Range Direction 5 © W Solution © W	ham ress Ave Number 916 Landowner Information (if different of the set of	ham ress Ave Number 9916 Landowner Information (if different than Section 1) aley ress 5 Number 9758 Number 9758 ne ustrial Park es: ntial Commercial Other:	Arequester mionination (EX Review, correspondence and models or organization ingraham Tex ress Organization ham Ingraham Tex City Ave Chippewa Fa Number Email Address 916 kerry@ingrah Landowner Information (if different than Section 1) Organization alley City ress City S Stanley Number Email Address city Stanley Number Commercial O ther:	Number Ingraham Technical Services Inc. ress City Ave Chippewa Falls Number Email Address 916 kerry@ingrahamtechnicalservices.com Landowner Information (if different than Section 1) Organization Organization City Stanley City Number Email Address 916 kerry@ingrahamtechnicalservices.com Landowner Information (if different than Section 1) Organization City City ress City Stanley Stanley Number Email Address Stanley Number 758 Clerk@ci.stanley.wi.gov nee Project Address (if applicable) ustrial Park es: ntial Commercial Industrial Utility/Energy val (Utility/Energy only) DOT or FHWA Administered is No Unknown orter:	Number Organization Ingraham Technical Services Inc. State Ave Chippewa Falls WI Number Email Address WI 916 kerry@ingrahamtechnicalservices.com Image State Landowner Information (if different than Section 1) Organization WI Organization City State Organization City State States City State Number Email Address WI ress City State Stanley WI WI Number Email Address City State State WI Number Email Address WI State State WI Number Email Address City State State State State State VI Other:		

Form 1700-047 (R 9/22)

Page 2 of 2

Section 3: Project Information, continued

Provide a <u>detailed</u> description of the proposed project and associated disturbance, including acres to be disturbed. Attach additional pages as needed.

See attached Exhibit A and Figure 1

Provide a <u>detailed</u> description of the habitat types and current land use within the limits of the project area (e.g., 50% in active agriculture-currently corn, 20% floodplain forest, 15% industrial area, 10% hardwood swamp dominated by black ash, 5% fallow field - in active agriculture until one year ago). Attach additional pages as needed. See attached Exhibit A and Figure 1

List all wetlands and waterbodies (e.g., rivers, intermittent streams, lakes, marshes) within or adjacent to the project area. List any known or suspected impacts of the proposed project to these wetlands and waterbodies. Indicate the location(s) of any point source discharge(s) into wetlands or waterbodies. See attached Exhibit A and Figure 1

List any reports or correspondence concerning endangered resources or habitat that may be impacted by the proposed project (e.g., wetland delineation, endangered resources reviews, habitat assessments, and rare species surveys). Attach copies if available. See attached Exhibit A and Figure 1

Section 4: Related Permits, Licenses or	Regulatory Approvals (DNR or other state/federal agency)	
Permit, License or Approval	Permitting Agency Contact Person	Status
Grading and Building Permits		 ☑ will be applying for □ have applied for □ have received
		 will be applying for have applied for have received

Section 5: Terms and Conditions

The requested ER Review may contain NHI data and information (including specific locations of endangered resources) which are considered sensitive and are not subject to Wisconsin's Open Records Law (per s. 23.27, Wis. Stats.). The information contained in the ER Review is solely for planning and implementation of the proposed project. As such, the information contained in the ER Review shall only be shared with individuals who need this information to carry out specific roles in the planning, permitting, and implementation of the proposed project. The requester must agree to not reproduce or disseminate the ER Review or the specific locations of endangered resources contained in the ER Review to any other parties or individuals without prior written permission from the DNR Bureau of Natural Heritage Conservation. (Contact the Endangered Resources Review Program at 608-419-2755 if you have any questions about sharing information contained in the ER Review.)

Section 6: Certification by Requester

I agree to pay, within 30 days of receipt of an invoice, the \$75/hour fee charged by the Department per s. NR 29.04(1), Wis. Adm. Code, for this ER review. I am the owner, authorized representative of the owner, or utility representative of the property for which I am requesting an Endangered Resources (ER) Review. I accept the terms and conditions outlined in Section 5 (above). To the best of my knowledge, the information I have provided is complete and accurate.

Kury J. chagal

Signature of Requester

June 19, 2023 Date Signed Kerry F. Ingraham Printed Name

Exhibit A

Section 3: Project Information (Questions in Bold)

Provide a detailed description of the proposed project and associated disturbance, including acres to be disturbed. Attach additional pages as needed.

The proposed project is for an industrial park in the City of Stanley. The city plans to have the site "shovel-ready" for future use. The project includes four continuous parcels of land owned by the City of Stanley totaling 111.2 acres in size. The project includes the following parcels:

- PIN# 22905-3412-00020000A (38.7 acres)
- PIN# 22905-3411-00020002 (30.2 acres)
- PIN# 22905-3413-00020000A (31.9 acres)
- PIN# 22905-3414-00020001 (20.3 acres)

The majority of the land is currently used for agricultural purposes with the remainder as an historical farmstead and wetlands. Approximately 104.5 acres of crop land and the historical farmstead will be disturbed. The wetland areas are not intended to be disturbed unless proper permits area obtained. The development will include grading, stormwater management and erosion control. Permits will be obtained as necessary for these activities.

Provide a detailed description of the habitat types and current land use within the limits of the project area (e.g., 50% in active agriculture-currently corn, 20% floodplain forest, 15% industrial area, 10% hardwood swamp dominated by black ash, 5% fallow field - in active agriculture until one year ago).

Current land use is approximately 90% in active agriculture (most recently in corn), 5.5% wetlands, and 3.5% agricultural buildings, and 1% fallow (drainage swales).

Wetlands total approximately 6.7 acres in size consisting of 83% seasonal flooded basin or flat dominated by reed canary grass (*Phalaris arundinacea* – FACW), 13% wooded swamp dominated by white oak (Quercus alba – FACU) and American elm (Ulmus americana – FACW), and 4% shrub swamp/seasonal flooded basin or flat dominated by buckthorn (*Rhamnus cathartica* – FAC), gray dogwood (*Cornus racemose* – FAC), reed canary grass (*Phalaris arundinacea* – FACW), reed canary grass (*Phalaris arundinacea* – FACW),

List all wetlands and waterbodies (e.g., rivers, intermittent streams, lakes, marshes) within or adjacent to the project area. List any known or suspected impacts of the proposed project to these wetlands and waterbodies. Indicate the location(s) of any point source discharge(s) into wetlands or waterbodies.

Within the project area were four locations where wetlands have been identified. All four locations are along the project boundaries. Refer to Figure 1: ERR Project Overview.

The first wetland area (Area A) is in the northwest corner of the project area. An E2Kg wetland approximately 4.9 acres in size is hydrologically connected by road culverts to wetlands to the north and west of the project area. Two small E1Kf wetlands (total 0.1 acres in size) lie immediately south of the above wetland on the east side of a drainage swale. They were shallow wet spots in the cropped corn field. These three wetlands (E2Kg, 2-E1Kf) were delineated in 2022 (WDNR Docket WP-ADR-WC-2022-9-X07-15T11-14-03). These wetlands drain to an unnamed river/stream (WBIC 2146900) which flows into the Wolf River (WBIC 214600) southeast of the project area. There are no known or expected impacts of the proposed project to these wetlands and waterbodies.

The remainder of the wetlands were delineated in a 2023 (WDNR Docket WP-ADR-WC-2023-9-X06-12T17-02-53). The second wetland location (Area B) is on the northeast corner of the project area. A small E1K (0.1 acres in size) lies west of the field entrance adjacent to the road ditch in the road right-of-way. Water flows to a low spot in the field and drains to the road ditch and culvert. At this time, there are no known or expected impacts of the proposed project to this wetland.

The third wetland location (Area C) is along the eastern project boundary midway between the north and south project limits. A S3/E1K wetland (0.4 acres in size onsite) extends beyond the project boundary. This wetland drains to an unnamed river/stream (WBIC 2147000) which flows into unnamed river/stream (WBIC 2146900) before discharging into the Wolf River southeast of the project area. There are no known or expected impacts of the proposed project to this wetland.

The fourth wetland location (Area D) is in the southeast corner of the project. An isolated T3K wetland (0.9 acres in size onsite) is identified on the WDNR SWDV Map. The 2023 wetland delineation identifies this wetland to be hydrologically connected to an E1K wetland (0.4 acres in size onsite) to the south and southeast beyond the project boundary. This wetland drains to an unnamed river/stream (WBIC 2147000) which flows into unnamed river/stream (WBIC 2146900) before discharging into the Wolf River southeast of the project area. There are no known or expected impacts of the proposed project to this wetland.

List any reports or correspondence concerning endangered resources or habitat that may be impacted by the proposed project. Attach additional pages as needed.

See attached:

- Exhibit A: Project information
- Endangered Resource Preliminary Assessment dated 3-13-2023.
- 2022 Wetland Delineation Report: City of Stanley NSE Fill Project
 - o (WDNR Docket WP-ADR-WC-2022-9-X07-15T11-14-03)
- 2023 wetland Delineation Report: City of Stanley Industrial Park Project
 - o (WDNR Docket WP-ADR-WC-2023-9-X06-12T17-02-53)



Disclaimer: This map is a compilation of records as they appear in the Chippewa County Offices affecting the area shown and is to be used only for reference purposes.

Fair Market Value: School Code: 5593 701482, 634258 Document 1: Vol-Page: 856-044 GIS Acres: 18.7 Location: View Parcel Report Q 🖉 🗖 🜄 PIN: 22905-3411-00020002 Owner Name: CITY OF STANLEY Owner Address: PO BOX 155 Owner City, State: STANLEY WI Owner Zip Code: 54768 Assessed Value: Fair Market Value: School Code: 5593 Document 1: 701482, 634258 856-044 Vol-Page: GIS Acres: 27.6 Location: View Parcel Report Q 🖉 📁 🌄 PIN: 22905-3412-00020000A Owner Name: CITY OF STANLEY Owner Address: PO BOX 155 Owner City, State: STANLEY WI Owner Zip Code: 54768 Assessed Value: 0 Fair Market Value: 0 School Code: 5593 Document 1: 929367, 701482, 634258

856-044

View Parcel Report

22905-3413-00020000A

856-044

View Parcel Report

22905-3414-00020001



Wetland Area A - 5.0 Acres

Wetland Area B 0.1 Acres

State of the second sec

Figure 1 ERR Project Overview City of Stanley – Stanley Industrial Project Chippewa County WI June 19, 2023

Parcel 22905-3412 (35.4 Acres) 2022 Wetland Delineation Docket # WP-ADR-WC-2022-9-X07-15T11-14-03

> Wetland Area C 0.4 Acres

Parcel 22905-3413 (29.5 Acres) Parcel 22905-3414 (18.7Acres) Parcel 22905-3411 (27.6 Acres) 2023 Wetland Delineation Docket # WP-ADR-WC-2023-9-X06-12T17-02-53

> Wetland Area D 1.3 Acres

> > 29

SITE PHOTOGRAPHS

City of Stanley Industrial Park ERR June 19, 2023


Photo 1: Area D looking south along STH 29 ROW



Photo 2: Area D looking north.



Photo 3: Area D looking SE at SP 1-wet



Photo 4: Looking W at Area D from east boundary.



Photo 5: Wetland Area D



Photo 6: looking south at SP 2.2 Up in Area D



Photo 7: Looking East along north Area C.



Photo 8: Looking East at SP 3.2 Up in Area C



Photo 9: Looking East at Area C and SP 3.1 Wet beyond



Photo 10: Looking West from Area C at SP 3.1 Up



Photo 11: Looking East at Area B



Photo 12: Looking West at Area B



Photo 13: Looking south at SP 4-Wet from Area D



Photo 14: Looking south from 80th Street at Area A. Culvert with standing water flowing north.



Photo 15: Looking NE along Area A from SP-1U.



Photo 16: Looking east at SP-1U. in Area A.



Photo 17: Looking at wet sample point in Area A.



Photo 18: Looking west at SP-2U. Wetland Area A is to the right.



Photo 19: Wetland Area A concave surface and deep cracked soil hydrology indicators.



Photo 20: Looking at small isolate Wetland in Area A.



Photo 21: Looking north along Y-shaped swale from Area A.

Note: In order to fill and save this form electronically, it must be opened using Adobe Reader or Acrobat software. Save a copy of the file, open Adobe Reader, select File > Open and browse for the file you saved.

State of Wisconsin Department of Natural Resources Bureau of Natural Heritage Conservation Endangered Resources Review Program PO Box 7921, Madison WI 53707-7921 https://dnr.wi.gov/topic/ERReview/ DNRERReview@wisconsin.gov

Endangered Resources (ER) Review Verification Broad Incidental Take Permit/Authorization for No/Low Impact Activities

Form 1700-079 (R 03/23)

Page 1 of 2

Notice: This form is authorized by s. 29.604, Wis. Stats. This completed signed form, once submitted to **DNRERReview@wi.gov** using the Submit by Email button at the bottom of the form, fulfills the requirement of an Endangered Resources Review and should be attached to other permits requiring an ER Review to show that Endangered Resources requirements have been met. Personal information collected on this form will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Public Records law [ss. 19.31-19.39, Wis. Stats.].

Instructions: Complete this form if your project is covered under the Broad Incidental Take Permit/Authorization for No/Low Impact Activities and therefore does not require an Endangered Resources Review.

Section 1: Applicant and Project Informa	ation					
Requester Name		Organization or Agency Name				
Kerry Ingraham		Ingraham Technical Services Inc.				
Project Name		County	Township	Range	ОE	Section
Stanley Industrial Park	_	Chippewa	29 N	5	ĕ₩	34
Telephone Number	Email Address					
(715) 271-4916	kerry@ingrahamtechnicalservices.com					

Project Description

The proposed project is for an industrial park in the City of Stanley. The city plans to have the site "shovel-ready" for future use.

Indicate who you are completing this form	as:			
DNR Staff				
O Certified Reviewer				
Other:				
Section 2: Broad Incidental Take Perm	nit/Authorization Coverage In	formation		
How is your project covered under the Bro	ad Incidental Take Permit/Auth	orization for No/Low Impact Activities?		
It is included in the list of activities	s in Table 1 – No/Low Impact Ta	able for All Species at All Times of the Year.		
It is included in the list of activities in Table 2 – No/Low Impact Table by Taxa Group for DNR Staff and ER Certified Reviewers Only and the Taxa groups for the species of concern are covered.				
It is included in the list of activities Only and the species of concerna	s in Table 2 – No/Low Impact Ta are covered by the Avoidance N	able by Taxa Group for DNR Staff ER Certified Reviewers leasures document.		
Activity Number(s) Table 2 Footnote 4: This project has o a result, there will be no impacts to ne	nly one special concern turt sting habitat.	e species and there is no waterway within 900 feet. As		
By my signature below L certify that to the	best of my knowledge, the infe	rmation atotad above is complete and accurate		
by my signature below, i certily that to the	best of my knowledge, the into	חוזמווטח גומופט מסטיפ וג נטחוףופופ מחט מנכטוומופ.		
Angela White	6/19/2023	Angela White		
Signature	Date Signed	Requester/Submitter Name (please print)		

Endangered Resources (ER) Review Verification Broad Incidental Take Permit/Authorization for No/Low Impact Activities

Page 2 of 2

Form 1700-079 (R 03/23)

	Leave Blank – DNR Use Only	Approve/Deny Form	
	Approved Denied		
DNR Reviewer Name		DNR Reviewer Date	
Melissa Tumbleson		06/19/2023	

Neil Bowe

From: Sent: To: Cc: Subject: Attachments: DNR ER Review <DNRERReview@wisconsin.gov> Monday, June 19, 2023 3:23 PM Kerry Ingraham Neil Bowe RE: ERR Request for City Of Stanley Industrial Park verificationform1700-079.pdf

Hi Kerry,

The **Stanley Industrial Park** project is covered by Table 2 of the <u>Broad Incidental Take Permit/Authorization for No/Low</u> <u>Impact Activities (No/Low BITP/A)</u>, a formal ER Review letter is not needed and there are no actions that need to be taken to comply with state and/or federal endangered species laws. Any take that may result from the proposed project is permitted/authorized, and the ER Review fee is waived.

Specifically, the project is covered by Table 2 Footnote 4: This project has only one special concern turtle species and there is no suitable waterway within 900 feet. As a result, there will be no impacts to nesting habitat. *Please note, Table 2 is for use by DNR Staff and ER Certified Reviewers only, therefore, the table is not available online.* The no/low BITP/A covers projects that the DNR has determined will have no impact or a minimal impact to endangered and threatened species in the state.

Attached is an ER Review Verification Form for you to keep on file and submit with any other necessary DNR permit applications to indicate that ER requirements have been met. This notice only addresses endangered resources issues. This notice does not constitute DNR authorization of the proposed project and does not exempt the project from securing necessary permits and approvals from the DNR and/or other permitting authorities.

Please contact me if you have any questions.

Thanks, Angela

We are committed to service excellence. Visit our survey at <u>http://dnr.wi.gov/customersurvey</u> to evaluate how I did.

Angela White Phone: 608-266-5241 AngelaL.White@Wisconsin.gov

From: Kerry Ingraham <kerry@ingrahamtechnicalservices.com>
Sent: Monday, June 19, 2023 2:27 PM
To: DNR ER Review <DNRERReview@wisconsin.gov>
Cc: Neil Bowe <nbowe@cbssquaredinc.com>
Subject: ERR Request for City Of Stanley Industrial Park

CAUTION: This email originated from outside the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. Good Afternoon,

Attached is an ERR Request for the City of Stanley Industrial Park. Due to the size of the documents, I was unable to attach the two wetland delineation reports but included the docket numbers if you need to download them. Please contact me with any questions.

Thank you, Kerry

Kerry Ingraham Ingraham Technical Services kerry@IngrahamTechnicalServices.com 715-271-4916 Results of a Phase I Archaeological Survey for A Proposed Shovel-Ready Development for the City Of Stanley in Chippewa County, Wisconsin

> Prepared for: CBS Squared, Inc. 770 Technology Way, Suite 1A Chippewa Falls, WI 54729

> > Principal Investigator: Katherine P. Stevenson

> > > Prepared by: Jean Dowiasch

Mississippi Valley Archaeology Center at the University of Wisconsin - La Crosse Reports of Investigations No. 1219

June 2023

ABSTRACT

In June of 2023, the Mississippi Valley Archaeology Center (MVAC) conducted a Phase I archaeological investigation of approximately 111 acres for a proposed development for the City of Stanley in Chippewa County, Wisconsin. The project lies in Section 34 of T29N-R05W, Delmar Township. Shovel testing and pedestrian survey was conducted throughout the project area. One flake was recovered during pedestrian survey at 15 meter intervals. Intensive pedestrian survey in the immediate adjacent area failed to recover additional cultural materials. As only one flake was recovered, no additional archaeological investigations are recommended.

List of Figuresii List of Tablesii Chapter 1: Introduction
List of Tablesii Chapter 1: Introduction
Chapter 1: Introduction
Chapter 2: Environmental Setting
Chapter 2. Environmental Setting $\ldots $
Project Area and Area of Potential Effect (APE)
General Geographical Location
Drainage
Vegetation
Soils
Chapter 3: Cultural Context 5
Previous Investigations
Chapter 4: Archaeological Field Methods and Results
Chapter 5: Summary and Recommendations14
References Cited

TABLE OF CONTENTS

LIST OF FIGURES

Figure 1. Stanley development project location in Chippewa County, Wisconsin
Figure 2. Master site plan for the Stanley Development, Chippewa County
Figure 3. Most of the project area was cultivated in 1938, with farmsteads located in the southwest and
northeast corners
Figure 4. Previously recorded archaeological surveys within one mile of the Stanley Development project
area
Figure 5. Plan map of the Phase I archaeological survey of the Stanley Development
Figure 6. Shovel testing the farmstead in the southwest corner of the project area
Figure 7. Pedestrian survey was undertaken over most of the project area with 90-95% visibility 11
Figure 8. Top: wetland area in southeast corner of the parcel. Bottom: wetland area in northwest corner of
project area
Figure 9. Part of the parcel had been graded for use as a staging area for equipment for construction on
the west side of 345 th Street

LIST OF TABLES

Table 1. Previous	archaeological	investigations [*]	within one mile of	the project	area	б
-------------------	----------------	-----------------------------	--------------------	-------------	------	---

CHAPTER 1 INTRODUCTION

In June of 2023, the Mississippi Valley Archaeology Center (MVAC) conducted a Phase I archaeological survey of approximately 111 acres for a proposed development for the City of Stanley in Chippewa County, Wisconsin (Figure 1). The project lies in the NE ¼ of Section 34 of T29N-R05W. The goal of the project is to make the parcel shovel-ready for development.

Shovel testing and pedestrian survey were conducted throughout the project area. One flake was recovered during pedestrian survey at 15 meter intervals, which was recorded as the Stanley Isolated Find site (47CH-0XXX). Intensive pedestrian survey at less than 1 meter intervals in the immediate adjacent area failed to recover additional artifacts. Since only 1 flake was recovered, no additional archaeological investigations are recommended.



Figure 1. Stanley development project location in Chippewa County, Wisconsin.

CHAPTER 2 ENVIRONMENTAL SETTING

Project Area and Area of Potential Effect (APE)

The Stanley Development is located at the southeast corner of the intersection of 345th and W. Maple Streets and consists of 111 acres. Stanley is planning a shovel-ready development for businesses in the southwestern portion of the city. The project area is bounded by the Town of Delmar to the west, W. Maple Street to the north, agricultural fields and grain bins to the east, and STH 29 to the south (Figure 2).



Figure 2. Master Site Plan for the Stanley Development, Chippewa County.

General Geographical Location

Chippewa County, situated in northwest Wisconsin (see Figure 1), lies partly in the sandstone of the Central Plain and partly in the Northern Highland Geographic Provinces (Martin 1965). The City of Stanley lies in the southeast corner of Chippewa County and extends eastward into Clark County. Stanley lies in the Northern Highland, a peneplain that is an almost completely eroded mountain range. Formed of Precambrian-age, complexly folded and faulted igneous and metamorphic rock, the peneplain exhibits slight dissections. Rivers have trenched the peneplain to depths to 300 feet below its surface, although the Chippewa River exhibits shallow incising. Topography is also heavily affected by deposits of glacial till.

In general, the topography is moderately hilly, with hills having moderate slopes (Martin 1965). Lakes are numerous in the Northern Highland province but are less common in the areas overlain by pre-Wisconsin age glacial drift (Martin 1965).

Drainage

The project area lies within the North Fork of the Eau Claire River watershed, one of 24 watersheds of the Lower Chippewa River Basin (WDNR 2023). Two unnamed tributaries of the Wolf River lie 0.2 miles from the project area, one to the east and one to the north. The Wolf River flows into the North Fork of the Eau Claire River approximately 9 miles south of the project area in the Town of Wilson, Eau Claire County.

Vegetation

Early vegetation near the project area prior to Euro-American development was mapped in 1852 as part of the Government Land Office surveys. The vegetation in the project area was recorded as northern mesic forests consisting of maple, hemlock, and yellow birch (Cottam and Loucks 1965). The 1938 historic air photo of the project area shows that most of the project area was cultivated, with farmsteads located in the southwest and northeast corners (Figure 3).

