OBG, PART OF RAMBOLL

Phase 1 Hazardous Materials Assessment

USH 12
Cox Road to STH 20/67
Whitewater and La Grange, Walworth County, Wisconsin
WisDOT ID 3130-03-01

Wisconsin Department of Transportation

November 18, 2020

RAMBOLL

NOVEMBER 18, 2020 | PROJECT # 1940100191

Phase 1 Hazardous Materials Assessment

USH 12
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Prepared for:

Wisconsin Department of Transportation

MARK D. WALTER, PE
Project Manager / Senior Engineer

ANDREW G. CAWRSE
Environmental Scientist

RAMBOLL

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ACRONYMS AND ABBREVIATIONS

AST	aboveground storage tank
bgs	below ground surface
BRRTS	Bureau for Remediation and Redevelopment Tracking System
DATCP	Wisconsin Department of Agriculture, Trade and Consumer Protection
E	east
ECHO	Environmental Compliance History Online
FDM	Facilities Development Manual
FRS	Facility Registry Systems
GIS	Geographic Information System
HIG	Historical Information Gatherers, Inc.
HMA	Hazardous Materials Assessment
Hwy	Highway
Inc.	Incorporated
N	north
NFRAP	No Further Remedial Action Planned
PCBs	polychlorinated biphenyls
PS&E	Plans, Specifications, and Estimates
Ramboll	O'Brien & Gere Engineers, Inc., Part of Ramboll
RCRA-NONGEN	Resource Conservation and Recovery Act Non-Generator
SHWIMS	Solid & Hazardous Waste Information Management System
St	Street
STH	State Trunk Highway
T2	Tier II
USH	United States Highway
UST	underground storage tank
W	West
WDNR	Wisconsin Department of Natural Resources
WGNHS	Wisconsin Geological and Natural History Survey
WI	Wisconsin
WisDOT	Wisconsin Department of Transportation

EXECUTIVE SUMMARY

The WisDOT is planning improvements along USH 12 from Cox Road to STH 20/67 in Whitewater and La Grange, Walworth County, WI (WisDOT ID 3130-03-01). Planned improvements consist of resurfacing USH 12 and replacement of one culvert (C-64-0002). Other improvements include updating signage, replacing pavement markings, shoulder gravel, and guardrails, clearing vegetation, and installation of centerline and shoulder rumble strips. It is expected that FEE RW will be required in the southwest quadrant of the intersection of USH 12 and CTH H. The project's PS&E date is scheduled for May 2024.

O'Brien and Gere Engineers, Inc., Part of Ramboll (Ramboll) completed a Phase 1 HMA in accordance with the WisDOT's FDM Chapter 21, Section 35, Part 5 (21-35-5), on behalf of the internal WisDOT design team. The Phase 1 HMA findings and recommendations are summarized in Table 1. In the event that excavation activities or property acquisition are required in the vicinity of the following sites, a Phase 2/2.5 subsurface investigation is recommended based on current and/or historic uses:

- La Grange General Store (W6098 USH 12)
- Darrs Service (W6071 USH 12)

Soil and groundwater samples should be analyzed to assess for the presence and concentrations of potential contaminants on property to be acquired by WisDOT and for waste characterization parameters to prepare for management of soil excavated and groundwater pumped (if necessary) during the roadway project. Due to the relatively shallow groundwater depths observed, excavation dewatering may be required for this project. If necessary, hazmat Special Provisions should be prepared for incorporation into the roadway project contract documents. If construction or real estate requirements change, evaluation of need for further investigation will be necessary.

1 PROJECT INFORMATION

1.1 GENERAL INFORMATION

The WisDOT is planning improvements along USH 12 from Cox Road to STH 20/67 in Whitewater and La Grange, Walworth County, WI (WisDOT ID 3130-03-01). Planned improvements consist of resurfacing USH 12 and replacement of one culvert (C-64-0002). Other improvements include updating signage, replacing pavement markings, shoulder gravel, and guardrails, clearing vegetation, and installation of centerline and shoulder rumble strips. Figure 1 shows the project location and limits. Land uses along the planned project limits are primarily agricultural, residential, and commercial. Historic land use in the area is mostly agricultural, residential, and commercial. It is expected that FEE RW will be required in the southwest quadrant of the intersection of USH 12 and CTH H. The project's PS&E date is scheduled for May 2024.

1.2 METHODOLOGY

Ramboll completed the Phase 1 HMA in accordance with the WisDOT's FDM Chapter 21, Section 35, Part 5 (21-35-5) (revised August 15, 2019), on behalf of the internal WisDOT design team. Specifically, the following were reviewed as part of this Phase 1 HMA to determine the likelihood of hazardous materials being present within the project limits.

- WDNR BRRTS Sites Map was reviewed to identify documented release sites that are relatively close to the project, and to obtain information for such sites (*e.g.,* GIS Registries). The Sites Map lists known releases of petroleum products, other contaminants (*e.g.,* chlorinated solvents, metals, PCBs, agricultural products), and lists information for documented historic fill sites.
- DATCP Registered Storage Tank on-line database was reviewed for the addresses immediately adjacent to the project.
- WDNR's list of Licensed Solid Waste Landfills.
- Online sources for Superfund and Superfund alternative sites.
- WisDOT historical plan sets.
- Aerial photographs obtained from the Walworth County online GIS website (1940-2015).
- Topographic maps provided by the United States Geological Survey (1903-1960).
- WDNR and WGNHS Well Constructor Reports.
- DATCP Agrichemical Spills.

Ramboll utilized the services of HIG to provide Sanborn fire insurance maps, city directories, and to review environmental databases. Appendix A contains documentation of historical information. Appendix B contains HIG's environmental database review report. Ramboll did not find any documented agricultural chemical releases within or near the planned project limits.

Ramboll conducted field reconnaissance of the project limits on November 5, 2020. Photographs are provided in Appendix C. No groundwater monitoring wells or railroad crossings were observed within the planned project limits.

1.3 HYDROGEOLOGY

Based upon review of well logs in the vicinity of the project limits, near surface soils consist of sand and gravel underlain by clay. The depth to groundwater varies along the project corridor and ranges from approximately 5 to 10 feet below ground surface. As such, excavation dewatering may be required for this project.

1.4 FINDINGS

Table 1 summarizes the Phase 1 HMA information for each of the potential hazardous material sites that are located near the project limits and summarizes the significant findings from each of the above data sources, as applicable. The sites identified as potential hazardous materials concerns for the project are shown on Figures 2-5.

Verizon La Grange (W7586 USH 12)

This property adjoins the western portion of the project limits, on the north side of USH 12, and is currently a farmstead with a communication tower located approximately 480 feet from the project limits. Review of historical information indicates that this property has been a farmstead since at least 1940. One 210-gallon diesel fuel AST is listed as in use.

This property was not identified in the regulatory agency database records used to track reported significant spills/releases of petroleum products and/or hazardous substances. Based on review of the available information, this property is not considered a concern to the WisDOT project.

Johns Welding & Radiator (W7296 USH 12)

This property adjoins the western portion of the project limits, on the north side of USH 12, and is currently a residence and lawncare business. Review of historical information indicates that this property has been a residence since at least 1956. The property is in the SHWIMS database.

This property was not identified in the regulatory agency database records used to track reported significant spills/releases of petroleum products and/or hazardous substances. Based on review of the available information, this property is not considered a concern to the WisDOT project.

Northern Natural Gas-Bluff Crk We Interconnect / Bluff Creek Gate Station (W7295 USH 12)

This property adjoins the western portion of the project limits, on the south side of USH 12, and is currently a pipeline facility. Review of historical information indicates that this property was historically vacant until the current facility was built. The building at this property is located approximately 530 feet from the project limits. The property is in the RCRA-NONGEN, FRS, ECHO, SHWIMS, and T2 databases.

This property was not identified in the regulatory agency database records used to track reported significant spills/releases of petroleum products and/or hazardous substances. Based on review of the available information, this property is not considered a concern to the WisDOT project.

W6628 USH 12

This property adjoins the eastern portion of the project limits, on the north side of USH 12, and is currently a farmstead. Review of historical information indicates that this property has been a farmstead since at least 1940.

A SPILLS case (BRRTS Activity No. 04-65-583255) was opened January 23, 2019 when approximately 60 gallons of diesel fuel spilled onto the snow on the side of USH 12 following a truck accident. The impacted snow was removed and the SPILLS case was closed March 19, 2019.

Based on review of the available information, the release at this property is not considered a concern to the WisDOT project.

La Grange Asphalt Plant - C10 (W6615 USH 12)

This property adjoins the eastern portion of the project limits, on the south side of USH 12, and is currently a gravel pit and asphalt plant. Review of historical information indicates that this property has been a gravel pit since at least 1940. The operations at this site are located approximately 1,500 feet from the project limits. The property is in the T2 database.

This property was not identified in the regulatory agency database records used to track reported significant spills/releases of petroleum products and/or hazardous substances. Based on review of the available information, this property is not considered a concern to the WisDOT project.

La Grange General Store (W6098 USH 12)

This property adjoins the eastern portion of the project limits, on the north side of USH 12, and is currently a commercial business. Review of historical information indicates that this property has been developed since at least 1940. Review of the website for the commercial business indicates that a gas station formerly operated at this property. The property is in the FRS and ECHO databases.

This property was not identified in the regulatory agency database records used to track reported significant spills/releases of petroleum products and/or hazardous substances. However, a release from the former gas station at this property could impact the project limits. However, the current scope of work does not include subsurface excavation activities or property acquisition in the vicinity of this site. In the event that the scope of work changes and excavation activities or property acquisition are required, a Phase 2/2.5 subsurface investigation is recommended in the right-of-way adjacent to this property, as well as the property itself where acquisition is planned.

Darrs Service (W6071 USH 12)

This property adjoins the eastern portion of the project limits, on the south side of USH 12, and is currently a vacant auto repair facility, identified as Darrs Service since 1949. Review of historical information indicates that this property has been developed since at least 1940 and was historically a service station. The database report lists the address for this facility as W6062 WSH 12; however, the property at this address appears to have always been a residence.

Two approximately 250-gallon petroleum ASTs were observed approximately 200 feet from the project limits during the site reconnaissance. In addition, one 10,000-gallon diesel fuel UST, one 500-gallon diesel fuel UST, and one 500-gallon waste/used motor oil UST are listed as closed/removed at this property as of September 6, 1995.

This property was not identified in the regulatory agency database records used to track reported significant spills/releases of petroleum products and/or hazardous substances. However, a release from the former service station at this property could impact the project limits. The current scope of work does not include subsurface excavation activities or property acquisition in the vicinity of this site. In the event that the scope of work changes and excavation activities or property acquisition are required, a Phase 2/2.5 subsurface investigation is recommended in the right-of-way adjacent to this property, as well as the property itself where acquisition is planned.

Sylvester Obremski (W5890 USH 12)

This property adjoins the eastern portion of the project limits, on the north side of USH 12, and is currently a farmstead. Review of historical information indicates that this property has been a farmstead since at least 1940.

One leaded gasoline UST of unknown size is listed as closed/removed at this property as of October 13, 1997.

This property was not identified in the regulatory agency database records used to track reported significant spills/releases of petroleum products and/or hazardous substances. Based on review of the available information, this property is not considered a concern to the WisDOT project.

Remaining Facilities

The remaining facilities listed in the database report do not appear to represent recognized environmental conditions for the project limits based upon regulatory status, apparent topographic gradient, and/or relative distance from the project limits.

2 CONCLUSIONS AND RECOMMENDATIONS

Relevant and concise summary information from the data sources listed in Section 1.2 above are included in Table 1 and the appendices, including completed WisDOT Phase 1 Assessment Site Summaries (see Appendices D through K). In the event that excavation activities or property acquisition are required in the vicinity of the following sites, a Phase 2/2.5 subsurface investigation is recommended based on current and/or historic uses:

- La Grange General Store (W6098 USH 12)
- Darrs Service (W6071 USH 12)

Soil and groundwater samples should be analyzed to assess for the presence and concentrations of potential contaminants on property to be acquired by WisDOT and for waste characterization parameters to prepare for management of soil excavated and groundwater pumped (if necessary) during the roadway project. Due to the relatively shallow groundwater depths observed, excavation dewatering may be required for this project. If necessary, hazmat Special Provisions should be prepared for incorporation into the roadway project contract documents. If construction or real estate requirements change, evaluation of need for further investigation will be necessary.

Table

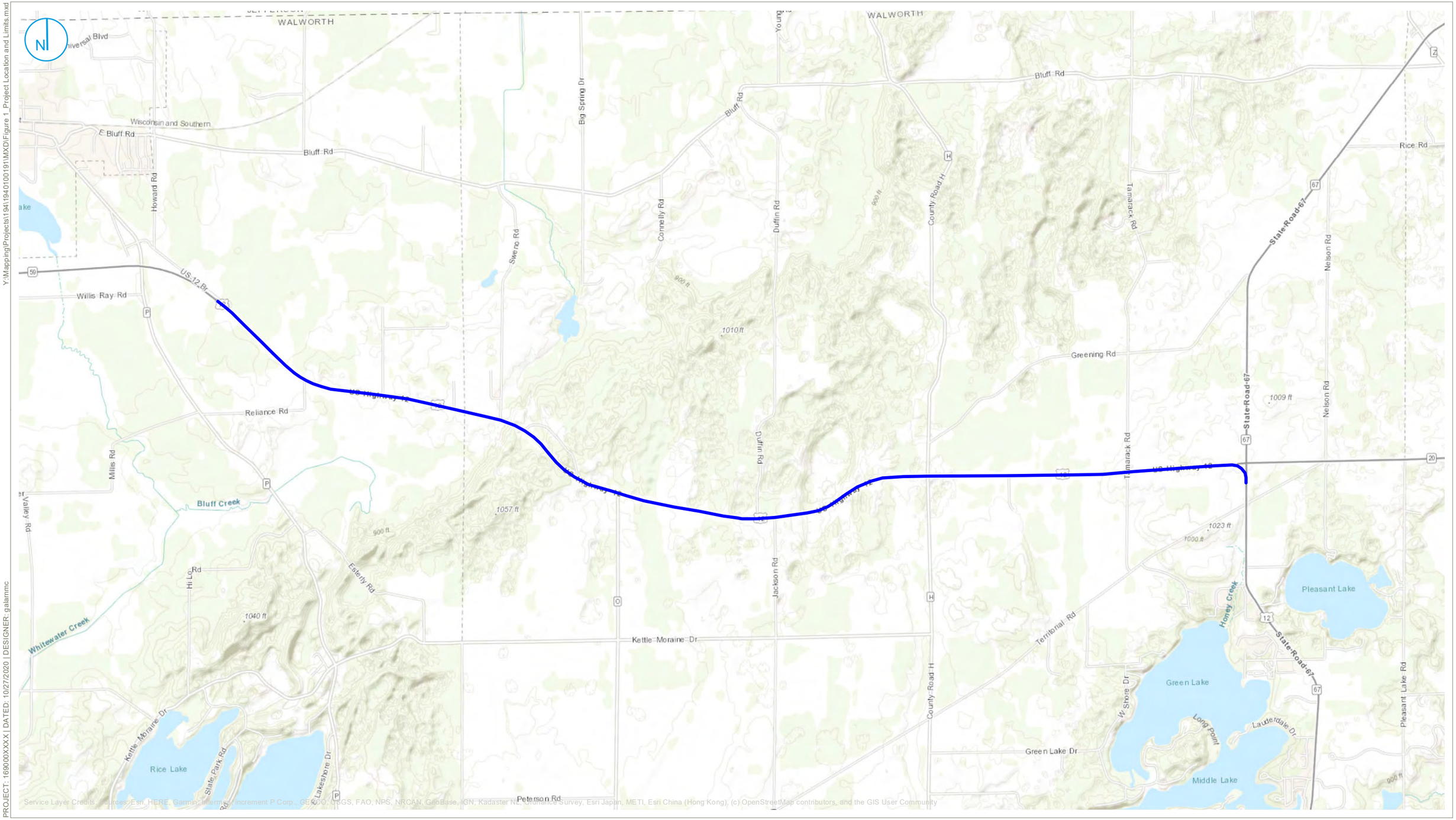
Table 1 - Potential Hazardous Materials Sites - Phase 1 Hazardous Materials Assessment
USH 12 (Cox Road to STH 20/67) Walworth County, Wisconsin - WisDOT Project ID #3130-03-01

			Other Data Resources									Reconnaissance		
Facility	Distance/Direction from Site	Database Listings	WDNR BRRTS #	WDNR File Reviewed?	Superfund Site Nearby?	Superfund Alternative Site Nearby?	Registered tanks on-site:	Sanborn Maps	Aerials	City Directories	WGNHS Well Logs	Site Visit & Photos	Current Occupant / Significant Observations	Recommendations
Verizon La Grange W7586 USH 12	Adjoining the project limits to the north	AST	NA	NA	No	No	One in use AST	No coverage	1940-2015: Farmstead	Not listed	Nearby Well Logs	5-Nov-20	Farmstead and communication tower	No further investigation or hazardous materials special provisions are recommended.
Johns Welding & Radiator W7296 USH 12	Adjoining the project limits to the north	SHWIMS	NA	NA	No	No	No	No coverage	1940: Vacant 1956-1985: Residence 1995-2015: Residence and structures	Not listed			Residence and lawncare service	No further investigation or hazardous materials special provisions are recommended.
Northern Natural Gas-Bluff Crk We Interconnect / Bluff Creek Gate Station W7295 USH 12	Adjoining the project limits to the south	RCRA-NONGEN, ECHO, FRS, SHWIMS, T2	NA	NA	No	No	No	No coverage	1940-1995: Vacant 2005-2015: Structure	Not listed			Pipeline facility	No further investigation or hazardous materials special provisions are recommended.
W6628 USH 12	Adjoining the project limits to the south	SPILLS, CRS	04-65-583255	Yes	No	No	No	No coverage	1940-2015: Farmstead	2008: Residence			Farmstead	No further investigation or hazardous materials special provisions are recommended.
La Grange Asphalt Plant - C10 W6615 USH 12	Adjoining the project limits to the south	T2	NA	NA	No	No	No	No coverage	1940-1985: Mostly vacant with land disturbance in the southern portion 1995-2015: Apparent gravel pit	Not listed			Gravel pit and asphalt plant	No further investigation or hazardous materials special provisions are recommended.
La Grange General Store W6098 USH 12	Adjoining the project limits to the south	ECHO, FRS	NA	NA	No	No	No	No coverage	1940-1985: Structure 1995-2015: Present day structure	2008: Commercial business			Commercial business	**A Phase 2/2.5 Subsurface Investigation is recommended if excavation activities or property acquisition are required in the vicinity of the site.**
Darrs Service W6071 USH 12	Adjoining the project limits to the south	UST, HIST UST	NA	NA	No	No	Two in use ASTs Three closed/removed USTs	No coverage	1940-1963: Structure 1975-2015: Present day structure	2008: Service station and transport company			Vacant building	**A Phase 2/2.5 Subsurface Investigation is recommended if excavation activities or property acquisition are required in the vicinity of the site.**
Sylvester Obremski W5890 USH 12	Adjoining the project limits to the north	UST, HIST UST	NA	NA	No	No	One closed/removed UST	No coverage	1940-2015: Farmstead	2008: Residence			Farmstead	No further investigation or hazardous materials special provisions are recommended.

Figures

Y:\Mapping\Projects\194194010019\1MXD\Figure 1_Project Location and Limits.mxd

PROJECT: 169000XXXX | DATED: 10/27/2020 | DESIGNER: galammc



PROJECT LIMITS

0 1,500 3,000 Feet

PROJECT LOCATION AND LIMIT

USH 12 (COX ROAD TO STH 20/67)
WISDOT PROJECT ID 3130-03-01
WALWORTH COUNTY, WISCONSIN

FIGURE 1

RAMBOLL US CORPORATION
A RAMBOLL COMPANY

RAMBOLL

Y:\Mapping\Projects\194194010019\MXD\Figure 2-5_Phase I HMA Findings.mxd



PROJECT: 1690000XXXX | DATED: 10/27/2020 | DESIGNER: galammc

PROJECT LIMITS

0 300 600 Feet

PHASE I HAZARDOUS MATERIALS ASSESSMENT

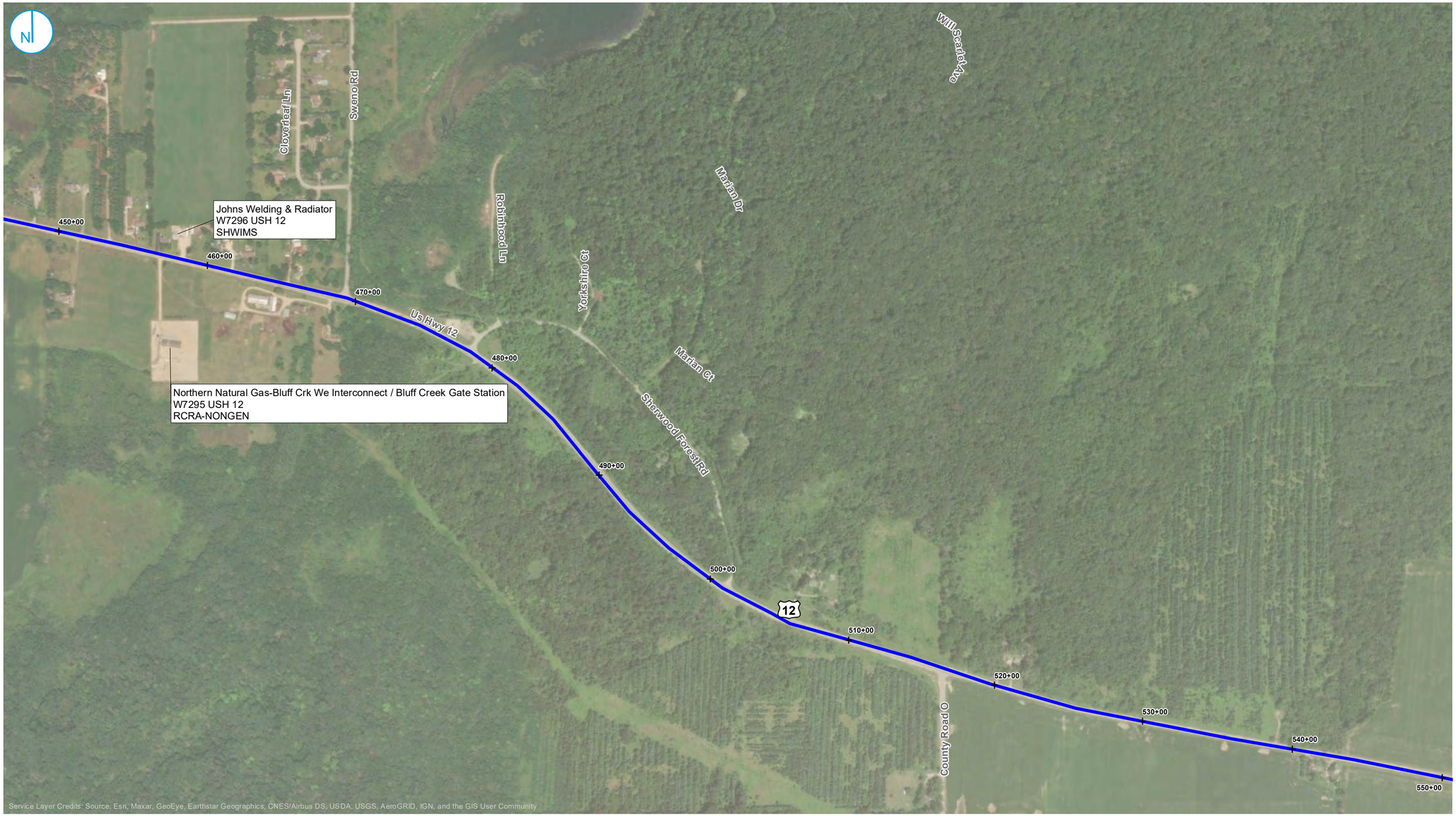
USH 12 (COX ROAD TO STH 20/67)
WISDOT PROJECT ID 3130-03-01
WALWORTH COUNTY, WISCONSIN

FIGURE 2

RAMBOLL US CORPORATION
A RAMBOLL COMPANY

RAMBOLL

Y:\Mapping\Projects\194194010019\MXD\Figure 2-5_Phase I HMA Findings.mxd



PROJECT: 169000XXXX | DATED: 10/27/2020 | DESIGNER: galammc

PROJECT LIMITS

0 300 600 Feet

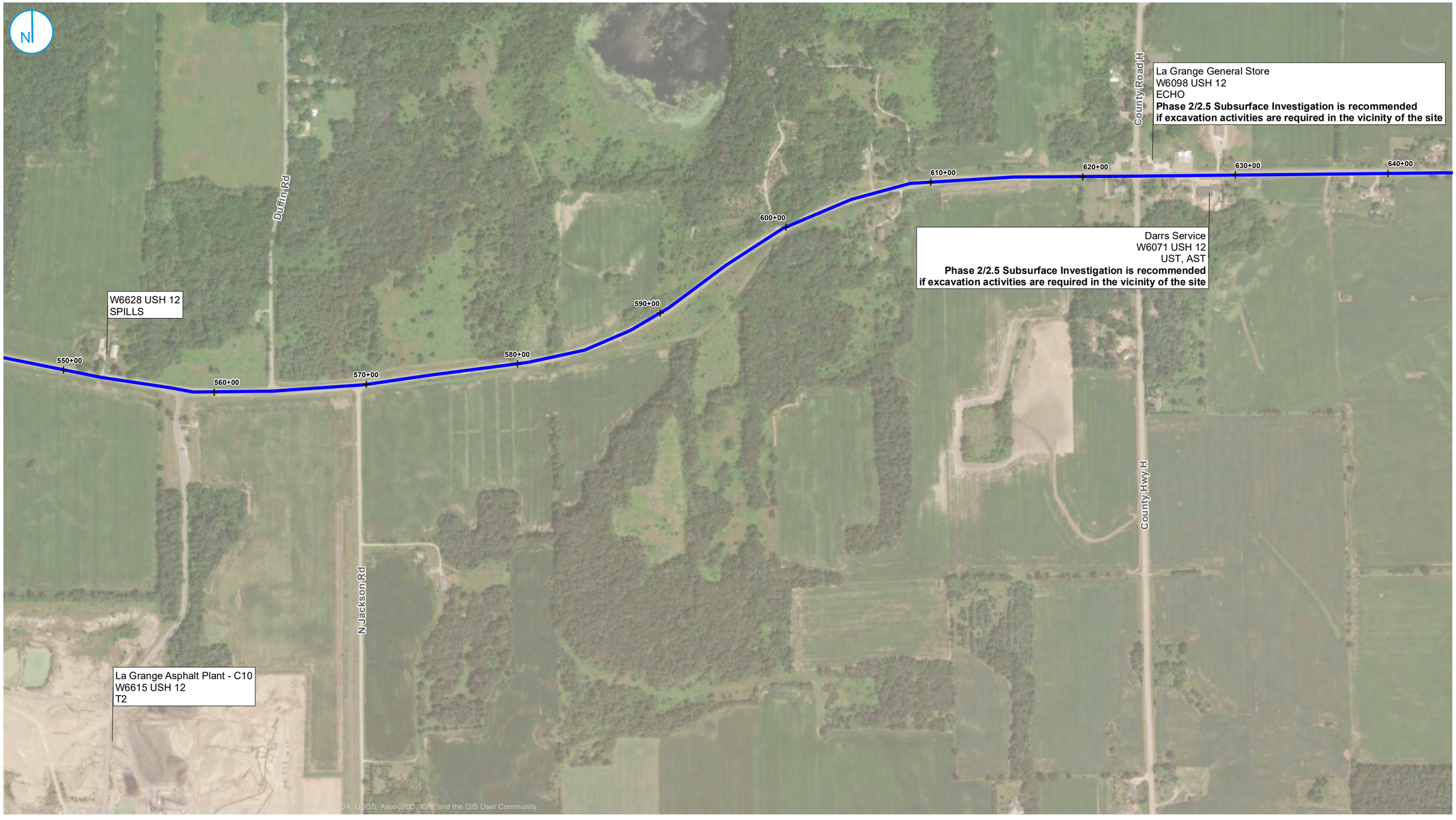
PHASE I HAZARDOUS MATERIALS ASSESSMENT

USH 12 (COX ROAD TO STH 20/67)
WISDOT PROJECT ID 3130-03-01
WALWORTH COUNTY, WISCONSIN

FIGURE 3

RAMBOLL US CORPORATION
A RAMBOLL COMPANY

RAMBOLL



Y:\Mapping\Projects\194194010019\MXD\Figure 2-5_Phase I HMA Findings.mxd

PROJECT: 169000XXXX | DATED: 10/27/2020 | DESIGNER: galammc

PROJECT LIMITS

0 300 600 Feet

PHASE I HAZARDOUS MATERIALS ASSESSMENT

USH 12 (COX ROAD TO STH 20/67)
WISDOT PROJECT ID 3130-03-01
WALWORTH COUNTY, WISCONSIN

FIGURE 4

RAMBOLL US CORPORATION
A RAMBOLL COMPANY

RAMBOLL

Y:\Mapping\Projects\194194010019\1\MXD\Figure 2-5_Phase I HMA Findings.mxd



PROJECT: 169000XXXX | DATED: 10/27/2020 | DESIGNER: galammc

PROJECT LIMITS

0 300 600 Feet

PHASE I HAZARDOUS MATERIALS ASSESSMENT

USH 12 (COX ROAD TO STH 20/67)
WISDOT PROJECT ID 3130-03-01
WALWORTH COUNTY, WISCONSIN

FIGURE 5

RAMBOLL US CORPORATION
A RAMBOLL COMPANY

RAMBOLL

Appendix A

Historical Information

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WISCONSIN
WHITEWATER SHEET

(Waterloo) (Watertown) (Oconomowoc)

88°45' 43° R.15 E. 40' R 16 E 35' R.17 E. 88°30' 43°

T.6 N. T.5 N. T.4 N.

(Koshkonong) (Eagle) (Shopiere) (Delavan) (Lake Geneva)

JEFFERSON
REBECCA
SULLIVAN
OTTAWA
COLD SPRING
PALMYRA
WHITEWATER
LAGRANGE
RICHMOND
SUGAR CREEK
FAYETTE

Rome
Heaths Mills
Hebron
Oak Hill
Palmyra
Spring Lake
Whitewater
Little Prairie
Swift Lake
County Lake
Lagrange
Adams
Pleasant Lake
Lauderdale
Lauderdale Lakes
Heart Prairie
Whitewater Lake
Bass Lake

BARK RIVER
SCUPPERNONG RIVER
TURTLE CREEK
MILWAUKEE AND ST PAUL
CHICAGO
BOUNDARY LINE
JEFFERSON CO
WAUKESHA CO
WALWORTH CO

Henry Gannett. Chief Topographer.
Jno. H. Renshawe, Geographer in charge.
Triangulation by the U.S. Coast and Geodetic and Lake Surveys.
Topography by Van. H. Manning Jr.
Surveyed in 1889
Revised in 1903 by H.L. McDonald.

SCALE 1:62500

1 0 1 2 3 4 MILES
3000 0 3000 6000 9000 12000 15000 18000 21000 FEET
1 .5 0 1 2 3 4 5 KILOMETERS

CONTOUR INTERVAL 20 FEET

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—1959

Polyconic projection
Surveyed by reconnaissance methods

WHITEWATER, WIS.
N4245-W8830/15
1903

FOR SALE BY U. S. GEOLOGICAL SURVEY, WASHINGTON 25, D. C.
AND BY THE WISCONSIN GEOLOGICAL AND NATURAL HISTORY SURVEY, MADISON 6, WISCONSIN
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

MAP AND AIR PHOTO LIBRARY
University of Wisconsin

FOR LIBRARY USE
ONLY

1903
Copy
1-1

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WHITEWATER QUADRANGLE
WISCONSIN
15 MINUTE SERIES (TOPOGRAPHIC)

88°45' — 43°00' — 88°30' — 43°00'

358000m E. — 4761000m N. — 2 390 000 FEET — 360 000 FEET

R. 15 E. — R. 16 E. — R. 17 E. — T. 6 N. — T. 5 N. — T. 4 N. — T. 3 N.

(WATERLOO) — (WATERTOWN) — (HARTLAND) — (SHOPIERE) — (DELAVAN) — (LAKE GENEVA) — (FORT ATKINSON) — (EAGLE)

0.8 MI. TO U.S. 18 — WATERTOWN 20 MI. (VIA U.S. 16) SULLIVAN 1.2 MI. — 18 MI. TO U.S. 51 FORT ATKINSON 5.1 MI. — 1.7 MI. TO WIS. 67 — 1.6 MI. TO WIS. 67 — JEFFERSON 3.9 MI. — COLD SPRING 1.2 MI. — FORT ATKINSON (CH.) 5.2 MI. — MADISON 46 MI. FORT ATKINSON (CH.) 8.2 MI. — JANESVILLE 19 MI. MILTON 11 MI. — EAGLE 1.6 MI. WAUKESHA (P.O.) 23 MI. — EAGLE 2.4 MI. OCONOMOWOC 21 MI. — TROY CENTER 2.6 MI. — EAST TROY 5.2 MI. WATERFORD 16 MI. — DELAVAN 10 MI. — TIBBETTS 1.2 MI. — ELKHORN 5.4 MI. LAKE GENEVA 10 MI.

JEFFERSON CO. WAUKESHA CO. — JEFFERSON CO. WALWORTH CO. — WALWORTH CO.

J E F F E R S O N — S U L L I V A N — O T T A W A — H E B R O N — C O L D S P R I N G S — P A L M Y R A — E A G L E — W H I T E W A T E R — L A G R A N G E — T R O Y — R I C H M O N D — S U G A R C R E E K — L A F A Y E T T E

K E T T L E M O R A I N E S T A T E F O R E S T

Rome — Heath Mills — Slabtown — Hebron — Oak Hill — Palmyra — Spring Lake — Upper Spring Lake — WHITEWATER (BM 872) — Lake La Grange — Little Prairie — Swift Lake — Peters Lake — Adams — La Grange — Heart Prairie — Lauderdale Lakes — Lauderdale — Rice Lake — Whitewater Lake — Green Lake — Middle Lake — Mill Lake — Long Point — Deakin Island — Don Jean Bay — Pleasant Lake — Blue Spring Lake — Green Isle Lake — Tripp Lake — Crandall Lake — Hillside Cem — Riverview Cem — Slabtonan Pond — Cushman Pond — Rome Pond — Bark River — Whitewater Creek — Duck Creek — Cushman Creek — Spring Creek — Steel Creek — Bluff Creek — Honey Creek — Scuppernong River — Mud Creek — Brook — Lake Creek — Spring Brook — Crandall Brook — Hoffman Cem — Duck Creek Sch — Wrights Mill Sch — Cushman Cem — Cushman Mill Sch — Gravel Pits — Munroe Cem — McLery Cem — Hebron Cem — Siloam Chapel Cem — Zion Cem — Melindas Prairie Cem — Round Prairie Cem — St Brunos Ch — School Section Lake — Betty Lake — Pleasant Valley Sch — Pumping Station — Princess Point Bridge — Stone Sch — Corner Grove Sch — St Marys Cem — Palmyra Airport — Sewage Disposal — St Theresa Cem — Battle Creek Sch — Radio Tower — Skoponong Cem — Flowing Well — Fish Hatchery — Calvary Cem — Sewage Disposal — Gravel Pit — Wisconsin State College — East Side Sch — Central Sch — West Side Sch — PO — Roadside Park — Bird Sch — South Heart Prairie Sch — Lakeview Sch — Lyons Cem — Water — C M ST P & P — MILWAUKEE ROAD — CHICAGO — ST PAUL AND PACIFIC — TRANSMISSION LINE — FOREST — STATE — MORAINE

BM 853 — BM 837 — BM 839 — BM 838 — BM 790 — BM 813 — BM 956 — BM 858 — BM 852 — BM 972 — BM 946 — BM 983 — BM 986 — BM 982 — BM 966 — BM 792 — BM 802 — BM 880 — LM 955

Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1955. Field checked 1960

Polyconic projection. 1927 North American datum
10,000-foot grid based on Wisconsin coordinate system, south zone
1000-meter Universal Transverse Mercator grid ticks,
zone 16, shown in blue

Red tint indicates areas in which only landmark buildings are shown

Certain land lines unsurveyed in Tps. 5 N.–R. 15 and 16 E.

APPROXIMATE MEAN DECLINATION, 1960 — TRUE NORTH — MAGNETIC NORTH — 2°

SCALE 1:62500

1 0 1 2 3 4 MILES
3000 0 3000 6000 9000 12000 15000 18000 21000 FEET
1 5 0 1 2 3 4 5 KILOMETERS

CONTOUR INTERVAL 20 FEET
DOTTED LINES REPRESENT 10-FOOT CONTOURS
DATUM IS MEAN SEA LEVEL

ROAD CLASSIFICATION

Heavy-duty	Light-duty
Medium-duty	Unimproved dirt
U.S. Route	State Route

WISCONSIN — QUADRANGLE LOCATION

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, WASHINGTON 25, D. C.
AND BY THE WISCONSIN GEOLOGICAL AND NATURAL HISTORY SURVEY, MADISON 6, WISCONSIN
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—1963—1
MR 6302

WHITEWATER, WIS.
N4245—W8830/15
1960

FEB - 5 1963

15,300

U. S. G. S.
FILE COPY
Inspection and Editing.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WISCONSIN
WHITEWATER SHEET

(Waterloo) (Watertown) (Oconomowoc)
(Koshkonong) (Eagle)
(Shopiere) (Delavan) (Lake Geneva)

88°45' 43° R.15 E. 40' R 16 E 35' R.17 E. 88°30' 43°

T.6 N. T.5 N. T.4 N.

JEFFERSON
HEBRON
SULLIVAN
OTTAWA
COLD SPRING
PALMYRA
EAGLE
WHITEWATER
LAGRANGE
RICHMOND
SUGAR CREEK
FAYETTE

Rome
Hearths Mills
Oak Hill
Hebron
Palmyra
Spring Lake
Whitewater
Little Prairie
Swift Lake
County Lake
Lagrange
Adains
Pleasant Lake
Lauderdale
Lauderdale Lakes
Heart Prairie
Bass Lake
Whitewater Lake

BARK RIVER
RIVER
BARK
CUPPERNONG
RIVER
Whitewater Creek
Creek

BOUNDARY LINE
JEFFERSON CO
WAUKESHA CO
WALWORTH CO

MILWAUKEE AND ST PAUL
CHICAGO

Henry Gannett, Chief Topographer.
Jno. H. Renshawe, Geographer in charge.
Triangulation by the U.S. Coast and Geodetic and Lake Surveys.
Topography by Van. H. Manning Jr.
Surveyed in 1889
Revised in 1903 by H.L. McDonald.

Scale 1/62500
1 0 1 2 3 4 Miles
1000 500 0 1000 2000 3000 4000 5000 6000 7000 Yards
1000 0 3000 6000 9000 12000 15000 18000 Feet
1 .5 0 1 2 3 4 5 Kilometers
Contour interval 20 feet

Polyconic projection
Surveyed by reconnaissance methods

WHITEWATER, WIS.
Edition of 1924
reprinted 1950
N4245-W8830/15

FOR SALE BY U. S. GEOLOGICAL SURVEY, WASHINGTON 25, D. C
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

U. S. G. S.
FILE COPY
Inspection and Editing.
SEP 11 1950
3235



1940

WALWORTH COUNTY, WISCONSIN

0 235 470 940 1,410 1,880 2,350 Feet

1 inch = 750 feet

Geodetic North
Grid North

Author:

Map Produced on: 10/21/2020

Wisconsin State Plane Coordinate System, South Zone
Horizontal Datum: NAD83-2011

Walworth County Information Technology Department
Land Information Division
1800 County Trunk NN
Elkhorn, Wisconsin 53121-1001

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1956

WALWORTH COUNTY, WISCONSIN

0 235 470 940 1,410 1,880 2,350

Feet

1 inch = 750 feet

Geodetic North

Grid North

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1963

WALWORTH COUNTY, WISCONSIN

0 235 470 940 1,410 1,880 2,350 Feet

1 inch = 750 feet

Geodetic North / Grid North

Author:

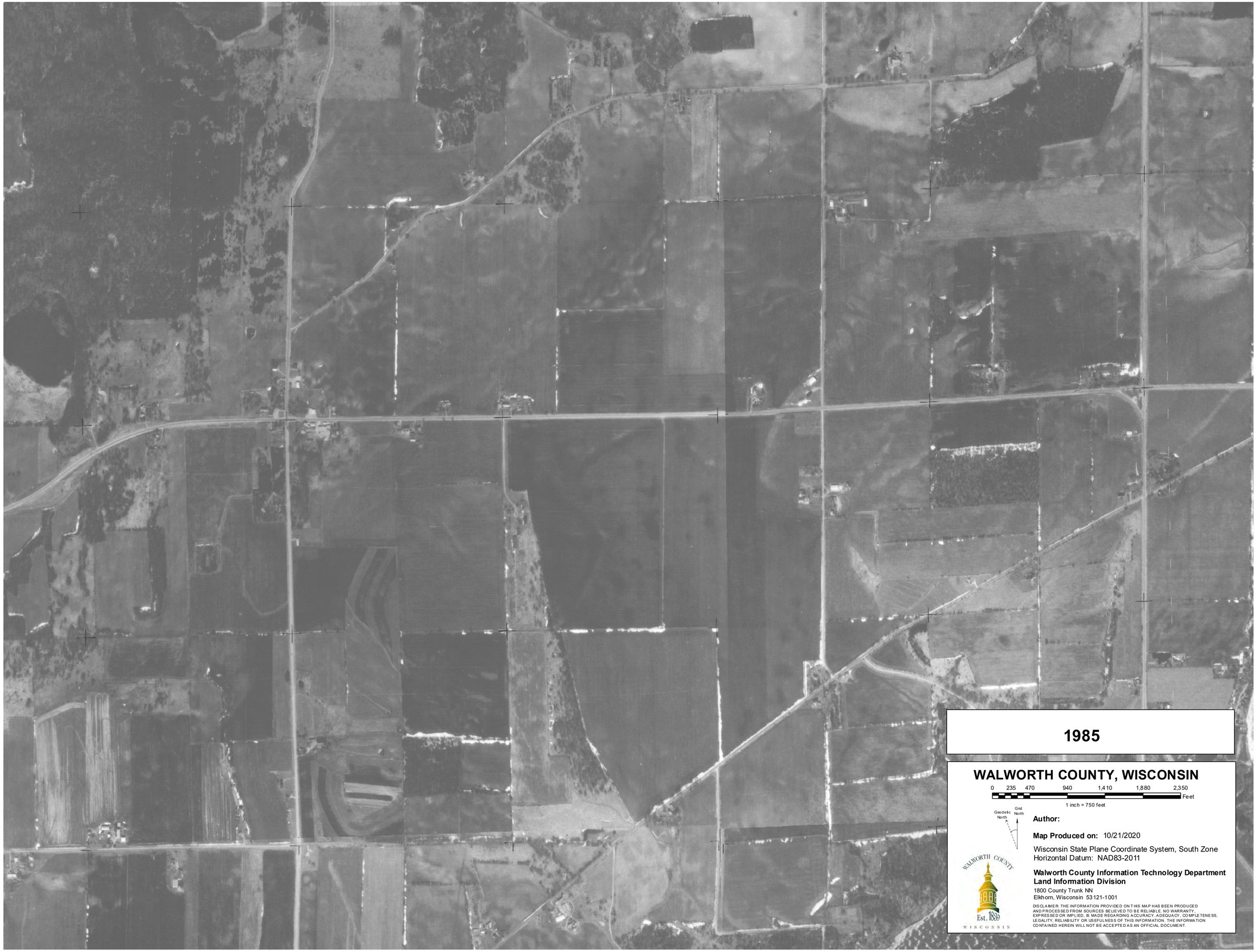
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1975
WALWORTH COUNTY, WISCONSIN
0 235 470 940 1,410 1,880 2,350
Feet
1 inch = 750 feet
Geodetic North
Grid North
Author:
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WALWORTH COUNTY
Est. 1839
WISCONSIN



1985

WALWORTH COUNTY, WISCONSIN

0 235 470 940 1,410 1,880 2,350 Feet

1 inch = 750 feet

Geodetic North / Grid North

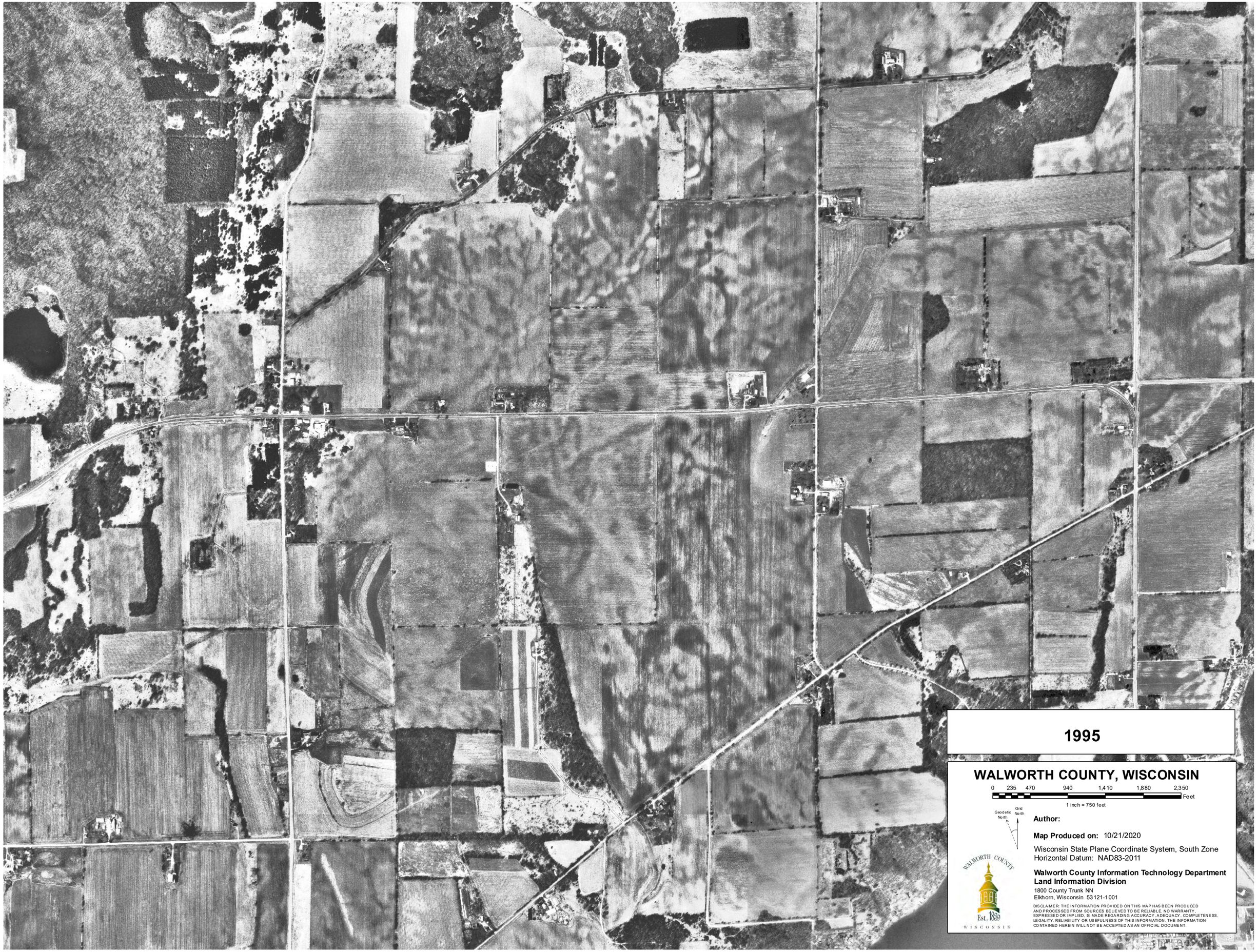
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1995

WALWORTH COUNTY, WISCONSIN

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1 inch = 750 feet

Geodetic North

Grid North

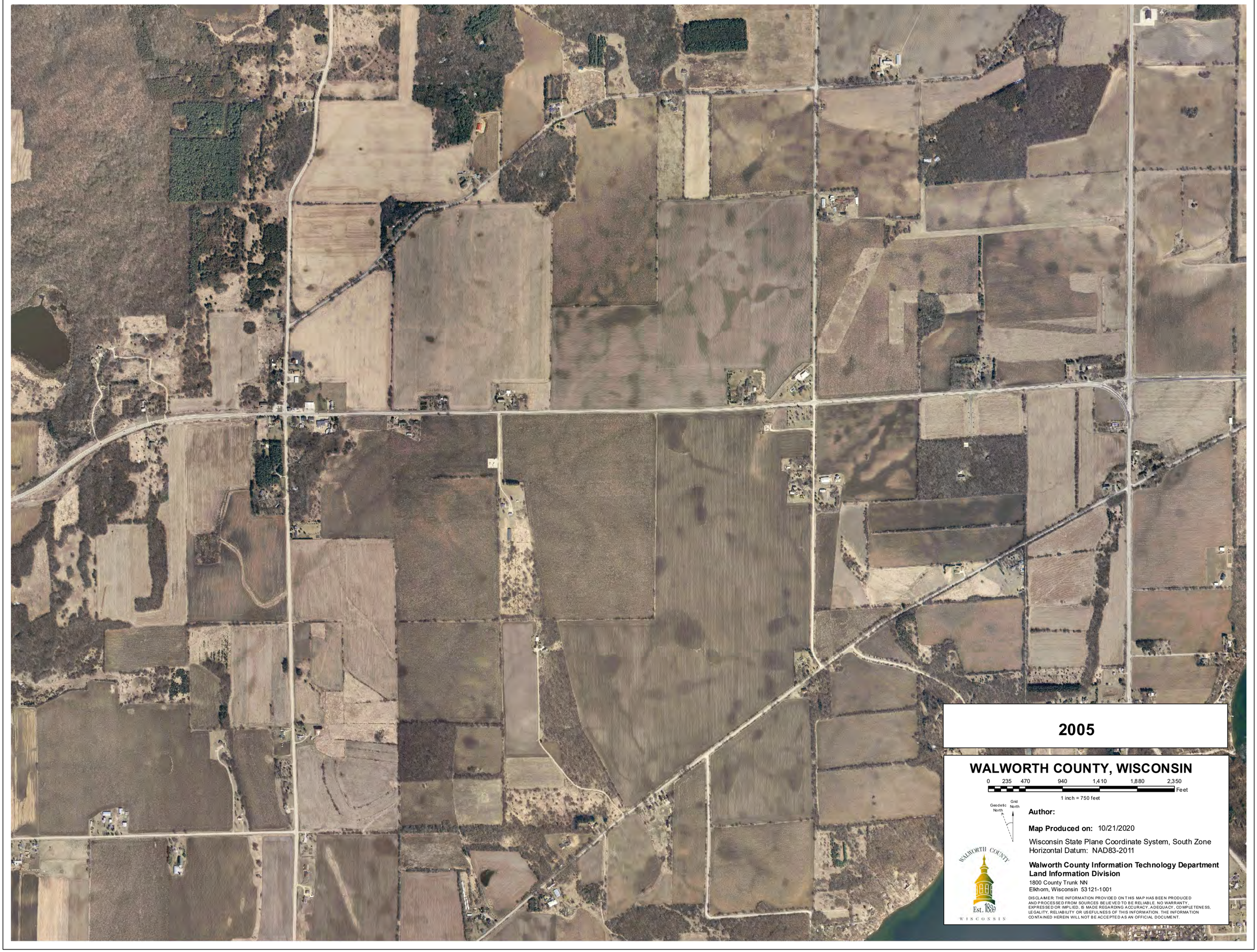
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2005

WALWORTH COUNTY, WISCONSIN

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Geodetic North / Grid North

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2015

WALWORTH COUNTY, WISCONSIN

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1 inch = 750 feet

Geodetic North

Grid North

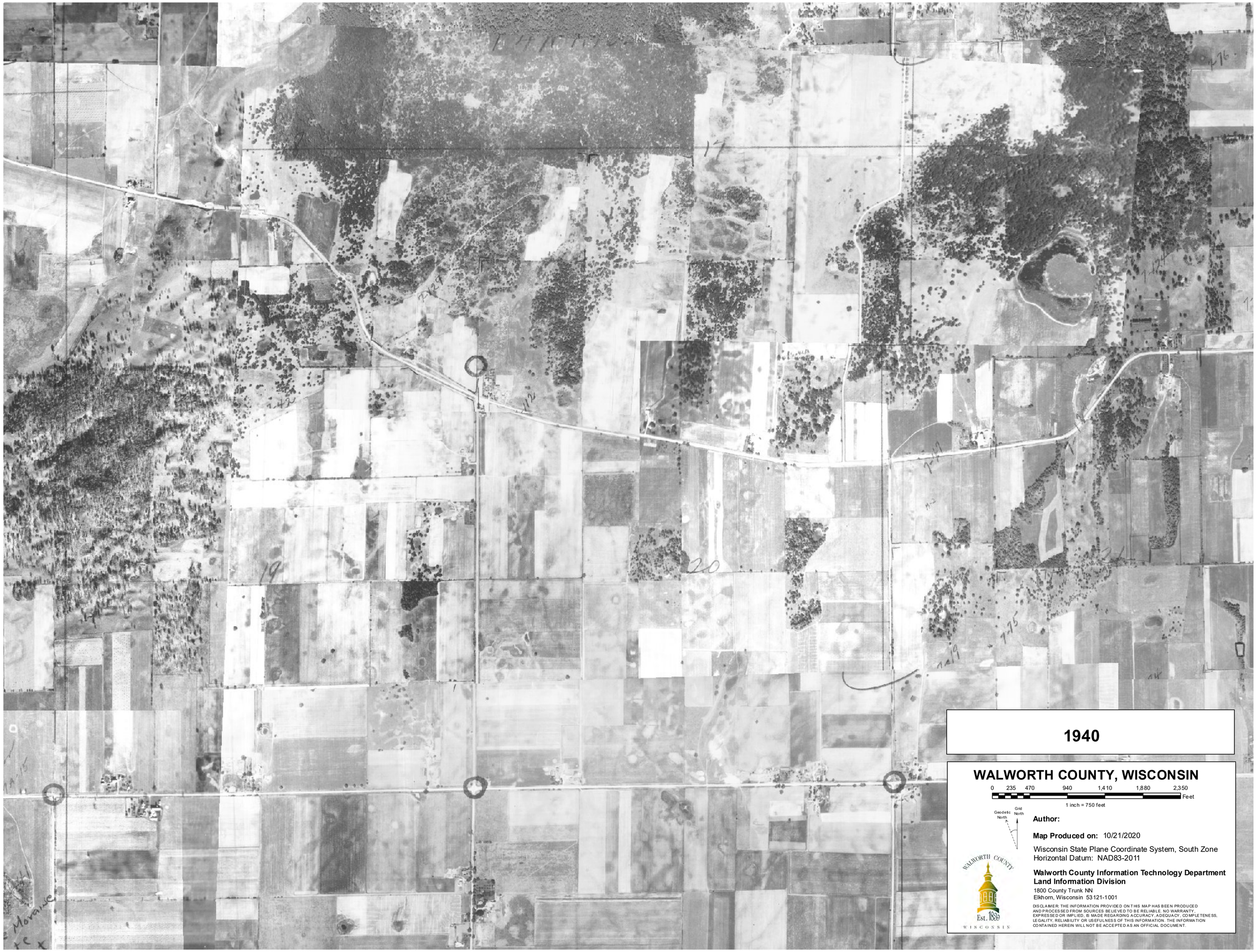
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1940

WALWORTH COUNTY, WISCONSIN

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Geodetic North

Grid North

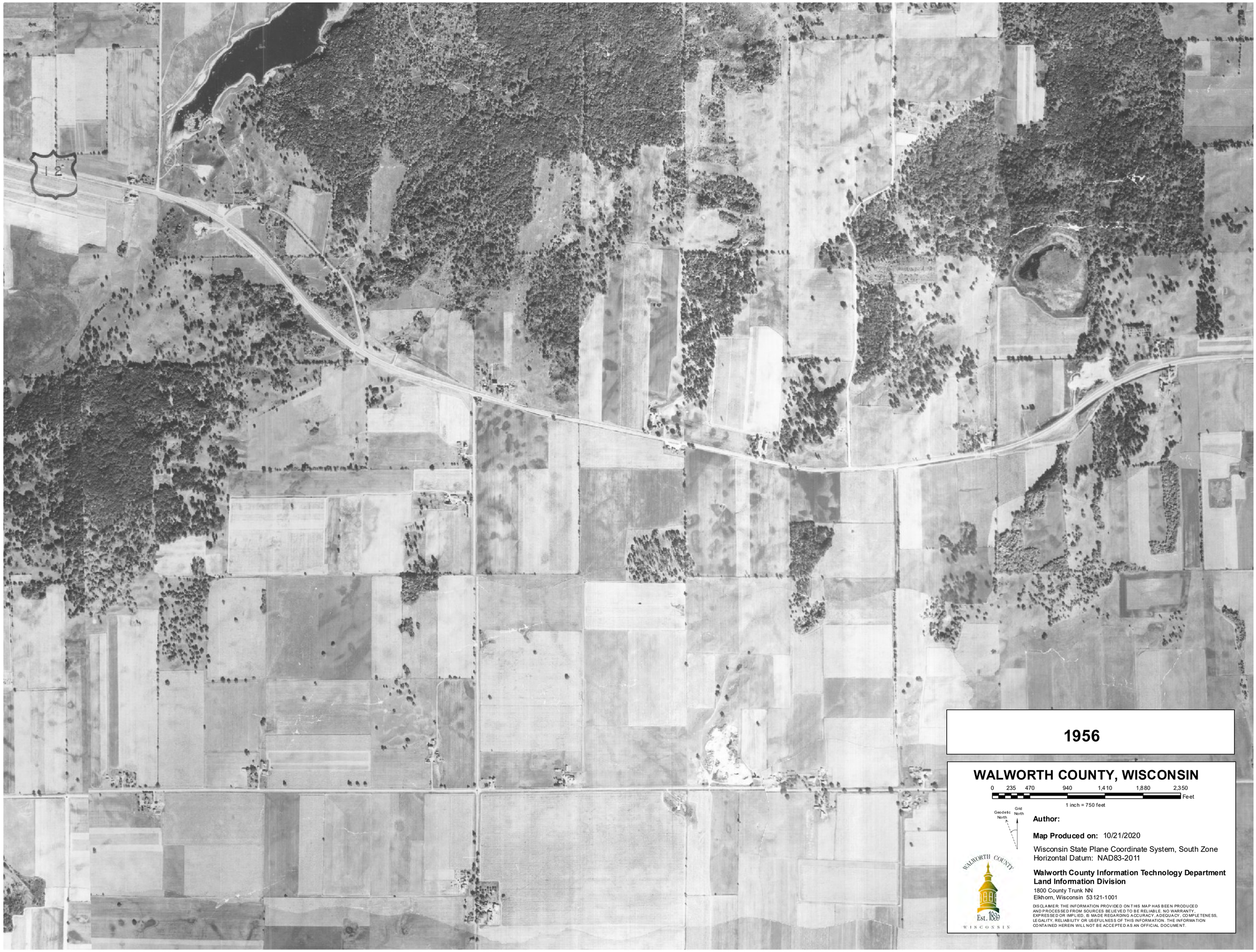
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1956

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Geodetic North

Grid North

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1963

WALWORTH COUNTY, WISCONSIN

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Geodetic North

Grid North

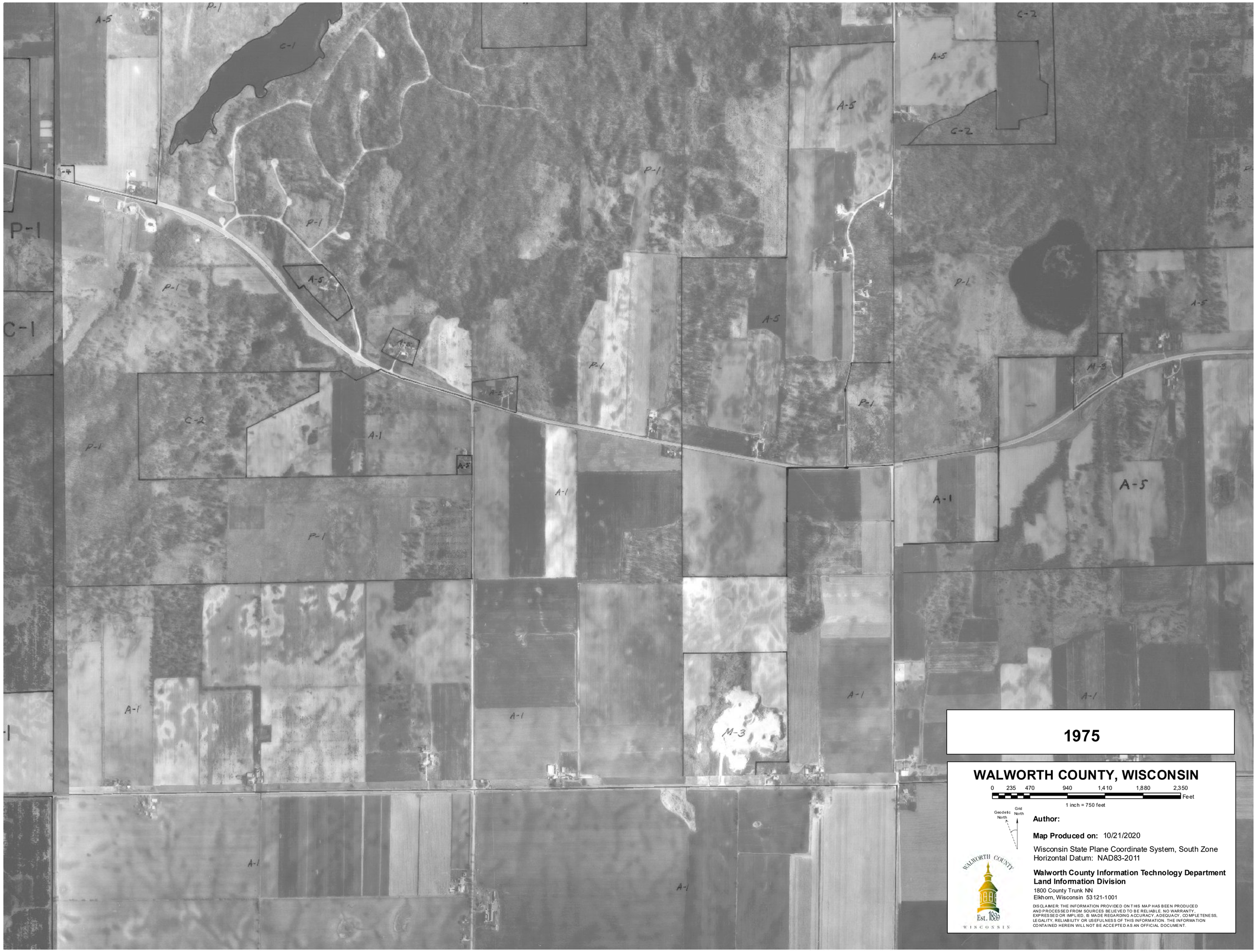
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1975