Soils

The United States Department of Agricultural Natural Resources Conservation Service maps the predominant soil type within the project area as Withee silt loam (0-3 slopes). Additional soil types include Loyal silt loam (6-12% slopes), Poskin silt loam (0-2% slopes), and Spencer silt loam (2-6% slopes). Withee silt loam soils are found on the foot slopes of ground moraines, are formed over loess and/or silty alluvium over dense loamy till, and are classified as somewhat poorly drained (NRCS 2023). Loyal silt loam soils are found on the shoulders and backslopes of ground moraines, are formed over silty alluvium and/or loess over dense loamy till, and are classified as moderately well drained (NRCS 2023). Poskin silt loam soils are found on the footslopes of depressions on stream terraces and outwash plains, are formed over loamy drift and/or silty drift over sandy and gravelly outwash, and are classified as somewhat poorly drained (NRCS 2023). Spencer silt loam soils are formed over silty drift over sandy and gravelly outwash, and are classified as somewhat poorly drained (NRCS 2023). Newshat poorly drained (NRCS 2023). Spencer silt loam soils are found on the summits of ground moraines, are formed over silty drift over sandy loam till, and are classified as moderately well drained (NRCS 2023).



Figure 3. Most of the project area was cultivated in 1938, with farmsteads located in the southwest and northeast corners (WHIAF 2023).

CHAPTER 3 Cultural Context

Native American occupation of Wisconsin began around the end of the Pleistocene epoch, when groups of hunter-gatherers moved into the region after the retreat of the last glacial advance. Archaeologists have currently established the basic broad chronology of Native American cultural traditions in the region as follows (Theler and Boszhardt 2003):

Paleoindian Tradition: ca. 12,000–8,000 B.P (before present) Archaic Tradition: ca. 8,000–2,500 B.P Woodland Tradition: ca. 2,500–700 B.P Mississippian/Oneota Tradition: ca. 800–350 B.P Early Historic: 350–150 B.P Late Historic: 150 B.P–Modern Era

These traditions define broad patterns of material culture and are organized by relative and chronometric dating. In general, these periods are somewhat arbitrary as they represent a continuum of changes that occurred over long periods of time. They are distinguished by differences in settlement and subsistence patterns, changes in styles and design of stone tools, the appearance of ceramic technology, and subsequent changes in ceramic style and design as well as the construction and design of various types of earthen mounds.

It is important to note that these changes did not occur at the same time everywhere. They are considered time transgressive, originating in one area and spreading from there at varying rates. Most of the significant cultural changes, such as the adoption of horticulture/agriculture, occurred to the south of the state and gradually worked their way north. Therefore, some of these cultural periods occurred later in northern Wisconsin than in the southern portion of the state. In some cases, such as the adoption of intensive agriculture, the cultural changes never reached the northern portions of the state as they were subject to environmental constraints.

Previous Investigations

A comprehensive literature review was conducted using the Archaeological Reports Inventory (ARI) and Archaeological Site Inventory (ASI), which are parts of the Wisconsin Historic Preservation Database (WHPD) maintained by the Wisconsin Historical Society. The WHPD contains those archaeological sites and previous surveys which have been reported to the Wisconsin Historical Society. It is possible that additional cultural materials which have not yet been recovered or reported may exist within the property.

Previous Archaeological Surveys

Ten archaeological investigations have been recorded within one mile of the project area (Table 1, Figure 4). In the early 1990s, multiple archaeological investigations were conducted related to the reconstruction of STH 29, with no cultural materials recovered within one mile of the project areas (WHPD 2023). Four additional archaeological investigations are documented within one mile of the project area. These investigations consisted of Phase I surveys of 2.18 acres for an extension of Janicki Road in 2001, 86 acres for various projects along STH 29 in 2006, 120 acres for a wastewater treatment plant in Stanley in 2011, and 0.35 acres for a cell tower east of Stanley in 2019. No cultural materials were recovered during any of the investigations (WHPD 2023).

		\mathcal{C} \mathcal{C} 1 \mathcal{J}
WHS#	Year	Investigation Type
90-1665	1991	Archaeological Reconnaissance of the Proposed STH 29 Reconstruction, Section I (Stillson
		Creek to Cadott), Chippewa County, Wisconsin.
90-1665	1991	Archaeological Reconnaissance of the Proposed STH 29 Reconstruction, Section II (Cadott to
		Thorp), Chippewa and Clark Counties, Wisconsin.
90-1665	1991	Archaeological Reconnaissance of the Proposed STH 29 Reconstruction, Section III (Thorp to
		Abbotsford), Clark County, Wisconsin.
90-1665	1992	Phase I Archaeological Reconnaissance of the Wetlands Mitigation Site Associated with
		Reconstruction of STH 29, Clark County, Wisconsin.
90-1665	1992	WDOT Archaeological Survey Field Report: Wetland Mitigation for STH 29.
90-1665	1994	WDOT Archaeological Survey Field Report: Clark County Wetland Mitigation Site, Phases II
		and III, Chippewa and Clark Counties, Wisconsin.
01-1885	2001	Results of a Phase I Archaeological Survey for the Extension of Janicki Road, Town of
		Stanley, Chippewa County, Wisconsin
06-0274	2006	WDOT Archaeological Survey Field Report: STH 29, Intersections of 300th Street, CTH 'G',
		Kopenhaver Avenue and Koser Avenue, Chippewa and Clark Counties, Wisconsin
11-1218	2011	Phase One Archaeological Investigation Results: Proposed Water Treatment Facility and
		Associated Fixtures, Stanley, Chippewa County, Wisconsin
19-0642	2019	Cultural Resource Inventory Survey: Proposed Cell Tower Site - Road X - 330th Street, Town
		of Delmar, Chippewa County, Wisconsin

Table 1. Previous archaeological investigations within one mile of the project area.

Recorded Archaeological Sites

There are no archaeological sites recorded within one mile of the proposed Stanley development project area.



Figure 4. Previously recorded archaeological surveys within one mile of the Stanley Development project area. Stanley 7.5' USGS topographic map.

CHAPTER 4 ARCHAEOLOGICAL FIELD METHODS AND RESULTS

In June of 2023, the Mississippi Valley Archaeology Center (MVAC) conducted archaeological investigations for a proposed development in the southwest corner of the City of Stanley. The project encompasses approximately 111 acres and was surveyed to establish the parcel as shovel-ready for future development. Survey methods consisted of shovel testing and pedestrian survey (Figure 5).



Figure 5. Plan map of the Phase I archaeological survey of the Stanley Development.

Shovel tests

Shovel testing was conducted over approximately three acres in the southwest corner of the project area, in a former farmstead (Figure 6). A gravel driveway leads into the farmstead from 345th Street, with another gravel area extending south opposite an extant shed within the farmstead. Shovel tests were placed at 15 meter intervals throughout the three acres. Insignificant historic artifacts including a rusty nail, window glass, and a piece of whiteware ceramics were noted, but were not retained. Shovel tests were dug through brown (10YR 5/3) silty loam to the very pale brown (10YR 7/4) silty loam subsoil, with an average depth of 40 cm below ground surface. All soils were screened using ¹/₄" mesh hardware screen, in accordance with the Wisconsin Archaeological Survey guidelines (Dudzik et al. 2012). No significant cultural materials were recovered.

Pedestrian survey

Approximately 100.5 acres of the project area was cultivated at the time of survey. Pedestrian survey was undertaken over the cultivated areas at 15 meter intervals, with an average of 90-95% visibility (Figure 7). During the survey, one Prairie du Chien chert tertiary flake was recovered in the north-central portion of the parcel (see Figure 5). Intensive pedestrian survey was undertaken in the immediate adjacent area at less than 1 meter intervals, with no additional artifacts recovered. The site was reported to the Wisconsin Historical Society as the Stanley Isolated Find site (47CH-0XXX, Appendix A). No additional cultural materials were recovered throughout the remainder of the cultivated areas of the parcel.

Areas not surveyed

Wetland areas within the parcel included 4 acres in the northwest corner and 1 acre in the southeast corner (see Figure 5, Figure 8). Construction was taking place on the west side of 345th Street, and a portion of the project area had been graded and was being used as an equipment staging area (Figure 9). Due to these areas being in wetland and the previous disturbance from grading, these areas did not require survey, in accordance with the Wisconsin Archaeological Survey guidelines (Dudzik et al. 2012). All field notes and digital photographs of the project will be on file at the MVAC laboratory.



Figure 6. Shovel testing the farmstead in the southwest corner of the project area. Top view facing west, bottom view facing northwest.



Figure 7. Pedestrian survey was undertaken over most of the project area with 90-95% visibility. Top: southern portion of the project area along STH 29, view facing south. Bottom: northern portion of the project area, view facing west.



Figure 8. Top: wetland area in southeast corner of the parcel, view facing northeast. Bottom: looking toward wetland area in northwest corner of project area, view facing northwest.



Figure 9. Part of the parcel had been graded for use as a staging area for equipment for construction on the west side of 345th Street, shown in the background, view facing west.

CHAPTER 5 SUMMARY AND RECOMMENDATIONS

The Mississippi Valley Archaeology Center conducted Phase I investigations for a proposed development in the City of Stanley, Chippewa County. Archaeological investigations consisted of shovel testing and pedestrian survey throughout the 111 acre project area. No archaeological sites were previously recorded within the project area. One isolated flake was recovered from the project area and reported to the Wisconsin Historical Society as the Stanley Isolated Find site (47CH-0XXX). Since only one flake was recovered during the Phase I survey of Stanley Development project area, no additional archaeological investigations are recommended.

REFERENCES CITED

Cottam, G., and O.L. Loucks

1965 *Early Vegetation in Wisconsin*, a map compiled for the Geological and Natural History Survey. Madison: University of Wisconsin – Extension.

Dudzik, Mark J., Joseph A. Tiffany, and Katherine P. Stevenson

2012 *Guide for Public Archeology in Wisconsin.* The Wisconsin Archaeological Survey.

Martin, Lawrence

1965 The Physical Geography of Wisconsin. The University of Wisconsin Press, Madison, Wisconsin.

NRCS

2023 *Soil Survey of Chippewa County, Wisconsin.* Web Soil Survey, National Cooperative Soil Survey, Natural Resources Conservation Service, U.S. Department of Agriculture. Electronic document accessed June 2023: http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx.

Theler, James L. and Robert F. Boszhardt

2003 *Twelve Millenia: Archaeology of the Upper Mississippi River Valley.* University of Iowa Press, Iowa.

Wisconsin Department of Natural Resources

2023 North Fork Eau Claire River Watershed Wisconsin Watersheds. Electronic document accessed June 2023: https://www.google.com/url?client=internal-elementcse&cx=002309229756371288958:pv5w7rlar9s&q=https://dnr.wi.gov/water/wsSWIMSDocume nt.ashx%3FdocumentSeqNo%3D34919920&sa=U&ved=2ahUKEwjqzKWes83_AhVdg4kEHX A9DYsQFnoECAEQAQ&usg=AOvVaw02lmQmDgOIPAnp4snSKCwe

Wisconsin Historic Aerial Imagery Finder

2023 *1938 Stanley aerial photo*. Electronic document accessed June 2023: https://maps.sco.wisc.edu/WHAIFinder/#7/44.750/-89.750

Wisconsin Historic Preservation Database

2023 Archaeological Reports Inventory and Archaeological Site Inventory forms from the Wisconsin Historical Society, Madison

Appendix A

Siteform

Stanley Isolated Find (47CH-0XXX)

Wisconsin Archeological Site Inventory Form

CODE <u>#47-</u>	COUNTY:	
SITE NAME (limit 25 characters)		
FIELD NUMBER(S):	OTHER NAME:	
Locational Information (See Append	dix B)	
CIVIL TOWN(S):	OR MUNICIPALITY:	
TOWN # North RANGE # QUARTER-SECTIONS (at least 3)	_E or W SECTION #	FRENCH/GOV LOT:
QUARTER-SECTION GRID ALIGNME	ENT (edge and corner):	
ADDITIONAL TRS DATA:		
TOWN #North RANGE #	E or W SECTION #	FRENCH/GOV LOT:
QUARTER-SECTIONS (at least 3)	_	
QUARTER-SECTION GRID ALIGNM	ENT (edge and corner)	
UTM COORDINATES: (110)Zone	_ (112) Easting (114) Northing	
Method: Interpolated from	USGS QUAD: GPS Field:	
USGS 7.5' QUADRANGLE MAP NAMI	E PARCEL ID: _	
GEOGRAPHIC LOCATION & RELATION	ON TO LANDSCAPE FEATURES:	

Site Description Information

SITE/FEATURE DESCRIPTION:

SITE DIMENSIONS:	 feet OR meters (check one)
or	
SITE AREA:	 acres OR hectares (check one)

SITE TYPE(S): (Check all that app	ply. See Appendix D.)				
Abandoned Community	Enclosure/earthworks	Mound(s)- effigy Trading/fur post			
Cabin/homestead	Experimental	Mound(s)- conical Traditional Cultural Property			
Cache/pit/hearth	Farmstead	Mound(s)- linear Transportation site			
Campsite/village	Fish weir	Mound(s)- other/unk Tower			
Cave/rockshelter	Foundation/depression	Non-arch Feature Well			
CCC/WPA site	HCM concentration	Paleontological Workshop site			
Cemetery/burials	L Ice House	Quarry/mine Unknown			
Church/Mission	Isolated find	Recreational			
	Industrial	Redeposited artifacts			
Corn hills/garden beds		Rock art			
	Kill site/bone bed	Rock feature/petroform			
Cultural Site	Lithic scatter	School/Government			
Dam/historic earthwork		Shell midden			
Dance Ring	Military site	Shipwreck			
Dock/pier/crib	Mill/sawmill	Sugar bush			
CLUTUDE(S), (Check all that and	v Sac Annondiv E)				
Delea Indian	V. See Appendix E.)	Unner Miss (Oneste			
Early Dalag Indian	Unitial Woodland	L ste Pre contest			
Lata Dalas Indian		Dest Contact			
	Middle Woodland	Euro American			
Early Archaic		Uninger / Indeterminate			
Middle Archaic	Terminal Woodland	Unknown / Indeterminate			
	Middle Miss	Unknown Procentact			
Late Alchaic Red Oaber					
INVESTIGATION TYPE(S) COM	PLETED: (Check all that apply.)				
Avocational Survey	Major excavation/Mitigation/P	III Soil core			
Chance Encounter	Mechanical Stripping	Surface Survey			
Faunal Analysis	Monitoring	Test excavation/PII			
Floral Analysis	Osteological analysis	Traditional Knowledge			
Geomorphology	Records/Background				
Historical Research	Remote Sensing	\square Walk Over (Reconn.)			
Interview/informant	Shovel Testing/Probing				
PHASE/COMPLEX: (Enter all that apply. Please see Appendix F for list of choices.)					
MODERN LAND USE (AT LAST Agriculture Forest Industrial/commercial Transportation corridor	UPDATE): (Check one or two.) Marked cemetery Recreational Submerged Unknown	 Pasture/grassland Residential Military Energy corridor 			
DEGREE OF DISTURBANCE (AT LAST UPDATE): (Check one.)					
IMPACTS TO SITE: (Check all the Residential, urban Commercial, urban Energy corridor Transportation corridor Military Training	at apply.) Residential, rural Commercial, rural Impoundment Logging Quarry/Mining	 Agricultural Recreational Collecting/Looting Defacing/Vandalism Natural Threats 			
Ownership Information:

OWNERSHIP TYPE: (Check all that apply.)		
Public-Federal Public-State Public-Loc	al 🗌 Private 🗌 Indian 🗌 Unknown	
OWNER'S NAME(S)		
OWNER'S ADDRESS(ES)		
YEAR OWNERSHIP DETERMINED		
Artifact /Archival Information ARTIFACT/RECORDS REPOSITORY:	 Ground/pecked /battered stone Historic building material Standing Structures Houses/Structures (in ground) Human bone Metal Other chipped stone Projectile points 	
DATES: DATING METHOD(S): Artifact style/cross-dating	Radiocarbon DATE:	
Informant/Oral History Thermoluminescence DATE: Historic records	 Site type Traditional Knowledge Other: 	
Investigator/Reporter Information:		
NAME OF INVESTIGATOR(S)	ORGANIZATION((See Appendix G.)	DATE(S) OF INVESTIGATION
NAME OF SITE REPORTER	ORGANIZATION (See Appendix G.)	DATE SITE REPORTED

BIBLIOGRAPHIC REFERENCES:

Investigator's Recommendation- (Check all that apply.)

No Additional Investigation

Additional Field Investigations Additional Archival Research Protect During Construction

Redesign-avoid Preserve in Place

Comments:

Site Recorded For -

Section 106/Compliance WHS Project#
State Regional Archaeological Program WHS Project#
WHS Survey & Planning Grant WHS Project #
THPO WHS Project#
Personal/Private Site Investigation WHS Project#
Education WHS Project#



Stanley Isolated Find Chippewa County 2905W-34 Stanley 7.5' USGS topographic map

WISCONSIN PUBLIC LANDS FIELD ARCHAEOLOGICAL PERMIT 2023

REQUIRED TO CONDUCT ARCHAEOLOGY ON ALL NON-FEDERAL PUBLIC LAND UNDER WIS. STAT. § 44.47

Wisconsin Historical Society

Name/Organization/Contact Jean Dowiasch	Telephone	608-792-0781
Address 1725 State Street	City La Crosse	State WI Zip 54601
E-mail jdowiasch@uwlax.edu		
Institutional Affiliation Mississippi Valley Archaeolog	gy Center	
Location: County Chippewa	Civil Town	
Town_29 Range_5W Section	Quarter Sections N	IE
Hwy/Rd Hwy/Rd:	Other Type o	f Project:municipal development
Project Description: Phase I survey of 111 acres for	a proposed shovel ready developr	nent for the City of Stanley
Type of fieldwork: Phase I/Survey 🖌 Phase II/T	esting Phase III/Excavation	Monitoring
Purpose of the fieldwork: Federal Compliance	State Compliance 🖌 Educat	tion Other
Site # N/A Burial Site #	Burial Permit Secured? Y]NWHS #:
Dates of field work: Begin date: May 15, 2023	End date; June 2	, 2023
What institution will curate recovered artifacts, n (A curation agreement must be on file with WHS; all	notes, and records? MVAC I materials must be curated in an a	ppropriate, staffed facility.)
Print name Jean Dowlasch		see attachments
Signature of Archaeologist _ Jean Pour week_		Date 5/11/2023
Maps and/or Letters of each	xplanation can accompany this app	olication
Landowner or custodian name CITY OF	STANLY Phone 715	-644-5758
Affiliation:		· · · · · · · · · · · · · · · · · · ·
Signature of Landowner a Hoo	~	Date 5- 12-20 2
Admin	istrative use only below this line	
Permit Approved Cines & Renfrag	L. Da	ite 5/15/2023
PLP # 23-0966 Bill State S 608-264-6- statearchae	cosebrough te Archaeologist Historical Society Greet, Madison, WI 53706 494 eologist@wisconsinhistory.org	WISCONSIN HISTORICAL SOCIETY

One paper copy and one PDF copy of the final report must be submitted to the State Historic Preservation Office.

Additional authorization or permitting is necessary to conduct work within the boundaries of uncataloged and cataloged human burial sites under Wis. Stat. § 157.70. For more information, wihist.org/Request-to-Disturb

ARCHAEOLOGICAL REPORTS INVENTORY FORM

WHS PROJECT #

COUNTY Chippewa

AUTHORS: Jean Dowiasch

REPORT TITLE: Results of a Phase I Archaeological Survey for a Proposed Shovel-Ready

Development for the City of Stanley in Chippewa County, Wisconsin

DATE OF REPORT (MONTH AND YEAR): June 2023

SERIES/NUMBER: 1219

PLACE OF PUBLICATION: Mississippi Valley Archaeology Center

LOCATIONAL INFORMATION [LEGAL DESCRIPTION OF SURVEY AREA (T-R-S)] 2905W-34

U.S.G.S. QUAD MAP(S): Stanley 7.5'

SITE(S) INVESTIGATED: Stanley Isolated Find (47CH-0XXX)

ACRES INVESTIGATED: 111 AGENCY #

Included in report

INVESTIGATION TECHNIQUES COMPLETED (Check all that apply.) Chance Encounter Historical Research Avocational Survey Faunal Analysis Floral Analysis Interview/Informant Literature Background Research Major Excavation/Phase III Mechanical Stripping ☐ Monitoring Osteological Analysis Geomorphology Records/Background Surface Survey Soil Core Remote Sensing Shovel Testing/Probing Test Excavation/Phase II Traditional Knowledge Underwater Walk Over/Visual Inspection ABSTRACT:

Written in space below



May 18, 2023

Mr. Neil Bowe, PLS CBS Squared, Inc. 770 Technology Way, Suite 1A Chippewa Falls, WI 54729

Subject: Stanley Redevelopment Stanley, Chippewa County Historical Services

Dear Mr. Bowe:

Mead & Hunt, Inc. (Mead & Hunt) has completed the architecture/history review of the proposed Stanley Redevelopment, which will involve the potential development of a 111-acre site bordering the west side of the city. A project location map may be viewed in Attachment A.

Based on project activities, the Area of Potential Effects (APE) was delineated to include the 111-acre area that will be redeveloped and the first tier of adjacent properties. The site is roughly bound by 345th Street to the west, 80th Avenue to the north, Janicki Road to the east, and State Trunk Highway 29 to the south. A map of the site can be viewed in Attachment B. Mead & Hunt reviewed the Wisconsin Historic Preservation Database (WHPD) to identify previously recorded properties within the APE, including those listed in the National Register of Historic Places (National Register). No previously surveyed properties were found within or immediately adjacent to the APE.

Mead & Hunt completed a field survey of the APE in April 2023. Within the APE we looked for buildings, structures, and/or objects that are at least 40 years of age, retain sufficient integrity, and appear to be potentially eligible for the National Register based on architectural and/or historical significance. The 111 acres proposed for development are primarily agricultural and surrounded by farmsteads. In addition, industrial development borders the property to the east/northeast. The built environment within and immediately adjacent to the APE includes modest and generally altered residences, agricultural outbuildings, and industrial buildings; none of which meet survey criteria individually or as a complex.

Mead & Hunt concludes that no historic properties are present in the APE. No further architecture/history work is recommended for this project. If you have any questions or require additional information, please contact me by phone at (918) 586-7285 or at <u>liz.boyer@meadhunt.com</u>.