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Geodetic North / Grid North

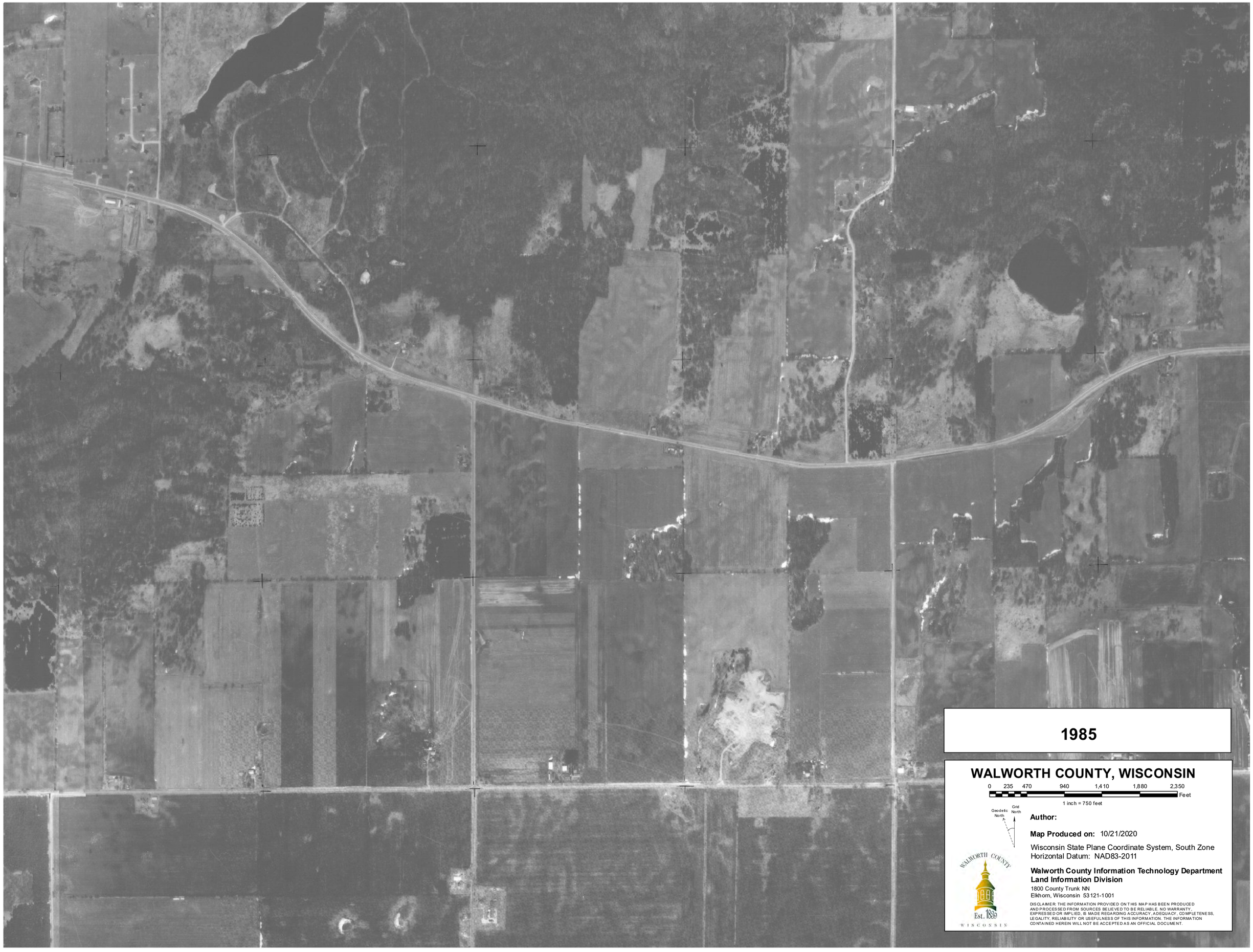
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1985

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Geodetic North

Grid North

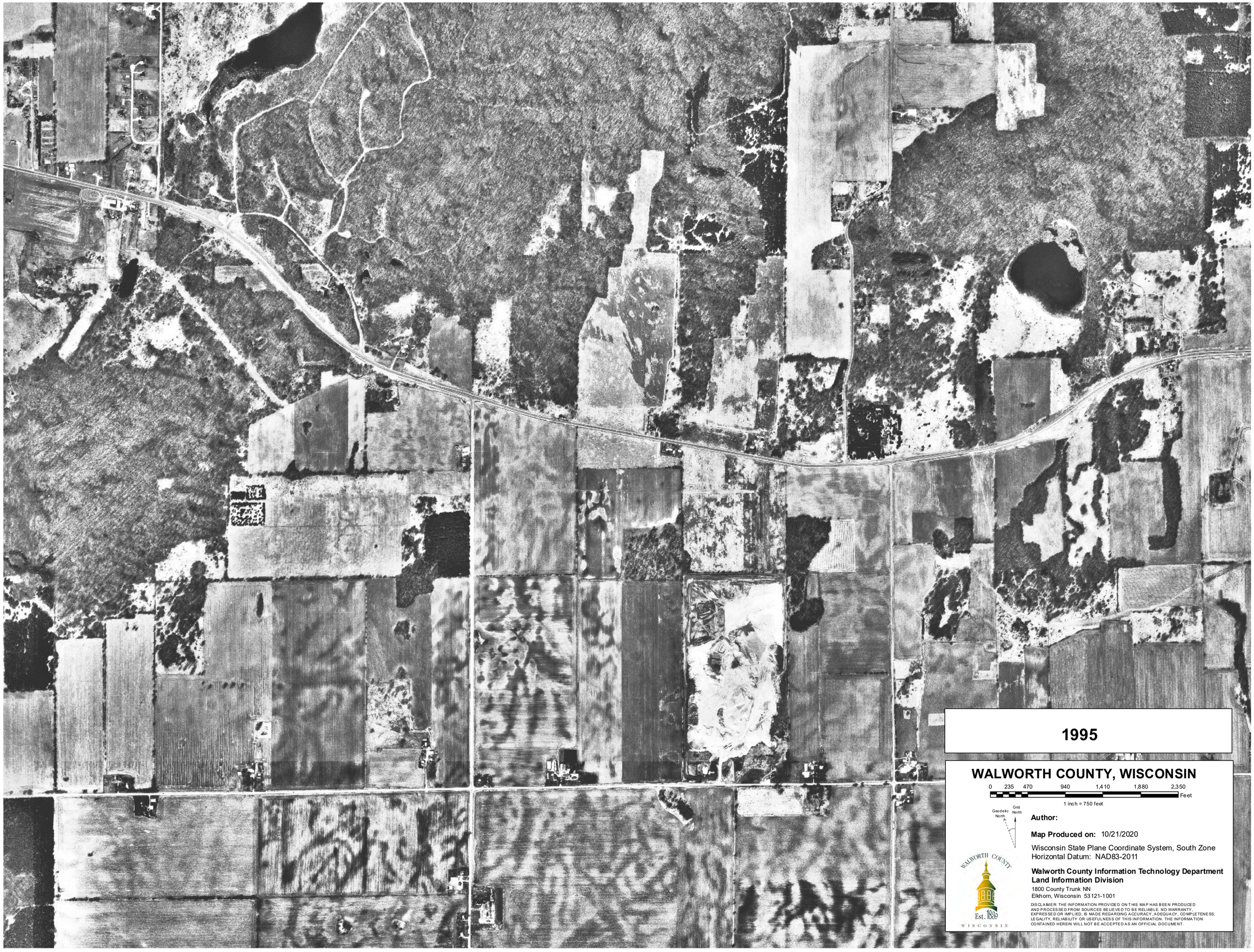
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1995

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Geodetic North / Grid North

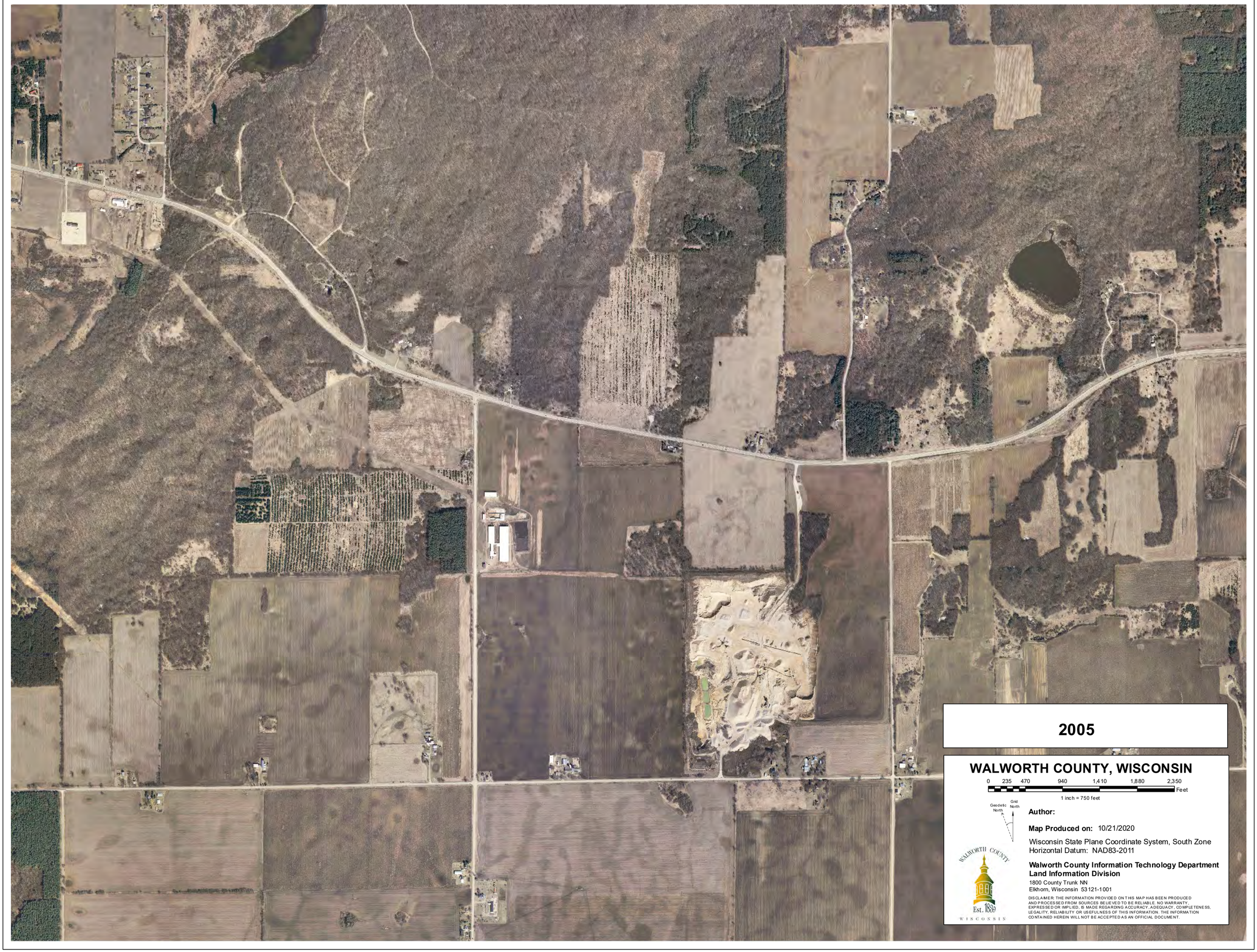
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2005

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Geodetic North

Grid North

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2015

WALWORTH COUNTY, WISCONSIN

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Geodetic North / Grid North

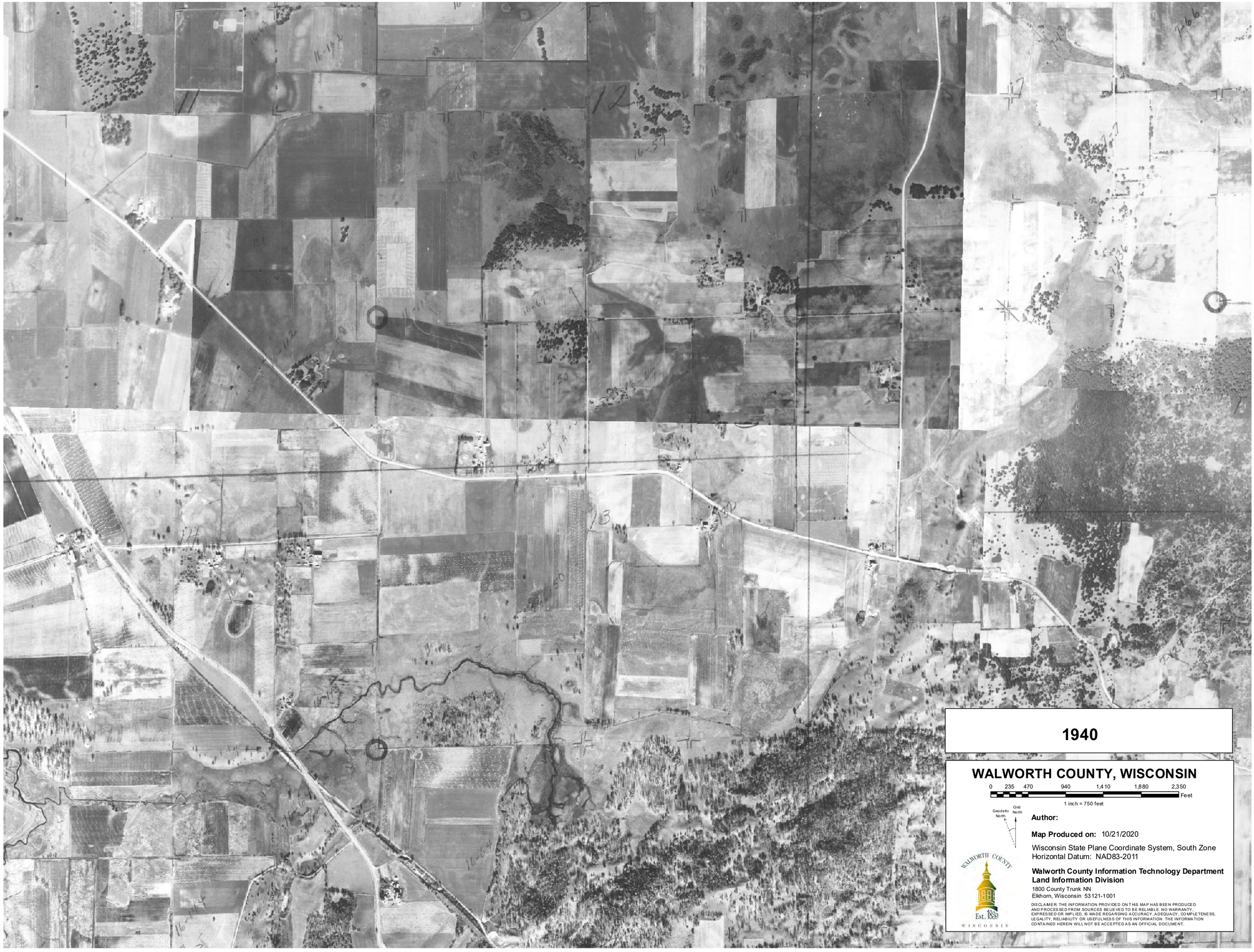
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1940

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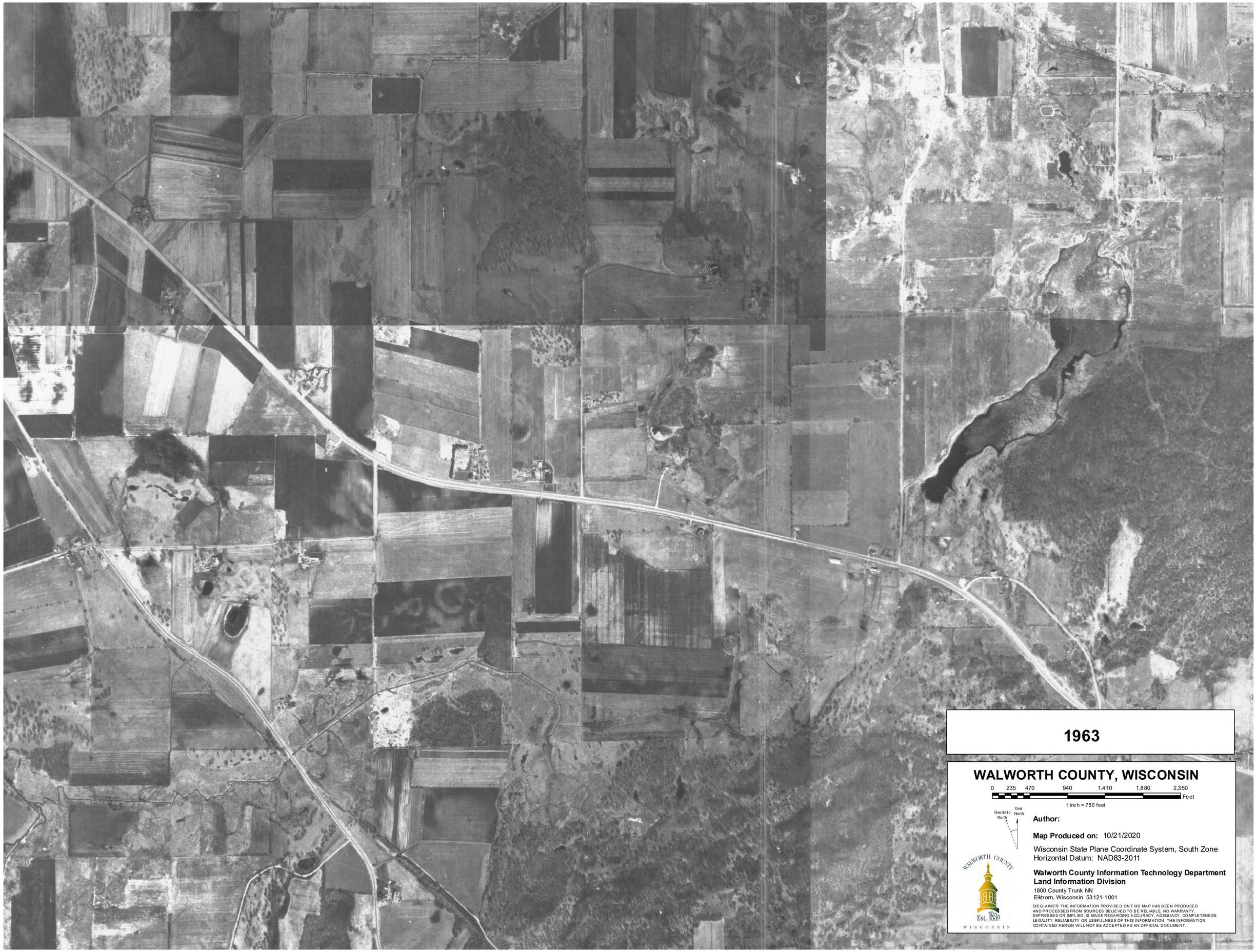
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1963

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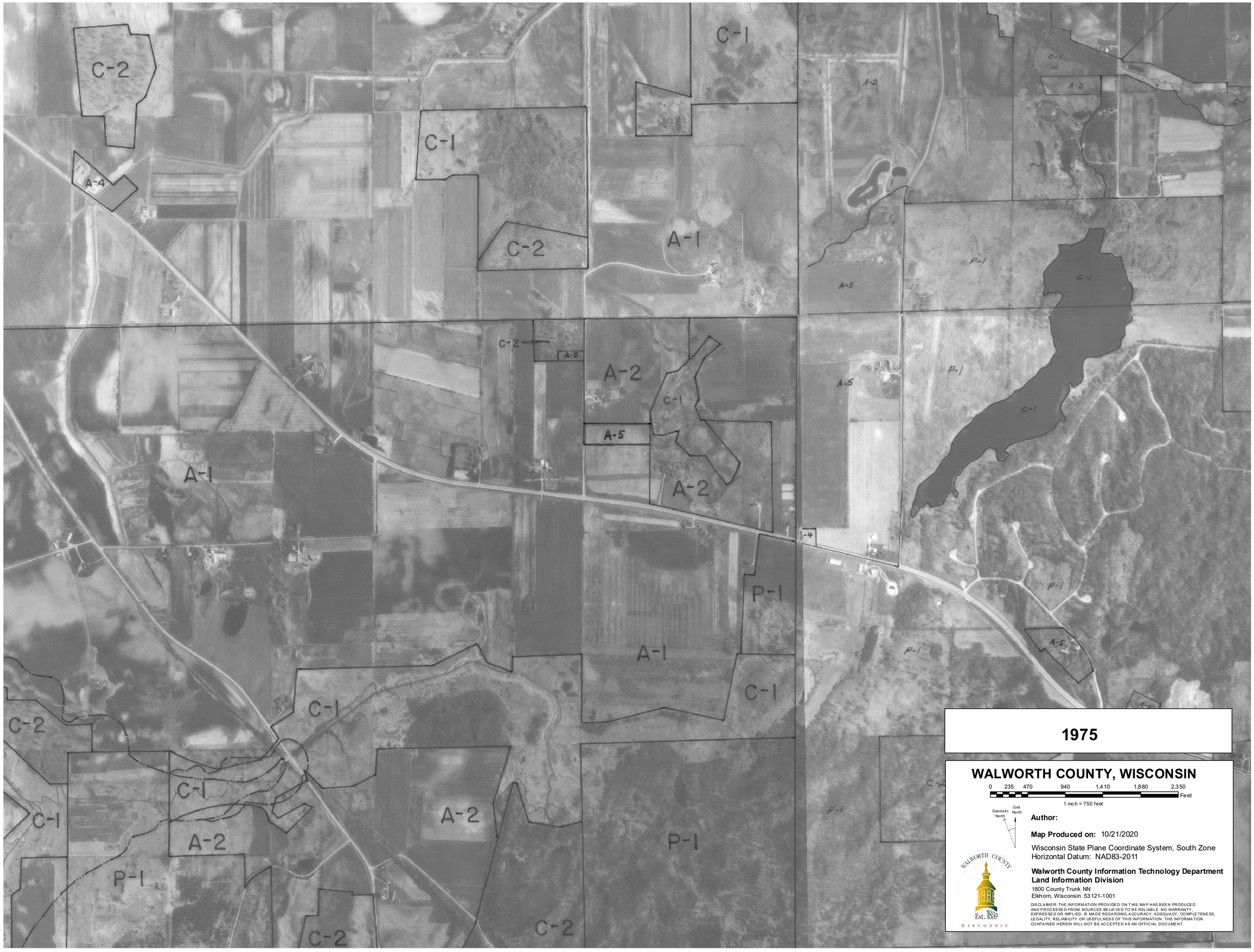
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1975

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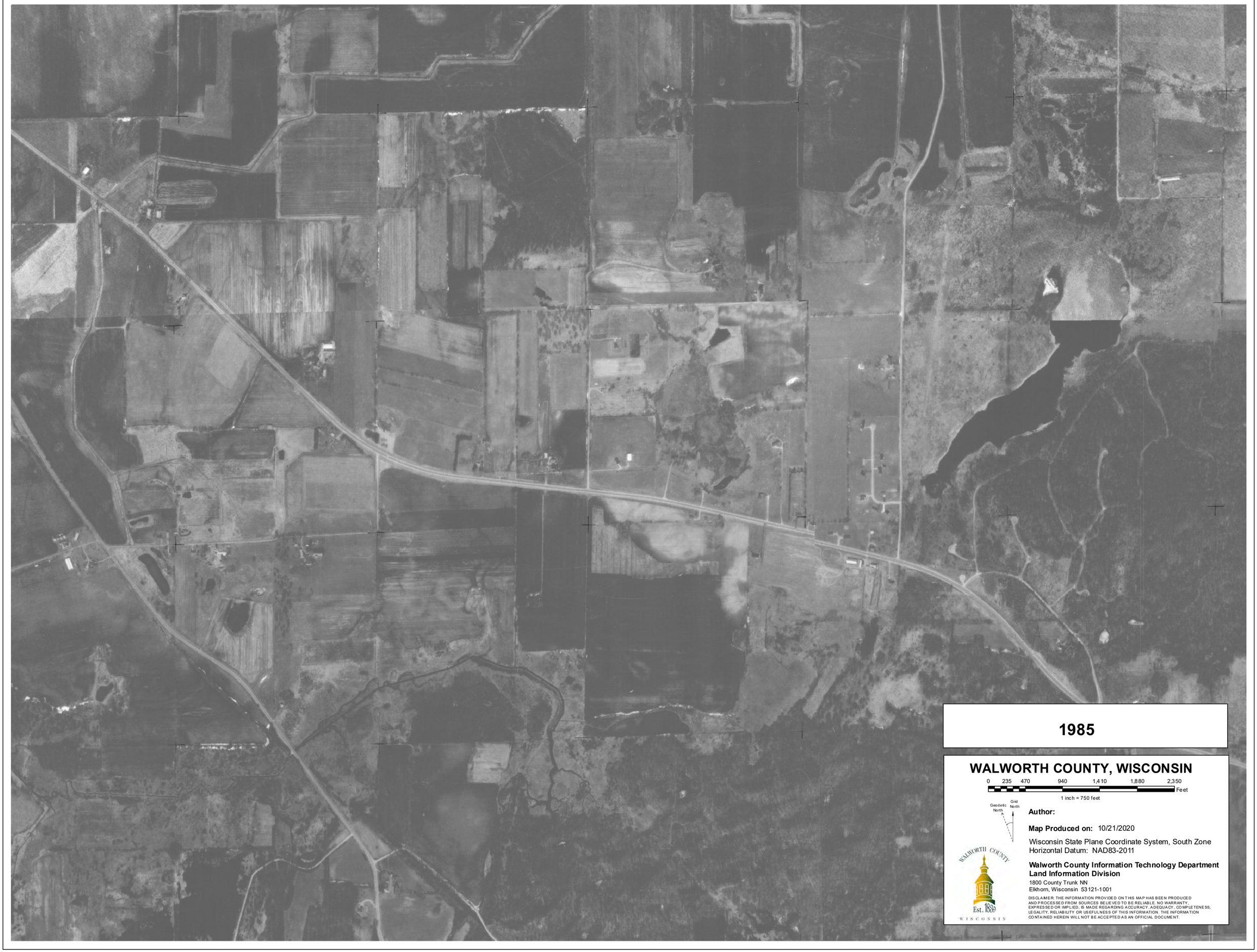
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1985

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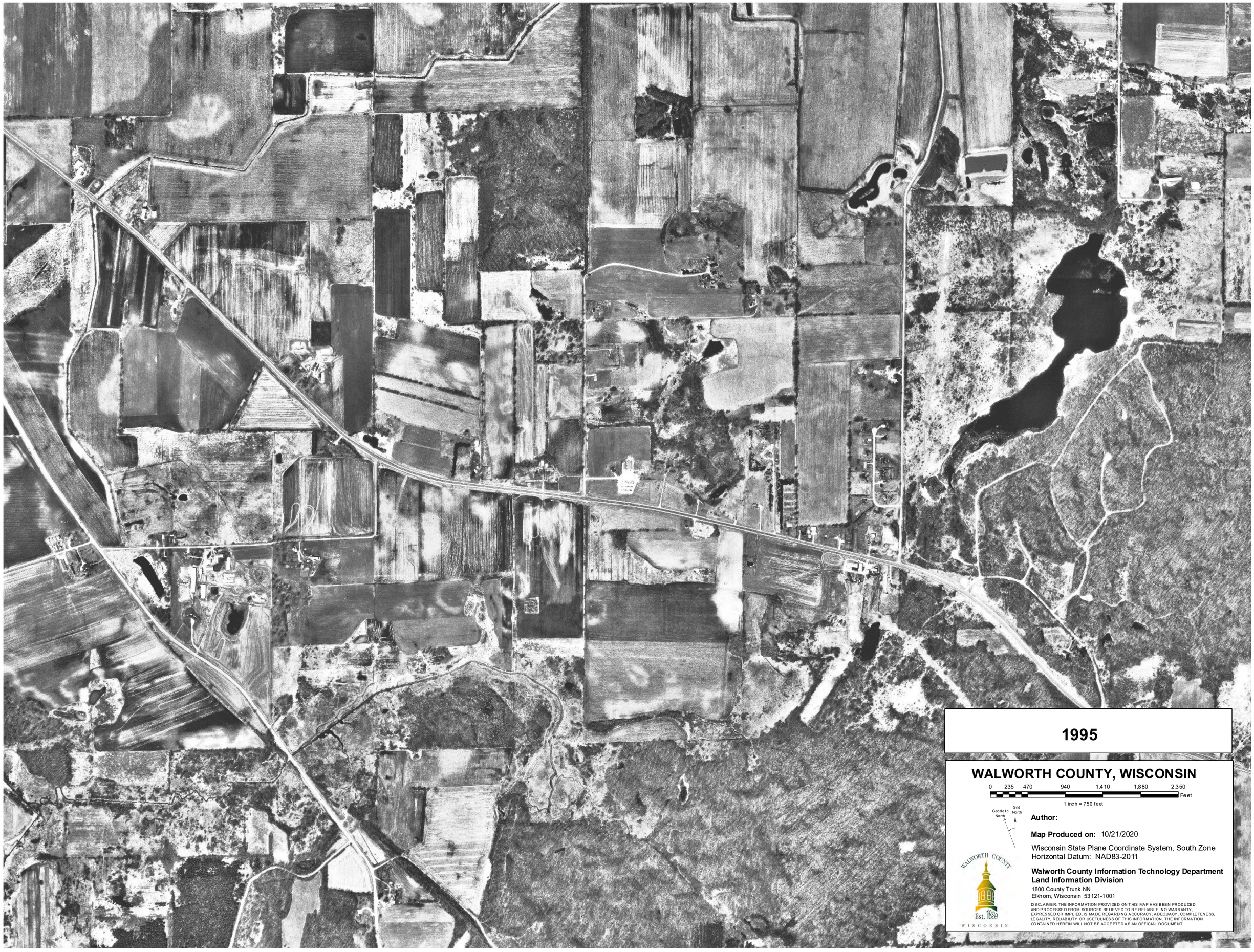
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1995

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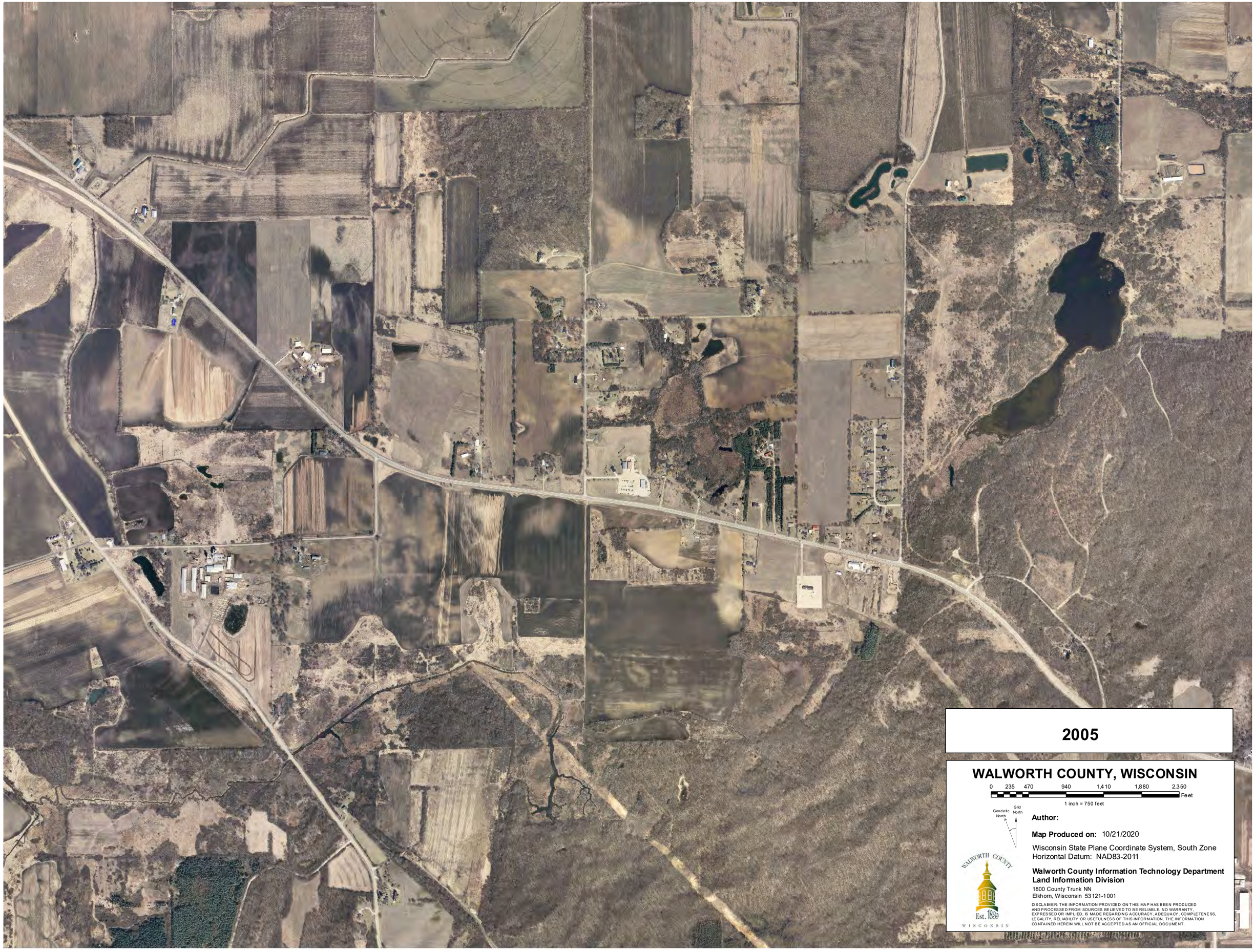
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2005

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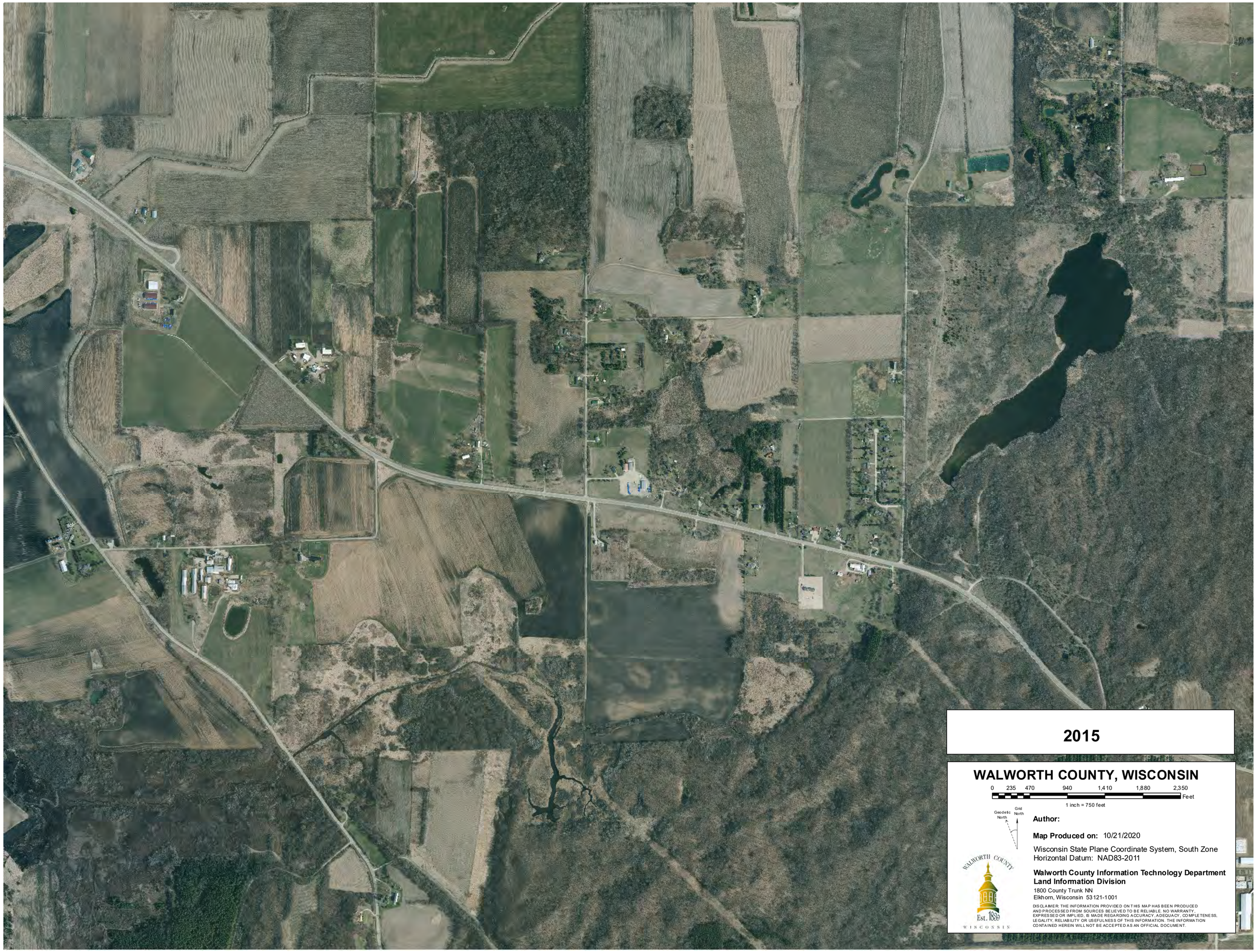
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2015

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0 235 470 940 1,410 1,880 2,350 Feet

1 inch = 750 feet

Geodetic North

Grid North

Author:

Map Produced on: 10/21/2020

Wisconsin State Plane Coordinate System, South Zone
Horizontal Datum: NAD83-2011

Walworth County Information Technology Department
Land Information Division
1800 County Trunk NN
Elkhorn, Wisconsin 53121-1001

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Fire Insurance Maps No Coverage Statement

Site Location
USH 12
Cox Rd to STH 20/67
, WI

Requested by
OBG
234 W Florida St
Milwaukee, WI

HIG Project #
2040810
Client Project #
194010019
Date Created
10/14/2020

Historical Information Gatherers

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

FIM+ Maps

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

23 Juan Carlos Nava 06•920 568 8685
Karla S Nava 06•920 568 8685
24 Adam R Draeger 04•920 568 0628
Jill M Draeger 04•920 568 0628
★Draeger Tools 08 920 568 0628
25 Bonnie J Schmitz 87•920 563 6108
26 Bryan J Green Jr 96• NP
Tammy L Green 96• NP
27 Donald A Gaserude 85•920 563 2030
Maureen L Gaserude 85•920 563 2030
S MAIN ST INTS
25 RESIDENCE 1 BUSINESS

● TALENT TRL
Fort Atkinson

CT 9913 00	0	611	611	$E
◆ RR6	0	611	611	53538

611 Harold A Bockmann 06 920 568 0879
1 RESIDENCE

● N THORNAPPLE CT
Fort Atkinson

CT 9912 02	W6120	W6161	$B
◆ RR7	W6120	W6161	53538

S MAIN ST INTS
W6120 Delaire Lane Gjertson 89•920 563 7442
Jenlyn J Gjertson 89•920 563 7442
W6130 John W Wack Sr 93•920 568 1643
Susan M Wack 93•920 568 1643
W6131 Elizabeth M Schmaling 96•920 563 5199
Robert G Schmaling 96•920 563 5199
W6140 John E Lehmann +•920 563 1006
Rachel M Lehmann +•920 563 1006
W6143 Gary L Bornick 95•920 563 2359
Mary Kay Bornick 95•920 563 2359
W6148 Kathi Lea Hubbard 02•920 568 0775
W6153 John A Gengler 92•920 563 9841
Joyce A Gengler 92•920 563 9841
W6156 A Jacobson 02• NP
Jason P Jacobson 02• NP
W6157◊ David W Puerner 93•920 563 0264
W6161 Mary Jo Stasch 92•920 563 8363
Wayne A Stasch 92•920 563 8363
18 RESIDENCE

● THORNAPPLE LN
Fort Atkinson

CT 9912 02	W6024	W6099	$B
◆ RR7	W6024	W6099	53538

S MAIN ST INTS
W6024 Mary K Merkel 82•920 563 8080
Steven W Merkel 82•920 563 8080
W6030 Tyler Herdendorf 86 920 563 8780
Vernon Herdendorf 86 920 563 8780
W6035 Floyd L Woods 95•920 563 4470
W6038 Lyn Arndt 02•920 568 9186
James F Marty 02•920 568 9186
W6049 Richard M Hoeft 03•920 568 9120
Sara L Hoeft 03•920 568 9120
W6050★Hometown Pet Care 02
Brett E Wollram 03•920 568 3619
Jodi D Wollram 03•920 568 3619
W6058 Arlene L Lange 04•920 563 0217
Carl J Lange Sr 04•920 563 6267
W6062 Martha P Stewart 78 920 563 5090
William J Stewart 78 920 563 5090
W6070 John Portugal 66 920 563 8025
Ruth Portugal 66 920 563 8025
W6074 Julie A Recob 07•920 563 9656
Randall Clyde Recob 07•920 563 9656
W6075 Maureen A Mewes 92 920 563 2240
Peter A Mewes 92 920 563 2240
W6080 Kurt L Knoll 98 920 563 5184
W6084 NP
W6088 Bruce Guy Burlingame 78 920 563 5087
Karen Anne Burlingame 78 920 563 5087
W6099 Donald J Holewinski 89•920 563 3272
Jan L Holewinski 89•920 563 1491
27 RESIDENCE 1 BUSINESS

● TRIELOFF RD
Fort Atkinson

CT 9906 02	N3075	N3535	$D
◆ RR3	N3075	N3535	53538

COUNTY ROAD C INTS
N3075 Jennifer B Blakeley Mode 96•920 568 3635
Gregory J Mode 96•920 568 3635
N3115 NP
N3169★Cherns Couture 99 920 563 7541
N3171 N3173 N3185 NP
N3238 Alice G Kemna 98•920 563 3118
David A Kemna 98•920 563 3118
N3397 NP
N3494 Julie K Wilmet 00•920 568 8770
William P Wilmet 00•920 568 8770
N3525
★♣ ADG Service Co 04
11 Brenda L Anderson 03 NP
11 Mark B Anderson 03 NP
♣Erik Arndt +• NP
63 Marilyn C Babcock 05 NP
63 William A Babcock 05 NP
317 Karla J Babel 00 920 563 6240
317 Richard K Babel 00 920 563 6240
14 Elizabeth Baker 07 NP
321 Bonnie A Barnes 99• NP
21 Joyce R Batta 98 920 568 1756
21 Robert T Batta 98 920 568 1756
25 Marnie C Behselich 87 920 563 7037
25 Wayne F Behselich 87 920 563 7037
312 Tina Benson 07 NP
35 Melissa A Bevan 05 NP
214 Teresa Bilstad 95•920 568 1995
202◊ Vickie L Bilstad 03 NP
42 Brenda L Bredlow 00 NP
42 Eric J Bredlow 00 NP
101 Janet M Brittnacher 98 920 563 6696
61 Wanda J Bryant 03 920 568 8442
206 Linda M Bue 91 920 568 9647
206 Robert R Bue 91 920 568 9647
♣Tonia Campbell +• 920 568 9042
15 Jesse E Carter 06 920 568 0239
15 Judith R Carter 06 920 568 0239
102 Beverly J Collins 00•920 568 8456
102 Corkes Collins 00•920 568 8456
♣David Crump +• 920 568 2853
301 N Curtis 00 920 563 4622
301 Richard A Curtis 00 920 563 4622
205 Jan R Dirksen 02 NP
205 Mary R Dirksen 02 NP
70◊ Norman R Dobbs 05 NP
★♣ Donald Ebbert 05
76 Donnetta J Dost 03 NP
76 Harold H Dost 03 NP
203 Dennis W Eighmy +• NP
203 Donna M Eighmy +• NP
7 Barbara F Else 92 920 563 7933
7 Tom C Else 92 920 563 7933
40 Nancy C Erdman 74• 920 563 5731
27 Don Evans +• NP
15★Fiedler Construction 04
5 S Fischer 94•920 563 3924
323 Richard E Foskett 07•920 568 1727
323 Sandra M Foskett 07•920 568 1727
66 Bryan E Frarrar 01 NP
69 Dianna L Froehlich 92•920 563 3278
69 Larry W Froehlich 92•920 563 3278
10 N Gardner 94 920 568 6959
10 Ross E Gardner 94 920 568 6959
51 Larry E Gibson 97 920 568 9648
409 Thomas R Glasser 96 920 568 4581
♣Victoria Gordon +• NP
♣Wes Gordon +• NP
61 Shirley S Graffin 03 920 566 8442
332 Ken J Guthne 99•920 563 2593
332 Mary Jane Guthrie 99•920 563 2593
216 Jessica L Halberslaben 05•920 568 2887
216 Judy B Halberslaben 05•920 568 2887
53◊ Joyce L Harrigan 98 NP
53◊ N Harrigan 98 NP
8 Doris C Haugen 08 920 566 8749
320◊ Marvin B Hein 07 NP
320◊ Rachel E Hein 07 NP
300 Lucille D Hendriksen 92•920 563 3762
22 Michael F Holbach 07 920 568 1931
36 Susan M Holbach 95 920 563 6133
322 Richard H Hughes 00•920 563 0041
323 Vicki L Hughes 00•920 563 0041
75 Mary Ann Ingwell +• NP
75 Robert L Ingwell Jr +• NP
405 Charles E Johnson 92•920 563 9879
71◊ Charlene A Kenseth 04 920 568 1787
71◊ Jennings A Kenseth 04 920 568 1787
31 Kathleen M Kiesling 06 920 568 1097
31 Lawrence L Kiesling 06 920 568 1097
208 Karen L Kilburg 07 920 568 1991
208 Richard Robert Kilburg 07 920 568 1991
213★Knuth Carpet Care 03 920 568 8580
213★Knuth Cleaning Service 02•920 568 8580
114 Donald H Kobleske Jr 03 NP
114 Marlene R Kobleske 03 NP
34 Julie L Koch 94• NP
34 Michael L Koch 94• NP
18 Kevin E Kowerski +• NP
26 M Kutsche 01•920 563 5112
26 Nancy Ann Kutsche 01•920 563 5112
♣Nicole Kyle 07 920 568 8239
217 Janet M Lafonteese 02•920 568 1857
43 Steven R Larsen 82 920 563 9071
43 Larry L Larson 82 920 563 9071
56 Lawrence B Lemerand 05 920 563 5053
222 Donna J Lewis 03 920 568 8821
222 Harold R Lewis 03 920 568 8821
Bernard Lincks 06 920 568 8856
Noel Lincks 06 920 568 8856
12 Melinda M Manko 05 920 568 8203
67 Dennis A McKee 02 920 563 0028
116 Mark E Meisegeier 03 NP
311 Denis J Mepham 02•920 563 0235
311 Diane M Mepham 02•920 563 0235
29 Gerald W Mepham 92•920 563 9272
29 Jody L Mepham 92•920 563 9272
49 David H Miller 98 920 568 3688
49 Joann E Miller 98 920 568 3688
48 Pearl F Nevin 93 NP
★♣ Oak Ridge Mobile Communit 94 920 563 8555
210 Carole M Oldenburg 03•920 568 0734
210 David D Oldenburg 03•920 568 0734
64 Clifford S Olson Sr 05•920 568 0866
64 Ellen T Olson 05•920 568 0866
39 Kurt G Othmer 00 920 568 9181
39 Mona G Othmer 00 920 568 9181
3 Carmen H Petersen 99•920 563 3648
3 James L Peterson 99•920 563 3648
36 Thomas R Pinnow 95 920 563 6133
407 David M Poole 90 920 563 4681
407 Trudy M Poole 90 920 563 4681
38 Christine M Punzel 05 NP
38 David J Punzel 05 NP
200 Tracy E Rinden 07 NP
212 Eric S Ringle 04 920 568 5897
17 Darrel L Robel 06 NP
201◊ Betty M Sakar 89•920 563 4189
201◊ Robert J Sakar 89•920 563 4189
209◊ N Schoeneck 01 920 568 8426
209◊ Marlene L Schoenecker 01 920 568 8426
56 Nancy A Siegel 05 920 563 5053
218 Gail D Slight 03 920 568 9317
218 James D Slight 03 920 568 9317
307 Michael A Stankus 00 NP
219 Howard D Stevens 02 920 568 8588
219 Mary Jane Stevens 02 920 568 8588
324 Arnold R Stoebert 06•715 349 7312
324 Heidi Marie Stoebert 06•715 349 7312
319 Erick Thoreson +• NP
74 Gregory Scott Tomczak 99•920 563 2370
74 Jennifer J Tomczak 99•920 563 2370
13 Judith I Treffinger 07 920 568 8898
62 David Q Walters 04 920 568 0581
62 N Walters 04 920 568 0581
37 Harry T Wells 01 920 563 6343
37 Irene N Wells 01 920 563 6343
212 Nancy A Wentland 04 920 568 5897
115 Mary K Williams 07 920 568 9457
♣Dustin Woeoke +• NP
211 Donald Lee Zimmerman 05 920 568 8095
211 Sandra L Zimmerman 05 920 568 8095
57 Edris S Zubrod 06 NP
57 Gordon L Zubrod Sr 06 NP
N3531 Melissa J Patrick +• NP
N3535♣ Jamie S Pennewell 03 920 563 2628
♣ Lesley A Pennewell 03 920 563 2628
161 RESIDENCE 7 BUSINESS

● TWIN KNOLLS DR
Fort Atkinson

CT 9914 00	N734	N889	$E
◆ RR5	N734	N889	53538

N734 James L Klatz 06•920 568 0968
Barbara K McKee 06•920 568 0968
N736 N763 NP
N764 Heidi L Riedl 05•920 568 3687
Jesse P Riedl 05•920 568 3687
N779 Angela D Suter 04• NP
Bradley C Suter 04• NP
N783♣ Andrew A Reigel +• NP
♣Kayla J Reigel +• NP
N803 Donna M Komassa 04• NP
John J Komassa 04• NP
N821 Scott W Sporl 06• NP
N824 Michael C Paulus 08 NP
Theresa R Paulus 08 NP
N832 NP
N841 Char Simkins 07• NP
Joseph W Simkins 07• NP
N847 Dennis M Allard 04• NP
Laura W Allard 04• NP
N864 Holly S Andrews 06•920 568 8473
John F Andrews 06•920 568 8473
N875 Adam C Vandersteeg +• NP
Angel M Vandersteeg +• NP
N885 Andy G Powers 07•920 563 9182
Wendy S Powers 07•920 563 9182
N889 NP
27 RESIDENCE

● US HIGHWAY 12
Fort Atkinson

CT 9914 00	1777	W8586		$E
CT 9912 02	N640	N1789		$B
CT 9915 00	N1806	N1936		$E
CT 9906 02	N3019	W8999		$D
CT 9913 00	W6429	W6744		$E
◆ 0	1777	1777		53538

1777♣ Lance Knox +• NP
◆ RR6 N640 N1936 53538
N640 Charlotte M Young 91•920 568 0367
Richard W Young 91•920 568 0367
N833◊ Karen L Nelson 99 920 568 8469
◊ Richard A Nelson 99 920 563 3626
N885 Lori A Paske 92 920 563 9051
Steven E Paske 92 920 563 9051
N910 Arthur J Salzwedel 78 920 563 5200
Evelyn E Salzwedel 78 920 563 5200
N920 Deanna M Olson 06 920 568 8654
James C Olson 06 920 568 8654
N940 NP
N941 Kathy R Hembrook 93 920 568 1565
Randall J Hembrook 93 920 568 0160
N996 Gail A Smith 99 920 563 6914
Richard W Smith 99 920 563 6914
N1086 Michelle R Schwab 97 920 568 2825
Timothy A Schwab 97 920 568 2825
★Seven Star Farm 92 920 563 8033
N1095♣ Joseph Jones 06 NP
N1314 Brenda S Bell 98 920 563 0225
Roger C Bell 98 920 563 0225
N1374 Daniel G Cross 99•920 563 7148
Janice S Cross 99•920 563 7148
N1386 Donald L Schroedl 76•920 563 3231
Patricia A Schroedl 76•920 563 3231
N1402 Mary T Odonnell 79 920 563 9611
N Odonnell 79 920 563 9611
N1422 Joseph P Salamone 00• NP
N1440 Frank C Mach III 88•920 563 4723
N1450 Adam D Larson 02 920 568 9404
Shanna Larson 02 920 568 9404
N1462 Ruth Drebenstedt 06 920 563 2641
Vernon C Drebenstedt 06 920 563 2641
N1496 Gary L Larson 96•920 563 2556
Joanne C Larson 96•920 563 2556
N1513 Thomas L Hunn 74•920 563 2993
N1527 Kathy Hunn 07 920 568 9581
Tim Hunn 07 920 568 9581
N1568 Carla M Cannistra 00 NP
Jess Cannistra 00 NP
John Kincaid +• NP
N1577 Diane L Luebke 90•920 563 7577
Steve L Luebke 90•920 563 7577
N1611★Fort Heating Service Inc 93 920 563 5995
Juanita E Heinz 68 920 563 5302
N1655★Sammys Place 02 920 563 5538
N1656★♣ Badger Basement Systems I 97 920 563 6136
N1683♣ John Hednick 68 920 563 5732
N1706 NP
N1732★Metal Craft Llc 02 920 563 2003
N1746 Lyle L Lueder 02•920 568 0805
Sherrie Rae Lueder 02•920 568 0805
N1753 Cheryl W Wenham 78 920 563 2331
Nordahl W Wenham 78 920 563 8102
N1773 Barry D Rasmussen 90 920 563 7673
N1775 Valerie F Baumann 07• NP
N1777 NP
N1781♣ Billie A Shipler 98•920 563 3074
♣ Roy C Shipler 98•920 563 3074
N1789 Jean A Brockmann 92 920 568 3666
N1806★Baker Glass Llc 77 800 252 8970
N1807 Heather M Abegglen 05 920 568 8493
N1814 Mike Bertucci 07 NP
N1873 Edward G Banker 90 920 563 0288
N1895★Divine Connections Llc 08
★Jones Tool & Mfg Llc 80 920 563 8762
★Light Shine Garden Center 90 920 563 5128
N1909★♣ Homeschool America Inc 06 920 563 1500
N1924 Douglas K Vail 68 920 563 3643
N1936 Sheri J Antisdel 02 NP
Matthew R Blossfield 03 920 568 8415
◆ RR1 N3019 W8999 53538
N3019★La Vigne Bus Co Inc 90 920 563 1515
Leonart H Sponberg 01•920 568 9551
Lois H Sponberg 01•920 568 9551
N3020 Belinda J Onasch 98 920 563 3620
Gregory A Onasch 98 920 563 3620
N3059 PJ J Baird 74•920 563 3223
N3104 Ryan Hanson 04 NP
Robert Lamberson +• 920 568 2164
Rex A Schout 06 NP
N3114 Jennifer A Grossman +• NP
Tyson L Grossman II +• NP
Don Thorwald 90 920 563 8617
Doris A Thorwald 90 920 563 8617
N3115 NP
N3121 Donna J Abel 83 920 563 6206
Robert A Abel 83 920 563 6206
N3187 Rodney L Knox 07 920 563 5625
W6429 Jason A Fiege 98•920 568 9568
W6725 James Mull 03 NP
W6744★Axis Engineering Inc 08
Robert J Gottschalk 83 920 563 9091
W6844 Bonnie J Hamer 96•920 563 3481
Dorothy E Hamer 96•920 563 3481
W6898 Susan R Rode 00 920 563 9686
Thomas G Rode 00 920 563 9686
W6906 Olivia Johnson +• NP
W6911 Chris A Nordberg 02 920 568 8712
Jeremy T Nordberg 02 920 568 8712
W6947 NP
W6950★Whats The Point 92 920 563 9992
W7472◊ James J Hinstorff 01 920 563 2074
◊ Jean Ardis Hinstorff 01 920 563 2074
W7485 Jon P Punsel 00•920 563 8053
Pam K Punsel 00•920 563 8053
W7492 Cindy A Kraus 96•920 563 7319
Michael L Kraus 96•920 563 7319
W7504 Troy T Schroedl 97•920 563 3437
W7508 Todd M Gray 97 920 563 6397
Tracy A Gray 97 920 563 6397
W7555★Busy Barns Adventure Farm Llc 08
Paul D Hadler 07•920 568 9688
Kimberly A Walker 07•920 568 9688
W7675 Gary D Teller 84•920 563 6884
Mary Teller 84•920 563 6884
W7742 Helen H Raatz 95•920 568 1738
Phillip R Raatz 95•920 568 1738
W7791 Andrew J Webster 91 920 563 7617
W7847 Karen M Schroedl 88•920 563 8871
Thomas H Schroedl 88•920 563 2848
W7934 Jean D Ehrke 87•920 563 4608
William Scott Ehrke 87•920 563 4608
W7937 NP
W7940 Thomas R Aiken +• NP
W7996 Drew Gierach 02 920 568 1143
Larry E Gierach 02 920 568 1143
W8002 NP
W8004 Dennis J Klingbeil 99•920 563 8808
Sheila Marie Schroedl 99•920 563 8808
W8129 Joannis B Armstrong ✓ 96 920 563 0369
Wayne J Armstrong 96 920 563 0369
W8274 Mukmed Dehan 98•920 568 6865
Selim Dehan 98•920 568 1737
W8335♣ Larry Jensen 07 NP
W8385 W8514 NP
W8520 Rhonda J Kleinsmith 06 NP
W8524 George D Powers 87 920 563 8100
Rose K Powers 87 920 563 8100
W8550 Clarence A Hodgkins 02• NP
Deborah Hodgkins 02• NP
W8564 Robert E Czupowski 97•920 568 0914
Susan A Czupowski 97•920 563 5113
W8573 NP
W8575 Steve L Seeber 05 NP
W8586★Oakland Used Cars 02 920 563 5113
W8599 Edward F Hrobsky 99•920 568 9003
Pauline A Hrobsky 99•920 568 9003
W8678 Carol A Northey 94• NP
W8752 Joann M Davis 95 608 423 4163
W8863 NP
W8882 John Ruson 02 NP
W8946 Ronald Thompson + 608 423 3340
★Wolffs Computer Repair 08
W8947 James A Lorang 94•920 423 7670
W8999 Frank T Thatcher 08 NP
141 RESIDENCE 16 BUSINESS

● US HIGHWAY 18
Fort Atkinson

CT 9906 02	W7288	W7976		$D
◆ RR1	W7288	W7976		53538

W7288 Leroy W Ebert 95•920 674 2760
Shirley A Ebert 95•920 674 2760
W7292 W7489 NP
W7493 Alice S Banker 01 920 674 4932
James P Binstel 07 NP
Irwng R Kreger 96 920 674 3001
M L Kreger 96 920 674 4786
W7698 Forrest D Lathcoe 03•920 674 2961
Sherry L Lathcoe 03•920 674 2961
W7702 Doug A Dearborn 04 920 674 4060
Shelly L Dearborn 04 920 674 4060
W7834 Peter Ready 06 920 674 5648
W7897 Gary L Freling 92 920 648 2481
Joan M Freling 92 920 648 2481
W7970 Darrell R Korth 96•920 648 8090
Peggy J Korth 96•920 648 8090
W7976 NP
18 RESIDENCE

● VAN BUREN ST
Fort Atkinson

CT 9913 00	507	1222	$E
◆	507	1222	53538

ROBERT ST INTS
507 Dave A McKee Jr 77•920 563 5604
Susan J McKee 77•920 563 5604
508 Erin K Thompson 02•920 691 0014
Ron O Thompson 02•920 691 0014
509 Ellen F Burnette 85•920 563 7979
Richard E Burnette 85•920 563 7979
512 John A Leroy 03•920 568 2863
514 Frank Galluzzo 04 920 568 9209
515 Linda S Long 97•920 563 4537
MONROE ST INTS
600 Steve L Marks 93• NP
Sue E Marks 93• NP
603◊♣ Joan D Farrell 90•920 563 2655
◊♣ Robert Joseph Farrell 90•920 563 2655
606 NP
608 Olin G Orvold 07• NP
Rebecca L Orvold 07• NP
609 Daniel H Goulder 06• NP
Shannon J Goulder 06• NP
612 Matthew J Hookham 05• NP
JACKSON ST INTS
706 Jake P Gittelson 94• NP
709 Jean K Harman 80•920 563 3716
710 Debra L Pennewell 80•920 563 3576
Rodney W Pennewell 80•920 563 3576
716 Robin L Shilkey 06• NP
Steven Anthony Shilkey 06• NP
717 Gary L Cluver 04•920 563 9043
Pat D Cluver 04•920 563 9043
720 Brenda M Osborn +•920 568 1784
724 Dana Lee Foster 03•920 568 8884
Timothy Foster 03•920 568 8884
RANKIN ST INTS
801 NP
802 Lorraine M Kneser 87•920 563 6390
Louis F Kneser 87•920 563 6390
804 Shirley L Stork 75•920 563 4668
805 Sheila G Lohman 95•920 568 0231
Thomas W Lohman 95•920 568 0231
809 Jack C Garrett 77•920 563 9494
810 Barbara E Blomgren 86•920 563 3748
Christy R Blomgren 86•920 563 3748
812 Ron J Fresen 62•920 563 4478
813 Meagan M Evans 07•920 568 5825

ADDRESS

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◊ ♣Scott A Saxe 03 NP
N431 Terry J Wolf 02 262.473.3967
-OAK CLAY DR INTS
30 RESIDENCE 2 BUSINESS

● UNIVERSAL BLVD

CT 4.00 952 - 1227 $D
952 - 1227 53190
-N UNIVERSAL BLVD INTS
952 ★Field Maintenance Shop 8 02 262.472.1019
★U S Army National Guard 02 262.472.1449
★Wisconsin Dept Milit Affrs 04◎262.472.1448
1116 ★Husco International Inc 99 262.472.7200
1121 ★S And H Truck Services Llc 90 262.473.2211
1170 ★Husco International Inc 90 262.472.7200
★Trek Bicycle Corp 90 262.473.8735
1171 ★Winkhaus North America Inc 99 262.472.8800
1215 ★Lavelle Industries Inc 77 262.473.6023
1227 ★Marcussen Tool & Die Inc 91 262.473.6210
10 BUSINESS

● N UNIVERSAL BLVD

CT 4.00 E 420 - 420 $D
E 420 - 420 53190
-UNIVERSAL BLVD INTS
420 ★Maclean Fogg Co 97 262.473.2333
★Maclean Molded Products Inc 87
★Polymer Technologies 03◎262.473.2333
-EXECUTIVE DR INTS
3 BUSINESS

● US HIGHWAY 12

CT 9912.02 N112 - N416 $A
CT 3.00 N9324 - W7893 $A
CT 4.00 W5899 - W7508 $D
RR1 N112 - N416 53190
N112 ★Hilltop Inn 96 262.473.3269
N115 Cindy Channing 95 262 473 3554
Rob E Channing 95 262 473 3554
N202 Michael L Malek 98 262 473 1257
Kari A Norton 99 262 473 4596
N260 Donald G Prisk 02 NP
Sharon I Prisk 02 NP
★Prisk Auto Salvage 92 262.473.5539
N273 Martin C Pfeifer 74 262 473 3280
N380 David A Luebke 87 262 473 4500
Karen Luebke 87 262 473 4500
N4160 Wayne A Saxe 87 262 473 3109
RR5 N9324 - W7893 53190
N9324 ★♣ Huber Buildings Systems I 94 262.473.1200
W5666 Lynn E Greene 98 NP
Mayner B Greene 98 NP
★Guitar Gallery New & Used 91 262.495.8771
W5890 Anna K Knobel + NP
Tim B Knobel + NP
W5899 ★♣ Brotoloc Health Care Syst 99 262.495.8085
♣ Jerome Stark 00 NP
W5903 NP
W5950 Carole J Witkowski 91 262 495 2066
Monte C Witkowski 91 262 495 2066
W5979 Eric Taylor + NP
W5993 Dianne T Dunham + NP
Richard W Dunham + NP
W6057 Gale Rex Granger 04 262 495 8761
W6062 ★Darr Service Station 04 262.495.8473
★We Haul Transport 94◎262.495.8473
W6087 Julie A Nass 04 NP
C Swenson 02 NP
W6095 **Apartments**
Eric M Lange 03 262 495 4390
A Mary T Segraves 99 NP
W6098 ★Back Yard Bike Shop 03 262.495.8600
★Lagrange General Store Inc 93◎262.495.8600
W6212 Dawn L Mathews 95 262 495 2478
Edwin L Mathews Jr 95 262 495 2478
W6232 Ashley Shepard + NP
W6628 Anna L Gutierrez + NP
W6705 Laura A Guthman 96 262 495 8503
William A Guthman 96 262 495.8503
W6870 NP
W6968 Brad Birling 05 NP
Bruce J Birling 05 NP
W7209 NP
W7230 Wes J Kubesheski 03 262 472 9041
Wesley Kubesheski 03 262 472 9041
W7258 Matt R Olson 88 262 473 3148
Tracey L Olson 88 262 473 3148
W7262 Ryan L Stritzel + NP
W7299 ♣ Terry Thompson 02 NP
W7304 Linda Dhindsa 05 262 473 5329
Tony Dhindsa 05 262 473 5329
W7316 W7332 NP
W7333 Patricia A Beran 03 NP
Paul W Beran 03 NP
W7354 Jason Rodger Parpart + NP
W7394 Brian E Taggart 88 262 473 7996
Mary C Taggart 88 262 473 7996
W7395 Donald W Molsee 97 262 473 7001
Raien M Molsee 97 262 473 7001
W7428 Robert Knapp 06 NP
W7504 ♣ Troy Schroedl 05 920 563 3437
W7508 ♣ Todd M Gray 05 920 563 6397
♣ Tracy A Gray 05 920.563 6397
W7536 Jana L Holt 01 262.473.3290
W7596 Laurie Ann Giorno 88 262 473 6065
Ralph A Giorno Sr 88 262 473 6065
W7729 Heidi L Stiouis 98 262 473 8590
Scott D Stiouis 98 262 473 8590
W7782 ★Sunshine Genetics Embryo Transfer SE 03 262.473.8905
★Sunshine Genetics Inc 92◎262.473.8905
W7791 ♣ Andrew J Webster 05 920 563 7617
W7893 ★Eagle Terrace Condo Assn Inc 07
James R Franke 00 NP
Shari L Franke 00 NP
65 RESIDENCE 12 BUSINESS