Mr. Neil Bowe May 18, 2023 Page 2

Sincerely,

Li M Boyer

Liz Boyer MEAD & HUNT, Inc. Historian



Stanley Redevelopment City of Stanley, Chippewa County, WI Section 106 Historical Services

2,000

Feet

500

٥

1,000



Project Location

Chippewa County Parcels





Stanley Redevelopment City of Stanley, Chippewa County, WI Section 106 Historical Services

2,000

Feet

500

٥

1,000





Chippewa County Parcels





July 3, 2023

Mr. Charlie Walker Chippewa County Economic Development Corporation 770 Technology Way Chippewa Falls, Wisconsin 54729

SUBJECT: Geotechnical Engineering Services Planned Shovel Ready Certified Building Site Stanley, Wisconsin PSI Project No. 00952022 (Revised)

Dear Mr. Walker,

In accordance with your request, the results of the soil borings for the above-referenced project are provided herein. The description of services and authorization to perform this subsurface exploration were in the form of PSI Proposal No. 397836, dated April 19, 2023. The general conditions for the performance of the work were referenced in the proposal. This report has been prepared on behalf of and exclusively for the use of the Chippewa County Economic Development Corporation. The information contained in this report may not be relied upon by any other parties without the express written consent of PSI, and acceptance by such parties of PSI's General Conditions.

The purpose of this project was to perform soil borings to provide subsurface information for general site feasibility and preliminary design planning for the proposed project. Recommendations for structures, and for utilities and pavements, were beyond the scope of this project. Five (5) soil test borings were performed for this project to depths of about 21.5 feet. A representative of the client staked the boring locations and provided ground surface elevations.

The soil test borings were performed with an ATV-mounted drilling rig utilizing continuous flight hollow stem augers to advance the holes. Representative samples were obtained by the Standard Penetration Test (SPT) method using split-spoon sampling procedures in general accordance with ASTM D-1586 procedures. Samples were secured at 2.5-foot intervals to a depth of 10 feet, and then at 5-foot intervals to the end of the borings. The standard penetration value (N) is defined as the number of blows of a 140 pound hammer, falling 30 inches, required to advance the split-spoon sampler 1 foot into the soil. The sampler is lowered to the bottom of the drill hole and the number of blows recorded for each of the three (3) successive increments of 6 inches of penetration. The "N" value is obtained by adding the second and third incremental numbers. The SPT provides a means of estimating the relative density of granular soils and comparative consistency of cohesive soils, thereby providing a method of evaluating the relative strength and compressibility characteristics of the subsoils.

The SPT soil samples were transferred into clean glass jars immediately after retrieval, and returned to the laboratory upon completion of the field operations. Samples will be discarded unless other instructions are received. All soil samples were visually classified by a soils engineer in general accordance with the Unified Soil Classification System (ASTM D-2488-75). After completion of the borings, the auger holes were backfilled to the ground surface with bentonite chips.

PSI Project No. 00952022 (Revised) Planned Shovel Ready Certified Building Site Stanley, Wisconsin Page 2

A copy of the Soil Boring Logs and Boring Location Diagram (Figure 1) are enclosed. A description of the subsurface conditions encountered at the test boring locations is shown on the Soil Boring Logs. The lines of demarcation shown on the logs represent an approximate boundary between the various soil classifications; however, some variation is expected. It must be recognized that the soil descriptions are considered representative estimates for the specific test hole location, but that variations may occur between and beyond the sampling intervals and boring locations. Soil depths, topsoil and layer thicknesses, and demarcation lines can be utilized for preconstruction planning, but should not be expected to yield exact and final quantities. A summary of the major soil profile components is described in the following paragraphs. The terms and symbols used on the logs are described in the attached General Notes.

The surface of the site at each of the borings was covered with about 4 to 8 inches of silty clay topsoil. The topsoil at the borings was underlain by clay soils, with varying amounts of silt, sand and gravel, to a depth of about 2.5 feet (EL. 1110 to EL. 1133.3) below ground surface. The clay soils may be considered medium stiff to stiff with unconfined compressive strengths of 0.75 to 2.0 tons per square foot.

The clay soils at each of the borings were generally underlain by sand soils, with varying amounts of silt, clay and gravel, to at least the termination depth of B-3 (21.5 feet) and to depths of about 7.5 to 20 feet (EL. 1101.9 to EL. 1107.2) below ground surface at the remaining borings. The sand soils may be considered loose to very dense with standard penetration resistance of 9 to 62 blows per foot. It should be noted that the sand soils encountered at boring B-4 from depths of about 5 to 7.5 feet (EL. 1105.2 to EL. 1107.7) below ground surface were classified as possible weathered sandstone.

The sand soils at borings B-1, B-2 and B-4 were underlain by weathered sandstone to at least the termination depth of the borings (21.5 feet). The weathered sandstone may be considered dense to extremely dense with standard penetration resistance of 32 blows per foot to 50 blows per 4 inches of sampler penetration. The sand soils at boring B-5 were underlain by very stiff to hard clay soils with sand to at least the termination depth of the boring (21.5).

Groundwater observations were made during the drilling operations and in the open boreholes at completion. Groundwater was not encountered during auger advancement or upon completion at any of the borings. It must be recognized that groundwater levels fluctuate with time due to variations in seasonal precipitation, lateral drainage conditions, and soil permeability characteristics. Longer term monitoring would be required to further evaluate groundwater levels on this site.

This preliminary exploration has been commissioned to provide subsurface information for general site feasibility and preliminary design planning for the proposed development. The number and spacing of the borings requested are not considered sufficient to serve as a conventional foundation evaluation for future buildings, or for more detailed planning with regard to pavements, utility depths and final surface grades. Additional borings are necessary and recommended across the site to assist in developing surface grades and establishing utility depths (considering the presence of weathered sandstone). Additional borings are also recommended and necessary within each of the proposed building footprints to further evaluate more specific soil conditions and provide subsequent recommendations at each building location.

The soils encountered in the borings are considered to meet the criteria for Seismic Site Class C or D (depending on location) in accordance with 1613.2.5.2 of the International Building Code-2018

PSI Project No. 00952022 (Revised) Planned Shovel Ready Certified Building Site Stanley, Wisconsin Page 3

(which directs to the simplified design procedure outlined in ASCE 7 – Minimum Design Loads and Associated Criteria for Buildings and Other Structures).

Please call at any time with any questions or comments you may have. PSI appreciates the opportunity to be of service on this project, and looks forward to continuing as your geotechnical consultant during the design and construction phases, as well as your upcoming projects.

Sincerely,

PROFESSIONAL SERVICE INDUSTRIES, INC.

Kalie M. Ress Staff Geologist

Jeffrey A. Manninen Branch Manager – Chippewa Falls

Attachments: Figure 1 - Boring Location Diagram Soil Boring Logs General Notes







intertek 05

Location:

SOIL BORING LOG: B - 1

Project: Shovel Ready Certified Building Site

Stanley, Wisconsin

Project No.: 00952022

Drill Date: May 9, 2023

DEPTH/EL. VISUAL SOIL CLASSIFICATION SAMPLE MC Ν Qp Qu REMARKS (feet) GROUND SURFACE ELEVATION: 1112.5 NO. (bpf) (tsf) (tsf) (%) 0 - 4" Dark brown silty CLAY, trace sand and root hairs, damp (TOPSOIL) 1111.5 1 1-AU 0.75 28 ---Pale grayish brown and orange mottled silty CLAY, trace silt seams, moist 2 1110.5 3 1109.5 2-SS 17 9 4 1108.5 5 1107.5 Reddish brown clayey SAND, with gravel, moist 3-SS 6 1106.5 11 11 7 1105.5 8_ 1104.5 4-SS 42 ---9 1103.5 10_ 1102.5 11 1101.5 5-SS 50/5.5" ___ White, tan and yellow Weathered SANDSTONE, trace clay seams 12 1100.5 13 1099.5 14 1098.5 15 1097.5 6-SS 50/4" 16 1096.5 ---17 1095.5 1094.5 18 White and pale pink Weathered SANDSTONE, with green clay seams 1093.5 19 20 1092.5 21 7-SS 32 1091.5 1090.5 22 END OF BORING @ 21.5± FEET 23 1089.5 24 1088.5 25 1087.5 FIELD OBSERVATIONS: ADDITIONAL COMMENTS: Water Level during drilling: Not Encountered ▼ Water Level upon completion: Not Present v Caved at $_{\text{upon completion}}$: 17± feet below ground surface (EL 1095.5±) Ţ Frost Depth N/A Water Level delayed: N/A Caved at delayed: N/A

Note: Lines of stratification represent an **approximate** boundary between soil types. Variations may occur between sampling intervals and/or boring locations. Transitions may also be gradual.

intertek **PS**

Location:

SOIL BORING LOG: B - 2

Project: Shovel Ready Certified Building Site

Stanley, Wisconsin

Project No.: 00952022

Drill Date: May 9, 2023

DEP	'TH/EL.		SAMPLE	N (hnf)	Qp (tef)	Qu (tef)	MC (%)	REMARKS
	eel)	GROUND SURFACE ELEVATION: 1127.2	NO.	(bpi)	((5))	((151)	(/0)	
1_	1126.2	0 - 7" Dark brown silty CLAY, trace sand and root hairs, damp (TOPSOIL)	1-AU		1.75		20	-
2	1125.2	damp						_
3_	1124.2		2-SS	13	1.5		13	-
4	1123.2			-				-
5	1122.2							-
6	1121.2		3-SS	11			11	-
7_	1120.2							-
8_	1119.2		4-SS	11			13	
⁹	1118.2							
10	1117.2		5-88	9			15	-
12	1115.2	Reddish brown clayey SAND, trace gravel, moist						-
13	1114.2							-
14	1113.2							-
15	1112.2							
16	1111.2		6-SS	13			13	-
17	1110.2							-
18	1109.2							-
19	1108.2							
20	1107.2		7 99	63/10"				-
21	1105.2		7-00	03/10				
23	1104.2	END OF BORING @ 21.5± FEET						
24	1103.2							-
25	1102.2							-
-	-							-
_								-
FIELD (BSERVATIO	NS [.]			s.			
Water		∴ Not Encountered						
Water Le	vel upon completion	: Not Present 👱						
Caveo	d at upon completion	∴ 15± feet below ground surface (EL 1112.2±)						
Wa	rost Dept	: N/A						
	Caved at _{delaver}	: N/A						

Note: Lines of stratification represent an **approximate** boundary between soil types. Variations may occur between sampling intervals and/or boring locations. Transitions may also be gradual.

SOIL BORING LOG: B - 3

oject: Shovel Ready Certified Building Site

Project No.: 00952022

Drill Date: May 9, 2023

DEPTH/EL. VISUAL SOIL CLASSIFICATION SAMPLE Qu MC Ν Qp REMARKS (feet) GROUND SURFACE ELEVATION: 1135.8 NO. (bpf) (tsf) (tsf) (%) 0 - 7" Dark brown silty CLAY, trace sand and root hairs, damp (TOPSOIL) 1134.8 1 1-AU 0.75 22 ---Pale grayish brown and orange mottled silty CLAY, trace silt seams, moist 2 1133.8 3 1132.8 2-SS 12 11 4 1131.8 5 1130.8 3-SS 20 10 6 1129.8 1128.8 7 1127.8 8 4-SS 18 ---Reddish brown clayey SAND, trace gravel, moist 9 1126.8 10_ 1125.8 11 1124.8 5-SS 27 12 12 1123.8 13 1122.8 14 1121.8 15 1120.8 6-SS 62 4 16 1119.8 1118.8 17 1117.8 18 Reddish brown SAND, with silt, clay and gravel, damp 1116.8 19 20 1115.8 7-SS 47 6 1114.8 21 1113.8 22 END OF BORING @ 21.5± FEET 23 1112.8 24 1111.8 25 1110.8 FIELD OBSERVATIONS: ADDITIONAL COMMENTS: Water Level during drilling: Not Encountered ▼ Water Level upon completion: Not Present v Caved at $_{\text{upon completion}}$: 16± feet below ground surface (EL 1119.8±) Ţ Frost Depth N/A Water Level delayed: N/A Caved at delayed: N/A

Note: Lines of stratification represent an **approximate** boundary between soil types. Variations may occur between sampling intervals and/or boring locations. Transitions may also be gradual.

Project:

intertek

Location: Stanley, Wisconsin

intertek PS

Location:

SOIL BORING LOG: B - 4

Project: Shovel Ready Certified Building Site

Project No.: 00952022

Stanley, Wisconsin

Drill Date: May 9, 2023

DEP	IH/EL.		SAMPLE	N (h. C	Qp (L) D	Qu	MC	REMARKS
(f	eet)	GROUND SURFACE ELEVATION: 1112.7	NO.	(bpf)	(tsf)	(tsf)	(%)	
1_	1111.7	0 - 8" Dark grayish brown silty CLAY, trace sand, root hairs and corn stubble, very moist (TOPSOIL)	1-AU		2.0		22	- -
2_	1110.7	Grayish brown and reddish brown mottled sandy CLAY, trace sand seams and gravel, damp						
3	1109.7		2-SS	13			13	-
4	1108.7	Reddish brown clayey SAND, trace gravel, damp						-
56_	1107.7		3-SS	15			4	-
7_	1105.7	Yellowish tan SAND, very moist (Possible Weathered SANDSTONE)						-
8	1104.7		4-SS	59				-
9_ 	1103.7							-
11	1101.7		5-SS	50/5"				-
12	1100.7	White and tan Weathered SANDSTONE						-
13	1099.7							-
¹⁴	1098.7							-
16	1096.7		6-SS	50/5"				-
17	1095.7							<u> </u>
18	1094.7	White and tan Weathered SANDSTONE, trace clay seams						-
19	1093.7							-
20 21	1092.7		7-SS	50/5.5"				-
22	1090.7							
23	1089.7	END OF BORING @ 21.5± FEET						-
24	1088.7							-
25	1087.7							-
	-							
FIELD	BSERVATIO	NS:	ADDITION		S:			
Water I		Not Encountered	ABDITION					
Water Le	vel upon completion	; Not Present v						
Caved	apon completion	: 17± feet below ground surface (EL 1095.7±)						
	Frost Dept	h N/A						
Wa	ter Level _{delaved}	; N/A						
(Caved at _{delayed}	; N/A						

Note: Lines of stratification represent an **approximate** boundary between soil types. Variations may occur between sampling intervals and/or boring locations. Transitions may also be gradual.

intertek

Location:

SOIL BORING LOG: B - 5

Shovel Ready Certified Building Site Project:

Stanley, Wisconsin

Project No.: 00952022

Drill Date: May 9, 2023

DEPTH/EL. VISUAL SOIL CLASSIFICATION SAMPLE Qu MC Ν Qp REMARKS (feet) GROUND SURFACE ELEVATION: 1116.9 NO. (bpf) (tsf) (tsf) (%) 0 - 4" Dark brown silty CLAY, trace sand, root hairs and corn stubble, very moist (TOPSOIL) 1 1115.9 1-AU 21 ---Brown and orange mottled silty CLAY, damp 2 1114.9 3 1113.9 2-SS 34 10 4 1112.9 5 1111.9 3-SS 10 6 1110.9 11 Reddish brown clayey SAND, with gravel, moist 7 1109.9 1108.9 8 4-SS 12 12 9 1107.9 10_ 1106.9 11 1105.9 5-SS 23 2 12 1104.9 Tan SAND, damp 13 1103.9 14 1102.9 15 1101.9 6-SS 33 11 16 1100.9 1099.9 17 1098.9 18 Brown CLAY, with sand, damp 1097.9 19 20 1096.9 1095.9 7-SS 28 11 21 22 1094.9 END OF BORING @ 21.5± FEET 23 1093.9 24 1092.9 25 1091.9 FIELD OBSERVATIONS: ADDITIONAL COMMENTS: Water Level during drilling: Not Encountered ▼ Water Level upon completion: Not Present v Caved at $_{\text{upon completion}}$: 14± feet below ground surface (EL 1102.9±) Ţ Frost Depth N/A Water Level delayed: N/A Caved at delayed: N/A

Note: Lines of stratification represent an approximate boundary between soil types. Variations may occur between sampling intervals and/or boring locations. Transitions may also be gradual.



GENERAL NOTES

SAMPLE IDENTIFICATION

The Unified Soil Classification System (USCS), AASHTO 1988 and ASTM designations D2487 and D-2488 are used to identify the encountered materials unless otherwise noted. Coarse-grained soils are defined as having more than 50% of their dry weight retained on a #200 sieve (0.075mm); they are described as: boulders, cobbles, gravel or sand. Fine-grained soils have less than 50% of their dry weight retained on a #200 sieve; they are defined as silts or clay depending on their Atterberg Limit attributes. Major constituents may be added as modifiers and minor constituents may be added according to the relative proportions based on grain size.

DRILLING AND SAMPLING SYMBOLS

- SFA: Solid Flight Auger typically 4" diameter flights, except where noted.
- HSA: Hollow Stem Auger typically 3¹/₄" or 4¹/₄ I.D. openings, except where noted.
- M.R.: Mud Rotary Uses a rotary head with Bentonite or Polymer Slurry
- R.C.: Diamond Bit Core Sampler
- H.A.: Hand Auger
- P.A.: Power Auger Handheld motorized auger

SOIL PROPERTY SYMBOLS

- SS: Split-Spoon 1 3/8" I.D., 2" O.D., except where noted.
 - ST: Shelby Tube 3" O.D., except where noted.
- RC: Rock Core
- TC: Texas Cone
- 🕅 BS: Bulk Sample
- PM: Pressuremeter
- CPT-U: Cone Penetrometer Testing with Pore-Pressure Readings
- N: Standard "N" penetration: Blows per foot of a 140 pound hammer falling 30 inches on a 2-inch O.D. Split-Spoon.
- N₆₀: A "N" penetration value corrected to an equivalent 60% hammer energy transfer efficiency (ETR)
- Q_u: Unconfined compressive strength, TSF
- Q_p: Pocket penetrometer value, unconfined compressive strength, TSF
- w%: Moisture/water content, %
- LL: Liquid Limit, %
- PL: Plastic Limit, %
- PI: Plasticity Index = (LL-PL),%
- DD: Dry unit weight, pcf
- $\mathbf{Y}, \mathbf{Y}, \mathbf{Y}$ Apparent groundwater level at time noted

RELATIVE DENSITY OF COARSE-GRAINED SOILS ANGULARITY OF COARSE-GRAINED PARTICLES

Relative Density	<u>N - Blows/foot</u>	Description	Criteria
Very Loose	0 - 4	Angular:	Particles have sharp edges and relatively plane sides with unpolished surfaces
Loose Medium Dense	4 - 10 10 - 30	Subangular:	Particles are similar to angular description, but have
Dense Very Dense	30 - 50 50 - 80	Subrounded:	Particles have nearly plane sides, but have
Extremely Dense	80+	Rounded:	Particles have smoothly curved sides and no edges

GRAIN-SIZE TERMINOLOGY

PARTICLE SHAPE

Modifier:

>12%

Component	Size Range	Description	Criteria
Boulders:	Over 300 mm (>12 in.)	Flat:	Particles with width/thickness ratio > 3
Cobbles:	75 mm to 300 mm (3 in. to 12 in.)	Elongated:	Particles with length/width ratio > 3
Coarse-Grained Gravel:	19 mm to 75 mm (¾ in. to 3 in.)	Flat & Elongated:	Particles meet criteria for both flat and
Fine-Grained Gravel:	4.75 mm to 19 mm (No.4 to ¾ in.)		elongated
Coarse-Grained Sand:	2 mm to 4.75 mm (No.10 to No.4)		
Medium-Grained Sand:	0.42 mm to 2 mm (No.40 to No.10)	RELATIVE	PROPORTIONS OF FINES
Fine-Grained Sand:	0.075 mm to 0.42 mm (No. 200 to No.	40) Descripti	ve Term % Dry Weight
Silt:	0.005 mm to 0.075 mm		Trace: < 5%
Clay:	<0.005 mm		With: 5% to 12%



GENERAL NOTES

(Continued)

CONSISTENCY OF FINE-GRAINED SOILS

<u>Q_U - TSF</u>	<u>N - Blows/foot</u>	<u>Consistency</u>
0 - 0.25	0 - 2	Very Soft
0.25 - 0.50	2 - 4	Soft
0.50 - 1.00	4 - 8	Firm (Medium Stiff)
1.00 - 2.00	8 - 15	Stiff
2.00 - 4.00	15 - 30	Very Stiff
4.00 - 8.00	30 - 50	Hard
8.00+	50+	Very Hard

MOISTURE CONDITION DESCRIPTION

able
t

RELATIVE PROPORTIONS OF SAND AND GRAVEL

Descriptive Term	% Dry Weight
Trace:	< 15%
With:	15% to 30%
Modifier:	>30%

STRUCTURE DESCRIPTION

Description	Criteria	Description	Criteria
Stratified:	Alternating layers of varying material or color with	Blocky:	Cohesive soil that can be broken down into small
	layers at least 1/4-inch (6 mm) thick		angular lumps which resist further breakdown
Laminated:	Alternating layers of varying material or color with	Lensed:	Inclusion of small pockets of different soils
	layers less than ¼-inch (6 mm) thick	Layer:	Inclusion greater than 3 inches thick (75 mm)
Fissured:	Breaks along definite planes of fracture with little	Seam:	Inclusion 1/8-inch to 3 inches (3 to 75 mm) thick
	resistance to fracturing		extending through the sample
Slickensided:	Fracture planes appear polished or glossy, sometimes striated	Parting:	Inclusion less than 1/8-inch (3 mm) thick
00415		DOOK	

SCALE OF RELATIVE ROCK HARDNESS

<u>Q_U - TSF</u>	<u>Consistency</u>
2.5 - 10	Extremely Soft
10 - 50	Very Soft
50 - 250	Soft
250 - 525	Medium Hard
525 - 1,050	Moderately Hard
1,050 - 2,600	Hard
>2,600	Very Hard

ROCK VOIDS

Voids	Void Diameter
Pit	<6 mm (<0.25 in)
Vug	6 mm to 50 mm (0.25 in to 2 in)
Cavity	50 mm to 600 mm (2 in to 24 in)
Cave	>600 mm (>24 in)

ROCK QUALITY DESCRIPTION

Rock Mass DescriptionRQD ValueExcellent90 - 100Good75 - 90Fair50 - 75Poor25 - 50Very PoorLess than 25

ROCK BEDDING THICKNESSES

Description	Criteria
Very Thick Bedded	Greater than 3-foot (>1.0 m)
Thick Bedded	1-foot to 3-foot (0.3 m to 1.0 m)
Medium Bedded	4-inch to 1-foot (0.1 m to 0.3 m)
Thin Bedded	1¼-inch to 4-inch (30 mm to 100 mm)
Very Thin Bedded	¹ / ₂ -inch to 1 ¹ / ₄ -inch (10 mm to 30 mm)
Thickly Laminated	1/8-inch to 1/2-inch (3 mm to 10 mm)
Thinly Laminated	1/8-inch or less "paper thin" (<3 mm)

GRAIN-SIZED TERMINOLOGY

(Typically Sedi Component	mentary Rock) Size Range
Very Coarse Grained	>4.76 mm
Coarse Grained	2.0 mm - 4.76 mm
Medium Grained	0.42 mm - 2.0 mm
Fine Grained	0.075 mm - 0.42 mm
Very Fine Grained	<0.075 mm

DEGREE OF WEATHERING

Slightly Weathered: Rock generally fresh, joints stained and discoloration extends into rock up to 25 mm (1 in), open joints may contain clay, core rings under hammer impact.
 Weathered: Rock mass is decomposed 50% or less, significant portions of the rock show discoloration and weathering effects, cores cannot be broken by hand or scraped by knife.
 Highly Weathered: Rock mass is more than 50% decomposed, complete discoloration of rock fabric, core may be extremely broken and gives clunk sound when struck by hammer, may be shaved with a knife.