● VANNOY DR

CT 9916.00 W3431 - W3596 $C
RR4 W3431 - W3596 53190
W3431 Herbert T Casey Sr 65 262 473 5773
Jean A Casey 85 262 473 5773
W3434 Bruce J Borchardt 90 262 473 3759
Tricia A Borchardt 90 262 473.3759
W3437 Carroll E Judd Jr 92 262 472 9114
Roberta Jo Wedl MD 92 262 472 9114
W3442 ★Waltons Enterprises Inc 90 262.473.7553
W3445 Constance C Aldige 05 262 472 9098
Paul G Aldige III 05 262 472 9098
W3450 Dennis P Lee 91 262.473.7871
Theresa P Lee 91 262.473.7871
W3457 ◊ Elaine R Oswald 92 NP
◊ Melvin E Oswald 92 NP
W3460 Tim G Fletcher 05 262 473 5617
W3470 David W Zimmerman (11/04) 04 262 473 5184
Sara J Zimmerman (11/04) 04 262 473 5184
W3477 Gerald K Kwiatkowski (6/05) 05 262 473 4028
Jodi M Kwiatkowski (6/05) 05 262 473 4028
W3479 Darlene J Varnes 91 262 473 6738
John D Varnes 91 262 473 6738
W3482 Judith A Hendrickson 87 262 473 2595
Rick D Hendrickson 87 262 473 2595
W3483 Gregory C Guthrie (4/08) + NP
Michelle L Guthrie (4/08) + NP
W3488 Karen M Ehnert 94 NP
W3497 Lisa M Gnep 94 262 473 4529
Peter Philip Gnep 94 262 473 4529
W3511 ◊ Gerald G Stauffacher 88 262 473 3763
◊ Jeanine R Stauffacher 88 262 473 3763
W3514 Linda R Platner 81 262 473 2040
Nic C Platner 81 262 473 2040
W3516 Beth L Tuttle 94 262 473 5223
Brad L Tuttle 94 262 473 5223
W3520 Kaylene L Straif 72 262 473.3819
Keith A Straif 72 262 473.3819
W3524 ◊ David Noel Emmrich 03 262.472.0871
◊ Nancy Jayne Emmrich DVM 03 262 472 0871
W3526 NP
W3530 Elaine C Wagner 92 262 473 7940
Richard J Wagner 92 262 473 7940
W3534 Allan M Anderson 94 262 473 2600
Peggy Anderson 94 262 473 2600
W3540 David G Anderson 94 262 473 3456
Debra K Anderson 94 262 473 3456
W3546 Marie N Folstad 87 262 473 6582
Virginia P Folstad 87 262 473 6582
W3566 ★Five Alarm Home Improvements Llc + 262.472.8837
Brenda L Merath 03 262 472 8837
Darrel K Merath 03 262 472 8637
W3584 Daniel J Becker 86 262 473 5244
Jane E Becker 86 262 473 5244
W3596 Andrew R Malaszewski (1/06) 06 262 472 9175
Stanlee A Malaszewski (1/06) 06 262.472 9175
51 RESIDENCE 2 BUSINESS

● VENTURA LN

CT 5.00 405 - 518 $C
405 - 518 53190
-S BUCKINGHAM BLVD INTS
405 Michael J Smith 05 262 458.2183
Rebecca J Smith 05 262 458 2183
408 Lourdes D Aranda 06 262 472 8810
413 Roger L Pulliam 92 262 473 2634
-ASSEMBLY CT INTS
416 NP
430 Lisa R Moran 03 NP
438 Elizabeth S Ogunsola 94 NP
Kenneth J Ogunsola 94 NP
444 Rev Eric L Sedmak 07 262 473 7938
Jacqueline S Sedmak 07 262.473.7938
447 Fe Serapio Evangelista 94 262 473 0843
Ansfred M Pelayo 94 262 473 0843
448 ♣ David L Dwyer 02 262 472 0080
♣ Lorre R Dwyer 02 262 472 0080
455 ◊ Eileen E Busse 83 262 473.7988
◊ John F Busse 83 262 473 7988
456 Barbara A Sheffield 83 262 473 2881
463 Anh Ten VO 94 262 473 3459
My Y VO 94 262 473 3459
469 Deborah C Bowen 96 262 473 4089
Stephen D Bowen 96 262 473 4089
473 Marco A Wence 05 262 472 0915
Viviana Wence 05 262 472 0915
476 Kristina Hammond + 262 472 0889
Kennick L Powers + 262 472 0889
477 Nancy Elle Stevenson 91 262 473 2714
Robert S Stevenson 91 262 473 2714
485 Joyce D Leverenz 05 262 472 0432
Walter E Leverenz 05 262 472 0432
486 NP
494 Michelle Engle 05 262 473 7376
Stacey M Engle 05 262 473 7376
497 David M Luther 87 262 473 6371
Patricia A Luther 87 262 473 6371
502 ★Renaissance Design 05 262.215.9688
505 Chykukun Rao 83 262 473 8426
512 Robin K Fox 91 262 473 4550
515 Erica L Schepp 99 262 473 8319
Paul J Schepp 99 262 473 8319
518 Mark D Parenteau 94 262 473 8667
Terrie L Parenteau 94 262 473 8667
-INDIAN MOUND PKY INTS
40 RESIDENCE 1 BUSINESS

● N WAKELY ST

CT 4.00 103 - 335 $D
103 - 335 53190
-E MAIN ST INTS
103 Chris A Rossmiller 97 NP
Connie L Rossmiller 97 NP
Paul D Traxler + 262 458 2064
Tricia Traxler + 262.458.2064
107 Michael P Davis 93 262 473 1169
Terresa Davis 93 262 473 1169
114 Amanda Lentz + NP
Gale Lentz + NP
122 NP
125 Daniel R Brown 07 NP
130 NP
132 Brian L Buttman 07 NP
133 Lonnie C Ripley 07 262.473 7666
139 Ricky Blucher 06 262.458 2089
140 Astrid I Pfeifer 87 262 473 2082
Rick J Pfeifer 87 262 473 2082
-E NORTH ST INTS
224 M E Streib 68 262 473 2237
Mary E Streib 68 262 473 2237
-E CRAVATH ST INTS
323 E Edwards 90 262 473 1123
Glen A Edwards 90 262 473 1123
329 Kathy L Wolf 85 262 458 2588
Timothy J Wolf 85 262 458 2588
335 NP
-E HARRIET ST INTS
23 RESIDENCE

● N WALTON DR

CT 9916.00 500 - 817 $C
CT 4.00 E 684 - 684 $D
500 - 817 53190
-HILLCREST DR INTS
500 Barbara E Foucault 75 262 473 3388
Kenneth Jack Foucault 75 262 473 3388
507 NP
509 S Koelbl 07 262 458.2132
5140 Marlene Y Strait 69 262 473 2384
5190 Alex Dade (1/94) 95 262 473 7917
◊ Nancy S Dade (1/94) 95 262 473 7917
524 Mary Kay Nelson (8/91) 92 262 473 7543
Tim K Nelson (8/91) 92 262 473.7543
529 Eunice M Lehner (10/97) 97 262 473.2013
532 NP
534 Kevin E Houlihan 03 262 473 4067
539 Dawn R Luebke (6/93) 84 262 473 2954
Wayne G Luebke (6/93) 84 262 473 2954
544 Julie L Cady 06 262 458 2144
546 Guadalupe C Villanueva 04 262 472 0999
Monie M Villanueva 04 262 472 0999
549 Eberardo Palomec (5/07) 05 262 473 5846
Felipe Palomec (5/07) 05 262 473 5846
552 Sheleen A Blum 03 NP
William Topp 06 NP
561 Kevin M Keating (8/90) 89 262 473 4159
564 NP
566 Sean Stamper 04 NP
569 Amelia M Woblig 06 262.472 0525
Amy Woblig 06 262 472 0525
571 B Mick + 262 458 2141
574 NP
581 Geoffrey L Dorich 98 262 473 1625
Kori L Kincaid 98 262 473 1625
582 James Henze 05 262 473 5789
Teresa S Henze 05 262 473 5789
583 Jeanette Brunner 03 262 458 2137
Sarah Brunner 03 262 458 2137
584 Gail K Tschantz 76 262 473 5536
Terry A Tschantz 76 262 473 5536
592 Leyda Manriez 03 NP
Peter S Manriez Sr 03 NP
597 Jason M Rollette 94 262 473 3070
Virginia K Rollette 94 262 473 3070
602 Richard V Rocha Jr (6/02) 02 NP
Maria Rodriguez (6/02) 02 NP
605 Vicki Reding Helland 05 262.458.2345
Diana M Lindalof 05 262.458 2345
607 Albert Ngabo + 262 472.0215
Martha Ngabo + 262 472 0215
610 Dorothy H Watson 84 262 473 7344
James M Watson 84 262 473 7344
615 Duane R McCulloch (11/98) 98 262 473 2632
618 Amy L Bomick 72 262 473 5094
Dale E Bomick 72 262 473 5094
624 Michael Mark Brown 71 262 473 5300
Phyllis L Brown 71 262 473 5300
625 Douglas J Hoekman (4/87) 83 262 473 5395
Kristi Kay Hoekman (4/87) 83 262 473 5396
6340 Dianne R Bowker 94 262 473.2173
635 **Apartments**
Monica Heine 07 NP
A Leacia Kay Travis 05 NP
A Rachael K Travis 05 NP
639 Guadalupe Wence + NP
643 Jose Garcia 05 NP
644 Rodney R Alexander 92 262 473 4151
Cheryl J Floto 92 262 473 4151
647 Sean G Stark (12/01) 00 262 473 5692
650 NP
651 Joseph Garner 05 NP
Sheila A Garner 05 NP
660 Richard W Reese (6/91) 76 262 473 3947
Shelby M Reese (6/91) 76 262 473 3947
669 NP
670 Frances J Stanek 82 262 473 3682
Thomas F Stanek 82 262 473 3682
672 NP
679 Mark D Hennington 06 262 472 0614
681 NP
682 ◊ Margaret E Gajewski 75 262.473.3793
684 ♣ Yvette M Kelt 03 NP
688 Daniel L Diers + NP
Lisa J Diers + NP
690 Stephanie Wehinger 05 NP
692 Justin K Harvey 06 262 458 2038
-W SHAW CT INTS
807 809 NP
810 **Apartments**
9 James J Alten 84 NP
3 Mark D Bellinchard 88 262 473 3247
3 Shirley L Bellinchard 88 262 473 3247
6 Kris Louden 07 262 473 3698
4 Tina Morris 01 NP
1 Grace A Shekey 01 262 472 8988
815 Adam N Issa 04 NP
817 Arsim Ahmedi + 262 458.2379
-BLOOMINGFIELD DR INTS
91 RESIDENCE

● W WALWORTH AVE

CT 5.00 804 - W9699 $C
CT 4.00 E 808 - 808 $D
804 - 1011 53190
804 ★C A Pope Development Inc 97 262.472.9900
★Five Points BP Convenience 05◎262.472.9900
★Movie Tyme 03 262.472.9700
808 ★♣ Movie Gallery 04 262.473.3570
818 NP
825 Aneassa M Bellinchard 05 262 473 3525
Victor A Bellinchard 05 262 473 3525
835 Connie A Ardell 06 262 473 4803
Robert R Ardell 06 262 473 4803
839 **Apartments**
Ryan Berka 07 NP
UPPR Nicholas Tahin 07 NP
904 Tammy L Stevenson 06 262 473 4281
909 ♣ Jarod Goehl + 262 458 2032
910 **Apartments**
Joshua Pettit 07 262 473 3465
UPPR Donna Shanks + NP
◊ Vlad I Thomas 06 262.473 1083
917 Dean M Stearns 05 262.473.5125
Mary E Stearns 05 262 473.5125
920 NP
923 ◊ Clifford J Storlie Jr 00 262 473 3438
◊ Sharon K Storlie 00 262 473 3438
930 NP
933 Brenda L Odonnell 05 262 473 3615
Eddie J Odonnell 05 262 473 3615
941 Daniel Ponder 06 NP
944 Zach Haskins 05 262 473 8591
Susan E Reinholz 05 262 473 8591
951 Gertrude L Weiman 05 262.473.3850
Lucille S Weiman 05 262 473 3850
958 James S Schlough 05 262 473.3964
Susan R Schlough 05 262 473 3964
959 **Apartments**
Becky Allen Blucher Sr 06 NP
Norman Henze-Jr Jr + 262.456.2154
Blake Hibbs + 262 458 2213
LOWR Angella K Wanzel + NP
967 Louella L Zimmerman 04 262 473 4752
970 NP
9760 Laura E Grubb 05 262.473 6871
◊ Michael E Grubb Atty 05 262 473 6871
977 NP
1005 Paty M Heckman 05 262 458 2065
Shawn P Heckman 05 262 458 2065
1011 NP
RR6 1022 - 1540 53190
1022 Mary Jo Demaza 05 262 473 4866
1027 NP
1033 Christine A Boyle 05 262 473 4594
Mary Cathe Boyle 05 262 473 4594
1050 Kristina Fowler 06 262 473 4873
1052 NP
1055 ★Wooden Barrel Farm Llc 07 262.473.5233
1058 Pamela M Molasco 05 262 472 0263
1104 NP
1110 Jerome W Steck 05 262 473 6693
Marianne K Steck 05 262.473.8693
1120 T Buckner 06 NP
William Andrew Sargeant 04 262 458 2184
1127 Nancy H Cooper 04 262 473 5375
Rollin N Cooper 04 262 473 5375
★Coopers Natural Foods Llc 05 262.473.5375
11340 Lisa B Heiman 06 NP
11350 Chris R Cutshall 05 262 473 2000
◊ Robert H Cutshall 05 262 473 2000
11430 Kristine M Zaballos 03 262 473 9822
◊ Peter Zaballos 03 262 473 9822
1144 NP
1154 Gene F Cardinal 03 262 473 4733
Patrice J Cardinal 03 262 473 4733
1170 Peggy J Friesema 05 262 473 4116
1182 Jeanne A OBM 05 262 473 6926
Joseph A OBM 05 262 473 6926
1210 Russell W Devitt Atty 04 262 473 8273
Vicki S Devitt 04 262 473 8273
1222 Louise McLane Hunter 05 262 473 6080
1232 Aaron J Tans 05 262 472 0598
Sue Marie Tans 05 262 472 0598
1302 Paul H Zimmerman 05 262 472 9781
1304 Alan Thomas Trautman 05 NP
1344 1406 NP
1540 ★Assembly Of God 89 262.473.2755
★Witewater Assembly Of God 01◎262.473.2755
RR1 0 W9699 - W9699 53190
W9699 ★Farmin Too Llc 07 262.473.6903
73 RESIDENCE 9 BUSINESS

● W WALWORTH ST

CT 5.00 510 - 731 $C
510 - 731 53190
510 Mae E Gmeinder 01 NP
521 J Ludeman Vera 05 NP
522 Kenneth J Lindholm 05 NP
534 NP
612 **Apartments**
Elvira Alvizar 04 NP
♣ Miguel Cansino 07 262 473 3854
4 Gerald L Haines 06 NP
♣ Angelina Lopez 07 262 473 3573
7 Adrian Rivera 06 NP
2 David B Schmitt 01 262 473 3732
2 Peter W Schmitt 01 262 473 3732
11 Michelle Sontag 04 NP
6 Shaunta Tans 07 NP
704 Rebecca R Walenton 83 262.473 2401
Ronald B Walenton 83 262 473 2401
707 ★Learning Depot 01 262.473.8444
★Learning Depot Childcare Center Inc 05◎262.473.8444
710 Kathy D Riley 76 262 473 2795
Michael G Riley 76 262 473 2795
721 NP
731 **Apartments**
A Jeanette M Cloute 82 262 473 2480
B Rebecca Velasco 03 262 472 0637
B Alejandro Velasquez 03 262 472 0637
21 RESIDENCE 2 BUSINESS

● WARNER RD

CT 5.00 E N9334 - N9620 $C
RR1 E N9334 - N9620 53190
N9334 ◊ Deborah I Hopkins 03 262 472 8923
◊ James M Hopkins 03 262 472 8923
★Whf Enterprises Llc 05 262.472.8923
N9602 Bridgette Turner 94 262.473.7117
Bridgette Gayle Wintland 94 262 473 7117
N9620 Dennis A Conway 90 262 473 7297
Lucy T Conway 90 262 473 7297
6 RESIDENCE 1 BUSINESS

● N WARNER RD

CT 32.00 0 11413 - 11729 $B
RR1 0 11413 - 11729 53190
11413 Janet E Krumm 74 262 473 3086
Kenneth V Krumm 74 262 473 3086
11729 David Schmocker (2/03) 03 262 472 9441
Nina Z Schmocker (2/03) 03 262 472 9441
4 RESIDENCE

● WATERS EDGE DR

CT 4.00 604 - 763 $D
RR6 604 - 763 53190
604 612 NP
622 Carol Joyce Aufderhaar 06 262 472 0655
Dr Henry W Aufderhaar MD 06 262 472 0655

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Harrigan P W 920 568 9148
Hazard Roberta 99 920 563 0333
Heine Guy E 90 920 563 6580
Heitmann J 920 568 0477
Hendriksen L 80 920 563 3762
Hoard Beverly 00 920 568 8453
Hockett Tim 920 568 9378
Hockett Wendy 920 568 9378
Hoffmann Alma E 87 920 563 5270
Hoffmann William D 87 920 563 5270
Holbach Sylvia 95 920 563 6133
Hughes Richard 920 563 0041
Hughes Vicki 920 563 0041
Ison Robert C 90 920 563 1451
Johnson Charles E 920 563 9879
Johnson Susan 920 563 5662
Johnson William 920 563 5662
Kiesel Julia 99 920 568 1926
Kiesow F 03 920 563 7693
Kobleske Donald 03 920 568 9468
Koch Michael 90 920 563 0127
Krueger Robert 920 568 0654
Kutsche N 920 563 5112
Kuykendall John 87 920 563 2596
Lalonteese Janet 01 920 568 1857
Lange Carl 93 920 563 6267
Larson Larry L 920 563 9071
Lemke Elroy M 920 563 8642
Mcdaniel D A 94 920 563 6883
Mckee Dennis 98 920 563 0028
Messegeer Mark E 920 568 8609
Mepham Denis 920 563 0235
Mepham Gerald W 920 563 9272
Miller David H 95 920 563 2765
Miller Joann E 95 920 563 2765
Nevin Pearl 89 920 563 5857
Newcomb Mary 98 920 563 3316
★ **Oak Ridge Mobile Community** **920 563 8555**
Oldenburg Darryl 02 920 568 0734
Pennewell Lesley A 01 920 563 2628
Petersen Carmen S 920 568 1183
Petersen James L 99 920 563 3648
Pfefferle Walter 93 920 563 3918
Pipes Joan M 920 563 8381
Poole Dave 88 920 563 4681
Poole Trudy 98 920-563 4681
Postel Audrey 920 563 8276
Postel Philip 920 563 8276
★ **Price C J Rev** 86 **920 563 2545**
Ranney N A 86 920 563 5201
Renteria Angela 02 920 568 1530
Rewoldt Scott 01 920 563 8028
Rubio Heidi 00 920 568 0212
Rubio Horacio 00 920 568 0212
▲ ★ **Rubios Photography & Video** **920 568 1686**
Rudolf James 920 568 1822
Rudolf Sandra 920 568 1822
Rusch W M John 97 920 563 5730
Sakar Robert 87 920 563 4189
Sarauer Clarence 92 920 563 1443
Schmidt Neal E 920 563 5761
Schroeder Ralph 85 920 563 3479
Slight James D 01 920 568 9317
Stevens Howard D 920-568 8588
Stockton Robert E 99 920 563 5268
Strese Mary E 91 920 563 0300
Taubert Kenneth 920 568 0984
Turpin Janet E 92 920 563 9009
Turpin William L 92 920 563 9009
Vergenz James D 02 920 563 3342
Vorlob W 93 920 563 2873
Wegner Fran 00 920 563 3332
Wegner Ken 00 920 563 3332
Wells Harry T 99 920 563 6343
Wickland C 97 920 563 9899
Wickland K 97 920 563 9899
Woodmansee Lee 98 920 563 5706
Woodmansee Marilyn 98 920 563 5706
Young Marilyn 920 563 7435
Young Rex 920 563 7435

4 BUSINESS 135 RESIDENCE

U S HWY 12 53538

FORT ATKINSON

N640 N1789 CT991202 $A
N1806 N1957 CT991500 $C
N2952 N3187 CT990602 $A
W6425 W6844 CT991300 $B
W7485 W8599 CT990602 $A

N640 Young Richard W 93 ○ 920 568 0367
N819 Lynch Jessica 920 568 8458
Lynch Sean 920 568 8458
N833 Nelson Richard 920 568 8469
Nelson Richard A 99 ○ 920 568 3626
N885 Paske Steve 920 563 9051
N910 Salzwedel Arthur J 84 ○ 920 563 5200
Salzwedel Evelyn 84 ○ 920 563 5200
N920 Riedl Paul A 96 ○ 920 568 1742
N940 Rodewald German 90 ○ 920 563 8570
N941 Hembrook Chad 920 568 1565
Hembrook Randall 94 ○ 920 568 0160
N966 Smith Richard W 84 ○ 920 563 6914
N1086 Slade M 920 563 8033
N1314 Bell Brenda S 920 563 0225
N1351 Knedeman Alvin 920 563 5758
N1366 ★ **Cedar Hill** **920 563 4869**
N1374 Cross Daniel G 98 ○ 920 563 7148
N1386 Schroedl Donald 99 ○ 920 563 3231
N1402 O donnell Mary T 91 ○ 920 563 9611
N1440 Mach Frank C 88 ○ 920 563 4723
N1462 Finger Erica L 99 920 568 9633
Sharpe K B 95 920 568 9703
Wheeler Andrea L 920 563 8874
N1496 Larson Gary 92 ○ 920 563 2556
N1511 Brummond William 97 ○ 920 563 5357
N1513 Hunn Thomas 93 ○ 920 563 2993
N1558 Chase James 920 568 8578
Root Adam T 01 920 568 1165
N1577 Luebke Diane 92 ○ 920 563 7577
Luebke Steve 92 ○ 920 563 7577
N1611 ★ **Fort Heating Service Inc** 79 **920 563 5995**
Heinz Earl 90 920 563 5302
N1655 ★ **Sammy s Place** **920 563 5538**
N1656 ★ **Badger Basement Systems Inc** 78 **920 563 6136**
N1689 Hedrick Francis 95 ○ 920 563 5732
N1706 Henze Paul 920 568 9225
N1732 ★ **Metal Craft** 95 **920 563 2003**
N1746 Patten Emroy 00 ○ 920 563 5821
N1753 Wenham Nordahl 92 ○ 920 563 8102
N1773 Rasmussen Barry 99 ○ 920 563 7673
N1777 ★ **Knox Lance** **920 568 9524**
N1781 Shipler Billie 99 ○ 920 563 3074
Shipler Roy 99 ○ 920 563 3074
N1789 Brockmann Jean 98 ○ 920 568 3566
N1806 ★ **Baker Glass LLC** **920 563 5154**
N1814 ★ **Dependable Auto Parts Inc** **920 563 7363**
Hafbrader Roberta L 99 920 563 7907
N1857 Tyler Dale 920 568 8548
N1965 Tyler D 90 ○ 920 563 3011
N1973 Bankar Edward 920 563 0288
N1996 Clemons M 920 568 8462
★ **Jones Joseph F** 83 ○ **920 563 5128**
★ **Light Shine Christmas Gift Hse** 83 ○ **920 563 5128**
★ **Savory Fare Cafe** **920 568 8186**
N1024 Val Douglas K 84 ○ 920 563 3643
N1932 Capsey D 85 ○ 920 563 5696
N1936 Anisdel Shari J 920 568 8159
Blossfeld Matthew 920 568 8415
N1945 Sanders J 920 568 9621
N1949 ★ **G B Electric Motor Service Inc** 98 **920 568 9240**
N1957 ★ **Bitz s Outer Limits** 94 **920 563 3773**
Heiser Anita G 97 920 563 1457
N2952 Olson Gale 920 691 0127
N3019 ★ **Lavigne Bus Co Inc** 98 **920 563 1515**
Sponberg Lennart H 99 920 568 9551
N3020 Onasch Belinda 02 ○ 920 563 3620
Onasch Greg 02 ○ 920 563 3620
N3069 Baird P J 87 ○ 920 563 3223
N3104 Olson Tammy 920 568 9936
Schifferl Bonnie 95 920 563 1595
Schifferl Joe 95 920 563 1595
N3114 Mcgowan David 920 563 3461
Thorwald Don 97 920 563 8617
N3121 Abel Donna 87 ○ 920 563 6206
Abel Robert 87 ○ 920 563 6206
N3187 Knox Rodney 920 563 5625
Knox Todd 01 ○ 920 563 1081
N6533 ♣ Anderson Lara 920 568 0257
N6725 ♣ Mull James 920 563 7244
N6898 ♣ Rode Thomas 920 563 9686
N9050 ♣ ★ **What s The Point** 94 **920 563 9992**
N7472 ♣ Hinstorff James 920 563 2074
Hinstorff Jean 920 563 2074
N7575 ♣ Telfer Gary 99 920 563 6884
N7847 ♣ Schroedl Kim 920 563 8871
N7937 ♣ Casey Shawn 920 568 9125
♣ Chapman Sue 920 568 9125
N8274 ♣ Dehan Selim 920 568 1737
N8385 ♣ Jensen Larry 920 563 9413
♣ Jensen Pam 920 563 9413
N8514 ♣ Schroeder Randy 920 563 2521
N8528 ♣ ★ **Oakland Twn** 94 **920 563 9198**
N8545 ♣ Menge Laune A 920 568 9412
♣ ★ **Putt z Inn** 00 **920 568 9821**
W6425 Adamus John R 92 ○ 920 563 8134
Adamus Sally 92 ○ 920 563 8134
W6429 Fiege Jason A 98 ○ 920 568 9568
W6637 ★ **Ca Systems Inc** 85 **920 563 7279**
W6744 Gottschalk Robert J 84 ○ 920 563 9091
W6844 Hamer B J 96 ○ 920 563 3481
W7485 Punsel Jon 99 ○ 920 563 8053
Punsel Pam 99 ○ 920 563 8053
W7492 Kraus Michael 98 ○ 920 563 7319
W7504 Schroedl Troy 96 ○ 920 563 3437
W7508 Gray Todd 97 ○ 920 563 6397
Gray Tracy 97 ○ 920 563 6397
W7655 Heil Cynthia 94 ○ 920 563 9146
Heil John 94 ○ 920 563 9146
W7742 Raatz Helen 97 ○ 920 568 1736
Raatz Philip 97 ○ 920 568 1736
W7772 Behling Harvey T 91 ○ 920 563 3401
W7791 Webster Andrew 00 ○ 920 563 7617
W7847 Schroedl Kim 92 ○ 920 563 2848
Schroedl Thomas 92 ○ 920 563 2848
W7934 Ehrke Jean 85 ○ 920 563 4608
Ehrke William 85 ○ 920 563 4608
W7996 Gierach Jill 01 ○ 920 568 1143
Gierach Larry 01 ○ 920 568 1143
W8032 Perry James 00 ○ 920 568 9394
W8129 Armstrong Joanne 96 ○ 920 563 0369
Armstrong Wayne 96 ○ 920 563 0369
W8274 Dehan Selim 96 ○ 920 568 9119
W8385 Jensen Amber 84 ○ 920 563 8812
W8524 Powers George 92 ○ 920 563 8100
Powers Rose 92 ○ 920 563 8100
W8546 Menge Randy A 98 ○ 920 568 9823
W8556 ★ **Czupowski R** ○ **920 563 5113**
★ **Oakland Enterprse Auto Bdy Rpr** ○ **920 563 5113**
W8564 Czupowski R 89 ○ 920 568 0914
Czupowski S 89 ○ 920 568 0914
W8970 Haugen Debra 01 ○ 920 563 1007
Haugen Thomas 01 ○ 920 563 1007
W8596 Haywood Christian 97 ○ 920 568 9123
W8598 Hrobsky P 98 ○ 920 568 9003
NO # ♣ ★ **Timberlane Excavating LLC** **920 568 9524**

21 BUSINESS 115 RESIDENCE

U S HWY 18 53538

FORT ATKINSON

W7288 W7897 CT990602 $A

W7288 Ebert Leroy 96 920 674 2760
W7493 Banker Alice 920 674 4932
Kreger Irving 95 920 674 3001
Kreger M L 920-674 4786
W7698 Lethcoe Sherry 920-674 2961
W7697 Frisling Gary 92 ○ 920-648 2481

0 BUSINESS 6 RESIDENCE

VAN BUREN ST 53538

FORT ATKINSON

507 1222 CT991300 $B

▪ **RIVERSIDE DR**

507 Mckee Dave 84 ● 920 563 5604
508 Speilman Kellie 99 ● 920 568 0237
509 Pfaffin Kurt + ● NP
512 Kilroy John A ● 920 568 2863
514 Gallizzo Frank 920 568 9209
Marx Jasmine 920 568 6814
Punzel Melissa 920 563 2947
515 Long L S 99 ● 920 563 4537

▪ **MONROE ST**

600 Marks Steve 84 ● 920 563 7097
Marks Sue 84 ● 920 563 7097
603 Farrell Robert 920 563 2655
606 Oshel Buddy 90 ● 920 563 8373
Oshel Mary 90 ● 920 563 8373
608 Smothers Tom 98 ● 920 568 1167
609 Church Christopher 00 ● 920 568 1777
Church Dawn 00 ● 920 568 1777

▪ **JACKSON ST**

706 Gittelson Jacob + ● NP
709 Herman Jean 90 ● 920 563 3716
710 Pennewell Rodney 84 ● 920 563 3576
716 Thompson L A 920 563 ○ 5960
717 Hunsader Hugo + ● NP

▪ **RANKIN ST**

720 Koehn Peter 98 ● NP
Wilson Jim 920 568 8694
724 Long Clayton 99 ● 920 563 5305

▪ **COUNCIL ST**

802 Kneser Louis 89 ● 920 563 6390
804 Stork Harold 93 ● 920 563 4668
805 Lohman Thomas + ● NP
809 Garrett Jack 84 ● 920 563 9494
810 Blomgren Ronald A 91 ● 920 563 3748
812 Fresch Merlin 84 ● 920 563 4478
813 Meske Michael + ● NP
817 Erickson Donna + ● NP
825 Brahmstadt Kevin W 99 ● 920 563 4426
829 Pfeifer T 99 ● 920 563 3836

▪ **ROOSEVELT ST**

900 Klein Carol 99 ● 920 563 7964
Klein David 99 ● 920 563 7964
901 Denzin S K 84 ● 920 563 1404
904 ★ **Aldrich Consulting LLC** 98 **920 563 9021**
Aldrich M 92 ● 920 563 3058
905 Bening Richard 920 563 4939
912 Moldenhauer Ben 920 563 6896