W. MAPLE ST. AREA FOR RIGHT-OF-WAY 73,550 SQ. FT.(1.69 ACRES) POSSIBLE WETLANDS POSSIBLE WETLAND AREA 120,868 SQ. FT.(2.78 ACRES) **NW-NE** TOTAL AREA = 1,616,217 SQ. FT. (37.1 ACRES) AREA FOR RIGHT-OF WAY= 73,550 SQ. FT.(1.69 ACRES) POSSIBLE WETLANDS = 120,868 SQ. FT.(2.78 ACRES) TOTAL DEVELOPABLE AREA = 1,421,800 SQ. FT. (32.63 ACRES) SW-NE AREA FOR RIGHT-OF-WAY 29,541 SQ. FT.(.68 ACRES) TOTAL AREA = 1,315,885 SQ. FT. (30.21 ACRES) AREA FOR RIGHT-OF-WAY= 29,541 SQ. FT.(.68 ACRES) RESTRICTION AREA = 4,220 SQ. FT.(.1 ACRES) ST E TOTAL DEVELOPABLE AREA = 1,282,124 SQ. FT. (29.43 ACRES) RESTRICTION AREA 4,220 SQ. FT.(.1 ACRES) 111111111 STH 29 WEST BOUND STH 29 EAST BOUND 1/4 LINE

DEVELOPABLE ACREAGE





DEVELOPABLE ACREAGE				
PART OF THE N	E 1/4 OF THE NE 1/4 OF SECTION 34	(PARCEL A)		
	SQUARE FOOTAGE	ACRES		
TOTAL AREA	1,228,742	28.21		
AREA FOR RIGHT-OF WAY	25,732	0.59		
POSSIBLE WETLANDS	5,348	0.12		
TOTAL BUILDABLE AREA	1,197,662	27.5		
PART OF THE N	W 1/4 OF THE NE 1/4 OF SECTION 34	(PARCEL B)		
	SQUARE FOOTAGE	ACRES		
TOTAL AREA	1,616,217	37.1		
AREA FOR RIGHT-OF WAY	73,550	1.69		
POSSIBLE WETLANDS	120,868	2.78		
TOTAL BUILDABLE AREA	1,421,800	32.63		
PART OF THE S	W 1/4 OF THE NE 1/4 OF SECTION 34	(PARCEL C)		
SQUARE FOOTAGE ACRES				
TOTAL AREA	1,315,885	30.21		
AREA FOR RIGHT-OF WAY	29,541	0.68		
RESTRICTION AREA	4,220	0.1		
TOTAL BUILDABLE AREA	1,282,124	29.43		
PART OF THE SE 1/4 OF THE NE 1/4 OF SECTION 34 (PARCEL D)				
	SQUARE FOOTAGE	ACRES		
TOTAL AREA	815,831	18.73		
POSSIBLE WETLANDS	58,559	1.34		
TOTAL BUILDABLE AREA	757,272	17.39		
SQUARE FOOTAGE ACRES				
OVERALL BUILDABLE AREA	4,658,857	106.95		

OF STANLEY, CHIPPEWA COUNTY, WISCONSIN,



NORTH 1/4 CORNER SECTION 34, T29N, R5W FOUND MAG NAIL (CORNER FIELD VERIFIED WITH TIE SHEET 2563)

> SOUTH 1/4 CORNER SECTION 34, T29N, R5W FOUND PK NAIL (CORNER FIELD VERIFIED WITH TIE SHEET 2673)

UTILITY INFORMATION

ENERGY.

(10/25/22). www.DiggersHotline.com

ALTA / NSPS LAND TITLE SURVEY

PARCEL A: THE NE 1/4 OF THE NE 1/4 OF SECTION 34, TOWNSHIP 29 NORTH, RANGE 5 WEST, CITY OF STANLEY, CHIPPEWA COUNTY, WISCONSIN. EXCEPT: CHIPPEWA COUNTY CERTIFIED SURVEY MAP NO. 5529 AS RECORDED IN VOLUME 27 OF CERTIFIED SURVEY MAPS ON PAGES 104-105 AS DOCUMENT NO. 928756, CITY OF STANLEY, CHIPPEWA COUNTY, WISCONSIN.

PARCEL B: THE NW 1/4 OF THE NE 1/4 OF SECTION 34, TOWNSHIP 29 NORTH, RANGE 5 WEST, CITY OF STANLEY, CHIPPEWA COUNTY, WISCONSIN. EXCEPT: THE NORTH 178 FEET OF THE EAST 323 FEET OF THE NW 1/4 OF THE NE 1/4 OF SECTION 34, TOWNSHIP 29 NORTH, RANGE 5 WEST, CITY

PARCEL C: THE SW 1/4 OF THE NE 1/4 OF SECTION 34, TOWNSHIP 29 NORTH, RANGE 5 WEST, CITY OF STANLEY, CHIPPEWA COUNTY, WISCONSIN. EXCEPT: THOSE PORTIONS USED FOR ROAD PURPOSES.

PARCEL D: THE SE 1/4 OF THE NE 1/4 OF SECTION 34, TOWNSHIP 29 NORTH, RANGE 5 WEST, CITY OF STANLEY, CHIPPEWA COUNTY, WISCONSIN. EXCEPT: THOSE PORTIONS USED FOR ROADWAY PURPOSES.

> EAST 1/4 CORNER SECTION 34, T29N, R5W FOUND BROKE-OFF ANOKA MONUMENT (CORNER FIELD VERIFIED WITH TIE SHEET 2603)

AREA SUMMARY

PART OF NE-NE 29.21 ACRES 1,272,294 SQ. FT. 28.62 ACRES EXC. R/W 1,246,562 SQ. FT. EXC R/W

PART OF NW-NE 37.10 ACRES 1,616,217 SQ. FT. 35.41 ACRES EXC. R/W 1,542,667 SQ. FT. EXC R/W

PART OF SW-NE 30.21 ACRES 1,315,885 SQ. FT. 29.53 ACRES EXC. R/W 1,286,344 SQ. FT. EXC R/W

PART OF SE-NE 30.73 ACRES 1,338,448 SQ. FT.

TOTAL AREA 127.25 ACRES 5,542,844 SQ. FT. 124.29 ACRES EXC. R/W 5,414,021 SQ.FT. EXC. R/W



SURVEYOR'S NOTES:

STH 29, ROAD RIGHT-OF-WAY BASED ON PLAT OF RIGHT-OF-WAY PROJECT F 020-1(32), DEC. 14, 1961. 345TH STREET AND WEST MAPLE STREET, ROAD RIGHT-OF WAY BASED ON MOS 4147B. APRIL 24,2002.

THE NATIONAL GEODETIC SURVEY (NGS) DELMAR C GPS, DL4366 WAS SURVEYED RESULTING IN A 0.03' HORIZONTAL AND 0.05' VERTICAL DIFFERENCE. THIS IS WITHIN THE MAXIMUM ALLOWABLE RELATIVE POSITION PRECISION FOR AN ALTA/NSPS LAND TITLE SURVEY OF 2 CM (0.07 FEET). SITE CONDITIONS AND TERRAIN WERE OPTIMAL FOR GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS) SURVEYING REFERENCING THE WISCONSIN CONTINUOUSLY OPERATING REFERENCE STATIONS (WISCORS).

THE 66' RIGHT-OF-WAY WIDTH FOR WEST MAPLE STREET AND 345TH STREET WAS ESTABLISHED PER WISCONSIN STATUTE 82.31 (2)(a).

PUBLIC LAND CORNER
FOUND 1 1/4" OD IRO
FOUND 3/4" REBAR
FOUND MAGNETIC NA
SET 3/4" X 18" IRON RI WEIGHING 1.502 LBS/
SET MAGNETIC NAIL
RECORDED AS
RIGHT OF WAY
ARREINFORCING BAR
LINEAR FOOT
DOCUMENT
VOLUME
PAGE
SECTION
NTOWNSHIP NORTH
/RANGE WEST
SQUARE FEET
POUNDS
POINT OF BEGINNING

SURVEYOR'S CERTIFICATE

TO CITY OF STANLEY, IT'S SUCCESSORS AND ASSIGNS AS FOLLOWS:

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2021 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS. THE FIELDWORK WAS COMPLETED ON 10/14/2022.

DATE OF PLAT OR MAP: 11/16/2022 Cert C. 1Sower

NEIL C. BOWE, PLS PROFESSIONAL LAND SURVEYOR NO. 2827 WITHIN THE STATE OF WISCONSIN

SURVEY PREPARED BY: CBS² INC. 770 TECHNOLOGY WAY CHIPPEWA FALLS, WI 54729 PHONE: 715.861.5226 FAX: 715.861.5228 NBOWE@CBSSQUAREDINC.COM



UTILITIES NOTIFIED: CITY OF STANLEY, CHARTER COMMUNICATIONS, WE ENERGIES, CHIPPEWA VALLEY ELECTRIC COOP, BRIGHTSPEED, AND XCEL

UTILITIES SHOWN ON THIS MAP ARE BASED ON LOCATES FROM: DIGGER'S HOTLINE TICKET NUMBER #20224206876 AND VISIBLE OBSERVATION ON

THIS SITE MAY CONTAIN BURIED UTILITIES NOT IDENTIFIED ON THIS MAP.

ALTA / NSPS LAND TITLE SURVEY

FOR CITY OF STANLEY

BASED ON TITLE COMMITMENT NO. 2182554 KNIGHT BARRY TITLE UNITED LLC COMMITMENT FOR TITLE INSURANCE COMMITMENT DATE: OCTOBER 27, 2022 AT 8:00 AM

ONE (1) BUILDING OBSERVED ON PROPERTY.

CHIPPEWA COUNTY PARCEL ID NO. 22905-3412-00020000A, 22905-3411-00020001, 22905-3413-00020000A, & 22905-3414-00020000A.

THE AERIAL PHOTOGRAPH WAS TAKEN IN 2021 AND IS SHOWN FOR INFORMATIONAL PURPOSES ONLY.



NER MONUMENT IRON PIPE

NAIL REBAR BS/LF

./////CORPORATE LIMITS _____1/16 LINE ------ ...PROPERTY LINE — — — …SETBACK LINE _____EASEMENT _____R/W LINE ...NO ACCESS ⊚MH ...MANHOLE ...WATER VALVE ⊘₩∨ ...INLET ... UTILITY PEDESTAL ...SIGN -...DRAIN \oplus ...ELECTRIC —— E —— — OH — ...OVERHEAD LINES _________WATER

_____ ... POSSIBLE WETLANDS



WAY 5472 770 TECHNOLOGY V HIPPEWA FALLS, WI PHONE: 715.861.5; PHC \mathbb{C} VE SUR M TITLE NLEY ALTA TA \square δ \checkmark DRAWN BY: CHECKED BY: SHEET

OF STANLEY, CHIPPEWA COUNTY, WISCONSIN. EXCEPT: THOSE PORTIONS USED FOR ROAD PURPOSES. EXCEPT: THOSE PORTIONS USED FOR ROADWAY PURPOSES.

ITEMS LISTED ON ALTA COMMITMENT NO. 2182554 CORRESPONDING TO SCHEDULE B, PART II

SUBJECT PROPERTY AS USED IN THE (SURVEYOR'S NOTATIONS) BELOW REFERS TO THE LANDS DESCRIBED WITHIN SAID ALTA COMMITMENT SCHEDULE A (3.) ON PAGE 1. UNDER SCHEDULE B, PART II, LISTED IN ADDITION TO THE STANDARD EXCEPTIONS, CIRCLED ITEMS HAVE BEEN PLOTTED ON THIS SURVEY.

1. Any defect, lien, encumbrance, adverse claim, or other matter that appears for the first time in the Public Records or is created, attaches, or is disclosed between the Commitment Date, as set forth on the Commitment for Title Insurance, and the Date of Policy, as set forth on the Policy. (NO OBSERVED FIELD EVIDENCE FOR PROPERTY)

2. Special assessments, special taxes or special charges, if any, payable with the taxes levied or to be levied for the current and subsequent years. (NOT PLOTTED)

3. Liens, hook-up charges or fees, deferred charges, reserve capacity assessments, impact fees, or other charges or fees and due payable on the development or improvement of the Land, whether assessed or charged before or after the Date of the Policy. (NO OBSERVED FIELD EVIDENCE FOR PROPERTY)

Any lien, or right to a lien, for services, labor, or 4. material heretofore or hereafter furnished, imposed by law and not shown by the Public Records. (NO OBSERVED FIELD EVIDENCE FOR PROPERTY)

Rights or claims of parties in possession not 5. shown by the Public Records. (NO OBSERVED FIELD EVIDENCE FOR PROPERTY)

6. Any encroachments, encumbrance, violation, variation, or adverse circumstance affecting Title that would be disclosed by an accurate and complete land survev of the Land. (NO OBSERVED FIELD EVIDENCE FOR PROPERTY)

7. Easements or claims of easements not shown by the Public Records. (NO OBSERVED FIELD EVIDENCE FOR PROPERTY)

Any claim of adverse possession or prescriptive easement. (NO OBSERVED FIELD EVIDENCE FOR PROPERTY)

Taxes and Special Assessments

9. General Taxes for the year 2022 and subsequent years, not yet due or payable. In the event that the transaction to be insured under this Commitment occurs in December of 2022 or later, then please contact the Company for an update as to the status of taxes. Failure to do so will result in the following appearing as an exception on the final title insurance policy to be issued pursuant to this Commitment: "General Taxes for the year 2022 and subsequent years." (NOT PLOTTED)

> Easements, restrictions, covenants and other encumbrances

Public or private rights, if any, in such portion of (10)the Land as may be presently used. laid out. or dedicated in any manner whatsoever, for street, highway and/or alley purposes.

Covenants, conditions, restrictions, easements and other matters contained in Indenture recorded on June 11, 1963 as Document No. 307235.

ALTA / NSPS LAND TITLE SURVEY

PARCEL A: THE NE 1/4 OF THE NE 1/4 OF SECTION 34, TOWNSHIP 29 NORTH, RANGE 5 WEST, CITY OF STANLEY, CHIPPEWA COUNTY, WISCONSIN. EXCEPT: CHIPPEWA COUNTY CERTIFIED SURVEY MAP NO. 5529 AS RECORDED IN VOLUME 27 OF CERTIFIED SURVEY MAPS ON PAGES 104-105 AS DOCUMENT NO. 928756, CITY OF STANLEY, CHIPPEWA COUNTY, WISCONSIN.

PARCEL B: THE NW 1/4 OF THE NE 1/4 OF SECTION 34, TOWNSHIP 29 NORTH, RANGE 5 WEST, CITY OF STANLEY, CHIPPEWA COUNTY, WISCONSIN. EXCEPT: THE NORTH 178 FEET OF THE EAST 323 FEET OF THE NW 1/4 OF THE NE 1/4 OF SECTION 34, TOWNSHIP 29 NORTH, RANGE 5 WEST, CITY

PARCEL C: THE SW 1/4 OF THE NE 1/4 OF SECTION 34, TOWNSHIP 29 NORTH, RANGE 5 WEST, CITY OF STANLEY, CHIPPEWA COUNTY, WISCONSIN.

PARCEL D: THE SE 1/4 OF THE NE 1/4 OF SECTION 34, TOWNSHIP 29 NORTH, RANGE 5 WEST, CITY OF STANLEY, CHIPPEWA COUNTY, WISCONSIN.

(12) Right of Way Grant and other matters contained in the instrument recorded December 19, 1969 as Document No.342959.

(13) Covenants, conditions, restrictions, easements and other matters contained in Quit Claim Conveyance and Assignment recorded on December 4, 1998 as Document No. 586239

(14) Covenants, conditions, restrictions, easements and other matters contained in Finding, Determination and Order recorded on May 29, 2007 as Document No. 737049.

(15) Covenants, conditions, restrictions, easements and other matters contained in Designated Freeway Map recorded on June 14, 2007 as Document No. 738221.

(16) Right of Way Easement and other matters contained in the instrument recorded March 1, 2022 as Document No. 929367.

(17). Right of Way Easement and other matters contained in the instrument recorded May 12, 2022 as Document No. 931774.

PARCEL A: THE NE 1/4 OF THE NE 1/4 OF SECTION 34, TOWNSHIP 29 NORTH, RANGE 5 WEST, CITY OF STANLEY, CHIPPEWA COUNTY, WISCONSIN. EXCEPT: CHIPPEWA COUNTY CERTIFIED SURVEY MAP NO. 5529 AS RECORDED IN VOLUME 27 OF CERTIFIED SURVEY MAPS ON PAGES 104-105 AS DOCUMENT NO. 928756, CITY OF STANLEY, CHIPPEWA COUNTY, WISCONSIN.

PARCEL B: THE NW 1/4 OF THE NE 1/4 OF SECTION 34, TOWNSHIP 29 NORTH, RANGE 5 WEST, CITY OF STANLEY, CHIPPEWA COUNTY, WISCONSIN. EXCEPT: THE NORTH 178 FEET OF THE EAST 323 FEET OF THE NW 1/4 OF THE NE 1/4 OF SECTION 34, TOWNSHIP 29 NORTH. RANGE 5 WEST, CITY OF STANLEY, CHIPPEWA COUNTY, WISCONSIN.

PARCEL C: THE SW 1/4 OF THE NE 1/4 OF SECTION 34, TOWNSHIP 29 NORTH, RANGE 5 WEST, CITY OF STANLEY, CHIPPEWA COUNTY, WISCONSIN. EXCEPT: THOSE PORTIONS USED FOR ROAD PURPOSES.

PARCEL D: THE SE 1/4 OF THE NE 1/4 OF SECTION 34, TOWNSHIP 29 NORTH, RANGE 5 WEST, CITY OF STANLEY, CHIPPEWA COUNTY, WISCONSIN. EXCEPT: THOSE PORTIONS USED FOR ROADWAY PURPOSES.

THE DESCRIPTION LISTED ABOVE DEFINES EXACTLY THE SAME PARCEL THAT HAS BEEN SURVEYED AND IS THE SAME PARCEL CONTAINED WITHIN THE LANDS DESCRIBED IN THE COMMITMENT FOR TITLE INSURANCE IDENTIFIED AS KNIGHT BARRY TITLE UNITED LLC. COMMITMENT NO. 2182554. HAVING AN COMMITMENT DATE OF OCTOBER 27, 2022 AT 8:00 AM.

SUBJECT PROPERTY IS LOCATED IN ZONE X PURSUANT TO NFIP (NATIONAL FLOOD INSURANCE PROGRAM) FIRM (FLOOD INSURANCE RATE MAP) FOR CHIPPEWA COUNTY, WISCONSIN, MAP NUMBER 55017C0655E EFFECTIVE MARCH 2, 2010.

ZONE X INDICATES AREAS DETERMINED TO BE OUTSIDE OF THE 100 YEAR FLOOD PLAIN AND A 0.2% ANNUAL CHANCE FLOOD PLAIN.

SURVEYOR'S CERTIFICATE

TO CITY OF STANLEY, IT'S SUCCESSORS AND ASSIGNS AS FOLLOWS:

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2021 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS. THE FIELDWORK WAS COMPLETED ON 10/14/2022.

DATE OF PLAT OR MAP: 11/16/2022

Vail C. Bower

NEIL C. BOWE, PLS PROFESSIONAL LAND SURVEYOR NO. 2827 WITHIN THE STATE OF WISCONSIN

SURVEY PREPARED BY: CBS² INC. 770 TECHNOLOGY WAY CHIPPEWA FALLS, WI 54729 PHONE: 715.861.5226 FAX: 715.861.5228 NBOWE@CBSSQUAREDINC.COM



Title Commitment No. 2182554

KNIGHT BARRY TITLE UNITED LLC COMMITMENT FOR TITLE INSURANCE COMMITMENT DATE: OCTOBER 27, 2022 AT 8:00 AM

LEGAL DESCRIPTION

FLOOD INFORMATION

ZONING INFORMATION

PARCEL IS ZONED I-1 INDUSTRIAL DISTRICT.

FOR ADDITIONAL INFORMATION ON I-1 ZONING SEE CHAPTER 13 - ZONING CODE, CITY OF STANLEY CODE OF ORDINANCES





OF STANLEY, CHIPPEWA COUNTY, WISCONSIN,



NORTH 1/4 CORNER SECTION 34, T29N, R5W FOUND MAG NAIL (CORNER FIELD VERIFIED WITH TIE SHEET 2563)

> SOUTH 1/4 CORNER SECTION 34, T29N, R5W FOUND PK NAIL (CORNER FIELD VERIFIED WITH TIE SHEET 2673)

UTILITY INFORMATION

ENERGY.

(10/25/22). www.DiggersHotline.com

ALTA / NSPS LAND TITLE SURVEY

PARCEL A: THE NE 1/4 OF THE NE 1/4 OF SECTION 34, TOWNSHIP 29 NORTH, RANGE 5 WEST, CITY OF STANLEY, CHIPPEWA COUNTY, WISCONSIN. EXCEPT: CHIPPEWA COUNTY CERTIFIED SURVEY MAP NO. 5529 AS RECORDED IN VOLUME 27 OF CERTIFIED SURVEY MAPS ON PAGES 104-105 AS DOCUMENT NO. 928756, CITY OF STANLEY, CHIPPEWA COUNTY, WISCONSIN.

PARCEL B: THE NW 1/4 OF THE NE 1/4 OF SECTION 34, TOWNSHIP 29 NORTH, RANGE 5 WEST, CITY OF STANLEY, CHIPPEWA COUNTY, WISCONSIN. EXCEPT: THE NORTH 178 FEET OF THE EAST 323 FEET OF THE NW 1/4 OF THE NE 1/4 OF SECTION 34, TOWNSHIP 29 NORTH, RANGE 5 WEST, CITY

PARCEL C: THE SW 1/4 OF THE NE 1/4 OF SECTION 34, TOWNSHIP 29 NORTH, RANGE 5 WEST, CITY OF STANLEY, CHIPPEWA COUNTY, WISCONSIN. EXCEPT: THOSE PORTIONS USED FOR ROAD PURPOSES.

PARCEL D: THE SE 1/4 OF THE NE 1/4 OF SECTION 34, TOWNSHIP 29 NORTH, RANGE 5 WEST, CITY OF STANLEY, CHIPPEWA COUNTY, WISCONSIN. EXCEPT: THOSE PORTIONS USED FOR ROADWAY PURPOSES.

> EAST 1/4 CORNER SECTION 34, T29N, R5W FOUND BROKE-OFF ANOKA MONUMENT (CORNER FIELD VERIFIED WITH TIE SHEET 2603)

AREA SUMMARY

PART OF NE-NE 29.21 ACRES 1,272,294 SQ. FT. 28.62 ACRES EXC. R/W 1,246,562 SQ. FT. EXC R/W

PART OF NW-NE 37.10 ACRES 1,616,217 SQ. FT. 35.41 ACRES EXC. R/W 1,542,667 SQ. FT. EXC R/W

PART OF SW-NE 30.21 ACRES 1,315,885 SQ. FT. 29.53 ACRES EXC. R/W 1,286,344 SQ. FT. EXC R/W

PART OF SE-NE 30.73 ACRES 1,338,448 SQ. FT.

TOTAL AREA 127.25 ACRES 5,542,844 SQ. FT. 124.29 ACRES EXC. R/W 5,414,021 SQ.FT. EXC. R/W



SURVEYOR'S NOTES:

STH 29, ROAD RIGHT-OF-WAY BASED ON PLAT OF RIGHT-OF-WAY PROJECT F 020-1(32), DEC. 14, 1961. 345TH STREET AND WEST MAPLE STREET, ROAD RIGHT-OF WAY BASED ON MOS 4147B. APRIL 24,2002.

THE NATIONAL GEODETIC SURVEY (NGS) DELMAR C GPS, DL4366 WAS SURVEYED RESULTING IN A 0.03' HORIZONTAL AND 0.05' VERTICAL DIFFERENCE. THIS IS WITHIN THE MAXIMUM ALLOWABLE RELATIVE POSITION PRECISION FOR AN ALTA/NSPS LAND TITLE SURVEY OF 2 CM (0.07 FEET). SITE CONDITIONS AND TERRAIN WERE OPTIMAL FOR GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS) SURVEYING REFERENCING THE WISCONSIN CONTINUOUSLY OPERATING REFERENCE STATIONS (WISCORS).

THE 66' RIGHT-OF-WAY WIDTH FOR WEST MAPLE STREET AND 345TH STREET WAS ESTABLISHED PER WISCONSIN STATUTE 82.31 (2)(a).

PUBLIC LAND CORNER
FOUND 1 1/4" OD IRO
FOUND 3/4" REBAR
FOUND MAGNETIC NA
SET 3/4" X 18" IRON RI WEIGHING 1.502 LBS/
SET MAGNETIC NAIL
RECORDED AS
RIGHT OF WAY
ARREINFORCING BAR
LINEAR FOOT
DOCUMENT
VOLUME
PAGE
SECTION
NTOWNSHIP NORTH
/RANGE WEST
SQUARE FEET
POUNDS
POINT OF BEGINNING

SURVEYOR'S CERTIFICATE

TO CITY OF STANLEY, IT'S SUCCESSORS AND ASSIGNS AS FOLLOWS:

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2021 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS. THE FIELDWORK WAS COMPLETED ON 10/14/2022.

DATE OF PLAT OR MAP: 11/16/2022 Cert C. 1Sower

NEIL C. BOWE, PLS PROFESSIONAL LAND SURVEYOR NO. 2827 WITHIN THE STATE OF WISCONSIN

SURVEY PREPARED BY: CBS² INC. 770 TECHNOLOGY WAY CHIPPEWA FALLS, WI 54729 PHONE: 715.861.5226 FAX: 715.861.5228 NBOWE@CBSSQUAREDINC.COM



UTILITIES NOTIFIED: CITY OF STANLEY, CHARTER COMMUNICATIONS, WE ENERGIES, CHIPPEWA VALLEY ELECTRIC COOP, BRIGHTSPEED, AND XCEL

UTILITIES SHOWN ON THIS MAP ARE BASED ON LOCATES FROM: DIGGER'S HOTLINE TICKET NUMBER #20224206876 AND VISIBLE OBSERVATION ON

THIS SITE MAY CONTAIN BURIED UTILITIES NOT IDENTIFIED ON THIS MAP.

ALTA / NSPS LAND TITLE SURVEY

FOR CITY OF STANLEY

BASED ON TITLE COMMITMENT NO. 2182554 KNIGHT BARRY TITLE UNITED LLC COMMITMENT FOR TITLE INSURANCE COMMITMENT DATE: OCTOBER 27, 2022 AT 8:00 AM

ONE (1) BUILDING OBSERVED ON PROPERTY.

CHIPPEWA COUNTY PARCEL ID NO. 22905-3412-00020000A, 22905-3411-00020001, 22905-3413-00020000A, & 22905-3414-00020000A.

THE AERIAL PHOTOGRAPH WAS TAKEN IN 2021 AND IS SHOWN FOR INFORMATIONAL PURPOSES ONLY.



NER MONUMENT IRON PIPE

NAIL REBAR BS/LF

./////CORPORATE LIMITS _____1/16 LINE ------ ...PROPERTY LINE — — — …SETBACK LINE _____EASEMENT _____R/W LINE ...NO ACCESS ⊚MH ...MANHOLE ...WATER VALVE ⊘₩∨ ...INLET ... UTILITY PEDESTAL ...SIGN -...DRAIN \oplus ...ELECTRIC —— E —— — OH — ...OVERHEAD LINES _________WATER

_____ ... POSSIBLE WETLANDS



WAY 5472 770 TECHNOLOGY V HIPPEWA FALLS, WI PHONE: 715.861.5; PHC \mathbb{C} VE SUR M TITLE NLEY ALTA TA \square δ \checkmark DRAWN BY: CHECKED BY: SHEET

OF STANLEY, CHIPPEWA COUNTY, WISCONSIN. EXCEPT: THOSE PORTIONS USED FOR ROAD PURPOSES. EXCEPT: THOSE PORTIONS USED FOR ROADWAY PURPOSES.

ITEMS LISTED ON ALTA COMMITMENT NO. 2182554 CORRESPONDING TO SCHEDULE B, PART II

SUBJECT PROPERTY AS USED IN THE (SURVEYOR'S NOTATIONS) BELOW REFERS TO THE LANDS DESCRIBED WITHIN SAID ALTA COMMITMENT SCHEDULE A (3.) ON PAGE 1. UNDER SCHEDULE B, PART II, LISTED IN ADDITION TO THE STANDARD EXCEPTIONS, CIRCLED ITEMS HAVE BEEN PLOTTED ON THIS SURVEY.

1. Any defect, lien, encumbrance, adverse claim, or other matter that appears for the first time in the Public Records or is created, attaches, or is disclosed between the Commitment Date, as set forth on the Commitment for Title Insurance, and the Date of Policy, as set forth on the Policy. (NO OBSERVED FIELD EVIDENCE FOR PROPERTY)

2. Special assessments, special taxes or special charges, if any, payable with the taxes levied or to be levied for the current and subsequent years. (NOT PLOTTED)

3. Liens, hook-up charges or fees, deferred charges, reserve capacity assessments, impact fees, or other charges or fees and due payable on the development or improvement of the Land, whether assessed or charged before or after the Date of the Policy. (NO OBSERVED FIELD EVIDENCE FOR PROPERTY)

Any lien, or right to a lien, for services, labor, or 4. material heretofore or hereafter furnished, imposed by law and not shown by the Public Records. (NO OBSERVED FIELD EVIDENCE FOR PROPERTY)

Rights or claims of parties in possession not 5. shown by the Public Records. (NO OBSERVED FIELD EVIDENCE FOR PROPERTY)

6. Any encroachments, encumbrance, violation, variation, or adverse circumstance affecting Title that would be disclosed by an accurate and complete land survev of the Land. (NO OBSERVED FIELD EVIDENCE FOR PROPERTY)

7. Easements or claims of easements not shown by the Public Records. (NO OBSERVED FIELD EVIDENCE FOR PROPERTY)

Any claim of adverse possession or prescriptive easement. (NO OBSERVED FIELD EVIDENCE FOR PROPERTY)

Taxes and Special Assessments

9. General Taxes for the year 2022 and subsequent years, not yet due or payable. In the event that the transaction to be insured under this Commitment occurs in December of 2022 or later, then please contact the Company for an update as to the status of taxes. Failure to do so will result in the following appearing as an exception on the final title insurance policy to be issued pursuant to this Commitment: "General Taxes for the year 2022 and subsequent years." (NOT PLOTTED)

> Easements, restrictions, covenants and other encumbrances

Public or private rights, if any, in such portion of (10)the Land as may be presently used. laid out. or dedicated in any manner whatsoever, for street, highway and/or alley purposes.

Covenants, conditions, restrictions, easements and other matters contained in Indenture recorded on June 11, 1963 as Document No. 307235.

ALTA / NSPS LAND TITLE SURVEY

PARCEL A: THE NE 1/4 OF THE NE 1/4 OF SECTION 34, TOWNSHIP 29 NORTH, RANGE 5 WEST, CITY OF STANLEY, CHIPPEWA COUNTY, WISCONSIN. EXCEPT: CHIPPEWA COUNTY CERTIFIED SURVEY MAP NO. 5529 AS RECORDED IN VOLUME 27 OF CERTIFIED SURVEY MAPS ON PAGES 104-105 AS DOCUMENT NO. 928756, CITY OF STANLEY, CHIPPEWA COUNTY, WISCONSIN.

PARCEL B: THE NW 1/4 OF THE NE 1/4 OF SECTION 34, TOWNSHIP 29 NORTH, RANGE 5 WEST, CITY OF STANLEY, CHIPPEWA COUNTY, WISCONSIN. EXCEPT: THE NORTH 178 FEET OF THE EAST 323 FEET OF THE NW 1/4 OF THE NE 1/4 OF SECTION 34, TOWNSHIP 29 NORTH, RANGE 5 WEST, CITY

PARCEL C: THE SW 1/4 OF THE NE 1/4 OF SECTION 34, TOWNSHIP 29 NORTH, RANGE 5 WEST, CITY OF STANLEY, CHIPPEWA COUNTY, WISCONSIN.

PARCEL D: THE SE 1/4 OF THE NE 1/4 OF SECTION 34, TOWNSHIP 29 NORTH, RANGE 5 WEST, CITY OF STANLEY, CHIPPEWA COUNTY, WISCONSIN.

(12) Right of Way Grant and other matters contained in the instrument recorded December 19, 1969 as Document No.342959.

(13) Covenants, conditions, restrictions, easements and other matters contained in Quit Claim Conveyance and Assignment recorded on December 4, 1998 as Document No. 586239

(14) Covenants, conditions, restrictions, easements and other matters contained in Finding, Determination and Order recorded on May 29, 2007 as Document No. 737049.

(15) Covenants, conditions, restrictions, easements and other matters contained in Designated Freeway Map recorded on June 14, 2007 as Document No. 738221.

(16) Right of Way Easement and other matters contained in the instrument recorded March 1, 2022 as Document No. 929367.

(17). Right of Way Easement and other matters contained in the instrument recorded May 12, 2022 as Document No. 931774.

PARCEL A: THE NE 1/4 OF THE NE 1/4 OF SECTION 34, TOWNSHIP 29 NORTH, RANGE 5 WEST, CITY OF STANLEY, CHIPPEWA COUNTY, WISCONSIN. EXCEPT: CHIPPEWA COUNTY CERTIFIED SURVEY MAP NO. 5529 AS RECORDED IN VOLUME 27 OF CERTIFIED SURVEY MAPS ON PAGES 104-105 AS DOCUMENT NO. 928756, CITY OF STANLEY, CHIPPEWA COUNTY, WISCONSIN.

PARCEL B: THE NW 1/4 OF THE NE 1/4 OF SECTION 34, TOWNSHIP 29 NORTH, RANGE 5 WEST, CITY OF STANLEY, CHIPPEWA COUNTY, WISCONSIN. EXCEPT: THE NORTH 178 FEET OF THE EAST 323 FEET OF THE NW 1/4 OF THE NE 1/4 OF SECTION 34, TOWNSHIP 29 NORTH. RANGE 5 WEST, CITY OF STANLEY, CHIPPEWA COUNTY, WISCONSIN.

PARCEL C: THE SW 1/4 OF THE NE 1/4 OF SECTION 34, TOWNSHIP 29 NORTH, RANGE 5 WEST, CITY OF STANLEY, CHIPPEWA COUNTY, WISCONSIN. EXCEPT: THOSE PORTIONS USED FOR ROAD PURPOSES.

PARCEL D: THE SE 1/4 OF THE NE 1/4 OF SECTION 34, TOWNSHIP 29 NORTH, RANGE 5 WEST, CITY OF STANLEY, CHIPPEWA COUNTY, WISCONSIN. EXCEPT: THOSE PORTIONS USED FOR ROADWAY PURPOSES.

THE DESCRIPTION LISTED ABOVE DEFINES EXACTLY THE SAME PARCEL THAT HAS BEEN SURVEYED AND IS THE SAME PARCEL CONTAINED WITHIN THE LANDS DESCRIBED IN THE COMMITMENT FOR TITLE INSURANCE IDENTIFIED AS KNIGHT BARRY TITLE UNITED LLC. COMMITMENT NO. 2182554. HAVING AN COMMITMENT DATE OF OCTOBER 27, 2022 AT 8:00 AM.

SUBJECT PROPERTY IS LOCATED IN ZONE X PURSUANT TO NFIP (NATIONAL FLOOD INSURANCE PROGRAM) FIRM (FLOOD INSURANCE RATE MAP) FOR CHIPPEWA COUNTY, WISCONSIN, MAP NUMBER 55017C0655E EFFECTIVE MARCH 2, 2010.

ZONE X INDICATES AREAS DETERMINED TO BE OUTSIDE OF THE 100 YEAR FLOOD PLAIN AND A 0.2% ANNUAL CHANCE FLOOD PLAIN.

SURVEYOR'S CERTIFICATE

TO CITY OF STANLEY, IT'S SUCCESSORS AND ASSIGNS AS FOLLOWS:

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2021 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS. THE FIELDWORK WAS COMPLETED ON 10/14/2022.

DATE OF PLAT OR MAP: 11/16/2022

Vail C. Bower

NEIL C. BOWE, PLS PROFESSIONAL LAND SURVEYOR NO. 2827 WITHIN THE STATE OF WISCONSIN

SURVEY PREPARED BY: CBS² INC. 770 TECHNOLOGY WAY CHIPPEWA FALLS, WI 54729 PHONE: 715.861.5226 FAX: 715.861.5228 NBOWE@CBSSQUAREDINC.COM



Title Commitment No. 2182554

KNIGHT BARRY TITLE UNITED LLC COMMITMENT FOR TITLE INSURANCE COMMITMENT DATE: OCTOBER 27, 2022 AT 8:00 AM

LEGAL DESCRIPTION

FLOOD INFORMATION

ZONING INFORMATION

PARCEL IS ZONED I-1 INDUSTRIAL DISTRICT.

FOR ADDITIONAL INFORMATION ON I-1 ZONING SEE CHAPTER 13 - ZONING CODE, CITY OF STANLEY CODE OF ORDINANCES





Public Protection Classification (PPC©) Summary Report

Stanley FPSA

WISCONSIN

Prepared by

Insurance Services Office, Inc. 1000 Bishops Gate Blvd., Ste. 300 P.O. Box 5404 Mt. Laurel, New Jersey 08054-5404 1-800-444-4554

Report Created July 2022 Effective November 1, 2022

PPC is a registered trademark of Insurance Services Office, Inc.

Background Information

Introduction

ISO collects and evaluates information from communities in the United States on their structure fire suppression capabilities. The data is analyzed using our Fire Suppression Rating Schedule (FSRS) and then a Public Protection Classification (PPC©) grade is assigned to the community. The surveys are conducted whenever it appears that there is a possibility of a PPC change. As such, the PPC program provides important, up-to-date information about fire protection services throughout the country.

The FSRS recognizes fire protection features only as they relate to suppression of first alarm structure fires. In many communities, fire suppression may be only a small part of the fire department's overall responsibility. ISO recognizes the dynamic and comprehensive duties of a community's fire service, and understands the complex decisions a community must make in planning and delivering emergency services. However, in developing a community's PPC grade, only features related to reducing property losses from structural fires are evaluated. Multiple alarms, simultaneous incidents and life safety are not considered in this evaluation. The PPC program evaluates the fire protection for small to average size buildings. Specific properties with a Needed Fire Flow in excess of 3,500 gpm are evaluated separately and assigned an individual PPC grade.

A community's investment in fire mitigation is a proven and reliable predictor of future fire losses. Statistical data on insurance losses bears out the relationship between excellent fire protection – as measured by the PPC program – and low fire losses. So, insurance companies use PPC information for marketing, underwriting, and to help establish fair premiums for homeowners and commercial fire insurance. In general, the price of fire insurance in a community with a good PPC grade is substantially lower than in a community with a poor PPC grade, assuming all other factors are equal.

ISO is an independent company that serves insurance companies, communities, fire departments, insurance regulators, and others by providing information about risk. ISO's expert staff collects information about municipal fire suppression efforts in communities throughout the United States. In each of those communities, ISO analyzes the relevant data and assigns a PPC grade – a number from 1 to 10. Class 1 represents an exemplary fire suppression program, and Class 10 indicates that the area's fire suppression program does not meet ISO's minimum criteria.

ISO's PPC program evaluates communities according to a uniform set of criteria, incorporating nationally recognized standards developed by the National Fire Protection Association and the American Water Works Association. A community's PPC grade depends on:

- Needed Fire Flows, which are representative building locations used to determine the theoretical amount of water necessary for fire suppression purposes.
- Emergency Communications, including emergency reporting, telecommunicators, and dispatching systems.
- Fire Department, including equipment, staffing, training, geographic distribution of fire companies, operational considerations, and community risk reduction.
- Water Supply, including inspection and flow testing of hydrants, alternative water supply operations, and a careful evaluation of the amount of available water compared with the amount needed to suppress fires up to 3,500 gpm.

Data Collection and Analysis

ISO has evaluated and classified over 39,000 fire protection areas across the United States using its FSRS. A combination of meetings between trained ISO field representatives and the dispatch center coordinator, community fire official, and water superintendent is used in conjunction with a comprehensive questionnaire to collect the data necessary to determine the PPC grade. In order for a community to obtain a grade better than a Class 9, three elements of fire suppression features are reviewed. These three elements are Emergency Communications, Fire Department, and Water Supply.

A review of the **Emergency Communications** accounts for 10% of the total classification. This section is weighted at **10 points**, as follows:

•	Emergency Reporting	3 points
•	Telecommunicators	4 points

Dispatch Circuits 3 points

A review of the **Fire Department** accounts for 50% of the total classification. ISO focuses on a fire department's first alarm response and initial attack to minimize potential loss. The fire department section is weighted at **50 points**, as follows:

Engine Companies	6 points
Reserve Pumpers	0.5 points
Pump Capacity	3 points
Ladder/Service Companies	4 points
Reserve Ladder/Service Trucks	0.5 points
Deployment Analysis	10 points
Company Personnel	15 points
Training	9 points
Operational considerations	2 points
Community Risk Reduction	5.5 points (in addition to the 50 points above)

A review of the **Water Supply** system accounts for 40% of the total classification. ISO reviews the water supply a community uses to determine the adequacy for fire suppression purposes. The water supply system is weighted at **40 points**, as follows:

- Credit for Supply System 30 points
- Hydrant Size, Type & Installation 3 points
- Inspection & Flow Testing of Hydrants 7 points

There is one additional factor considered in calculating the final score – **Divergence**.

Even the best fire department will be less than fully effective if it has an inadequate water supply. Similarly, even a superior water supply will be less than fully effective if the fire department lacks the equipment or personnel to use the water. The FSRS score is subject to modification by a divergence factor, which recognizes disparity between the effectiveness of the fire department and the water supply.

The Divergence factor mathematically reduces the score based upon the relative difference between the fire department and water supply scores. The factor is introduced in the final equation.

PPC Grade

The PPC grade assigned to the community will depend on the community's score on a 100-point scale:

PPC	Points		
1	90.00 or more		
2	80.00 to 89.99		
3	70.00 to 79.99		
4	60.00 to 69.99		
5	50.00 to 59.99		
6	40.00 to 49.99		
7	30.00 to 39.99		
8	20.00 to 29.99		
9	10.00 to 19.99		
10	0.00 to 9.99		

The classification numbers are interpreted as follows:

- Class 1 through (and including) Class 8 represents a fire suppression system that includes an FSRS creditable dispatch center, fire department, and water supply.
- Class 8B is a special classification that recognizes a superior level of fire protection in otherwise Class 9 areas. It is designed to represent a fire protection delivery system that is superior except for a lack of a water supply system capable of the minimum FSRS fire flow criteria of 250 gpm for 2 hours.
- Class 9 is a fire suppression system that includes a creditable dispatch center, fire department but no FSRS creditable water supply.
- Class 10 does not meet minimum FSRS criteria for recognition, including areas that are beyond five road miles of a recognized fire station.

New PPC program changes effective July 1, 2014

We have revised the PPC program to capture the effects of enhanced fire protection capabilities that reduce fire loss and fire severity in Split Class 9 and Split Class 8B areas (as outlined below). This new structure benefits the fire service, community, and property owner.

New classifications

Through ongoing research and loss experience analysis, we identified additional differentiation in fire loss experience within our PPC program, which resulted in the revised classifications. We based the differing fire loss experience on the fire suppression capabilities of each community. The new PPC classes will improve the predictive value for insurers while benefiting both commercial and residential property owners. Here are the new classifications and what they mean.

Split classifications

When we develop a split classification for a community — for example 5/9 — the first number is the class that applies to properties within 5 road miles of the responding fire station and 1,000 feet of a creditable water supply, such as a fire hydrant, suction point, or dry hydrant. The second number is the class that applies to properties within 5 road miles of a fire station but beyond 1,000 feet of a creditable water supply. We have revised the classification to reflect more precisely the risk of loss in a community, replacing Class 9 and 8B in the second part of a split classification with revised designations.

What's changed with the new classifications?

We've published the new classifications as "X" and "Y" — formerly the "9" and "8B" portion of the split classification, respectively. For example:

- A community currently displayed as a split 6/9 classification will now be a split 6/6X classification; with the "6X" denoting what was formerly classified as "9".
- Similarly, a community currently graded as a split 6/8B classification will now be a split 6/6Y classification, the "6Y" denoting what was formerly classified as "8B".
- Communities graded with single "9" or "8B" classifications will remain intact.

Prior	New	
Classification	Classification	
1/9	1/1X	
2/9	2/2X	
3/9	3/3X	
4/9	4/4X	
5/9	5/5X	
6/9	6/6X	
7/9 <mark>7/7</mark> X		
8/9 <mark>8/8X</mark>		
9	9	

Prior	New
Classification	Classification
1/8B	1/1Y
2/8B	2/2Y
3/8B	3/3Y
4/ 8B	4/4Y
5/8B	5/5Y
6/8B	6/6Y
7/8B	7/7Y
8/8B	8/8Y
8B	8B

What's changed?

As you can see, we're still maintaining split classes, but it's how we represent them to insurers that's changed. The new designations reflect a reduction in fire severity and loss and have the potential to reduce property insurance premiums.

Benefits of the revised split class designations

- To the fire service, the revised designations identify enhanced fire suppression capabilities used throughout the fire protection area
- To the community, the new classes reward a community's fire suppression efforts by showing a more reflective designation
- To the individual property owner, the revisions offer the potential for decreased property insurance premiums

New water class

Our data also shows that risks located more than 5 but less than 7 road miles from a responding fire station with a creditable water source within 1,000 feet had better loss experience than those farther than 5 road miles from a responding fire station with no creditable water source. We've introduced a new classification —10W — to recognize the reduced loss potential of such properties.