▪ **SHIRLEY ST**

1014 Litscher Mark 01 ● 920 568 8508
1015 Bugs Scott 84 ● 920 563 2380

▪ **LUCILLE ST**

1110 Olleson Dewey 91 ● 920 568 0250
1116 Amadon Jill 84 ● 920 563 8026
Amadon William 84 ● 920 563 8025
1119 Andrew David + ● NP
1120 Simdon Robert O Jr 84 ● 920 563 3006

▪ **WILSON AVE**

1222 Shorey Robert G 84 ● 920 563 2087

1 BUSINESS 48 RESIDENCE

VETERANS LN 53538

FORT ATKINSON

E N2050 N2080 CT991201 $A

N2080 Zah Robert M 86 920 563 4343

0 BUSINESS 1 RESIDENCE

VICKERMAN RD 53538

FORT ATKINSON

N152 W7364 CT991201 $A

N152 Cooper Paul M 92 920 563 9119
N202 Lemke Ken 97 ○ 920 563 7345
N217 Gregoire Skip 89 ○ 920 563 9132
N251 Jewell David 95 ○ 920 568 1083
Jewell Leann 95 ○ 920 568 1083
N257 Hosier Donald 90 ○ 920 563 3400
N304 Baines D 00 920 563 9863
Brower Keith R 920 568 9402
Wendorf Mark 99 920 568 1211
Wendorf Wendy 99 920 568 1211
W7348 Moody Jenny 89 ○ 920 563 8784
Moody Louis F 89 ○ 920 563 8784
W7364 Marmes Brian E 90 ○ 920-563 4511
Marmes Doreen 90 ○ 920 563 4511

0 BUSINESS 14 RESIDENCE

N VICKERMAN RD 53538

FORT ATKINSON

E 11546 11944 CT003200 $B

▪ **E SCHMIDT RD**

11546 Dettman Alan J 88 ● 920 563 3144

▪ **COUNTY LINE RD**

11840 Retzlaff James W 92 ● 920 568 1604
11944 Nead Darrell 02 ● 920 568 0904
Nead Melinda 02 ● 920 568 0904

0 BUSINESS 4 RESIDENCE

VINNE HAHA RD 53538

FORT ATKINSON

N915 N1151 CT991201 $A

N915 Zimmerman Stephen L 02 ○ 920 563 4529
Zimmerman Sue E 02 ○ 920 563 4529
N935 Leetzow Charles 94 ○ 920 563 5925
Leetzow Vera 94 ○ 920 563 5925
N941 Flusch D D 86 ○ 920 563 2187
N945 Hemig Marguerite 920 568 8509
N950 Wagner Willard 00 ○ 920 568 0272
N953 Weitend Richard 84 ○ 920 563 6821
N959 Schiffner Frank 920-563 3950
N962 Langhoff Paula 920 568 9083
Langhoff Scott 920 568 9083
N963 Wagner Robert F 85 ○ 920 568 9478
N965 ★ **Karczewski Robert J Dr** 94 **920 563 4824**
N971 Adams Chet 84 ○ 920 563 9850
N978 Corr Terry 920 691 0117
N983 Burnett Ronald S 00 ○ 920 563 1401
N984 Welch John 98 ○ 920 568 9806
Welch Laura 96 ○ 920 568 9806
N987 Smith Edgar 94 ○ 920 563 2882
N1004 Defnes John M 87 ○ 920 563 9464
N1005 Cain Robert S 01 ○ 920 563 2608
N1007 Butt Sylvia 02 ○ 920 568 9044
N1011 Summerville Mccauley Mary 00 ○ 920 563 6248
N1012 Strohbusch Jim 94 ○ 920 563 7162
N1017 Short John H 94 ○ 920 563 7441
N1020 ★ **Martin Ronald** 93 ○ **920 563 3165**
★ **Midwest Prairies** 93 ○ **920 563 3165**
N1025 Donaldson Ron 84 ○ 920 563 7592
N1031 Crooks K 920 691 0112
N1035 Barlow L 02 920 568 9409
Frame Andrew J 03 920 568 2898
Hudson Joshua 920 568 0211
N1042 Swart Christopher 97 ○ 920 568 1150
N1045 Fiedler K 84 ○ 920 563 4311
N1046 Kuntz Marvin 88 ○ 920 563 8397
N1049 Kelly Robert J 92 ○ 920 563 5409
N1052 Long Shirley 920 568 0859
N1055 Casey M P 920 563 5948
Casey Matthew P 00 ○ 920 563 6074
N1059 Cheek L D 96 920 563 2335
Hannam A 96 920 563 2335
N1064 Schaefer William Jr 91 ○ 920 563 2864
N1067 Bauer C 92 ○ 920 563 9947
N1068 Hulsteen Christopher L 98 ○ 920 568 8842
N1075 Swift Marilyn J 00 ○ 920 563 8704
N1077 Nosek D 920 568 8572
N1079 Beinlich Candice L 00 ○ 920 568 1936
N1085 Sandvik Martin A 99 ○ 920-568 9808
N1087 Karzabatsos Dean 00 ○ 920-563 8983
N1088 ★ **Krizsan Tree Service** 65 **920 563 6407**
N1097 Lazier Robert 87 ○ 920-563 8221
N1105 Knipp Marilyn 00 ○ 920-563 2383
Knipp Roland 00 ○ 920 563 2383
N1109 Bigomer Nick 01 ○ 920 563 4403
N1111 Lukasz Allan 00 ○ 920 563 3966
N1112 Schmitz David 90 ○ 920 563 9557
Schmitz David A 920 568 9533
N1119 Gordon Terry 87 ○ 920 563 8735
N1126 Walsh Terry M 00 ○ 920 568 9730
N1133 Payson Charles 91 ○ 920 563 9125
Payson Evelyn 91 ○ 920 563 9125
N1139 Miller Paul 94 ○ 920 563 0920
N1151 Barra Austin 94 920 563 5377
Giuliani Ralph 94 920 563 5377
NO # ♣ Rouse B 02 920 563 8571

4 BUSINESS 61 RESIDENCE

N WALNUT LN 53538

FORT ATKINSON

11506- 11556 CT003100 $B

11506 Napert Gregory 92 ● 920 563 2068
11527 Bussler Jack 92 ● 920 563 9179
11530 Narkis Lawrence 95 ● 920 563 8629
Narkis Mary 95 ● 920 563 8629
11537 Jewer Al 92 920 563 9935
11556 Allen Gary 93 ● 920-563 7067
Allen Laree 93 ● 920-563 7067

▪ **E SCHMIDT RD**

0 BUSINESS 7 RESIDENCE

WALTON CT 53538

FORT ATKINSON

NO LISTINGS

WALTON ST 53538

FORT ATKINSON

NO LISTINGS

WASHINGTON ST 53538

FORT ATKINSON

201 646 CT991300 $B

▪ **SHERMAN AVE W**

201 ★ **Bumper To Bumper Ato Prts Str** **920-563 6341**
203 ★ **Citifinancial** **920-563 5587**
Dickrell Jeffrey + ● NP
207 ★ **Ace Hardware** 76 **920-563 8677**

▪ **BARRIE ST**

300 ★ **Tucker's Too** 00 **920 568 9330**
306 ★ **Mercy Assisted Care Med Eqp** **920 563 2054**
308 ★ **Ben Franklin Crafts** **920 568 1034**
328 ★ **Sentry Floral** **920 563 7614**
★ **Sentry Food Store** 88 **920 563 3531**

▪ **MADISON AVE**

406 Meierendorf Cheryl 01 920 568 3837
Thomas E M 01 920-563 5841
410 Buchanan Michael F 84 ● 920 563 9074
411 Garthwait Richard ● 920 563 4372
Garthwait Richard 84 ● 920 563 5828
Garthwait Sandy ● 920 563 4372
Garthwait Sandy 84 ● 920 563 5828
417 Schommer Gary L 94 ● 920 568 0126
421 Dabel Eugene + ● NP
422 Luker Bruce 01 ● 920 568 1731
426 Redenius Jennifer 01 ● 920 563 6823
427 Traxler Manon D 84 ● 920 563 3624
429 Nicolosi Mary Sr 90 ● 920 563 4784
Nicolosi Terry Sr 90 ● 920 563 4784
432 Fyfe D J 00 ○ 920 568 0647
433 Farris Marilyn + ● NP
Fuerstenau William J 99 920 568 0803
434 Homann Tracie ● 920 568 0190
437 Steinke Adam D 94 ○ 920 568 1584
439 Black Francis D 95 ○ 920 563 3690
440 Schoonover Laura 95 ● 920 568 8594
Schoonover Rick 95 ● 920 568 8594
441 Sherman George W 920 563 5496
444 Heussner Robert 920 568 0444
445 Haag James ● 920 563 5890
Haag Sara 84 ● 920 563 8853
448 Roennebeurg Gordon 92 ● 920 563 2557
Roennebeurg Marilyn 92 ● 920 563 2557

▪ **HARRISON ST**

500 Albert Mike 90 ● 920 563 4867
Albert Pam 90 ● 920 563 4867
501 Burrow Ervin 84 ● 920 563 5697
506 Sime Diane L 01 ○ 920 568 9358
509 Kirchmayer William F 85 ● 920-563 3780
510 Verhalen Dennis 91 ● 920 563 8130
513 Hemp Christopher D ● 920 568 8460
514 Strasburg Doug 92 ● 920 563 9500
Strasburg Julie 92 ● 920 563 9500
518 Kaempfer Angela 98 ● 920-568 0876
Kaempfer Keith 98 ● 920-568 0876

ADDRESS

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Site Assessment Search Results

Wisconsin Department of Agriculture, Trade and Consumer Protection

Bureau of Agrichemical Resource Management
PO Box 8911
Madison, WI 53708-8911

Telephone (608) 224-4518 **(for questions regarding this report)**

Facility/Case Name	Address	City	County	Public Land Survey Location	Status and Date	Case ID	Spill No
BULK AGRICHEMICAL STORAGE AND/OR MIX/LOAD FACILITIES							
KRON DAVID	W1766 PRAIRIE RD	BURLINGTON	WALWORTH	TN, R, SEC , Q, QQ	ACTIVE 4/5/2007		
CROP PRODUCTION SERVICES INC	101 N 3RD ST	DARIEN	WALWORTH	T14N, R20E, SEC 11, SEQ, SWQQ	ABANDO 2/3/1992		
BURLINGTON CONSUMERS COOPERATIVE	2011 CHURCH ST	EAST TROY	WALWORTH	TN, R, SEC , Q, QQ	ABANDO 1/1/1994		
BURLINGTON CONSUMERS COOPERATIVE	N8265 COUNTY ROAD N	EAST TROY	WALWORTH	T04N, R17E, SEC 23, SEQ, NEQQ	OUT-OF- 1/12/2000		
BURLINGTON CONSUMERS COOPERATIVE	2010 CHURCH ST	EAST TROY	WALWORTH	TN, R, SEC , Q, QQ	ABANDO 1/1/1994		
COOPERATIVE PLUS INC	N8265 COUNTY ROAD N	EAST TROY	WALWORTH	T04N, R17E, SEC 23, SEQ, NEQQ	OUT-OF- 1/9/2012		
LANDMARK SERVICES COOPERATIVE	N8265 COUNTY ROAD N	EAST TROY	WALWORTH	T04N, R17E, SEC 23, SEQ, NEQQ	ACTIVE 1/9/2012		
AG AVIATION SERVICE INC	N5895 COUNTY ROAD O	ELKHORN	WALWORTH	T03N, R16E, SEC 20, SWQ, NWQQ	ABANDO 6/20/2016		
CONSERV FS INC	401 E CENTRALIA ST	ELKHORN	WALWORTH	T02N, R17E, SEC 06, NWQ, NWQQ	ABANDO 2/17/2015		
CONSUMERS COOPERATIVE OF WALWOR	311 W CENTRALIA ST	ELKHORN	WALWORTH	T02N, R17E, SEC 06, NWQ, SWQQ	OUT-OF- 2/17/2000		
COOPERATIVE PLUS INC	311 W CENTRALIA ST	ELKHORN	WALWORTH	T02N, R17E, SEC 06, NWQ, SWQQ	ABANDO 1/12/2004		
DELONG CO INC	W6406 COUNTY ROAD A	ELKHORN	WALWORTH	T03N, R16E, SEC 09, NWQ, SWQQ	ACTIVE 9/14/2018		
ELKO SOLUTIONS INC	309 E CENTRALIA ST	ELKHORN	WALWORTH	T02N, R17E, SEC 06, NWQ, NWQQ	OUT-OF- 2/12/2001		
HELENA CHEMICAL COMPANY	W6406 COUNTY ROAD A	ELKHORN	WALWORTH	T03N, R16E, SEC 09, NWQ, SWQQ	OUT-OF- 9/21/2018		
MILLARD FEED MILL INC	976 PROCTOR DR	ELKHORN	WALWORTH	T02N, R17E, SEC 06, SEQ, NWQQ	ABANDO 1/1/2010		
MILLARD FEED MILL INC	W6406 COUNTY ROAD A	ELKHORN	WALWORTH	T03N, R16E, SEC 09, NWQ, SWQQ	OUT-OF- 7/29/2014		
NORTHERN FS INC	401 E CENTRALIA ST	ELKHORN	WALWORTH	T02N, R17E, SEC 06, NWQ, NWQQ	OUT-OF- 12/7/2005		
TWIN STATE INC	309 E CENTRALIA ST	ELKHORN	WALWORTH	T02N, R17E, SEC 06, NWQ, NWQQ	ACTIVE 2/12/2001		

Requested Geographic Area: **City:**

County: **WALWORTH**

Facility/Case Name	Address	City	County	Public Land Survey Location	Status and Date	Case ID	Spill No
BURLINGTON CONSUMERS COOPERATIVE	181 S CARTER ST	GENOA CITY	WALWORTH	T01N, R18E, SEC 35, NEQ, SEQQ	OUT-OF- 2/17/2000		
COOPERATIVE PLUS INC	181 S CARTER ST	GENOA CITY	WALWORTH	T01N, R18E, SEC 35, NEQ, SEQQ	OUT-OF- 1/9/2012		
LANDMARK SERVICES COOPERATIVE	181 S CARTER ST	GENOA CITY	WALWORTH	T01N, R18E, SEC 35, NEQ, SEQQ	ACTIVE 1/9/2012		
BAREFOOT GRASS LAWN SERVICE INC	N792 BOLLINGER RD	SHARON	WALWORTH	T01N, R15E, SEC 28, SEQ, SEQQ	ABANDO 1/1/1997		
DELONG CO INC	N1962 COUNTY ROAD K	SHARON	WALWORTH	T01N, R15E, SEC 12, NWQ, SWQQ	ACTIVE 11/5/1998		
MERIT CHEMICAL INC	165 PARK AVE	SHARON	WALWORTH	T01N, R15E, SEC 33, SEQ, NWQQ	ABANDO 7/23/1997		
SHARON FARM SUPPLY INC	135 NORTH ST	SHARON	WALWORTH	T01N, R15E, SEC 33, NWQ, SEQQ	ABANDO 1/14/1996		
KAISER ALUMINUM & CHEMICAL CORPO	W9144 STATE ROAD 59	WHITEWATER	WALWORTH	T04N, R15E, SEC 08, SWQ, NEQQ	ABANDO 1/1/1984		
KAISER ALUMINUM & CHEMICAL CORPO	W9144 STATE ROAD 59	WHITEWATER	WALWORTH	T04N, R15E, SEC 08, SWQ, NWQQ	ABANDO 1/1/1984		
CONSERV FS INC	W3825 FOREST GLEN RD	ZENDA	WALWORTH	T01N, R17E, SEC 28, SEQ, SWQQ	ABANDO 10/1/2013		
CONSERV FS INC	W3825 FOREST GLEN RD	ZENDA	WALWORTH	T01N, R17E, SEC 28, SEQ, SWQQ	ACTIVE 12/7/2005		
CONSERV FS INC	W4147 COUNTY ROAD B	ZENDA	WALWORTH	T01N, R17E, SEC 29, SEQ, NEQQ	ACTIVE 12/7/2005		
MCHENRY FS INC	W3825 FOREST GLEN RD	ZENDA	WALWORTH	T01N, R17E, SEC 28, SEQ, SWQQ	OUT-OF- 1/1/1992		
NORTHERN FS INC	W4147 COUNTY ROAD B	ZENDA	WALWORTH	T01N, R17E, SEC 29, SEQ, NEQQ	OUT-OF- 12/7/2005		
NORTHERN FS INC	W3825 FOREST GLEN RD	ZENDA	WALWORTH	T01N, R17E, SEC 28, SEQ, SWQQ	OUT-OF- 12/7/2005		
PESTICIDE MISUSE INVESTIGATION SITES							
DAVID R KRON DBA DAVES SEEDS @ BUR	W1766 PRAIRIE RD	BURLINGTON	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 2/23/2007	06431030201	
BILSKY/BONIFACE	414 SWEET RD	DARIEN	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 9/3/1998	98410080502	
DRYMALSKI	N3725 OLD STATE ROAD 89	DARIEN	WALWORTH	T02N, R15E, SEC 22, NWQ, QQ	CLOSED 0/26/1998	98414062903	
WES HOPKINS V CONSERV FS INC/DAN HA	8160 STATE ROAD 11	DARIEN	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 5/22/2018	15706060120	
BRIAN HELLER & JASON HIBBS/LIBERTY L	N7070 COUNTY ROAD P	DELAVAN	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 10/3/2018	16734100314	
DELEVAN POINT APTS/LOWELL MGMT CO	DELAVAN POINTE APART	DELAVAN	WALWORTH	T02N, R15E, SEC 13, SWQ, QQ	CLOSED 1/28/2003	02414062602	
JIM BAKER/MILLARD FEED MILL/ALLEN G	COUNTY ROAD O & SWEET	DELAVAN	WALWORTH	T02N, R16E, SEC 30, SWQ, SWQQ	CLOSED 1/22/2009	08410071602	
KATE WILLET/TRUGREEN CHEMLAWN	112 S VINE ST	DELAVAN	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 1/8/2002	01414051106	
RICK SALLMANN/ALLEN GUTHRIE	W8486 TURTLE LAKE RD	DELAVAN	WALWORTH	T03N, R15E, SEC 16, NWQ, SEQQ	CLOSED 6/4/2003	01420080101	
SONJA SCHLESNER/JIM TERPSTRA	N4750 COUNTY ROAD O	DELAVAN	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 0/26/2010	10431060701	
WAYNE REDENIUS V MF HELICOPTER/M F	W8411 TURTLE LAKE RD	DELAVAN	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 3/18/2016	15716080320	
ADSIT/BURLINGTON CONSUMERS COOP	W4156 STATE ROAD 20	EAST TROY	WALWORTH	T04N, R17E, SEC 29, Q, QQ	CLOSED 3/14/2000	99414082501	
ADSIT/BURLINGTON CONSUMERS COOP	W4156 STATE ROAD 20	EAST TROY	WALWORTH	T04N, R17E, SEC 20, Q, QQ	CLOSED 3/14/2000	99414082501	

Requested Geographic Area: **City:**

County: WALWORTH

Facility/Case Name	Address	City	County	Public Land Survey Location	Status and Date	Case ID	Spill No
ANON/CHRIS MANN DBA KETTLE MORAIN	2167 MILL ST	EAST TROY	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 3/11/2010	09410010602	
ANON/CHRIS MANN DBA KETTLE MORAIN	2167 MILL ST	EAST TROY	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 3/11/2010	09410010602	
CAROL HOPPE/RACINE COUNTY SHERIFF/	33701 HILL VALLEY RD	EAST TROY	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 11/4/2011	11431042101	
CHERYL TRUDELL/TRUGREEN LP	2950 AUSTIN ST	EAST TROY	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 2/20/2001	00414080702	
MARK ADSIT/TOM TREFFINGER/MOR-AGR	CARVER SCHOOL RD	EAST TROY	WALWORTH	T04N, R18E, SEC 27, SWQ, SWQQ	CLOSED 1/30/2007	06410060802	
	W5508 SCHMIDT RD	ELKHORN	WALWORTH	T03N, R16E, SEC 23, Q, QQ	CLOSED 6/18/1998	97414061003	
ANON V LANDSCAPE CONCEPTS MANAGE	211 E GENEVA ST	ELKHORN	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 4/8/2015	13431072603	
ANON V LANDSCAPE CONCEPTS MANAGE	211 E GENEVA ST	ELKHORN	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 4/8/2015	13431072603	
COOK/MILLARD FEED MILL	W6362 DUNHAM SCHOOL R	ELKHORN	WALWORTH	T03N, R16E, SEC 28, SEQ, SEQQ	CLOSED 3/6/2001	00414100206	
COOK/MILLARD FEED MILL/LIESCH ENVIR	FOSTER RD	ELKHORN	WALWORTH	T03N, R16E, SEC 23, NEQ, QQ	CLOSED 6/27/2002	00414100204	
COOK\CULLEN\MILLARD FEED MILL	N6402 MILLARD RD	ELKHORN	WALWORTH	T03N, R16E, SEC 16, NWQ, QQ	CLOSED 7/17/1998	97414062501	
DENNIS LICHNER V ALLEN GUTHRIE	N7375 COUNTY ROAD H	ELKHORN	WALWORTH	T04N, R16E, SEC 33, SEQ, SEQQ	CLOSED 2/19/2016	14716070820	
DERRICK PAPCKE/PAPCKE FARMS/CONSE	W7115 COUNTY ROAD A	ELKHORN	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 4/26/2011	10410071901	
DERRICK PAPCKE/PAPCKE FARMS/CONSE	W7115 COUNTY ROAD A	ELKHORN	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 4/26/2011	10410071901	
DOUGLAS BLUME V MATHEW ROSSETTI/S	W5677 DEER PATH TRL	ELKHORN	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 4/11/2019	16716082320	
ELLEN VANDER BEKE/BACK NINE AERIAL	N6900 MCCABE RD	ELKHORN	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 2/18/2015	14706080520	
GUTHRIE\GREENQUIST\SHARPE\TAUSCHE	W5257 CHANTENAY TER	ELKHORN	WALWORTH	T3N, R16E, SEC 12, Q, QQ	CLOSED 4/22/1999	97414061704	
JIM SPECIALE/ALLEN GUTHRIE/MILLARD	N5412 COUNTY ROAD H	ELKHORN	WALWORTH	T03N, R16E, SEC 25, Q, QQ	CLOSED 4/5/2013	11415060201	
JIM SPECIALE/ALLEN GUTHRIE/MILLARD	N5412 COUNTY ROAD H	ELKHORN	WALWORTH	T03N, R16E, SEC 25, Q, QQ	CLOSED 4/5/2013	11415060201	
JON DE LANGE/TED GRANT/MILLARD FEE	N5750 COUNTY ROAD H	ELKHORN	WALWORTH	T03N, R16E, SEC 23, SWQ, SEQQ	CLOSED 7/26/2006	06410033101	
JOSHUA SKOLINCK V KONICHEK/ZIELIE'S	STATE ROAD 67 AND TOW	ELKHORN	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 10/17/2017	16412112920	
KEN J STOPPLE FARM @ ELKHORN	N3945 COUNTY ROAD H	ELKHORN	WALWORTH	T02N, R17E, SEC , Q, QQ	CLOSED 5/30/2007	06410032101	
KEN MARTIN/WILLIAM WEISENSEL	W2256 STATE ROAD 11	ELKHORN	WALWORTH	T03N, R18E, SEC 30, NEQ, SWQQ	CLOSED 2/20/2001	00414080105	
KENNETH MARTIN/AG AVIATION SV INC	W2256 STATE ROAD 11	ELKHORN	WALWORTH	T03N, R18E, SEC 30, NEQ, SWQQ	CLOSED 1/16/2002	01414090504	
LAUDERDALE LAKES LANDSCAPING SER	N7590 US HIGHWAY 12 AN	ELKHORN	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 10/14/2005	04414101804	
MIKE ETTEN/NORTHERN FS/STEARNS	SPRINGFIELD	ELKHORN	WALWORTH	T02N, R17E, SEC 14, Q, QQ	CLOSED 3/28/2005	03414070204	
MIKE KREJCI/ALLEN GUTHRIE	W6676 SHORE WOODS DR	ELKHORN	WALWORTH	T03N, R16E, SEC 05, NEQ, QQ	CLOSED 4/3/2013	11410052301	
MIKE KREJCI/ALLEN GUTHRIE	W6676 SHORE WOODS DR	ELKHORN	WALWORTH	T03N, R16E, SEC 05, NEQ, QQ	CLOSED 4/3/2013	11410052301	
MILLARD FEED MILL INC @ ELKHORN	W6406 COUNTY ROAD A	ELKHORN	WALWORTH	T03N, R16E, SEC 09, NWQ, SWQQ	CLOSED 1/15/2006	05410062201	
NORTH LAKE @ ELKHORN/DNR	W6627 N LAKE SHORE DR	ELKHORN	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 1/28/2003	02414082803	

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OLECHOWSKI/LUCK/TRUGREEN	N7428 COUNTRY CLUB RD	ELKHORN	WALWORTH	T04N, R16E, SEC 36, SWQ, QQ	CLOSED 4/13/2000	99414061701	
OLECHOWSKI/MEYER/TRUGREEN CHEML	N7428 COUNTRY CLUB RD	ELKHORN	WALWORTH	T04N, R16E, SEC 36, SWQ, QQ	CLOSED 4/13/2000	99414072301	
PHIL CULLEN V ALLEN GUTHRIE	N6402 MILLARD RD	ELKHORN	WALWORTH	T03N, R16E, SEC 16, NWQ, QQ	CLOSED 3/9/2015	14716082220	
PHIL CULLEN V ALLEN GUTHRIE	N6402 MILLARD RD	ELKHORN	WALWORTH	T03N, R16E, SEC 16, NWQ, QQ	CLOSED 0/18/2016	16706050920	
PHIL CULLEN/ALLEN GUTHRIE	W6932 COUNTY ROAD A	ELKHORN	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 4/4/2013	11431053101	
PHIL CULLEN/ALLEN GUTHRIE	N6402 MILLARD RD	ELKHORN	WALWORTH	T03N, R16E, SEC 16, NWQ, QQ	CLOSED 3/30/2005	03414052305	
PHIL CULLEN/ALLEN GUTHRIE @ ELKHOR	N6402 MILLARD RD	ELKHORN	WALWORTH	T03N, R16E, SEC 16, NWQ, QQ	CLOSED 8/2/2005	05414041108	
PHIL CULLEN/ALLEN GUTHRIE @ ELKHOR	N6402 MILLARD RD	ELKHORN	WALWORTH	T03N, R16E, SEC 16, NWQ, QQ	CLOSED 4/15/2008	07410051501	
RICK SALLMANN/TRU GREEN CHEMLAW	W5880 LORY RD	ELKHORN	WALWORTH	T03N, R16E, SEC 27, SEQ, QQ	CLOSED 2/23/2003	03414052803	
RON POPILEK V WILBUR-ELLIS/BRIAN SA	W3905 SCOTCH BUSH RD	ELKHORN	WALWORTH	T03N, R17E, SEC 09, NEQ, NWQQ	CLOSED 7/15/2015	14706061120	
RON POPILEK/BLUE RIVER AG SUPPLY/CH	W3905 SCOTCH BUSH RD	ELKHORN	WALWORTH	T03N, R17E, SEC 09, NEQ, NWQQ	CLOSED 4/22/2014	13410052205	
RON POPILEK/BLUE RIVER AG SUPPLY/CH	W3905 SCOTCH BUSH RD	ELKHORN	WALWORTH	T03N, R17E, SEC 09, NEQ, NWQQ	CLOSED 4/22/2014	13410052205	
SCUREK FARMS LLC @ ELKHORN	W3397 COUNTY ROAD A	ELKHORN	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 8/8/2011	08410090901	
WILLIAM HAMILTON V SCOTT MASON	W5241 STEWART DR	ELKHORN	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 1/21/2017	17738060121	
FONTANA POLICE DEPT/UNKNOWN	432 HARVARD AVE	FONTANA	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 0/15/2007	07431060601	
JAMES M MACKOWIAK/BIG FOOT COUNT	770 SHABBONA DR	FONTANA	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 1/20/2001	01414100102	
OFFICER AARON WEST/MICHAEL WILKIIN	679 SHABBONA DR	FONTANA	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 10/9/2017	17738060720	
DOROTHY MARTIN/DONALD ALVIN	22 JOYCE ST	GENOA CITY	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 4/13/2000	99414061603	
LAWRENCE FRIED/GENOA CITY ROADS &	263 DEER PATH DR	GENOA CITY	WALWORTH	T01N, R18E, SEC 25, Q, QQ	CLOSED 8/7/2007	07410062501	
OPERZEDEK/ANONYMOUS	9348 404TH AVE	GENOA CITY	WALWORTH	T01N, R19E, SEC 19, Q, QQ	CLOSED 3/8/2000	99414082703	
POLANSKY/LOIS	W632 HAFS RD	GENOA CITY	WALWORTH	T01N, R18E, SEC 11, Q, QQ	CLOSED 8/3/1998	97414060901	
STEVEN GUTSCHIEK/STUART& KENNETH	10204 404TH AVE	GENOA CITY	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 1/22/2004	04414051408	
ALICE WILLY/M A DILLA	N3396 ELFIN PL	LAKE GENEVA	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 8/28/2003	03414081802	
DNR/RICK ALEXANDER DBA ADVANCED	7036 GRAND GENEVA WAY	LAKE GENEVA	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 0/25/2005	04414042803	
EASTERN IA GRAIN V FARM CITY ELE\JAC	N473 ZENDA RD	LAKE GENEVA	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 1/20/2015	15706031120	
GOLDEN TREE/TOM GOOD	W3505 SNAKE RD	LAKE GENEVA	WALWORTH	T01N, R17E, SEC 03, Q, QQ	CLOSED 4/27/2009	07410011601	
JOHN BRENNAN V STEVE SNUDDEN	ZENDA RD	LAKE GENEVA	WALWORTH	T01N, R17E, SEC 21, NEQ, QQ	CLOSED 2/17/2014	14431070320	
JOHN BRENNAN/MARVIN GREVING	W3290 COUNTY ROAD NN	LAKE GENEVA	WALWORTH	T02N, R17E, SEC 02, NWQ, SWQQ	CLOSED 8/13/2009	08402070801	
JOHN BRENNAN/STEVE SNUDDEN	MAPLE RIDGE ROAD & CO	LAKE GENEVA	WALWORTH	T01N, R17E, SEC 29, NEQ, QQ	CLOSED 4/28/2006	05410062302	
LAURA SCHANZ/TRUGREEN CHEMLAWN	N2435 SNAKE RD	LAKE GENEVA	WALWORTH	T01N, R17E, SEC 04, NEQ, QQ	CLOSED 0/17/2008	07410061801	