What's changed with Class 10W?

Class 10W is property-specific. Not all properties in the 5-to-7-mile area around the responding fire station will qualify. The difference between Class 10 and 10W is that the 10W-graded risk or property is within 1,000 feet of a creditable water supply. Creditable water supplies include fire protection systems using hauled water in any of the split classification areas.

What's the benefit of Class 10W?

10W gives credit to risks within 5 to 7 road miles of the responding fire station and within 1,000 feet of a creditable water supply. That's reflective of the potential for reduced property insurance premiums.

What does the fire chief have to do?

Fire chiefs don't have to do anything at all. The revised classifications went in place automatically effective July 1, 2014 (July 1, 2015 for Texas).

What if I have additional questions?

Feel free to contact ISO at 800.444.4554 or email us at PPC-Cust-Serv@iso.com.

Distribution of PPC Grades

The 2020 published countrywide distribution of communities by the PPC grade is as follows:



Assistance

The PPC program offers help to communities, fire departments, and other public officials as they plan for, budget, and justify improvements. ISO is also available to assist in the understanding of the details of this evaluation.

The PPC program representatives can be reached by telephone at (800) 444-4554. The technical specialists at this telephone number have access to the details of this evaluation and can effectively speak with you about your questions regarding the PPC program. What's more, we can be reached via the internet at <u>www.isomitigation.com/talk/</u>.

We also have a website dedicated to our Community Hazard Mitigation Classification programs at <u>www.isomitigation.com</u>. Here, fire chiefs, building code officials, community leaders and other interested citizens can access a wealth of data describing the criteria used in evaluating how cities and towns are protecting residents from fire and other natural hazards. This website will allow you to learn more about the PPC program. The website provides important background information, insights about the PPC grading processes and technical documents. ISO is also pleased to offer Fire Chiefs Online — a special, secured website with information and features that can help improve your PPC grade, including a list of the Needed Fire Flows for all the commercial occupancies ISO has on file for your community. Visitors to the site can download information, see statistical results and also contact ISO for assistance.

In addition, on-line access to the FSRS and its commentaries is available to registered customers for a fee. However, fire chiefs and community chief administrative officials are given access privileges to this information without charge.

To become a registered fire chief or community chief administrative official, register at <u>www.isomitigation.com</u>.

PPC Review

ISO concluded its review of the fire suppression features being provided for Stanley FPSA. The resulting community classification is **Class 04**.

If the classification is a single class, the classification applies to properties with a Needed Fire Flow of 3,500 gpm or less in the community. If the classification is a split class (e.g., 6/XX):

- The first class (e.g., "6" in a 6/XX) applies to properties within 5 road miles of a recognized fire station and within 1,000 feet of a fire hydrant or alternate water supply.
- The second class (XX or XY) applies to properties beyond 1,000 feet of a fire hydrant but within 5 road miles of a recognized fire station.
- Alternative Water Supply: The first class (e.g., "6" in a 6/10) applies to properties within 5 road miles of a recognized fire station with no hydrant distance requirement.
- Class 10 applies to properties over 5 road miles of a recognized fire station.
- Class 10W applies to properties within 5 to 7 road miles of a recognized fire station with a recognized water supply within 1,000 feet.
- Specific properties with a Needed Fire Flow in excess of 3,500 gpm are evaluated separately and assigned an individual classification.

FSRS Feature	Earned Credit	Credit Available
Emergency Communications 414. Credit for Emergency Reporting 422. Credit for Telecommunicators 432. Credit for Dispatch Circuits	3.00 2.02 2.85	3 4 3
440. Credit for Emergency Communications	7.87	10
Fire Department 513. Credit for Engine Companies 523. Credit for Reserve Pumpers 532. Credit for Pump Capacity 549. Credit for Ladder Service 553. Credit for Reserve Ladder and Service Trucks 561. Credit for Deployment Analysis 571. Credit for Deployment Analysis 571. Credit for Company Personnel 581. Credit for Training 730. Credit for Operational Considerations 590. Credit for Fire Department	3.60 0.46 3.00 2.31 0.00 9.13 3.01 1.60 2.00 25.11	6 0.50 3 4 0.50 10 15 9 2 50
Water Supply 616. Credit for Supply System 621. Credit for Hydrants 631. Credit for Inspection and Flow Testing 640. Credit for Water Supply Divergence 1050. Community Risk Reduction	29.41 3.00 3.20 35.61 -7.76 3.27	30 3 7 40 5.50
Total Credit	64.10	105.50

PPC is a registered trademark of Insurance Services Office, Inc. $P_{\text{PPC}} = 7$

Emergency Communications

Ten percent of a community's overall score is based on how well the communications center receives and dispatches fire alarms. Our field representative evaluated:

- Communications facilities provided for the general public to report structure fires
- Enhanced 9-1-1 Telephone Service including wireless
- · Computer-aided dispatch (CAD) facilities
- Alarm receipt and processing at the communication center
- Training and certification of telecommunicators
- Facilities used to dispatch fire department companies to reported structure fires

	Earned Credit	Credit Available
414. Credit Emergency Reporting	3.00	3
422. Credit for Telecommunicators	2.02	4
432. Credit for Dispatch Circuits	2.85	3
Item 440. Credit for Emergency Communications:	7.87	10

Item 414 - Credit for Emergency Reporting (3 points)

The first item reviewed is Item 414 "Credit for Emergency Reporting (CER)". This item reviews the emergency communication center facilities provided for the public to report fires including 911 systems (Basic or Enhanced), Wireless Phase I and Phase II, Voice over Internet Protocol, Computer Aided Dispatch and Geographic Information Systems for automatic vehicle location. ISO uses National Fire Protection Association (NFPA) 1221, *Standard for the Installation, Maintenance and Use of Emergency Services Communications Systems* as the reference for this section.

Item 410. Emergency Reporting (CER)	Earned Credit	Credit Available
A./B. Basic 9-1-1, Enhanced 9-1-1 or No 9-1-1	20.00	20
For maximum credit, there should be an Enhanced 9-1-1 system, Basic 9-1-1 and No 9-1-1 will receive partial credit.		
1. E9-1-1 Wireless	25.00	25
Wireless Phase I using Static ALI (automatic location identification) Functionality (10 points); Wireless Phase II using Dynamic ALI Functionality (15 points); Both available will be 25 points		
2. E9-1-1 Voice over Internet Protocol (VoIP)	25.00	25
Static VoIP using Static ALI Functionality (10 points); Nomadic VoIP using Dynamic ALI Functionality (15 points); Both available will be 25 points		
3. Computer Aided Dispatch	15.00	15
Basic CAD (5 points); CAD with Management Information System (5 points); CAD with Interoperability (5 points)		
4. Geographic Information System (GIS/AVL)	15.00	15
<u>The PSAP uses</u> a fully integrated CAD/GIS management system with automatic vehicle location (AVL) integrated with a CAD system providing dispatch assignments.		
The individual fire departments being dispatched <u>do</u> <u>not</u> need GIS/AVL capability to obtain this credit.		
Review of Emergency Reporting total:	100.00	100

Item 422- Credit for Telecommunicators (4 points)

The second item reviewed is Item 422 "Credit for Telecommunicators (TC)". This item reviews the number of Telecommunicators on duty at the center to handle fire calls and other emergencies. All emergency calls including those calls that do not require fire department action are reviewed to determine the proper staffing to answer emergency calls and dispatch the appropriate emergency response. The 2013 Edition of NFPA 1221, *Standard for the Installation, Maintenance and Use of Emergency Services Communications Systems,* recommends that ninety-five percent of emergency calls shall be answered within 15 seconds and ninety-nine percent of emergency alarm processing shall be completed within 60 seconds and ninety-five percent of alarm processing shall be completed within 106 seconds of answering the call.
To receive full credit for operators on duty, ISO must review documentation to show that the communication center meets NFPA 1221 call answering and dispatch time performance measurement standards. This documentation may be in the form of performance statistics or other performance measurements compiled by the 9-1-1 software or other software programs that are currently in use such as Computer Aided Dispatch (CAD) or Management Information System (MIS).

Item 420. Telecommunicators (CTC)	Earned Credit	Credit Available
A1. Alarm Receipt (AR)	19.99	20
Receipt of alarms shall meet the requirements in accordance with the criteria of NFPA 1221		
A2. Alarm Processing (AP)	0.00	20
Processing of alarms shall meet the requirements in accordance with the criteria of NFPA 1221		
B. Emergency Dispatch Protocols (EDP)	0.00	20
Telecommunicators have emergency dispatch protocols (EDP) containing questions and a decision- support process to facilitate correct call categorization and prioritization.		
C. Telecommunicator Training and Certification (TTC)	20.00	20
Telecommunicators meet the qualification requirements referenced in NFPA 1061, <i>Standard for</i> <i>Professional Qualifications for Public Safety</i> <i>Telecommunicator,</i> and/or the Association of Public- Safety Communications Officials - International (APCO) <i>Project 33.</i> Telecommunicators are certified in the knowledge, skills, and abilities corresponding to their job functions.		
D. Telecommunicator Continuing Education and Quality Assurance (TQA)	10.53	20
Telecommunicators participate in continuing education and/or in-service training and quality-assurance programs as appropriate for their positions		
Review of Telecommunicators total:	50.52	100

Item 432 - Credit for Dispatch Circuits (3 points)

The third item reviewed is Item 432 "Credit for Dispatch Circuits (CDC)". This item reviews the dispatch circuit facilities used to transmit alarms to fire department members. A "Dispatch Circuit" is defined in NFPA 1221 as "A circuit over which an alarm is transmitted from the communications center to an emergency response facility (ERF) or emergency response units (ERUs) to notify ERUs to respond to an emergency". All fire departments (except single fire station departments with full-time firefighter personnel receiving alarms directly at the fire station) need adequate means of notifying all firefighter personnel of the location of reported structure fires. The dispatch circuit facilities should be in accordance with the general criteria of NFPA 1221. "Alarms" are defined in this Standard as "A signal or message from a person or device indicating the existence of an emergency or other situation that requires action by an emergency response agency".

There are two different levels of dispatch circuit facilities provided for in the Standard – a primary dispatch circuit and a secondary dispatch circuit. In jurisdictions that receive 730 alarms or more per year (average of two alarms per 24-hour period), two separate and dedicated dispatch circuits, a primary and a secondary, are needed. In jurisdictions receiving fewer than 730 alarms per year, a second dedicated dispatch circuit is not needed. Dispatch circuit facilities installed but not used or tested (in accordance with the NFPA Standard) receive no credit.

The score for Credit for Dispatch Circuits (CDC) is influenced by monitoring for integrity of the primary dispatch circuit. There are up to 0.90 points available for this Item. Monitoring for integrity involves installing automatic systems that will detect faults and failures and send visual and audible indications to appropriate communications center (or dispatch center) personnel. ISO uses NFPA 1221 to guide the evaluation of this item. ISO's evaluation also includes a review of the communication system's emergency power supplies.

Item 432 "Credit for Dispatch Circuits (CDC)" = 2.85 points

Fire Department

Fifty percent of a community's overall score is based upon the fire department's structure fire suppression system. ISO's field representative evaluated:

- · Engine and ladder/service vehicles including reserve apparatus
- Equipment carried
- Response to reported structure fires
- Deployment analysis of companies
- Available and/or responding firefighters
- Training

	Earned Credit	Credit Available
513. Credit for Engine Companies	3.60	6
523. Credit for Reserve Pumpers	0.46	0.5
532. Credit for Pumper Capacity	3.00	3
549. Credit for Ladder Service	2.31	4
553. Credit for Reserve Ladder and Service Trucks	0.00	0.5
561. Credit for Deployment Analysis	9.13	10
571. Credit for Company Personnel	3.01	15
581. Credit for Training	1.60	9
730. Credit for Operational Considerations	2.00	2
Item 590. Credit for Fire Department:	25.11	50

Basic Fire Flow

The Basic Fire Flow for the community is determined by the review of the Needed Fire Flows for selected buildings in the community. The fifth largest Needed Fire Flow is determined to be the Basic Fire Flow. The Basic Fire Flow has been determined to be 3500 gpm.

Item 513 - Credit for Engine Companies (6 points)

The first item reviewed is Item 513 "Credit for Engine Companies (CEC)". This item reviews the number of engine companies, their pump capacity, hose testing, pump testing and the equipment carried on the in-service pumpers. To be recognized, pumper apparatus must meet the general criteria of NFPA 1901, *Standard for Automotive Fire Apparatus* which include a minimum 250 gpm pump, an emergency warning system, a 300 gallon water tank, and hose. At least 1 apparatus must have a permanently mounted pump rated at 750 gpm or more at 150 psi.

The review of the number of needed pumpers considers the response distance to built-upon areas; the Basic Fire Flow; and the method of operation. Multiple alarms, simultaneous incidents, and life safety are not considered.

The greatest value of A, B, or C below is needed in the fire district to suppress fires in structures with a Needed Fire Flow of 3,500 gpm or less: **3 engine companies**

- a) **1 engine companies** to provide fire suppression services to areas to meet NFPA 1710 criteria or within 1½ miles.
- b) **3 engine companies** to support a Basic Fire Flow of 3500 gpm.
- c) **3 engine companies** based upon the fire department's method of operation to provide a minimum two engine response to all first alarm structure fires.

The FSRS recognizes that there are **2 engine companies** in service.

The FSRS also reviews Automatic Aid. Automatic Aid is considered in the review as assistance dispatched automatically by contractual agreement between two communities or fire districts. That differs from mutual aid or assistance arranged case by case. ISO will recognize an Automatic Aid plan under the following conditions:

- It must be prearranged for first alarm response according to a definite plan. It is preferable to have a written agreement, but ISO may recognize demonstrated performance.
- The aid must be dispatched to all reported structure fires on the initial alarm.
- The aid must be provided 24 hours a day, 365 days a year.

FSRS Item 512.D "Automatic Aid Engine Companies" responding on first alarm and meeting the needs of the city for basic fire flow and/or distribution of companies are factored based upon the value of the Automatic Aid plan (up to 1.00 can be used as the factor). The Automatic Aid factor is determined by a review of the Automatic Aid provider's communication facilities, how they receive alarms from the graded area, inter-department training between fire departments, and the fire ground communications capability between departments.

For each engine company, the credited Pump Capacity (PC), the Hose Carried (HC), the Equipment Carried (EC) all contribute to the calculation for the percent of credit the FSRS provides to that engine company.

Item 513 "Credit for Engine Companies (CEC)" = 3.60 points

PPC is a registered trademark of Insurance Services Office, Inc. Page 13

Item 523 - Credit for Reserve Pumpers (0.50 points)

The item is Item 523 "Credit for Reserve Pumpers (CRP)". This item reviews the number and adequacy of the pumpers and their equipment. The number of needed reserve pumpers is 1 for each 8 needed engine companies determined in Item 513, or any fraction thereof.

Item 523 "Credit for Reserve Pumpers (CRP)" = 0.46 points

Item 532 – Credit for Pumper Capacity (3 points)

The next item reviewed is Item 532 "Credit for Pumper Capacity (CPC)". The total pump capacity available should be sufficient for the Basic Fire Flow of 3500 gpm. The maximum needed pump capacity credited is the Basic Fire Flow of the community.

Item 532 "Credit for Pumper Capacity (CPC)" = 3.00 points

Item 549 – Credit for Ladder Service (4 points)

The next item reviewed is Item 549 "Credit for Ladder Service (CLS)". This item reviews the number of response areas within the city with 5 buildings that are 3 or more stories or 35 feet or more in height, or with 5 buildings that have a Needed Fire Flow greater than 3,500 gpm, or any combination of these criteria. The height of all buildings in the city, including those protected by automatic sprinklers, is considered when determining the number of needed ladder companies. Response areas not needing a ladder company should have a service company. Ladders, tools and equipment normally carried on ladder trucks are needed not only for ladder operations but also for forcible entry, ventilation, salvage, overhaul, lighting and utility control.

The number of ladder or service companies, the height of the aerial ladder, aerial ladder testing and the equipment carried on the in-service ladder trucks and service trucks is compared with the number of needed ladder trucks and service trucks and an FSRS equipment list. Ladder trucks must meet the general criteria of NFPA 1901, *Standard for Automotive Fire Apparatus* to be recognized.

The number of needed ladder-service trucks is dependent upon the number of buildings 3 stories or 35 feet or more in height, buildings with a Needed Fire Flow greater than 3,500 gpm, and the method of operation.

The FSRS recognizes that there are **1 ladder companies** in service. These companies are needed to provide fire suppression services to areas to meet NFPA 1710 criteria or within $2\frac{1}{2}$ miles and the number of buildings with a Needed Fire Flow over 3,500 gpm or 3 stories or more in height, or the method of operation.

The FSRS recognizes that there are **0 service companies** in service.

Item 549 "Credit for Ladder Service (CLS)" = 2.31 points

Item 553 – Credit for Reserve Ladder and Service Trucks (0.50 points)

The next item reviewed is Item 553 "Credit for Reserve Ladder and Service Trucks (CRLS)". This item considers the adequacy of ladder and service apparatus when one (or more in larger communities) of these apparatus are out of service. The number of needed reserve ladder and service trucks is 1 for each 8 needed ladder and service companies that were determined to be needed in Item 540, or any fraction thereof.

Item 553 "Credit for Reserve Ladder and Service Trucks (CRLS)" = 0.00 points

Item 561 – Deployment Analysis (10 points)

Next, Item 561 "Deployment Analysis (DA)" is reviewed. This Item examines the number and adequacy of existing engine and ladder-service companies to cover built-upon areas of the city.

To determine the Credit for Distribution, first the Existing Engine Company (EC) points and the Existing Engine Companies (EE) determined in Item 513 are considered along with Ladder Company Equipment (LCE) points, Service Company Equipment (SCE) points, Engine-Ladder Company Equipment (ELCE) points, and Engine-Service Company Equipment (ESCE) points determined in Item 549.

Secondly, as an alternative to determining the number of needed engine and ladder/service companies through the road-mile analysis, a fire protection area may use the results of a systematic performance evaluation. This type of evaluation analyzes computer-aided dispatch (CAD) history to demonstrate that, with its current deployment of companies, the fire department meets the time constraints for initial arriving engine and initial full alarm assignment in accordance with the general criteria of in NFPA 1710, *Standard for the Organization and Deployment of Fire Suppression Operations, Emergency Medical Operations, and Special Operations to the Public by Career Fire Departments.*

A determination is made of the percentage of built upon area within 1½ miles of a first-due engine company and within 2½ miles of a first-due ladder-service company.

Item 561 "Credit Deployment Analysis (DA)" = 9.13 points

Item 571 – Credit for Company Personnel (15 points)

Item 571 "Credit for Company Personnel (CCP)" reviews the average number of existing firefighters and company officers available to respond to reported first alarm structure fires in the city.

The on-duty strength is determined by the yearly average of total firefighters and company officers on-duty considering vacations, sick leave, holidays, "Kelley" days and other absences. When a fire department operates under a minimum staffing policy, this may be used in lieu of determining the yearly average of on-duty company personnel.

Firefighters on apparatus not credited under Items 513 and 549 that regularly respond to reported first alarms to aid engine, ladder, and service companies are included in this item as increasing the total company strength.

Firefighters staffing ambulances or other units serving the general public are credited if they participate in fire-fighting operations, the number depending upon the extent to which they are available and are used for response to first alarms of fire.

On-Call members are credited on the basis of the average number staffing apparatus on first alarms. Off-shift career firefighters and company officers responding on first alarms are considered on the same basis as on-call personnel. For personnel not normally at the fire station, the number of responding firefighters and company officers is divided by 3 to reflect the time needed to assemble at the fire scene and the reduced ability to act as a team due to the various arrival times at the fire location when compared to the personnel on-duty at the fire station during the receipt of an alarm.

The number of Public Safety Officers who are positioned in emergency vehicles within the jurisdiction boundaries may be credited based on availability to respond to first alarm structure fires. In recognition of this increased response capability the number of responding Public Safety Officers is divided by 2.

The average number of firefighters and company officers responding with those companies credited as Automatic Aid under Items 513 and 549 are considered for either on-duty or on-call company personnel as is appropriate. The actual number is calculated as the average number of company personnel responding multiplied by the value of AA Plan determined in Item 512.D.

The maximum creditable response of on-duty and on-call firefighters is 12, including company officers, for each existing engine and ladder company and 6 for each existing service company.

Chief Officers are not creditable except when more than one chief officer responds to alarms; then extra chief officers may be credited as firefighters if they perform company duties.

The FSRS recognizes **0.00 on-duty personnel** and an average of **10.85 on-call personnel** responding on first alarm structure fires.

Item 571 "Credit for Company Personnel (CCP)" = 3.01 points

Item 581 – Credit for Training (9 points)

Training	Earned Credit	Credit Available
A. Facilities, and Use	0.00	35
For maximum credit, each firefighter should receive 18 hours per year in structure fire related subjects as outlined in NFPA 1001.		
B. Company Training	1.94	25
For maximum credit, each firefighter should receive 16 hours per month in structure fire related subjects as outlined in NFPA 1001.		
C. Classes for Officers	9.20	12
For maximum credit, each officer should be certified in accordance with the general criteria of NFPA 1021. Additionally, each officer should receive 12 hours of continuing education on or off site.		
D. New Driver and Operator Training	2.50	5
For maximum credit, each new driver and operator should receive 60 hours of driver/operator training per year in accordance with NFPA 1002 and NFPA 1451.		
E. Existing Driver and Operator Training	2.10	5
For maximum credit, each existing driver and operator should receive 12 hours of driver/operator training per year in accordance with NFPA 1002 and NFPA 1451.		
F. Training on Hazardous Materials	0.21	1
For maximum credit, each firefighter should receive 6 hours of training for incidents involving hazardous materials in accordance with NFPA 472.		
G. Recruit Training	1.25	5
For maximum credit, each firefighter should receive 240 hours of structure fire related training in accordance with NFPA 1001 within the first year of employment or tenure.		
H. Pre-Fire Planning Inspections	0.60	12
For maximum credit, pre-fire planning inspections of each commercial, industrial, institutional, and other similar type building (all buildings except 1-4 family dwellings) should be made annually by company members. Records of inspections should include up-to date notes and sketches.		

Item 580 "Credit for Training (CT)" = 1.60 points

Item 730 – Operational Considerations (2 points)

Item 730 "Credit for Operational Considerations (COC)" evaluates fire department standard operating procedures and incident management systems for emergency operations involving structure fires.

Operational Considerations	Earned Credit	Credit Available
Standard Operating Procedures	50	50
The department should have established SOPs for fire department general emergency operations		
Incident Management Systems	50	50
The department should use an established incident management system (IMS)		
Operational Considerations total:	100	100

Item 730 "Credit for Operational Considerations (COC)" = 2.00 points

Water Supply

Forty percent of a community's overall score is based on the adequacy of the water supply system. The ISO field representative evaluated:

- the capability of the water distribution system to meet the Needed Fire Flows at selected locations up to 3,500 gpm.
- size, type and installation of fire hydrants.
- inspection and flow testing of fire hydrants.