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LAURA SCHANZ/TRUGREEN CHEMLAWN	N2435 SNAKE RD	LAKE GENEVA	WALWORTH	T01N, R17E, SEC 04, NEQ, QQ	CLOSED 10/17/2008	07410061801	
MARVIN GREVING/JOHN JC BRENNAN	W3290 COUNTY ROAD NN	LAKE GENEVA	WALWORTH	T02N, R17E, SEC 02, NWQ, SWQQ	CLOSED 8/13/2009	08402070701	
RICHARD ALEXANDER	N1886 LINN RD	LAKE GENEVA	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 4/29/2004	02414062402	
ROBERT JONES/JOHN BRENNAN		LAKE GENEVA	WALWORTH	T01N, R17E, SEC 21, NEQ, NWQQ	CLOSED 8/30/2001	01414042801	
STEVE RETZLAFF/SCOTT MICHAELS	N2020 COUNTY ROAD H	LAKE GENEVA	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 4/22/2003	00414042407	
CAROLYN BURKE/CRAWFORD AVIATION	N2104 PETERS RD	SHARON	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 9/15/2008	08418072101	
FRANSEEN/RINK/MORRIS	W9602 STATE LINE RD	SHARON	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 3/23/2000	99414060201	
KURT JUNGHEN/THE DELONG CO INC	N1962 COUNTY ROAD K	SHARON	WALWORTH	T01N, R15E, SEC 12, NWQ, SWQQ	CLOSED 1/24/2006	05410062301	
JOHN BRENNAN/STEVE SNUDDEN	4700 COBBLESTONE RD	WALWORTH	WALWORTH	T01N, R17E, SEC 30, NEQ, NEQQ	CLOSED 4/28/2006	05410080203	
MILTON VOSS/WALWORTH CTY HIGHWA	W6490 STATE ROAD 67	WALWORTH	WALWORTH	T01N, R16E, SEC 28, SWQ, SWQQ	CLOSED 8/4/2000	99414102503	
RICHARD WETTER/SCOTT MICHAELS	W6760 BRICK CHURCH RD	WALWORTH	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 7/6/2000	00414060502	
SCHWARTZ/ALDER/VANDALISM	317 BRENNAN DR	WALWORTH	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 3/17/2004	03414072302	
	W7883 TIMBER TR	WHITEWATER	WALWORTH	T03N, R15E, SEC 02, NEQ, QQ	CLOSED 6/18/1998	97414051601	
DIANA SHEKEY/LANDMARK SVCS/MF HEL	11609 E SALISBURY RD	WHITEWATER	WALWORTH	T04N, R14E, SEC 22, NEQ, QQ	CLOSED 4/10/2014	12431081001	
DIANA SHEKEY/LANDMARK SVCS/MF HEL	11609 E SALISBURY RD	WHITEWATER	WALWORTH	T04N, R14E, SEC 22, NEQ, QQ	CLOSED 4/10/2014	12431081001	
DNR V CLEAN LAKES INC/TOM MCNABB	STATE PARK RD	WHITEWATER	WALWORTH	T05N, R15E, SEC 34, Q, QQ	CLOSED 8/8/2014	13410071901	
DNR V CLEAN LAKES INC/TOM MCNABB	STATE PARK RD	WHITEWATER	WALWORTH	T05N, R15E, SEC 26, Q, QQ	CLOSED 8/8/2014	13410071901	
DNR V CLEAN LAKES INC/TOM MCNABB	STATE PARK RD	WHITEWATER	WALWORTH	T05N, R15E, SEC 25, Q, QQ	CLOSED 8/8/2014	13410071901	
DNR V CLEAN LAKES INC/TOM MCNABB	STATE PARK RD	WHITEWATER	WALWORTH	T05N, R15E, SEC 35, Q, QQ	CLOSED 8/8/2014	13410071901	
DNR V CLEAN LAKES INC/TOM MCNABB	STATE PARK RD	WHITEWATER	WALWORTH	T05N, R15E, SEC 34, Q, QQ	CLOSED 8/8/2014	13410071901	
DNR V CLEAN LAKES INC/TOM MCNABB	STATE PARK RD	WHITEWATER	WALWORTH	T05N, R15E, SEC 26, Q, QQ	CLOSED 8/8/2014	13410071901	
DNR V CLEAN LAKES INC/TOM MCNABB	STATE PARK RD	WHITEWATER	WALWORTH	T05N, R15E, SEC 25, Q, QQ	CLOSED 8/8/2014	13410071901	
DNR V CLEAN LAKES INC/TOM MCNABB	STATE PARK RD	WHITEWATER	WALWORTH	T05N, R15E, SEC 35, Q, QQ	CLOSED 8/8/2014	13410071901	
EVERTT SMITH/COOPERATIVE PLUS	N7490 COUNTY ROAD P	WHITEWATER	WALWORTH	T04N, R15E, SEC 36, SEQ, QQ	CLOSED 9/2/2010	10410062801	
JEFF EHLEN/LIQUI-GROW/RANDY TILCH	W7171 PETERSON RD	WHITEWATER	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 11/4/2008	08410042904	
JEFF EHLEN/LIQUI-GROW/RANDY TILCH	W7171 PETERSON RD	WHITEWATER	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 11/4/2008	08410042904	
NEAL FRAUENFELDER/STEVE BROKOPP	W7883 TIMBER TR	WHITEWATER	WALWORTH	T03N, R15E, SEC 02, NEQ, QQ	CLOSED 8/17/2000	00414051101	
ROGER QUADE/US FISH & WILDLIFE	N SCHARINE RD	WHITEWATER	WALWORTH	T03N, R14E, SEC 02, NEQ, SWQQ	CLOSED 2/4/2003	02420081203	
VANDIRST	TERRITORIAL RD	WHITEWATER	WALWORTH	T03N, R15E, SEC 09, NWQ, NWQQ	CLOSED 1/12/1998	98414041502	
DEPUTY/WILLIAM WILLIAMS/MIKE ALBER	27404 LONG LAKE RD	WIND LAKE	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 9/26/2005	05431072601	

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LAURA DEMPSEY/TRUGREEN CHEMLAWN	7819 TRILLIUM LN	WIND LAKE	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 4/1/2002	01410050101	
DAWN HUBER V JIM SCOTT/LAKELAND C	W3750 BUILDERS CT	ZENDA	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 4/11/2019	17738053120	
JOHN STOHR V FERNIE LEE DUSTERBECK/	W4147 COUNTY ROAD B	ZENDA	WALWORTH	T01N, R17E, SEC 29, SEQ, NEQQ	CLOSED 3/7/2019	18431061920	
STEVE SNUDDEN/JOHN & JERRY BRENNA	N815 ZENDA RD	ZENDA	WALWORTH	T01N, R18E, SEC 21, SEQ, NEQQ	CLOSED 9/6/2006	05410061702	
STEVE SNUDDEN/JOHN & JERRY BRENNA	N815 ZENDA RD	ZENDA	WALWORTH	T01N, R17E, SEC 22, SEQ, NWQQ	CLOSED 9/6/2006	05410061702	
LONGTERM INVESTIGATION AND REMEDIATION SITES							
CROP PRODUCTION-DARIEN	101 N 3RD ST	DARIEN	WALWORTH	T14N, R20E, SEC 11, SEQ, SWQQ	CLOSED 0/27/2000	91999020301	
BURLINGTON CONS COOP-EAST TROY	2010 CHURCH ST	EAST TROY	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 0/24/1992	92414042401	
COOPERATIVE PLUS INC- EAST TROY	N8265 COUNTY ROAD N	EAST TROY	WALWORTH	T04N, R17E, SEC 23, SEQ, NEQQ	CLOSED 3/14/2001	99414120203	
CPI/BURLINGTON CONSUMERS COOP - EA	2010 CHURCH ST	EAST TROY	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 11/7/2018	07410091801	
CONSUMERS COOP-ANHYDROUS PLANT -	NATHAN	ELKHORN	WALWORTH	T02N, R16E, SEC 01, SEQ, NEQQ	CLOSED 2/22/2011	95414052404	
CONSUMERS COOP-FERTILIZER PLANT-EL	311 W CENTRALIA ST	ELKHORN	WALWORTH	T02N, R17E, SEC 06, NWQ, SWQQ	CLOSED 2/8/2016	95414052499	
COOK/MILLARD FEED MILL	W6362 DUNHAM SCHOOL R	ELKHORN	WALWORTH	T03N, R16E, SEC 28, SEQ, SEQQ	CLOSED 3/6/2001	00414100206	
COOK/MILLARD FEED MILL/LIESCH ENVIR	FOSTER RD	ELKHORN	WALWORTH	T03N, R16E, SEC 23, NEQ, QQ	CLOSED 9/30/2002	00414100204	
ELKO SOLUTIONS-ELKHORN	309 E CENTRALIA ST	ELKHORN	WALWORTH	T02N, R17E, SEC 06, NWQ, NWQQ	CLOSED 5/17/2004	86410110401	
MILLARD FEED MILL INC-ELKHORN	W6406 COUNTY ROAD A	ELKHORN	WALWORTH	T03N, R16E, SEC 09, NWQ, SWQQ	CLOSED 6/8/2005	90414070301	
MILLARD FEED-ELKHORN	976 PROCTOR DR	ELKHORN	WALWORTH	T02N, R17E, SEC 06, SEQ, NWQQ	CLOSED 3/24/2000	99414071304	
NORTHERN FS - ELKHORN	401 E CENTRALIA ST	ELKHORN	WALWORTH	T02N, R17E, SEC 06, NWQ, NWQQ	CLOSED 5/3/2017	99414092204	
BURLINGTON CONSUMERS COOP - GENOA	181 S CARTER ST	GENOA CITY	WALWORTH	T01N, R18E, SEC 35, NEQ, SEQQ	CLOSED 1/29/2012	89415101702	
LANDMARK SERVICES COOP - GENOA CIT	181 S CARTER ST	GENOA CITY	WALWORTH	T01N, R18E, SEC 35, NEQ, SEQQ	OPEN 3/1/2018	18745022001	
DELONG CO - SHARON	N1962 COUNTY ROAD K	SHARON	WALWORTH	T01N, R15E, SEC 12, NWQ, SWQQ	CLOSED 9/20/2013	96414110502	
SHARON FARM SUPPLY-SHARON	135 NORTH ST	SHARON	WALWORTH	T01N, R15E, SEC 33, NWQ, SEQQ	CLOSED 1/29/1997	96414111202	
KAISER AG CHEMICAL-WHITEWATER	W9144 STATE ROAD 59	WHITEWATER	WALWORTH	T04N, R15E, SEC 08, SWQ, NWQQ	CLOSED 1/25/2006	89403120401	
KAISER AG CHEMICAL-WHITEWATER	W9144 STATE ROAD 59	WHITEWATER	WALWORTH	T04N, R15E, SEC 08, SWQ, NEQQ	CLOSED 1/25/2006	89403120401	
NORTHERN FS - ZENDA	W3825 FOREST GLEN RD	ZENDA	WALWORTH	T01N, R17E, SEC 28, SEQ, SWQQ	CLOSED 2/27/2018	04414081607	
NORTHERN FS - ZENDA	W4147 COUNTY ROAD B	ZENDA	WALWORTH	T01N, R17E, SEC 29, SEQ, NEQQ	CLOSED 4/25/2007	04414081606	
ACUTE AGRICHEMICAL SPILL SITES							
BONNER DON @BURLINGTON	N5611 COUNTY ROAD DD	BURLINGTON	WALWORTH	T04N, R18E, SEC 26, NEQ, NEQQ	CLOSED 9/27/2007	07410061201	07-32

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DEAN FOODS	W8880 COUNTY ROAD X	DARIEN	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 7/11/1995	95511070501	95-47
OVERBEEK - DELAVAN	W8866 KILKENNY RD	DELAVAN	WALWORTH	T03N, R15E, SEC 21, NWQ, NWQQ	CLOSED 1/24/1995	94403050503	94-09
RICHARD KUHNKE FARM	RICHMOND DELAVAN TO	DELAVAN	WALWORTH	T02N, R15E, SEC 02, NEQ, NEQQ	CLOSED 6/19/1995	95414060703	95-36
COOPERATIVE PLUS INC/PAYNE @EAST T	W1458 HONEY CREEK RD	EAST TROY	WALWORTH	T04N, R18E, SEC 33, NEQ, SWQQ	CLOSED 1/2/2002	00414051601	00-24
COOPERATIVE PLUS @EAST TROY	N8265 COUNTY ROAD N	EAST TROY	WALWORTH	T04N, R17E, SEC 23, SEQ, NEQQ	CLOSED 8/19/2002	02414062401	02-30
COOPERATIVE PLUS INC @EAST TROY	N8265 COUNTY ROAD N	EAST TROY	WALWORTH	T04N, R17E, SEC 23, SEQ, NEQQ	CLOSED 0/17/2003	03414012901	03-02
LIPSKA FRANCIS @EAST TROY	NB MM 32 INTERSTATE 43	EAST TROY	WALWORTH	T03N, R17E, SEC 11, Q, QQ	CLOSED 1/8/2010	09410072702	09-46
COOP PLUS INC @EAST TROY	N8265 COUNTY ROAD N	EAST TROY	WALWORTH	T04N, R17E, SEC 23, SEQ, NEQQ	CLOSED 8/18/2011	11410031601	11-02
COOPERATIVE PLUS INC @EAST TROY	N8265 COUNTY ROAD N	EAST TROY	WALWORTH	T04N, R17E, SEC 23, SEQ, NEQQ	CLOSED 6/19/2012	11410082501	11-37
NORTHERN FS @ELKHORN	401 E CENTRALIA ST	ELKHORN	WALWORTH	T02N, R17E, SEC 06, NWQ, NWQQ	CLOSED 12/6/2000	00414081403	00-47
TWIN STATE INC @ELKHORN	N5393 GRANVILLE RD	ELKHORN	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 2/29/2011	11410051703	11-15
MILLARD FEED MILL @ELKHORN	N7843 US HIGHWAY 12	ELKHORN	WALWORTH	T04N, R16E, SEC 25, SWQ, NEQQ	CLOSED 8/2/2012	12435032201	12-01
AGROLIANCE @ELKHORN	COUNTY ROAD A	ELKHORN	WALWORTH	TN, R, SEC , Q, QQ	CLOSED 1/21/2014	14410050802	14-04
LIQUI-GROW @ELKHORN	309 E CENTRALIA ST	ELKHORN	WALWORTH	T02N, R17E, SEC 06, NWQ, NWQQ	CLOSED 8/23/2016	16706052701	16-19
ELKO/CLAUSEN RD - ELKHORN	CLAUSEN RD	ELKHORN	WALWORTH	T03N, R18E, SEC 33, NEQ, SEQQ	CLOSED 2/21/1994	92414090204	92-16
ELKO/CLAUSEN RD - ELKHORN	CLAUSEN RD	ELKHORN	WALWORTH	T03N, R18E, SEC 33, NEQ, NEQQ	CLOSED 2/21/1994	92414090204	92-16
ELKO SOLUTIONS-ELKHORN	309 E CENTRALIA ST	ELKHORN	WALWORTH	T02N, R17E, SEC 06, NWQ, NWQQ	CLOSED 8/17/1993	93414070704	93-18
MILLARD FEED MILL INC @ELKHORN	COUNTY ROAD A	ELKHORN	WALWORTH	T03N, R16E, SEC 10, SEQ, NEQQ	CLOSED 8/18/1994	94414050910	94-10
WALWORTH CO HWY DEPT - ELKHORN	MM 12 EB INTERSTATE 43	ELKHORN	WALWORTH	T02N, R15E, SEC 31, SWQ, SWQQ	CLOSED 2/21/1994	94403091201	94-39
ELKO SOLUTIONS INC	309 E CENTRALIA ST	ELKHORN	WALWORTH	T02N, R17E, SEC 06, NWQ, NWQQ	CLOSED 5/12/1995	95414042407	95-07
ELKO SOLUTIONS INC	309 E CENTRALIA ST	ELKHORN	WALWORTH	T02N, R17E, SEC 06, NWQ, NWQQ	CLOSED 2/27/1996	95414092602	95-57
NORTHERN FS INC	300 E CENTRALIA ST	ELKHORN	WALWORTH	T02N, R17E, SEC 06, NWQ, NWQQ	CLOSED 12/6/1996	96414052302	96-35
MILLARD FEED MILL INC	W6406 COUNTY ROAD A	ELKHORN	WALWORTH	T03N, R16E, SEC 09, NWQ, SWQQ	CLOSED 8/22/1996	96414080203	96-70
ELKO SOLUTIONS INC	N5967 COBB RD	ELKHORN	WALWORTH	T03N, R17E, SEC 19, SEQ, NEQQ	CLOSED 0/17/1997	97414060605	97-46
ELKO SOLUTIONS INC @ELKHORN(WEAV	W3318 WEAVER RD	ELKHORN	WALWORTH	T02N, R17E, SEC 03, SEQ, SEQQ	CLOSED 11/4/1999	98402051801	98-18
ELKO SOLUTIONS @ELKHORN	309 E CENTRALIA ST	ELKHORN	WALWORTH	T02N, R17E, SEC 06, NWQ, NWQQ	CLOSED 0/25/1999	98414060802	98-37
LANDMARK COOP @GENOA CITY	MAIN ST BETWEEN FREEM	GENOA CITY	WALWORTH	T01N, R18E, SEC 35, SEQ, SWQQ	CLOSED 7/23/2012	12410051602	12-12
TWIN STATE INC @GENOA CITY	US HIGHWAY 12	GENOA CITY	WALWORTH	T01N, R18E, SEC 36, SWQ, SEQQ	CLOSED 8/31/2017	17738051013	17-06
BURLINGTON CONSUMERS COOPERATIVE	530 FREEMAN ST	GENOA CITY	WALWORTH	T01N, R18E, SEC 35, SEQ, NEQQ	CLOSED 0/13/1999	94414041104	94-05
BURLINGTON CONSUMERS COOP	181 S CARTER ST	GENOA CITY	WALWORTH	T01N, R18E, SEC 35, NEQ, SEQQ	CLOSED 6/6/1995	95414051701	95-01

Requested Geographic Area: **City:**

County: WALWORTH

Facility/Case Name	Address	City	County	Public Land Survey Location	Status and Date	Case ID	Spill No
BURLINGTON CONSUMERS COOP	181 S CARTER ST	GENOA CITY	WALWORTH	T01N, R18E, SEC 35, NEQ, SEQQ	CLOSED 7/29/1997	97414062503	97-56
WILLIAM LEONARD @LAKE GENEVA	BLOOMFIELD RD	LAKE GENEVA	WALWORTH	T01N, R18E, SEC 06, SWQ, NEQQ	CLOSED 1/14/2004	03414050502	03-09
UNKNOWN @LAKE GENEVA	LINTON RD	LAKE GENEVA	WALWORTH	T01N, R17E, SEC 22, NWQ, NWQQ	CLOSED 12/7/2015	15402051301	15-16
BRENNAN JOHN & IRENE - LAKE GENEVA		LAKE GENEVA	WALWORTH	T01N, R17E, SEC 20, NEQ, SEQQ	CLOSED 6/5/1993	90414051403	90-01
BURLINGTON CONSUMERS COOP - LAKE	W1765 LITCHFIELD RD	LAKE GENEVA	WALWORTH	T01N, R18E, SEC 17, NEQ, SEQQ	CLOSED 8/11/1995	93414051205	93-06
WALWORTH CO HIGHWAY DEPT	US HIGHWAY 12	LAKE GENEVA	WALWORTH	T02N, R18E, SEC 31, NEQ, SWQQ	CLOSED 0/20/1998	98414060205	98-33
DELONG CO @SHARON	N1962 COUNTY ROAD K	SHARON	WALWORTH	T01N, R15E, SEC 12, NWQ, SWQQ	CLOSED 8/18/2004	00414021604	00-02
DE LONG CO @SHARON	N1962 COUNTY ROAD K	SHARON	WALWORTH	T01N, R15E, SEC 12, NWQ, SWQQ	CLOSED 2/3/1999	98414121501	98-59
DELONG CO INC @WALWORTH	W4652 LAKEVILLE RD	WALWORTH	WALWORTH	T01N, R17E, SEC 31, NEQ, NWQQ	CLOSED 9/27/2007	07410051101	07-17
KAUER TOM @WALWORTH	SIX CORNERS RD	WALWORTH	WALWORTH	T01N, R16E, SEC 16, NWQ, NWQQ	CLOSED 1/11/2010	10410050601	10-09
CONSUMERS COOP - WALWORTH	SIX CORNERS RD	WALWORTH	WALWORTH	T01N, R16E, SEC 32, NEQ, NEQQ	CLOSED 1/25/1995	93414070904	93-19
DELONG CO INC	N771 PRAIRIE VIEW RD	WALWORTH	WALWORTH	T01N, R16E, SEC 30, NEQ, SEQQ	CLOSED 5/11/1997	96403050601	96-14
NORTHERN FS/PEARCE	W5740 WALWORTH RD	WALWORTH	WALWORTH	T01N, R16E, SEC 03, NEQ, NWQQ	CLOSED 2/19/1997	97414101701	97-80
NORTHERN FS/PEARCE	W5740 WALWORTH RD	WALWORTH	WALWORTH	T01N, R16E, SEC 03, NEQ, SEQQ	CLOSED 2/19/1997	97414101701	97-80
NORTHERN FS/PEARCE	W5740 WALWORTH RD	WALWORTH	WALWORTH	T01N, R16E, SEC 03, NEQ, NEQQ	CLOSED 2/19/1997	97414101701	97-80
NORTHERN FS/PEARCE	W5740 WALWORTH RD	WALWORTH	WALWORTH	T01N, R16E, SEC 02, NWQ, SEQQ	CLOSED 2/19/1997	97414101701	97-80
BRIAN HELLER & JASON HIBBS/LIBERTY L	WATERS EDGE DR	WHITEWATER	WALWORTH	T04N, R15E, SEC 09, NEQ, SEQQ	CLOSED 6/21/2017	16734100313	16-42
CONSERV FS INC @ZENDA (FOREST GLEN)	W3825 FOREST GLEN RD	ZENDA	WALWORTH	T01N, R17E, SEC 28, SEQ, SWQQ	CLOSED 11/4/2013	13410022801	13-02

Requested Geographic Area: **City:**

County: WALWORTH

SUPERFUND SITES IN WISCONSIN
WISCONSIN SITES ON THE NATIONAL PRIORITIES LIST (NPL)

NO. SITE NAME	LOCATION	COUNTY	SCORE	STATE'S NOMINATION DATE	FINAL LISTING DATE
NORTHEAST REGION					
1 Better Brite Chrome & Zinc	Depere	Brown	48.91	03/89	08/90
2 Lemberger Fly Ash Landfill	Whitelaw	Manitowoc	34.07	01/85	06/86
3 Lemberger Transport/Recycling	Whitelaw	Manitowoc	34.58	06/83	09/84
4 Schmalz Dump	Harrison	Calumet	48.90	06/83	09/84
5 Algoma, City of, Landfill	Algoma	Kewaukee	39.99	01/86	07/87
6 N. W. Mauthe Company	Appleton	Outagamie		01/86	03/89
7 Ripon FF/NN Landfill	Ripon	Fon du Lac	39.04	06/93	05/94
NORTHERN REGION					
8 Ashland/NSP Lakefront Site	Ashland	Ashland	50.00	12/00	09/02
9 Scrap Processing Inc. – Potaczek	Medford	Taylor	34.24	06/83	09/84
10 Penta Wood Products	Daniels	Burnett	50.00	04/94	06/96
SOUTHEAST REGION					
11 Amcast	Cedarburg	Ozaukee	46.86	04/09	09/09
12 Delavan Municipal Well No. 4	Delavan	Walworth	28.90	06/83	09/84
13 Kohler Company Landfill	Kohler	Sheboygan	42.93	06/83	09/84
14 Boundary Rd. (f/k/a Lauer 1) Landfill	Menomonee Falls	Waukesha	42.69	06/83	09/84
15 Master Disposal Service Landfill	Brookfield	Waukesha	47.49	06/83	09/84
16 Moss-American (Kerr McGee Oil)	Milwaukee	Milwaukee	32.14	06/83	09/84
17 Muskego Sanitary Landfill	Muskego	Waukesha	51.91	06/83	09/84
18 Sheboygan River and Harbor	Sheboygan	Sheboygan	33.79	01/85	06/86
19 Hunts Disposal/Caledonia Landfill	Caledonia	Racine	31.02	01/86	07/87
20Waste Management of Brookfield	Brookfield	Waukesha	28.90	11/86	08/90
SOUTH CENTRAL REGION					
21 City Disposal Corp. Landfill	Dunn Township	Dane	36.84	06/83	09/84
22 Janesville Ash Beds	Janesville	Rock	57.90	06/83	09/84
23 Janesville Old Landfill	Janesville	Rock	57.93	06/83	09/84
24 Oconomowoc Electroplating Co. Inc.	Ashippun	Dodge	31.86	06/83	09/84
25 Stoughton City Landfill	Stoughton	Dane	35.79	03/84	06/86
26 Hagen Farm	Stoughton	Dane	32.06	01/85	07/87
27 Land and Gas Reclamation (f/k/a Hechimovich) Landfill	Williamstown	Dodge	47.91	01/86	03/89
28 Sauk County Landfill	Excelsior	Sauk	34.21	05/86	10/89
29 Madison Metro Sludge Lagoons	Madison	Dane	32.65	05/87	02/90
30 Refuse Hideaway Landfill	Middleton	Dane	34.67	02/92	10/92
WEST CENTRAL REGION					
31 National Presto Industries	Eau Claire	Eau Claire	42.39	03/84	06/86
32 Mid-State Disposal	Cleveland	Marathon	35.23	06/83	09/84
33 Wausau, City of, Water Supply	Wausau	Marathon	28.91	01/85	06/86
34 Spickler Landfill	Spencer	Marathon	44.24	05/86	07/87
35 Onalaska Municipal Landfill	Onalaska	LaCrosse	42.47	06/83	09/84
36 Tomah Armory	Tomah	Monroe	30.63	01/86	07/87
37 Tomah Sanitary Landfill	Tomah	Monroe	45.91	06/86	03/89

RR-005 08/11/14

WISCONSIN
DEPT. OF NATURAL RESOURCES

Map Title


Town of Whitewater
Town of La Grange
Palmer Road
Cherry Road
Gaston Road
Bluff Road
Cravath Road
Whitewater Lake Road
Kettle Moraine Drive
Bluff Road
Cravath Road
Gaston Road
Palmer Road
Whitewater Lake Road
Kettle Moraine Drive
Cravath Road
Bluff Road
Gaston Road
Palmer Road
Town of La Grange
Whitewater Lake Road
Kettle Moraine Drive
Cravath Road
Bluff Road
Gaston Road
Palmer Road

Appendix B

Environmental Database Information

Government Records Report | 2020

Order Number: 46219

Report Generated: 10/14/2020

Project Name:

Project Number: 2040810

USH 12
Cox Rd to STH 20/67
NA, WI

2 Corporate Drive
Suite 450
Shelton, CT 06484
Toll Free: 866-211-2028
www.envirositecorp.com

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Envirosite Corporation has conducted a search of all reasonably ascertainable records in accordance with EPA's AAI (40 CFR Part 312) requirements and the ASTM E-1527-13 Environmental Site Assessments standard.

SUBJECT PROPERTY INFORMATION:

ADDRESS:

USH 12
Cox Rd to STH 20/67
NA, WI

COORDINATES:

Latitude (North):	42.806662 - 42°48'24"
Longitude (West):	-88.627853 - -88°37'40.3"
Universal Transverse Mercator:	Zone 16N
UTM X (Meters):	366899.75
UTM Y (Meters):	4740630.30

ELEVATION:

Elevation:	985.010 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH SUBJECT PROPERTY:

Subject Property Map: 42088-G5 Little Prairie, WI
Most Recent Revision: 2018

Subject Property Map: 42088-G6 Whitewater, WI
Most Recent Revision: 2018

MAP ID	SITE NAME	ADDRESS	DATABASE(S)	RELATIVE ELEVATION	DIRECTION / DISTANCE
1	W6628 CTH 12	W6628 CTH 12	CRS - WI, SPILLS - WI		SP
2	LAGRANGE ASPHALT PLANT - C10	W6615 US HIGHWAY 12	T 2 - WI		SP
A3	WI2651397 | LA GRANGE GENERAL STORE	W6098 HWY 12	ECHO, FRS		SP
A4	DARRS SERVICE	W6062 HWY 12	HIST UST - WI, UST - WI		SP
B5	JOHNS WELDING & RADIATOR	W7296 HWY 12	SHWIMS - WI		SP
6	SYLVESTER OBREMSKI	W5890 STATE HWY 12	HIST UST - WI, UST - WI		SP
7	VERIZON LA GRANGE	W7586 US HWY 12	AST - WI, HIST AST - WI		SP
B8	BLUFF CREEK GATE STATION	W7295 HWY 12	T 2 - WI	Lower	W / 0.002 mi.

SUBJECT PROPERTY SEARCH RESULTS:

The subject property was identified in the following records. For more information on this property, see Map Findings section on page 17.

SITE	DATABASE(S)	EPA ID
W6628 CTH 12 W6628 CTH 12 WHITEWATER, WI	CRS - WI, SPILLS - WI	N/R
SPILLS - WI - ID: Facility ID NONE - ID: Activity 0465583255	Status: N/A Status: CLOSED	Date: N/A Date: 03/19/2019
CRS - WI - ID: Facility ID NONE	Status: CLOSED	Date: End Date 03/19/2019
LAGRANGE ASPHALT PLANT - C10 W6615 US HIGHWAY 12 WHITEWATER, WI 53190	T 2 - WI	N/R
WI2651397 | LA GRANGE GENERAL STORE W6098 HWY 12 WHITEWATER, WI 53190	ECHO, FRS	N/R
DARRS SERVICE W6062 HWY 12 WHITEWATER, WI 53190	HIST UST - WI, UST - WI	N/R
HIST UST - WI - ID: 66896	Status: Closed/Removed	Date: 09/07/1995
UST - WI - ID: Facility ID 66896-66896 - ID: Tank ID 358432 - ID: Tank ID 358433 - ID: Tank ID 358434	Status: N/A Status: Closed/Removed Status: Closed/Removed Status: Closed/Removed	Date: N/A Date: N/R Date: N/R Date: N/R
JOHNS WELDING & RADIATOR W7296 HWY 12 WHITEWATER, WI 53190	SHWIMS - WI	N/R
SHWIMS - WI - ID: Facility ID 265154450 - ID: License Number N/A	Status: OPERATING Status: ACTIVE	Date: N/A Date: N/A
SYLVESTER OBREMSKI W5890 STATE HWY 12 LA GRANGE, WI 53190	HIST UST - WI, UST - WI	N/R
HIST UST - WI - ID: 169300	Status: Closed/Removed	Date: 10/14/1997
UST - WI - ID: Facility ID 171276-169300 - ID: Tank ID 458872	Status: N/A Status: Closed/Removed	Date: N/A Date: N/R
VERIZON LA GRANGE W7586 US HWY 12 WHITEWATER, WI 53190	AST - WI, HIST AST - WI	N/R
AST - WI - ID: Facility ID 691848-739708 - ID: Tank ID 7410	Status: N/A Status: In Use	Date: N/A Date: 05/14/2008

SITE	DATABASE(S)	EPA ID
HIST AST - WI - ID: 739708	Status: In Use	Date: N/R

SEARCH RESULTS:

OTHER ASCERTAINABLE RECORDS

T 2 - WI: Tier II facilities who must submit a hazardous chemical inventory report **2 SITES FOUND WITHIN .25 MILE**

LOWER ELEVATION

MAP ID	SITE NAME	SITE ADDRESS	DIRECTION/DISTANCE	PAGE
B8	BLUFF CREEK GATE STATION	W7295 HWY 12	W / 0.002 mi.	*36*

Following sites were unable to be mapped.