	Earned Credit	Credit Available
616. Credit for Supply System	29.41	30
621. Credit for Hydrants	3.00	3
631. Credit for Inspection and Flow Testing	3.20	7
Item 640. Credit for Water Supply:	35.61	40

Item 616 – Credit for Supply System (30 points)

The first item reviewed is Item 616 "Credit for Supply System (CSS)". This item reviews the rate of flow that can be credited at each of the Needed Fire Flow test locations considering the supply works capacity, the main capacity and the hydrant distribution. The lowest flow rate of these items is credited for each representative location. A water system capable of delivering 250 gpm or more for a period of two hours plus consumption at the maximum daily rate at the fire location is considered minimum in the ISO review.

Where there are 2 or more systems or services distributing water at the same location, credit is given on the basis of the joint protection provided by all systems and services available.

The supply works capacity is calculated for each representative Needed Fire Flow test location, considering a variety of water supply sources. These include public water supplies, emergency supplies (usually accessed from neighboring water systems), suction supplies (usually evidenced by dry hydrant installations near a river, lake or other body of water), and supplies developed by a fire department using large diameter hose or vehicles to shuttle water from a source of supply to a fire site. The result is expressed in gallons per minute (gpm).

The normal ability of the distribution system to deliver Needed Fire Flows at the selected building locations is reviewed. The results of a flow test at a representative test location will indicate the ability of the water mains (or fire department in the case of fire department supplies) to carry water to that location.

The hydrant distribution is reviewed within 1,000 feet of representative test locations measured as hose can be laid by apparatus.

For maximum credit, the Needed Fire Flows should be available at each location in the district. Needed Fire Flows of 2,500 gpm or less should be available for 2 hours; and Needed Fire Flows of 3,000 and 3,500 gpm should be obtainable for 3 hours.

Item 616 "Credit for Supply System (CSS)" = 29.41 points

Item 621 – Credit for Hydrants (3 points)

The second item reviewed is Item 621 "Credit for Hydrants (CH)". This item reviews the number of fire hydrants of each type compared with the total number of hydrants.

There are a total of 226 hydrants in the graded area.

620. Hydrants, - Size, Type and Installation	Number of Hydrants
A. With a 6 -inch or larger branch and a pumper outlet with or without $2\frac{1}{2}$ -inch outlets	226
B. With a 6 -inch or larger branch and no pumper outlet but two or more $2^{1/2}$ -inch outlets, or with a small foot valve, or with a small barrel	0
C./D. With only a $2\frac{1}{2}$ -inch outlet or with less than a 6 -inch branch	0
E./F. Flush Type, Cistern, or Suction Point	0

Item 621 "Credit for Hydrants (CH)" = 3.00 points

Item 630 – Credit for Inspection and Flow Testing (7 points)

The third item reviewed is Item 630 "Credit for Inspection and Flow Testing (CIT)". This item reviews the fire hydrant inspection frequency, and the completeness of the inspections. Inspection of hydrants should be in accordance with AWWA M-17, *Installation, Field Testing and Maintenance of Fire Hydrants.*

Frequency of Inspection (FI): Average interval between the 3 most recent inspections.

Frequency	Poi	nts
1 year	30	
2 years	20	
3 years	10	
4 years	5	
5 years or more	No Credit	

Note: The points for inspection frequency are reduced by 10 points if the inspections are incomplete or do not include a flushing program. An additional reduction of 10 points are made if hydrants are not subjected to full system pressure during inspections. If the inspection of cisterns or suction points does not include actual drafting with a pumper, or back-flushing for dry hydrants, 20 points are deducted.

Total points for Inspections = 3.20 points

Frequency of Fire Flow Testing (FF): Average interval between the 3 most recent inspections.

PPC is a registered trademark of Insurance Services Office, Inc. Page 20

Frequency	Points
5 years	40
6 years	30
7 years	20
8 years	10
9 years	5
10 years or more	No Credit

Total points for Fire Flow Testing = 0.00 points

Item 631 "Credit for Inspection and Fire Flow Testing (CIT)" = 3.20 points

Divergence = -7.76

The Divergence factor mathematically reduces the score based upon the relative difference between the fire department and water supply scores. The factor is introduced in the final equation.

Community Risk Reduction

	Earned Credit	Credit Available
1025. Credit for Fire Prevention and Code Enforcement (CPCE)	1.36	2.2
1033. Credit for Public Fire Safety Education (CFSE)	0.94	2.2
1044. Credit for Fire Investigation Programs (CIP)	0.97	1.1
Item 1050. Credit for Community Risk Reduction	3.27	5.50

Item 1025 – Credit for Fire Prevention Code Adoption and	Earned	Credit
Enforcement (2.2 points)	Credit	Available
Fire Prevention Code Regulations (PCR)	2.76	10

PPC is a registered trademark of Insurance Services Office, Inc. Page 21

Evaluation of fire prevention code regulations in effect.		
Fire Prevention Staffing (PS) Evaluation of staffing for fire prevention activities.	4.68	8
Fire Prevention Certification and Training (PCT) Evaluation of the certification and training of fire prevention code enforcement personnel.	3.00	6
Fire Prevention Programs (PCP) Evaluation of fire prevention programs.	14.35	16
Review of Fire Prevention Code and Enforcement (CPCE) subtotal:	24.79	40

Item 1033 – Credit for Public Fire Safety Education (2.2 points)	Earned Credit	Credit Available
Public Fire Safety Educators Qualifications and Training (FSQT) Evaluation of public fire safety education personnel training and qualification as specified by the authority having jurisdiction.	5.50	10
Public Fire Safety Education Programs (FSP) Evaluation of programs for public fire safety education.	11.55	30
Review of Public Safety Education Programs (CFSE) subtotal:	17.05	40

Item 1044 – Credit for Fire Investigation Programs (1.1 points)	Earned Credit	Credit Available
Fire Investigation Organization and Staffing (IOS)	7.80	8
Evaluation of organization and staffing for fire investigations.		
Fire Investigator Certification and Training (IQT)	3.75	6
Evaluation of fire investigator certification and training.		
Use of National Fire Incident Reporting System (IRS)	6.00	6
Evaluation of the use of the National Fire Incident Reporting System (NFIRS) for the 3 years before the evaluation.		
Review of Fire Investigation Programs (CIP) subtotal:	17.55	20

Summary of PPC Review for Stanley FPSA

FSRS Item	Earned Credit	Credit Available
Emergency Communications		
414. Credit for Emergency Reporting	3.00	3
422. Credit for Telecommunicators	2.02	4
432. Credit for Dispatch Circuits	2.85	3
440. Credit for Emergency Communications	7.87	10
Fire Department		
513. Credit for Engine Companies	3.60	6
523. Credit for Reserve Pumpers	0.46	0.5
532. Credit for Pumper Capacity	3.00	3
549. Credit for Ladder Service	2.31	4
553. Credit for Reserve Ladder and Service Trucks	0.00	0.5
561. Credit for Deployment Analysis	9.13	10
571. Credit for Company Personnel	3.01	15
581. Credit for Training	1.60	9
730. Credit for Operational Considerations	2.00	Z
590. Credit for Fire Department	25.11	50
Water Supply		
616. Credit for Supply System	29.41	30
621. Credit for Hydrants	3.00	3
631. Credit for Inspection and Flow Testing	3.20	7
640. Credit for Water Supply	35.61	40
Divergence	-7.76	
1050. Community Risk Reduction	3.27	5.50
Total Credit	64.10	105.5

Final Community Classification = 04

Public Protection Classification (PPC©) Summary Report

Stanley FDS

WISCONSIN

Prepared by

Insurance Services Office, Inc. 1000 Bishops Gate Blvd., Ste. 300 P.O. Box 5404 Mt. Laurel, New Jersey 08054-5404 1-800-444-4554

Report Created July 2022 Effective November 1, 2022

PPC is a registered trademark of Insurance Services Office, Inc.

Background Information

Introduction

ISO collects and evaluates information from communities in the United States on their structure fire suppression capabilities. The data is analyzed using our Fire Suppression Rating Schedule (FSRS) and then a Public Protection Classification (PPC©) grade is assigned to the community. The surveys are conducted whenever it appears that there is a possibility of a PPC change. As such, the PPC program provides important, up-to-date information about fire protection services throughout the country.

The FSRS recognizes fire protection features only as they relate to suppression of first alarm structure fires. In many communities, fire suppression may be only a small part of the fire department's overall responsibility. ISO recognizes the dynamic and comprehensive duties of a community's fire service, and understands the complex decisions a community must make in planning and delivering emergency services. However, in developing a community's PPC grade, only features related to reducing property losses from structural fires are evaluated. Multiple alarms, simultaneous incidents and life safety are not considered in this evaluation. The PPC program evaluates the fire protection for small to average size buildings. Specific properties with a Needed Fire Flow in excess of 3,500 gpm are evaluated separately and assigned an individual PPC grade.

A community's investment in fire mitigation is a proven and reliable predictor of future fire losses. Statistical data on insurance losses bears out the relationship between excellent fire protection – as measured by the PPC program – and low fire losses. So, insurance companies use PPC information for marketing, underwriting, and to help establish fair premiums for homeowners and commercial fire insurance. In general, the price of fire insurance in a community with a good PPC grade is substantially lower than in a community with a poor PPC grade, assuming all other factors are equal.

ISO is an independent company that serves insurance companies, communities, fire departments, insurance regulators, and others by providing information about risk. ISO's expert staff collects information about municipal fire suppression efforts in communities throughout the United States. In each of those communities, ISO analyzes the relevant data and assigns a PPC grade – a number from 1 to 10. Class 1 represents an exemplary fire suppression program, and Class 10 indicates that the area's fire suppression program does not meet ISO's minimum criteria.

ISO's PPC program evaluates communities according to a uniform set of criteria, incorporating nationally recognized standards developed by the National Fire Protection Association and the American Water Works Association. A community's PPC grade depends on:

- Needed Fire Flows, which are representative building locations used to determine the theoretical amount of water necessary for fire suppression purposes.
- Emergency Communications, including emergency reporting, telecommunicators, and dispatching systems.
- Fire Department, including equipment, staffing, training, geographic distribution of fire companies, operational considerations, and community risk reduction.
- Water Supply, including inspection and flow testing of hydrants, alternative water supply operations, and a careful evaluation of the amount of available water compared with the amount needed to suppress fires up to 3,500 gpm.

Data Collection and Analysis

ISO has evaluated and classified over 39,000 fire protection areas across the United States using its FSRS. A combination of meetings between trained ISO field representatives and the dispatch center coordinator, community fire official, and water superintendent is used in conjunction with a comprehensive questionnaire to collect the data necessary to determine the PPC grade. In order for a community to obtain a grade better than a Class 9, three elements of fire suppression features are reviewed. These three elements are Emergency Communications, Fire Department, and Water Supply.

A review of the **Emergency Communications** accounts for 10% of the total classification. This section is weighted at **10 points**, as follows:

•	Emergency Reporting	3 points
•	Telecommunicators	4 points

Dispatch Circuits 3 points

A review of the **Fire Department** accounts for 50% of the total classification. ISO focuses on a fire department's first alarm response and initial attack to minimize potential loss. The fire department section is weighted at **50 points**, as follows:

Engine Companies	6 points
Reserve Pumpers	0.5 points
Pump Capacity	3 points
Ladder/Service Companies	4 points
Reserve Ladder/Service Trucks	0.5 points
Deployment Analysis	10 points
Company Personnel	15 points
Training	9 points
Operational considerations	2 points
Community Risk Reduction	5.5 points (in addition to the 50 points above)

A review of the **Water Supply** system accounts for 40% of the total classification. ISO reviews the water supply a community uses to determine the adequacy for fire suppression purposes. The water supply system is weighted at **40 points**, as follows:

- Credit for Supply System 30 points
- Hydrant Size, Type & Installation 3 points
- Inspection & Flow Testing of Hydrants 7 points

There is one additional factor considered in calculating the final score – **Divergence**.

Even the best fire department will be less than fully effective if it has an inadequate water supply. Similarly, even a superior water supply will be less than fully effective if the fire department lacks the equipment or personnel to use the water. The FSRS score is subject to modification by a divergence factor, which recognizes disparity between the effectiveness of the fire department and the water supply.

The Divergence factor mathematically reduces the score based upon the relative difference between the fire department and water supply scores. The factor is introduced in the final equation.

PPC Grade

The PPC grade assigned to the community will depend on the community's score on a 100-point scale:

PPC	Points
1	90.00 or more
2	80.00 to 89.99
3	70.00 to 79.99
4	60.00 to 69.99
5	50.00 to 59.99
6	40.00 to 49.99
7	30.00 to 39.99
8	20.00 to 29.99
9	10.00 to 19.99
10	0.00 to 9.99

The classification numbers are interpreted as follows:

- Class 1 through (and including) Class 8 represents a fire suppression system that includes an FSRS creditable dispatch center, fire department, and water supply.
- Class 8B is a special classification that recognizes a superior level of fire protection in otherwise Class 9 areas. It is designed to represent a fire protection delivery system that is superior except for a lack of a water supply system capable of the minimum FSRS fire flow criteria of 250 gpm for 2 hours.
- Class 9 is a fire suppression system that includes a creditable dispatch center, fire department but no FSRS creditable water supply.
- Class 10 does not meet minimum FSRS criteria for recognition, including areas that are beyond five road miles of a recognized fire station.

New PPC program changes effective July 1, 2014

We have revised the PPC program to capture the effects of enhanced fire protection capabilities that reduce fire loss and fire severity in Split Class 9 and Split Class 8B areas (as outlined below). This new structure benefits the fire service, community, and property owner.

New classifications

Through ongoing research and loss experience analysis, we identified additional differentiation in fire loss experience within our PPC program, which resulted in the revised classifications. We based the differing fire loss experience on the fire suppression capabilities of each community. The new PPC classes will improve the predictive value for insurers while benefiting both commercial and residential property owners. Here are the new classifications and what they mean.

Split classifications

When we develop a split classification for a community — for example 5/9 — the first number is the class that applies to properties within 5 road miles of the responding fire station and 1,000 feet of a creditable water supply, such as a fire hydrant, suction point, or dry hydrant. The second number is the class that applies to properties within 5 road miles of a fire station but beyond 1,000 feet of a creditable water supply. We have revised the classification to reflect more precisely the risk of loss in a community, replacing Class 9 and 8B in the second part of a split classification with revised designations.

What's changed with the new classifications?

We've published the new classifications as "X" and "Y" — formerly the "9" and "8B" portion of the split classification, respectively. For example:

- A community currently displayed as a split 6/9 classification will now be a split 6/6X classification; with the "6X" denoting what was formerly classified as "9".
- Similarly, a community currently graded as a split 6/8B classification will now be a split 6/6Y classification, the "6Y" denoting what was formerly classified as "8B".
- Communities graded with single "9" or "8B" classifications will remain intact.

Prior	New	
Classification	Classification	
1/9	1/1X	
2/9	2/2X	
3/9	3/3X	
4/9	4/4X	
5/9	5/5X	
6/9	6/6X	
7/9	7/7X	
8/9	8/8X	
9	9	

Prior	New
Classification	Classification
1/8B	1/1Y
2/8B	2/2Y
3/8B	3/3Y
4/ 8B	4/4Y
5/8B	5/5Y
6/8B	6/6Y
7/8B	7/7Y
8/8B	8/8Y
8B	8B

What's changed?

As you can see, we're still maintaining split classes, but it's how we represent them to insurers that's changed. The new designations reflect a reduction in fire severity and loss and have the potential to reduce property insurance premiums.

Benefits of the revised split class designations

- To the fire service, the revised designations identify enhanced fire suppression capabilities used throughout the fire protection area
- To the community, the new classes reward a community's fire suppression efforts by showing a more reflective designation
- To the individual property owner, the revisions offer the potential for decreased property insurance premiums

New water class

Our data also shows that risks located more than 5 but less than 7 road miles from a responding fire station with a creditable water source within 1,000 feet had better loss experience than those farther than 5 road miles from a responding fire station with no creditable water source. We've introduced a new classification —10W — to recognize the reduced loss potential of such properties.

What's changed with Class 10W?

Class 10W is property-specific. Not all properties in the 5-to-7-mile area around the responding fire station will qualify. The difference between Class 10 and 10W is that the 10W-graded risk or property is within 1,000 feet of a creditable water supply. Creditable water supplies include fire protection systems using hauled water in any of the split classification areas.

What's the benefit of Class 10W?

10W gives credit to risks within 5 to 7 road miles of the responding fire station and within 1,000 feet of a creditable water supply. That's reflective of the potential for reduced property insurance premiums.

What does the fire chief have to do?

Fire chiefs don't have to do anything at all. The revised classifications went in place automatically effective July 1, 2014 (July 1, 2015 for Texas).

What if I have additional questions?

Feel free to contact ISO at 800.444.4554 or email us at PPC-Cust-Serv@iso.com.

Distribution of PPC Grades

The 2020 published countrywide distribution of communities by the PPC grade is as follows:



Assistance

The PPC program offers help to communities, fire departments, and other public officials as they plan for, budget, and justify improvements. ISO is also available to assist in the understanding of the details of this evaluation.

The PPC program representatives can be reached by telephone at (800) 444-4554. The technical specialists at this telephone number have access to the details of this evaluation and can effectively speak with you about your questions regarding the PPC program. What's more, we can be reached via the internet at <u>www.isomitigation.com/talk/</u>.

We also have a website dedicated to our Community Hazard Mitigation Classification programs at <u>www.isomitigation.com</u>. Here, fire chiefs, building code officials, community leaders and other interested citizens can access a wealth of data describing the criteria used in evaluating how cities and towns are protecting residents from fire and other natural hazards. This website will allow you to learn more about the PPC program. The website provides important background information, insights about the PPC grading processes and technical documents. ISO is also pleased to offer Fire Chiefs Online — a special, secured website with information and features that can help improve your PPC grade, including a list of the Needed Fire Flows for all the commercial occupancies ISO has on file for your community. Visitors to the site can download information, see statistical results and also contact ISO for assistance.

In addition, on-line access to the FSRS and its commentaries is available to registered customers for a fee. However, fire chiefs and community chief administrative officials are given access privileges to this information without charge.

To become a registered fire chief or community chief administrative official, register at <u>www.isomitigation.com</u>.

PPC Review

ISO concluded its review of the fire suppression features being provided for Stanley FDS. The resulting community classification is **Class 06/10**.

If the classification is a single class, the classification applies to properties with a Needed Fire Flow of 3,500 gpm or less in the community. If the classification is a split class (e.g., 6/XX):

- ➤ The first class (e.g., "6" in a 6/XX) applies to properties within 5 road miles of a recognized fire station and within 1,000 feet of a fire hydrant or alternate water supply.
- The second class (XX or XY) applies to properties beyond 1,000 feet of a fire hydrant but within 5 road miles of a recognized fire station.
- Alternative Water Supply: The first class (e.g., "6" in a 6/10) applies to properties within 5 road miles of a recognized fire station with no hydrant distance requirement.
- Class 10 applies to properties over 5 road miles of a recognized fire station.
- Class 10W applies to properties within 5 to 7 road miles of a recognized fire station with a recognized water supply within 1,000 feet.
- Specific properties with a Needed Fire Flow in excess of 3,500 gpm are evaluated separately and assigned an individual classification.

FSRS Feature	Earned Credit	Credit Available
Emergency Communications 414. Credit for Emergency Reporting 422. Credit for Telecommunicators 432. Credit for Dispatch Circuits	3.00 2.02 2.85	3 4 3
440. Credit for Emergency Communications	7.87	10
Fire Department 513. Credit for Engine Companies 523. Credit for Reserve Pumpers 532. Credit for Pump Capacity 549. Credit for Ladder Service 553. Credit for Reserve Ladder and Service Trucks 561. Credit for Deployment Analysis 571. Credit for Deployment Analysis 571. Credit for Company Personnel 581. Credit for Training 730. Credit for Operational Considerations 590. Credit for Fire Department	5.40 0.46 3.00 2.80 0.14 7.20 2.95 1.60 2.00 25.55	6 0.50 3 4 0.50 10 15 9 2 50
Water Supply 616. Credit for Supply System 621. Credit for Hydrants 631. Credit for Inspection and Flow Testing 640. Credit for Water Supply Divergence 1050. Community Risk Reduction	9.39 3.00 3.20 15.59 -2.43 3.37	30 3 7 40 5.50
Total Credit	49.95	105.50

Emergency Communications

Ten percent of a community's overall score is based on how well the communications center receives and dispatches fire alarms. Our field representative evaluated:

- Communications facilities provided for the general public to report structure fires
- Enhanced 9-1-1 Telephone Service including wireless
- · Computer-aided dispatch (CAD) facilities
- Alarm receipt and processing at the communication center
- Training and certification of telecommunicators
- Facilities used to dispatch fire department companies to reported structure fires

	Earned Credit	Credit Available
414. Credit Emergency Reporting	3.00	3
422. Credit for Telecommunicators	2.02	4
432. Credit for Dispatch Circuits	2.85	3
Item 440. Credit for Emergency Communications:	7.87	10

Item 414 - Credit for Emergency Reporting (3 points)

The first item reviewed is Item 414 "Credit for Emergency Reporting (CER)". This item reviews the emergency communication center facilities provided for the public to report fires including 911 systems (Basic or Enhanced), Wireless Phase I and Phase II, Voice over Internet Protocol, Computer Aided Dispatch and Geographic Information Systems for automatic vehicle location. ISO uses National Fire Protection Association (NFPA) 1221, *Standard for the Installation, Maintenance and Use of Emergency Services Communications Systems* as the reference for this section.

Item 410. Emergency Reporting (CER)	Earned Credit	Credit Available
A./B. Basic 9-1-1, Enhanced 9-1-1 or No 9-1-1	20.00	20
For maximum credit, there should be an Enhanced 9-1-1 system, Basic 9-1-1 and No 9-1-1 will receive partial credit.		
1. E9-1-1 Wireless	25.00	25
Wireless Phase I using Static ALI (automatic location identification) Functionality (10 points); Wireless Phase II using Dynamic ALI Functionality (15 points); Both available will be 25 points		
2. E9-1-1 Voice over Internet Protocol (VoIP)	25.00	25
Static VoIP using Static ALI Functionality (10 points); Nomadic VoIP using Dynamic ALI Functionality (15 points); Both available will be 25 points		
3. Computer Aided Dispatch	15.00	15
Basic CAD (5 points); CAD with Management Information System (5 points); CAD with Interoperability (5 points)		
4. Geographic Information System (GIS/AVL)	15.00	15
<u>The PSAP uses</u> a fully integrated CAD/GIS management system with automatic vehicle location (AVL) integrated with a CAD system providing dispatch assignments.		
The individual fire departments being dispatched <u>do</u> <u>not</u> need GIS/AVL capability to obtain this credit.		
Review of Emergency Reporting total:	100.00	100

Item 422- Credit for Telecommunicators (4 points)

The second item reviewed is Item 422 "Credit for Telecommunicators (TC)". This item reviews the number of Telecommunicators on duty at the center to handle fire calls and other emergencies. All emergency calls including those calls that do not require fire department action are reviewed to determine the proper staffing to answer emergency calls and dispatch the appropriate emergency response. The 2013 Edition of NFPA 1221, *Standard for the Installation, Maintenance and Use of Emergency Services Communications Systems,* recommends that ninety-five percent of emergency calls shall be answered within 15 seconds and ninety-nine percent of emergency alarm processing shall be completed within 60 seconds and ninety-five percent of alarm processing shall be completed within 106 seconds of answering the call.

To receive full credit for operators on duty, ISO must review documentation to show that the communication center meets NFPA 1221 call answering and dispatch time performance measurement standards. This documentation may be in the form of performance statistics or other performance measurements compiled by the 9-1-1 software or other software programs that are currently in use such as Computer Aided Dispatch (CAD) or Management Information System (MIS).

Item 420. Telecommunicators (CTC)	Earned Credit	Credit Available
A1. Alarm Receipt (AR)	19.99	20
Receipt of alarms shall meet the requirements in accordance with the criteria of NFPA 1221		
A2. Alarm Processing (AP)	0.00	20
Processing of alarms shall meet the requirements in accordance with the criteria of NFPA 1221		
B. Emergency Dispatch Protocols (EDP)	0.00	20
Telecommunicators have emergency dispatch protocols (EDP) containing questions and a decision- support process to facilitate correct call categorization and prioritization.		
C. Telecommunicator Training and Certification (TTC)	20.00	20
Telecommunicators meet the qualification requirements referenced in NFPA 1061, <i>Standard for</i> <i>Professional Qualifications for Public Safety</i> <i>Telecommunicator,</i> and/or the Association of Public- Safety Communications Officials - International (APCO) <i>Project 33.</i> Telecommunicators are certified in the knowledge, skills, and abilities corresponding to their job functions.		
D. Telecommunicator Continuing Education and Quality Assurance (TQA)	10.53	20
Telecommunicators participate in continuing education and/or in-service training and quality-assurance programs as appropriate for their positions		
Review of Telecommunicators total:	50.52	100

Item 432 - Credit for Dispatch Circuits (3 points)

The third item reviewed is Item 432 "Credit for Dispatch Circuits (CDC)". This item reviews the dispatch circuit facilities used to transmit alarms to fire department members. A "Dispatch Circuit" is defined in NFPA 1221 as "A circuit over which an alarm is transmitted from the communications center to an emergency response facility (ERF) or emergency response units (ERUs) to notify ERUs to respond to an emergency". All fire departments (except single fire station departments with full-time firefighter personnel receiving alarms directly at the fire station) need adequate means of notifying all firefighter personnel of the location of reported structure fires. The dispatch circuit facilities should be in accordance with the general criteria of NFPA 1221. "Alarms" are defined in this Standard as "A signal or message from a person or device indicating the existence of an emergency or other situation that requires action by an emergency response agency".

There are two different levels of dispatch circuit facilities provided for in the Standard – a primary dispatch circuit and a secondary dispatch circuit. In jurisdictions that receive 730 alarms or more per year (average of two alarms per 24-hour period), two separate and dedicated dispatch circuits, a primary and a secondary, are needed. In jurisdictions receiving fewer than 730 alarms per year, a second dedicated dispatch circuit is not needed. Dispatch circuit facilities installed but not used or tested (in accordance with the NFPA Standard) receive no credit.

The score for Credit for Dispatch Circuits (CDC) is influenced by monitoring for integrity of the primary dispatch circuit. There are up to 0.90 points available for this Item. Monitoring for integrity involves installing automatic systems that will detect faults and failures and send visual and audible indications to appropriate communications center (or dispatch center) personnel. ISO uses NFPA 1221 to guide the evaluation of this item. ISO's evaluation also includes a review of the communication system's emergency power supplies.

Item 432 "Credit for Dispatch Circuits (CDC)" = 2.85 points

Fire Department

Fifty percent of a community's overall score is based upon the fire department's structure fire suppression system. ISO's field representative evaluated:

- · Engine and ladder/service vehicles including reserve apparatus
- Equipment carried
- Response to reported structure fires
- Deployment analysis of companies
- Available and/or responding firefighters
- Training

	Earned Credit	Credit Available
513. Credit for Engine Companies	5.40	6
523. Credit for Reserve Pumpers	0.46	0.5
532. Credit for Pumper Capacity	3.00	3
549. Credit for Ladder Service	2.80	4
553. Credit for Reserve Ladder and Service Trucks	0.14	0.5
561. Credit for Deployment Analysis	7.20	10
571. Credit for Company Personnel	2.95	15
581. Credit for Training	1.60	9
730. Credit for Operational Considerations	2.00	2
Item 590. Credit for Fire Department:	25.55	50

Basic Fire Flow

The Basic Fire Flow for the community is determined by the review of the Needed Fire Flows for selected buildings in the community. The fifth largest Needed Fire Flow is determined to be the Basic Fire Flow. The Basic Fire Flow has been determined to be 2000 gpm.

Item 513 - Credit for Engine Companies (6 points)

The first item reviewed is Item 513 "Credit for Engine Companies (CEC)". This item reviews the number of engine companies, their pump capacity, hose testing, pump testing and the equipment carried on the in-service pumpers. To be recognized, pumper apparatus must meet the general criteria of NFPA 1901, *Standard for Automotive Fire Apparatus* which include a minimum 250 gpm pump, an emergency warning system, a 300 gallon water tank, and hose. At least 1 apparatus must have a permanently mounted pump rated at 750 gpm or more at 150 psi.

The review of the number of needed pumpers considers the response distance to built-upon areas; the Basic Fire Flow; and the method of operation. Multiple alarms, simultaneous incidents, and life safety are not considered.

The greatest value of A, B, or C below is needed in the fire district to suppress fires in structures with a Needed Fire Flow of 3,500 gpm or less: **2 engine companies**

- a) **1 engine companies** to provide fire suppression services to areas to meet NFPA 1710 criteria or within 1½ miles.
- b) **2 engine companies** to support a Basic Fire Flow of 2000 gpm.
- c) **2 engine companies** based upon the fire department's method of operation to provide a minimum two engine response to all first alarm structure fires.

The FSRS recognizes that there are **2 engine companies** in service.

The FSRS also reviews Automatic Aid. Automatic Aid is considered in the review as assistance dispatched automatically by contractual agreement between two communities or fire districts. That differs from mutual aid or assistance arranged case by case. ISO will recognize an Automatic Aid plan under the following conditions:

- It must be prearranged for first alarm response according to a definite plan. It is preferable to have a written agreement, but ISO may recognize demonstrated performance.
- The aid must be dispatched to all reported structure fires on the initial alarm.
- The aid must be provided 24 hours a day, 365 days a year.

FSRS Item 512.D "Automatic Aid Engine Companies" responding on first alarm and meeting the needs of the city for basic fire flow and/or distribution of companies are factored based upon the value of the Automatic Aid plan (up to 1.00 can be used as the factor). The Automatic Aid factor is determined by a review of the Automatic Aid provider's communication facilities, how they receive alarms from the graded area, inter-department training between fire departments, and the fire ground communications capability between departments.

For each engine company, the credited Pump Capacity (PC), the Hose Carried (HC), the Equipment Carried (EC) all contribute to the calculation for the percent of credit the FSRS provides to that engine company.

Item 513 "Credit for Engine Companies (CEC)" = 5.40 points

PPC is a registered trademark of Insurance Services Office, Inc. Page 13

Item 523 - Credit for Reserve Pumpers (0.50 points)

The item is Item 523 "Credit for Reserve Pumpers (CRP)". This item reviews the number and adequacy of the pumpers and their equipment. The number of needed reserve pumpers is 1 for each 8 needed engine companies determined in Item 513, or any fraction thereof.

Item 523 "Credit for Reserve Pumpers (CRP)" = 0.46 points

Item 532 – Credit for Pumper Capacity (3 points)

The next item reviewed is Item 532 "Credit for Pumper Capacity (CPC)". The total pump capacity available should be sufficient for the Basic Fire Flow of 2000 gpm. The maximum needed pump capacity credited is the Basic Fire Flow of the community.

Item 532 "Credit for Pumper Capacity (CPC)" = 3.00 points

Item 549 – Credit for Ladder Service (4 points)

The next item reviewed is Item 549 "Credit for Ladder Service (CLS)". This item reviews the number of response areas within the city with 5 buildings that are 3 or more stories or 35 feet or more in height, or with 5 buildings that have a Needed Fire Flow greater than 3,500 gpm, or any combination of these criteria. The height of all buildings in the city, including those protected by automatic sprinklers, is considered when determining the number of needed ladder companies. Response areas not needing a ladder company should have a service company. Ladders, tools and equipment normally carried on ladder trucks are needed not only for ladder operations but also for forcible entry, ventilation, salvage, overhaul, lighting and utility control.

The number of ladder or service companies, the height of the aerial ladder, aerial ladder testing and the equipment carried on the in-service ladder trucks and service trucks is compared with the number of needed ladder trucks and service trucks and an FSRS equipment list. Ladder trucks must meet the general criteria of NFPA 1901, *Standard for Automotive Fire Apparatus* to be recognized.

The number of needed ladder-service trucks is dependent upon the number of buildings 3 stories or 35 feet or more in height, buildings with a Needed Fire Flow greater than 3,500 gpm, and the method of operation.

The FSRS recognizes that there are **0 ladder companies** in service. These companies are needed to provide fire suppression services to areas to meet NFPA 1710 criteria or within $2\frac{1}{2}$ miles and the number of buildings with a Needed Fire Flow over 3,500 gpm or 3 stories or more in height, or the method of operation.

The FSRS recognizes that there are **1 service companies** in service.

Item 549 "Credit for Ladder Service (CLS)" = 2.80 points

Item 553 – Credit for Reserve Ladder and Service Trucks (0.50 points)

The next item reviewed is Item 553 "Credit for Reserve Ladder and Service Trucks (CRLS)". This item considers the adequacy of ladder and service apparatus when one (or more in larger communities) of these apparatus are out of service. The number of needed reserve ladder and service trucks is 1 for each 8 needed ladder and service companies that were determined to be needed in Item 540, or any fraction thereof.

Item 553 "Credit for Reserve Ladder and Service Trucks (CRLS)" = 0.14 points

Item 561 – Deployment Analysis (10 points)

Next, Item 561 "Deployment Analysis (DA)" is reviewed. This Item examines the number and adequacy of existing engine and ladder-service companies to cover built-upon areas of the city.

To determine the Credit for Distribution, first the Existing Engine Company (EC) points and the Existing Engine Companies (EE) determined in Item 513 are considered along with Ladder Company Equipment (LCE) points, Service Company Equipment (SCE) points, Engine-Ladder Company Equipment (ELCE) points, and Engine-Service Company Equipment (ESCE) points determined in Item 549.

Secondly, as an alternative to determining the number of needed engine and ladder/service companies through the road-mile analysis, a fire protection area may use the results of a systematic performance evaluation. This type of evaluation analyzes computer-aided dispatch (CAD) history to demonstrate that, with its current deployment of companies, the fire department meets the time constraints for initial arriving engine and initial full alarm assignment in accordance with the general criteria of in NFPA 1710, *Standard for the Organization and Deployment of Fire Suppression Operations, Emergency Medical Operations, and Special Operations to the Public by Career Fire Departments.*

A determination is made of the percentage of built upon area within 1½ miles of a first-due engine company and within 2½ miles of a first-due ladder-service company.

Item 561 "Credit Deployment Analysis (DA)" = 7.20 points

Item 571 – Credit for Company Personnel (15 points)

Item 571 "Credit for Company Personnel (CCP)" reviews the average number of existing firefighters and company officers available to respond to reported first alarm structure fires in the city.

The on-duty strength is determined by the yearly average of total firefighters and company officers on-duty considering vacations, sick leave, holidays, "Kelley" days and other absences. When a fire department operates under a minimum staffing policy, this may be used in lieu of determining the yearly average of on-duty company personnel.

Firefighters on apparatus not credited under Items 513 and 549 that regularly respond to reported first alarms to aid engine, ladder, and service companies are included in this item as increasing the total company strength.

Firefighters staffing ambulances or other units serving the general public are credited if they participate in fire-fighting operations, the number depending upon the extent to which they are available and are used for response to first alarms of fire.

On-Call members are credited on the basis of the average number staffing apparatus on first alarms. Off-shift career firefighters and company officers responding on first alarms are considered on the same basis as on-call personnel. For personnel not normally at the fire station, the number of responding firefighters and company officers is divided by 3 to reflect the time needed to assemble at the fire scene and the reduced ability to act as a team due to the various arrival times at the fire location when compared to the personnel on-duty at the fire station during the receipt of an alarm.

The number of Public Safety Officers who are positioned in emergency vehicles within the jurisdiction boundaries may be credited based on availability to respond to first alarm structure fires. In recognition of this increased response capability the number of responding Public Safety Officers is divided by 2.

The average number of firefighters and company officers responding with those companies credited as Automatic Aid under Items 513 and 549 are considered for either on-duty or on-call company personnel as is appropriate. The actual number is calculated as the average number of company personnel responding multiplied by the value of AA Plan determined in Item 512.D.

The maximum creditable response of on-duty and on-call firefighters is 12, including company officers, for each existing engine and ladder company and 6 for each existing service company.

Chief Officers are not creditable except when more than one chief officer responds to alarms; then extra chief officers may be credited as firefighters if they perform company duties.

The FSRS recognizes **0.00 on-duty personnel** and an average of **8.85 on-call personnel** responding on first alarm structure fires.

Item 571 "Credit for Company Personnel (CCP)" = 2.95 points

Item 581 – Credit for Training (9 points)

Training	Earned Credit	Credit Available
A. Facilities, and Use	0.00	35
For maximum credit, each firefighter should receive 18 hours per year in structure fire related subjects as outlined in NFPA 1001.		
B. Company Training	1.94	25
For maximum credit, each firefighter should receive 16 hours per month in structure fire related subjects as outlined in NFPA 1001.		
C. Classes for Officers	9.20	12
For maximum credit, each officer should be certified in accordance with the general criteria of NFPA 1021. Additionally, each officer should receive 12 hours of continuing education on or off site.		
D. New Driver and Operator Training	2.50	5
For maximum credit, each new driver and operator should receive 60 hours of driver/operator training per year in accordance with NFPA 1002 and NFPA 1451.		
E. Existing Driver and Operator Training	2.10	5
For maximum credit, each existing driver and operator should receive 12 hours of driver/operator training per year in accordance with NFPA 1002 and NFPA 1451.		
F. Training on Hazardous Materials	0.21	1
For maximum credit, each firefighter should receive 6 hours of training for incidents involving hazardous materials in accordance with NFPA 472.		
G. Recruit Training	1.25	5
For maximum credit, each firefighter should receive 240 hours of structure fire related training in accordance with NFPA 1001 within the first year of employment or tenure.		
H. Pre-Fire Planning Inspections	0.60	12
For maximum credit, pre-fire planning inspections of each commercial, industrial, institutional, and other similar type building (all buildings except 1-4 family dwellings) should be made annually by company members. Records of inspections should include up-to date notes and sketches.		

Item 580 "Credit for Training (CT)" = 1.60 points

Item 730 – Operational Considerations (2 points)

Item 730 "Credit for Operational Considerations (COC)" evaluates fire department standard operating procedures and incident management systems for emergency operations involving structure fires.

Operational Considerations	Earned Credit	Credit Available
Standard Operating Procedures	50	50
The department should have established SOPs for fire department general emergency operations		
Incident Management Systems	50	50
The department should use an established incident management system (IMS)		
Operational Considerations total:	100	100

Item 730 "Credit for Operational Considerations (COC)" = 2.00 points

Water Supply

Forty percent of a community's overall score is based on the adequacy of the water supply system. The ISO field representative evaluated:

- the capability of the water distribution system to meet the Needed Fire Flows at selected locations up to 3,500 gpm.
- size, type and installation of fire hydrants.
- inspection and flow testing of fire hydrants.

	Earned Credit	Credit Available
616. Credit for Supply System	9.39	30
621. Credit for Hydrants	3.00	3
631. Credit for Inspection and Flow Testing	3.20	7
Item 640. Credit for Water Supply:	15.59	40

Item 616 – Credit for Supply System (30 points)

The first item reviewed is Item 616 "Credit for Supply System (CSS)". This item reviews the rate of flow that can be credited at each of the Needed Fire Flow test locations considering the supply works capacity, the main capacity and the hydrant distribution. The lowest flow rate of these items is credited for each representative location. A water system capable of delivering 250 gpm or more for a period of two hours plus consumption at the maximum daily rate at the fire location is considered minimum in the ISO review.

Where there are 2 or more systems or services distributing water at the same location, credit is given on the basis of the joint protection provided by all systems and services available.

The supply works capacity is calculated for each representative Needed Fire Flow test location, considering a variety of water supply sources. These include public water supplies, emergency supplies (usually accessed from neighboring water systems), suction supplies (usually evidenced by dry hydrant installations near a river, lake or other body of water), and supplies developed by a fire department using large diameter hose or vehicles to shuttle water from a source of supply to a fire site. The result is expressed in gallons per minute (gpm).

The normal ability of the distribution system to deliver Needed Fire Flows at the selected building locations is reviewed. The results of a flow test at a representative test location will indicate the ability of the water mains (or fire department in the case of fire department supplies) to carry water to that location.

The hydrant distribution is reviewed within 1,000 feet of representative test locations measured as hose can be laid by apparatus.

For maximum credit, the Needed Fire Flows should be available at each location in the district. Needed Fire Flows of 2,500 gpm or less should be available for 2 hours; and Needed Fire Flows of 3,000 and 3,500 gpm should be obtainable for 3 hours.

Item 616 "Credit for Supply System (CSS)" = 9.39 points

Item 621 – Credit for Hydrants (3 points)

The second item reviewed is Item 621 "Credit for Hydrants (CH)". This item reviews the number of fire hydrants of each type compared with the total number of hydrants.

There are a total of 226 hydrants in the graded area.

620. Hydrants, - Size, Type and Installation	Number of Hydrants
A. With a 6 -inch or larger branch and a pumper outlet with or without $2\frac{1}{2}$ -inch outlets	226
B. With a 6 -inch or larger branch and no pumper outlet but two or more $2^{1/2}$ -inch outlets, or with a small foot valve, or with a small barrel	0
C./D. With only a $2\frac{1}{2}$ -inch outlet or with less than a 6 -inch branch	0
E./F. Flush Type, Cistern, or Suction Point	0

Item 621 "Credit for Hydrants (CH)" = 3.00 points

Item 630 – Credit for Inspection and Flow Testing (7 points)

The third item reviewed is Item 630 "Credit for Inspection and Flow Testing (CIT)". This item reviews the fire hydrant inspection frequency, and the completeness of the inspections. Inspection of hydrants should be in accordance with AWWA M-17, *Installation, Field Testing and Maintenance of Fire Hydrants.*

Frequency of Inspection (FI): Average interval between the 3 most recent inspections.

Frequency	Poi	nts
1 year	30	
2 years	20	
3 years	10	
4 years	5	
5 years or more	No Credit	

Note: The points for inspection frequency are reduced by 10 points if the inspections are incomplete or do not include a flushing program. An additional reduction of 10 points are made if hydrants are not subjected to full system pressure during inspections. If the inspection of cisterns or suction points does not include actual drafting with a pumper, or back-flushing for dry hydrants, 20 points are deducted.

Total points for Inspections = 3.20 points

Frequency of Fire Flow Testing (FF): Average interval between the 3 most recent inspections.

PPC is a registered trademark of Insurance Services Office, Inc. Page 20

Frequency	Points
5 years	40
6 years	30
7 years	20
8 years	10
9 years	5
10 years or more	No Credit

Total points for Fire Flow Testing = 0.00 points

Item 631 "Credit for Inspection and Fire Flow Testing (CIT)" = 3.20 points

Divergence = -2.43

The Divergence factor mathematically reduces the score based upon the relative difference between the fire department and water supply scores. The factor is introduced in the final equation.

Community Risk Reduction

	Earned Credit	Credit Available
1025. Credit for Fire Prevention and Code Enforcement (CPCE)	1.44	2.2
1033. Credit for Public Fire Safety Education (CFSE)	0.92	2.2
1044. Credit for Fire Investigation Programs (CIP)	1.01	1.1
Item 1050. Credit for Community Risk Reduction	3.37	5.50

Item 1025 – Credit for Fire Prevention Code Adoption and	Earned	Credit
Enforcement (2.2 points)	Credit	Available
Fire Prevention Code Regulations (PCR)	2.76	10

PPC is a registered trademark of Insurance Services Office, Inc. Page 21
Evaluation of fire prevention code regulations in effect.		
Fire Prevention Staffing (PS) Evaluation of staffing for fire prevention activities.	8.00	8
Fire Prevention Certification and Training (PCT) Evaluation of the certification and training of fire prevention code enforcement personnel.	3.00	6
Fire Prevention Programs (PCP) Evaluation of fire prevention programs.	12.45	16
Review of Fire Prevention Code and Enforcement (CPCE) subtotal:	26.21	40

Item 1033 – Credit for Public Fire Safety Education (2.2 points)	Earned Credit	Credit Available
Public Fire Safety Educators Qualifications and Training (FSQT) Evaluation of public fire safety education personnel training and qualification as specified by the authority having jurisdiction.	5.00	10
Public Fire Safety Education Programs (FSP) Evaluation of programs for public fire safety education.	11.75	30
Review of Public Safety Education Programs (CFSE) subtotal:	16.75	40

Item 1044 – Credit for Fire Investigation Programs (1.1 points)	Earned Credit	Credit Available
Fire Investigation Organization and Staffing (IOS)	7.80	8
Evaluation of organization and staffing for fire investigations.		
Fire Investigator Certification and Training (IQT)	4.50	6
Evaluation of fire investigator certification and training.		
Use of National Fire Incident Reporting System (IRS)	6.00	6
Evaluation of the use of the National Fire Incident Reporting System (NFIRS) for the 3 years before the evaluation.		
Review of Fire Investigation Programs (CIP) subtotal:	18.30	20

Summary of PPC Review for Stanley FDS

FSRS Item	Earned Credit	Credit Available
Emergency Communications		
414. Credit for Emergency Reporting	3.00	3
422. Credit for Telecommunicators	2.02	4
432. Credit for Dispatch Circuits	2.85	3
440. Credit for Emergency Communications	7.87	10
Fire Department		
513. Credit for Engine Companies	5.40	6
523. Credit for Reserve Pumpers	0.46	0.5
532. Credit for Pumper Capacity	3.00	3
549. Credit for Ladder Service	2.80	4
553. Credit for Reserve Ladder and Service Trucks	0.14	0.5
561. Credit for Deployment Analysis	7.20	10
571. Credit for Company Personnel	2.95	15
581. Credit for Training	1.60	9
730. Credit for Operational Considerations	2.00	2
590. Credit for Fire Department	25.55	50
Water Supply		
616. Credit for Supply System	9.39	30
621. Credit for Hydrants	3.00	3
631. Credit for Inspection and Flow Testing	3.20	7
640. Credit for Water Supply	15.59	40
Divergence	-2.43	
1050. Community Risk Reduction	3.37	5.50
Total Credit	49.95	105.5

Final Community Classification = 06/10