SITE NAME:	ADDRESS, CITY, ZIP:	DATABASE(S):
CUNNINGHAMS GENERAL TRUCKING	UNKNOWN, UNKNOWN	SHWIMS - WI
DARIEN VIL	UNKNOWN, UNKNOWN	SHWIMS - WI
DP ELECTRONIC RECYCLING FACILITY	LOT 1 WHITEWATER IN..., WHITEWATER 53190	SHWIMS - WI
ENBRIDGE - DELAVAN STATION	HWY 59, WHITEWATER 53190	ECHO, FRS, RCRA_VSQG, SHWIMS - WI
FRANK MEYER | FRANK MAYER PROPERTY	N1124 HWY N, WHITEWATER 53190	ECHO, FRS, HIST SHWIMS - WI, HIST UST - WI, UST - WI
FRANK MEYER | FRANK MAYER PROPERTY	N1124 HWY N, COLDSPRING 53190	ECHO, FRS, RCRA_NONGEN, SHWIMS - WI
FRIEDL FUEL & CARTAGE INC	UNKNOWN, UNKNOWN	SHWIMS - WI
GOESSLING PROPERTY (FORMER)	W9543 CNTY RD S, WHITEWATER 53190	HIST ERP - WI, HIST LEAD - WI, HIST WRR - WI
HAVILL-SPOERL	UNKNOWN, WHITEWATER 53190	HIST LUST - WI
JAMES BAKER	UNKNOWN, UNKNOWN	SHWIMS - WI
JOHNS DISPOSAL	107 CTH U, WHITEWATER 53190	CRS - WI, HIST SHWIMS - WI, SPILLS - WI
JOHNS DISPOSAL SERVICE INC - WHITEWATER	107 COUNTY RD U, WHITEWATER 53190	SHWIMS - WI, SWF/LF - WI
JOHNS DISPOSAL SERVICE INC - WHITEWATER	107 COUNTY ROAD U, WHITEWATER 53190	SWRCY - WI
KAISER ALUMINUM AND CHEMICALS | KAI...	HWY 59 S, WHITEWATER 53190	ECHO, FRS, HIST CRS - WI, HIST ERP - WI, HIST WRR - WI, RCRA_NONGEN, SHWIMS - WI
KANE RICHARD J	W8867 INLAND RD, WHITEWATER 53190	SHWIMS - WI
L & H WRECKING INC	UNKNOWN, UNKNOWN	SHWIMS - WI
LOUS DISPOSAL SERVICE	UNKNOWN, UNKNOWN	SHWIMS - WI
LSP WHITEWATER COGENERATION FACILI...	111 CTH U, WHITEWATER 53190	BRS, CRS - WI, ECHO, FRS, HIST CRS - WI, HIST WRR - WI, RCRA_SQG, SHWIMS - WI, SPILLS - WI
LYLE JACOBS EXCAVATING LTD	KRUEGER RD-W OF HWY 3, UNKNOWN	HIST SHWIMS - WI, HIST WRR - WI
NORTH STREET BRIDGE RECONSTR (HIST...	LANDFILL ACCESS RD, WHITEWATER 53190	SHWIMS - WI
NORTHERN NATURAL GAS-BLUFF CRK WE...	W7295 STH 12, WHITEWATER 53190	ECHO, FRS, RCRA_NONGEN, SHWIMS - WI
POPE TRANSPORT INC	N331 HWY 59, WHITEWATER 53190	ECHO, FRS, RCRA_NONGEN, SHWIMS - WI
PROJECTOR RECORDER BELT CORP	RT 3 HWY 59 FIRE NO1..., WHITEWATER 53190	ECHO, FRS, SHWIMS - WI
S & R EGG FARMS INC	NW1/4 SW1/4 SEC2 T4N ..., LA GRANGE 53190	FRS, SHWIMS - WI, SWF/LF - WI
STATEWIDE FARM EQUIPMENT	HWY 12 RT 5 BOX 43, WHITEWATER 53190	ECHO, FRS, SHWIMS - WI
WHITEWATER CTY	SW 1/4 SE 1/4 S33 T5..., WHITEWATER 53190	SHWIMS - WI

DATABASE(S) WITH NO MAPPED SITES:

FEDERAL RCRA NON-CORRACTS TSD FACILITIES LIST

ARCHIVED RCRA TSDF	Archived Resource Conservation and Recovery Act: Treatment Storage and Disposal Facilities
RCRA_TSDF	Resource Conservation and Recovery Act: Treatment Storage and Disposal Facilities

FEDERAL CERCLIS LIST

CERCLIS NFRAP	Comprehensive Environmental Response Compensation and Liability Act No Further Remedial Action Planned
CERCLIS-HIST	Comprehensive Environmental Response Compensation and Liability Act
FEDERAL FACILITY	Federal Facility sites
SEMS_8R_ACTIVE SITES	Sites on SEMS Active Site Inventory
SEMS_8R_ARCHIVED SITES	Sites on SEMS Archived Site Inventory

FEDERAL RCRA CORRACTS FACILITIES LIST

CORRACTS	Hazardous Waste Corrective Action
HIST CORRACTS 2	Historical Hazardous Waste Corrective Action

FEDERAL DELISTED NPL SITE LIST

DELISTED NPL	Delisted National Priority List
DELISTED PROPOSED NPL	Delisted proposed National Priority List
SEMS_DELETED NPL	Sites Deleted from National Priorities List

FEDERAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS

EPA LF MOP	EPA Landfill Methane Outreach Project Database

FEDERAL ERNS LIST

ERNS	Emergency Response Notification System

FEDERAL INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES

FED E C	Engineering Controls
FED I C	Institutional Controls
RCRA IC_EC	RCRA sites with Institutional and Engineering Controls

FEDERAL RCRA GENERATORS LIST

HIST RCRA_CESQG	Historical Resource Conservation and Recovery Act_Conditionally Exempt Small Quantity Generators
HIST RCRA_LQG	Historical Resource Conservation and Recovery Act_ Large Quantity Generators
HIST RCRA_NONGEN	Historical Resource Conservation and Recovery Act_Non Generators
HIST RCRA_SQG	Historical Resource Conservation and Recovery Act_Small Quantity Generators
RCRA_LQG	Resource Conservation and Recovery Act_ Large Quantity Generators
RCRA_NONGEN	Resource Conservation and Recovery Act_Non Generators
RCRA_SQG	Resource Conservation and Recovery Act_Small Quantity Generators
RCRA_VSQG	Resource Conservation and Recovery Act_Very Small Quantity Generator

FEDERAL NPL SITE LIST

NPL	National Priority List
NPL EPA R1 GIS	GIS for EPA Region 1 NPL
NPL EPA R3 GIS	GIS for EPA Region 3 NPL
NPL EPA R6 GIS	GIS for EPA Region 6 NPL
NPL EPA R8 GIS	GIS for EPA Region 8 NPL
NPL EPA R9 GIS	GIS for EPA Region 9 NPL
PART NPL	Part National Priority List
PROPOSED NPL	Proposed National Priority List
SEMS_FINAL NPL	Sites included on the Final National Priorities List
SEMS_PROPOSED NPL	Sites Proposed to be Added to the National Priorities List

STATE AND TRIBAL REGISTERED STORAGE TANK LISTS

FEMA UST	FEMA Underground Storage Tanks
INDIAN UST R1	Underground Storage Tanks on Indian Land in EPA Region 1
INDIAN UST R10	Underground Storage Tanks on Indian Land in EPA Region 10
INDIAN UST R2	Underground Storage Tanks on Indian Land in EPA Region 2
INDIAN UST R4	Underground Storage Tanks on Indian Land in EPA Region 4
INDIAN UST R5	Underground Storage Tanks on Indian Land in EPA Region 5
INDIAN UST R6	Underground Storage Tanks on Indian Land in EPA Region 6
INDIAN UST R7	Underground Storage Tanks on Indian Land in EPA Region 7
INDIAN UST R8	Underground Storage Tanks on Indian Land in EPA Region 8
INDIAN UST R9	Underground Storage Tanks on Indian Land in EPA Region 9
HIST INDIAN UST R5 - WI	Historical Leaking Underground Storage Tanks on Indian Land Region 5
INDIAN UST R5 - WI	Leaking Underground Storage Tanks on Indian Land Region 5

STATE INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES

HIST I C - WI	Historical Deed Restriction at Closeout Sites
I C - WI	Deed Restriction at Closeout Sites

STATE AND TRIBAL LEAKING STORAGE TANK LISTS

INDIAN LUST R1	Leaking Underground Storage Tanks on Indian Land in EPA Region 1
INDIAN LUST R10	Leaking Underground Storage Tanks on Indian Land in EPA Region 10
INDIAN LUST R2	Leaking Underground Storage Tanks on Indian Land in EPA Region 2
INDIAN LUST R4	Leaking Underground Storage Tanks on Indian Land in EPA Region 4
INDIAN LUST R5	Leaking Underground Storage Tanks on Indian Land in EPA Region 5
INDIAN LUST R6	Leaking Underground Storage Tanks on Indian Land in EPA Region 6
INDIAN LUST R7	Leaking Underground Storage Tanks on Indian Land in EPA Region 7
INDIAN LUST R8	Leaking Underground Storage Tanks on Indian Land in EPA Region 8
INDIAN LUST R9	Leaking Underground Storage Tanks on Indian Land in EPA Region 9
HIST LAST - WI	Historical Leaking Aboveground Storage Tank List
HIST LUST - WI	Historical Leaking Underground Storage Tank
LAST - WI	Leaking Aboveground Storage Tanks
LUST - WI	Leaking Underground Storage Tank

STATE AND TRIBAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS

HIST SHWIMS - WI	Historical Solid & Hazardous Waste Information Management System
SWF/LF - WI	Solid Waste Facilities and Landfills

STATE- AND TRIBAL - EQUIVALENT CERCLIS

HIST SHWS - WI	Historical State Hazardous Waste Sites
SHWS - WI	State Hazardous Waste Sites

STATE AND TRIBAL VOLUNTARY CLEANUP SITES

HIST VCP - WI	Historical Voluntary Party Liability Exemption
VCP - WI	Voluntary Party Liability Exemption

STATE AND TRIBAL BROWNFIELD SITES

TRIBAL BROWNFIELDS	Tribal Brownfields

RECORDS OF EMERGENCY RELEASE REPORTS

HMIRS (DOT)	Hazardous Materials Information Reporting Systems
AG SPILLS - WI	Agricultural Spill Cases
HIST AG SPILLS - WI	Historical Agricultural Spill Cases
HIST SPILLS - WI	Historical Spill

LOCAL BROWNFIELD LISTS

BROWNFIELDS-ACRES	EPA ACRES Brownfields
FED BROWNFIELDS	Federal Brownfields

LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES

FED CDL	DOJ Clandestine Drug Labs
US HIST CDL	Historical Clandestine Drug Labs

LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES *(cont.)*

CDL - WI	Clandestine Drug Labs

LOCAL LISTS OF LANDFILL / SOLID WASTE DISPOSAL SITES

HIST INDIAN ODI R8	Historical Open Dump Inventory
INDIAN ODI R8	Open Dump Inventory
ODI	Open Dump Inventory
TRIBAL ODI	Indian Open Dump Inventory Sites
SWRCY - WI	Solid Waste Recycling Facilities

LOCAL LAND RECORDS

LIENS 2	CERCLA Lien Information
LIENS - WI	Liens

OTHER ASCERTAINABLE RECORDS

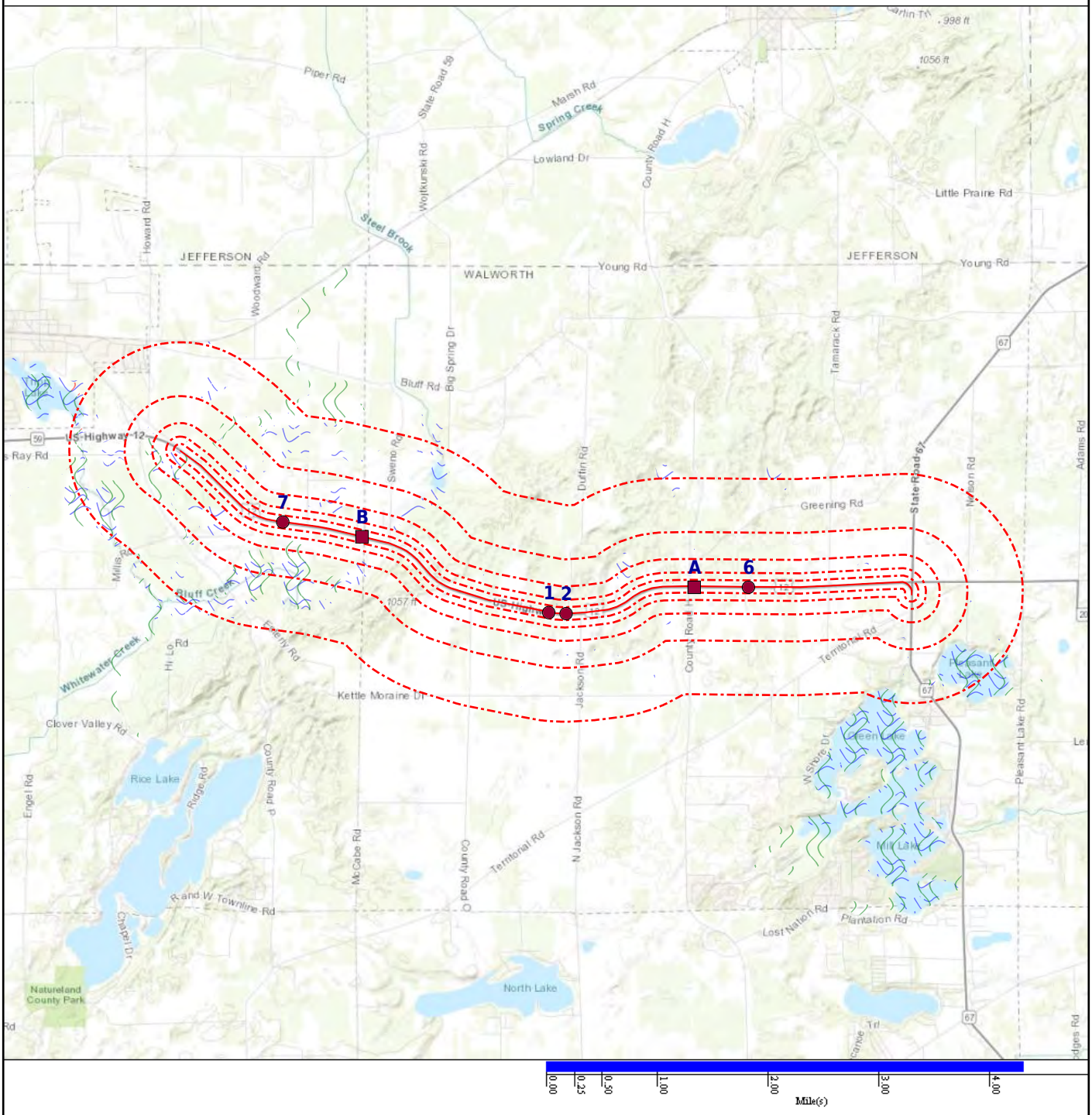
AFS	Air Facility Systems
ALT FUELING	Alternative Fueling Stations
AST PBS	ASTs at Bulk Petroleum Terminals
BRS	Biennial Reporting Systems
CDC HAZDAT	Hazardous Substance Release and Health Effects Information
COAL ASH DOE	Coal Ash: Department of Energy
COAL ASH EPA	Coal Ash: Environmental Protection Agency
COAL GAS	Coal Gas Plants
CONSENT (DECREES)	Superfund Consent Decree
CORRECTIVE ACTIONS_2020	Wastes - Hazardous Waste - Corrective Action
DEBRIS R5 LF	Disaster Debris Landfill Data
DEBRIS R5 SWRCY	Disaster Debris Recovery Data
DOD	Department of Defense
DOT OPS	Department of Transportation Office of Pipeline Safety
ENOI	Electronic Notice of Intent
EPA FUELS	EPA Fuels Registration, Reporting, and Compliance List
EPA OSC	EPA On-Site Coordinator
EPA WATCH	EPA Watch List
FA HWF	Financial Assurance for Hazardous Waste Facilities
FEDLAND	Federal Lands
FTTS	FIFRA/TSCA Tracking System
FTTS INSP	FIFRA/TSCA Tracking System: Inspections
FUDS	Formerly Used Defense Sites
HIST AFS	Historical Air Facility Systems
HIST AFS 2	Historical Air Facility Systems
HIST DOD	Department of Defense historical sites
HIST LEAD_SMELTER	Historical Lead Smelter Sites
HIST MLTS	Historical Material Licensing Tracking Systems
HIST PCB TRANS	Historical Polychlorinated Biphenyl (PCB) Facilities
HIST PCS ENF	Historical Enforced Permit Compliance Facilities
HIST PCS FACILITY	Historical Permit Compliance Facilities
HIST SSTS	Historical Section 7 Tracking Systems
HWC DOCKET	Hazardous Waste Compliance Docket
ICIS	Integrated Compliance Information System
INACTIVE PCS	Inactive Permit Compliance Facilities
INDIAN RESERVATION	Indian Reservations
LUCIS	Land Use Control Information Systems
LUCIS 2	Land Use Control Information Systems 2
MINES	Mines
MINES USGS	Mines list from USGS
MLTS	Material Licensing Tracking Systems
NPL AOC	Areas related to NPL remediation sites
NPL LIENS	National Priority List Liens
OSHA	Occupational Safety & Health Administration
PADS	PCB Activity Database Systems

OTHER ASCERTAINABLE RECORDS *(cont.)*

PCB TRANSFORMER	Polychlorinated Biphenyl (PCB) Waste
PCS ENF	Enforced Permit Compliance Facilities
PCS FACILITY	Permit Compliance Facilities
RAATS	RCRA Administrative Action Tracking Systems
RADINFO	Radiation Information Systems
RMP	Risk Management Plans
ROD	Record of Decision
SCRD DRYCLEANERS	SCRD Drycleaners
SEMS_SMELTER	Sites on SEMS Potential Smelter Activity
SSTS	Section 7 Tracking Systems
STORMWATER	Storm Water Permits
TOSCA-PLANT	Toxic Substance Control Act: Plants
TRIS	Toxic Release Inventory Systems
UMTRA	Uranium Mill Tailing Sites
VAPOR	EPA Vapor Intrusion
AIRS - WI	Air Permits
BEAP - WI	Brownfields Environmental Assessment Program
BRRTS - WI	Bureau of Remediation & Redevelopment Tracking System
DAYCARE - WI	Child Care
DRYCLEANERS - WI	Drycleaning Facilities
ERP - WI	Environmental Repair Program Database
FA 1 - WI	Financial Assurance
FA 2 - WI	Financial Assurance 2
HIST BRRTS - WI	Historical Bureau of Remediation & Redevelopment Tracking System
HIST CRS - WI	Historical Closed Remediation Sites
HIST DRYCLEANERS - WI	Historical Drycleaning Facilities
HIST ERP - WI	Historical Environmental Repair Program Database
HIST FA 1 - WI	Historical Financial Assurance
HIST FA 2 - WI	Historical Financial Assurance 2
HIST LEAD - WI	Historical Lead contaminated sites
HIST WRR - WI	Historical Wisconsin Remedial Response Site Evaluation Report
LEAD - WI	Lead contaminated sites
MANIFEST - WI	Hazardous Waste Manifest
NPDES - WI	State Wastewater and NPDES Permits
WDS - WI	Waste Disposal Sites
WRR - WI	Wisconsin Remedial Response Site Evaluation Report
WRR NAR - WI	WRR with No Action Required

SUBJECT NAME: USH 12
ADDRESS: Cox Rd to STH 20/67, NA, WI
LAT/LONG: 42.806662 / -88.627853

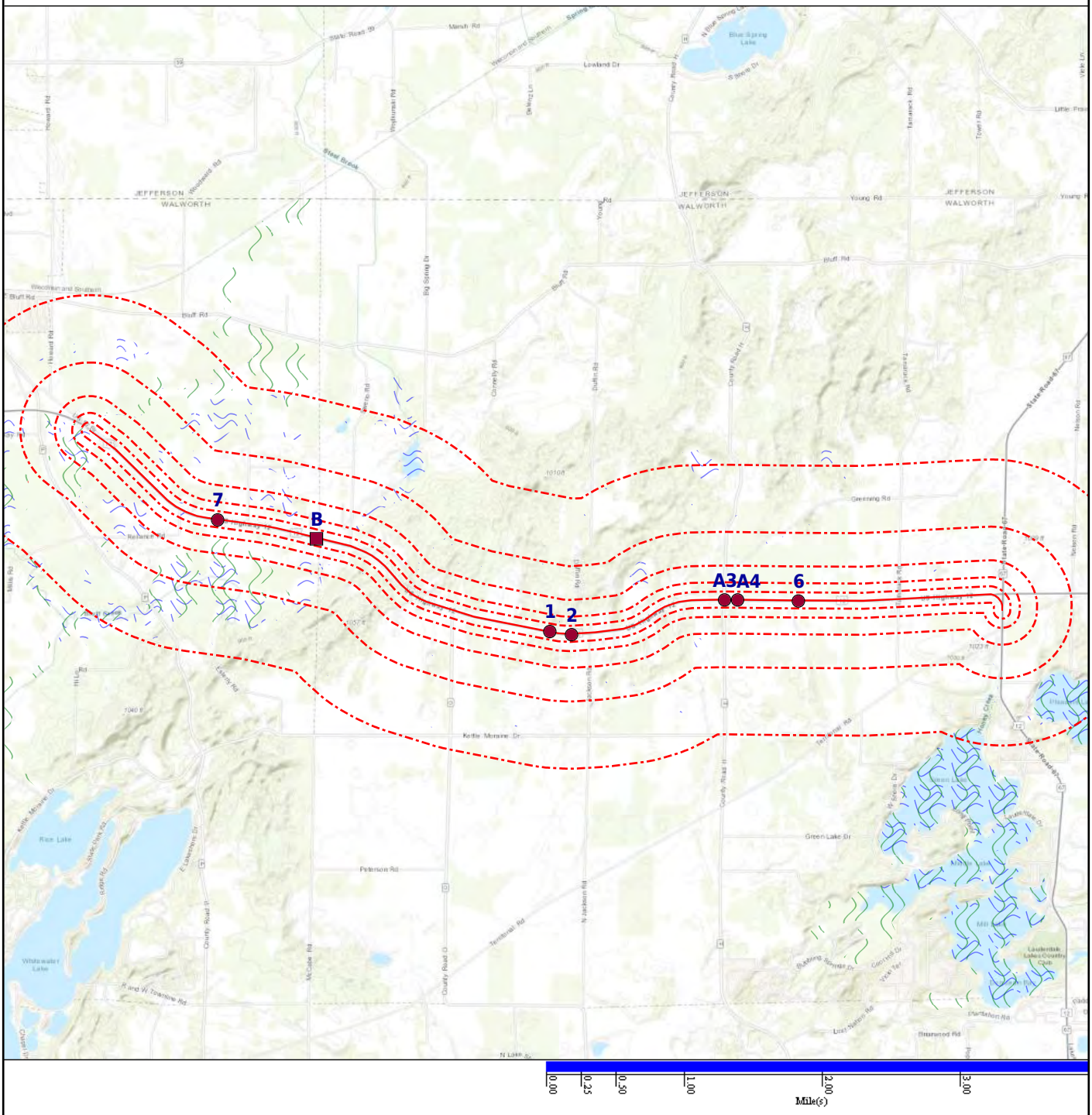
PREPARED FOR: Historical Information Gatherers
ORDER #: 46219
REPORT DATE: October 14, 2020



- Subject Property
- Department of Defense (No Data)
- FEMA FloodZone 100 (No Data)
- National Priority List (No Data)
- Equal/Higher Elevation
- DFIRM Floodzone 100
- FEMA FloodZone 500 (No Data)
- NWI
- Lower Elevation
- DFIRM Floodzone 500
- Historical DOD (No Data)
- CDC HAZDAT (No Data)
- Federal Lands (No Data)
- Indian Reservation (No Data)

SUBJECT NAME: USH 12
ADDRESS: Cox Rd to STH 20/67, NA, WI
LAT/LONG: 42.806662 / -88.627853

PREPARED FOR: Historical Information Gatherers
ORDER #: 46219
REPORT DATE: October 14, 2020



- Subject Property
- Department of Defense (No Data)
- FEMA FloodZone 100 (No Data)
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- NWI
- Lower Elevation
- DFIRM Floodzone 500
- Historical DOD (No Data)
- CDC HAZDAT (No Data)
- Federal Lands (No Data)
- Indian Reservation (No Data)

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
FEDERAL RCRA NON-CORRACTS TSD FACILITIES LIST								
ARCHIVED RCRA TSDF		0.500	0	0	0	--	--	0
RCRA_TSDF		0.500	0	0	0	--	--	0
FEDERAL CERCLIS LIST								
CERCLIS NFRAP		0.500	0	0	0	--	--	0
CERCLIS-HIST		0.500	0	0	0	--	--	0
FEDERAL FACILITY		1.000	0	0	0	0	--	0
SEMS_8R_ACTIVE SITES		0.500	0	0	0	--	--	0
SEMS_8R_ARCHIVED SITES		0.500	0	0	0	--	--	0
FEDERAL RCRA CORRACTS FACILITIES LIST								
CORRACTS		1.000	0	0	0	0	--	0
HIST CORRACTS 2		1.000	0	0	0	0	--	0
FEDERAL DELISTED NPL SITE LIST								
DELISTED NPL		1.000	0	0	0	0	--	0
DELISTED PROPOSED NPL		1.000	0	0	0	0	--	0
SEMS_DELETED NPL		1.000	0	0	0	0	--	0
FEDERAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS								
EPA LF MOP		0.500	0	0	0	--	--	0
FEDERAL ERNS LIST								
ERNS		SP	0	--	--	--	--	0
FEDERAL INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES								
FED E C		0.500	0	0	0	--	--	0
FED I C		0.500	0	0	0	--	--	0
RCRA IC_EC		0.250	0	0	--	--	--	0
FEDERAL RCRA GENERATORS LIST								
HIST RCRA_CESQG		0.250	0	0	--	--	--	0
HIST RCRA_LQG		0.250	0	0	--	--	--	0
HIST RCRA_NONGEN		0.250	0	0	--	--	--	0
HIST RCRA_SQG		0.250	0	0	--	--	--	0
RCRA_LQG		0.250	0	0	--	--	--	0
RCRA_NONGEN		0.250	0	0	--	--	--	0
RCRA_SQG		0.250	0	0	--	--	--	0
RCRA_VSQG		0.250	0	0	--	--	--	0

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
FEDERAL NPL SITE LIST								
NPL		1.000	0	0	0	0	--	0
NPL EPA R1 GIS		1.000	0	0	0	0	--	0
NPL EPA R3 GIS		1.000	0	0	0	0	--	0
NPL EPA R6 GIS		1.000	0	0	0	0	--	0
NPL EPA R8 GIS		1.000	0	0	0	0	--	0
NPL EPA R9 GIS		1.000	0	0	0	0	--	0
PART NPL		1.000	0	0	0	0	--	0
PROPOSED NPL		1.000	0	0	0	0	--	0
SEMS_FINAL NPL		1.000	0	0	0	0	--	0
SEMS_PROPOSED NPL		1.000	0	0	0	0	--	0
STATE AND TRIBAL REGISTERED STORAGE TANK LISTS								
FEMA UST		0.250	0	0	--	--	--	0
INDIAN UST R1		0.250	0	0	--	--	--	0
INDIAN UST R10		0.250	0	0	--	--	--	0
INDIAN UST R2		0.250	0	0	--	--	--	0
INDIAN UST R4		0.250	0	0	--	--	--	0
INDIAN UST R5		0.250	0	0	--	--	--	0
INDIAN UST R6		0.250	0	0	--	--	--	0
INDIAN UST R7		0.250	0	0	--	--	--	0
INDIAN UST R8		0.250	0	0	--	--	--	0
INDIAN UST R9		0.250	0	0	--	--	--	0
AST - WI	X	0.250	0	0	--	--	--	1
HIST AST - WI	X	0.250	0	0	--	--	--	1
HIST INDIAN UST R5 - WI		0.250	0	0	--	--	--	0
HIST UST - WI	X	0.250	0	0	--	--	--	2
INDIAN UST R5 - WI		0.250	0	0	--	--	--	0
UST - WI	X	0.250	0	0	--	--	--	2
STATE INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES								
HIST I C - WI		0.500	0	0	0	--	--	0
I C - WI		0.500	0	0	0	--	--	0
STATE AND TRIBAL LEAKING STORAGE TANK LISTS								
INDIAN LUST R1		0.500	0	0	0	--	--	0
INDIAN LUST R10		0.500	0	0	0	--	--	0
INDIAN LUST R2		0.500	0	0	0	--	--	0
INDIAN LUST R4		0.500	0	0	0	--	--	0

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
STATE AND TRIBAL LEAKING STORAGE TANK LISTS *(cont.)*								
INDIAN LUST R5		0.500	0	0	0	--	--	0
INDIAN LUST R6		0.500	0	0	0	--	--	0
INDIAN LUST R7		0.500	0	0	0	--	--	0
INDIAN LUST R8		0.500	0	0	0	--	--	0
INDIAN LUST R9		0.500	0	0	0	--	--	0
HIST LAST - WI		0.500	0	0	0	--	--	0
HIST LUST - WI		0.500	0	0	0	--	--	0
LAST - WI		0.500	0	0	0	--	--	0
LUST - WI		0.500	0	0	0	--	--	0
STATE AND TRIBAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS								
HIST SHWIMS - WI		0.500	0	0	0	--	--	0
SHWIMS - WI	X	0.500	0	0	0	--	--	1
SWF/LF - WI		0.500	0	0	0	--	--	0
STATE- AND TRIBAL - EQUIVALENT CERCLIS								
HIST SHWS - WI		1.000	0	0	0	0	--	0
SHWS - WI		1.000	0	0	0	0	--	0
STATE AND TRIBAL VOLUNTARY CLEANUP SITES								
HIST VCP - WI		0.500	0	0	0	--	--	0
VCP - WI		0.500	0	0	0	--	--	0
STATE AND TRIBAL BROWNFIELD SITES								
TRIBAL BROWNFIELDS		0.500	0	0	0	--	--	0
RECORDS OF EMERGENCY RELEASE REPORTS								
HMIRS (DOT)		SP	0	--	--	--	--	0
AG SPILLS - WI		0.125	0	--	--	--	--	0
HIST AG SPILLS - WI		0.125	0	--	--	--	--	0
HIST SPILLS - WI		0.125	0	--	--	--	--	0
SPILLS - WI	X	0.125	0	--	--	--	--	1
LOCAL BROWNFIELD LISTS								
BROWNFIELDS-ACRES		0.500	0	0	0	--	--	0
FED BROWNFIELDS		0.500	0	0	0	--	--	0
LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES								
FED CDL		SP	0	--	--	--	--	0
US HIST CDL		SP	0	--	--	--	--	0

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES *(cont.)*								
CDL - WI		SP	0	--	--	--	--	0
LOCAL LISTS OF LANDFILL / SOLID WASTE DISPOSAL SITES								
HIST INDIAN ODI R8		0.500	0	0	0	--	--	0
INDIAN ODI R8		0.500	0	0	0	--	--	0
ODI		0.500	0	0	0	--	--	0
TRIBAL ODI		0.500	0	0	0	--	--	0
SWRCY - WI		0.500	0	0	0	--	--	0
LOCAL LAND RECORDS								
LIENS 2		SP	0	--	--	--	--	0
LIENS - WI		SP	0	--	--	--	--	0
OTHER ASCERTAINABLE RECORDS								
AFS		SP	0	--	--	--	--	0
ALT FUELING		0.250	0	0	--	--	--	0
AST PBS		0.250	0	0	--	--	--	0
BRS		SP	0	--	--	--	--	0
CDC HAZDAT		1.000	0	0	0	0	--	0
COAL ASH DOE		0.500	0	0	0	--	--	0
COAL ASH EPA		0.500	0	0	0	--	--	0
COAL GAS		1.000	0	0	0	0	--	0
CONSENT (DECREES)		1.000	0	0	0	0	--	0
CORRECTIVE ACTIONS_2020		0.500	0	0	0	--	--	0
DEBRIS R5 LF		0.500	0	0	0	--	--	0
DEBRIS R5 SWRCY		0.500	0	0	0	--	--	0
DOD		1.000	0	0	0	0	--	0
DOT OPS		SP	0	--	--	--	--	0
ECHO	X	SP	--	--	--	--	--	1
ENOI		SP	0	--	--	--	--	0
EPA FUELS		SP	0	--	--	--	--	0
EPA OSC		0.125	0	--	--	--	--	0
EPA WATCH		SP	0	--	--	--	--	0
FA HWF		SP	0	--	--	--	--	0
FEDLAND		1.000	0	0	0	0	--	0
FRS	X	SP	--	--	--	--	--	1
FTTS		SP	0	--	--	--	--	0
FTTS INSP		SP	0	--	--	--	--	0

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
OTHER ASCERTAINABLE RECORDS *(cont.)*								
FUDS		1.000	0	0	0	0	--	0
HIST AFS		SP	0	--	--	--	--	0
HIST AFS 2		SP	0	--	--	--	--	0
HIST DOD		1.000	0	0	0	0	--	0
HIST LEAD_SMELTER		SP	0	--	--	--	--	0
HIST MLTS		SP	0	--	--	--	--	0
HIST PCB TRANS		SP	0	--	--	--	--	0
HIST PCS ENF		SP	0	--	--	--	--	0
HIST PCS FACILITY		SP	0	--	--	--	--	0
HIST SSTS		SP	0	--	--	--	--	0
HWC DOCKET		SP	0	--	--	--	--	0
ICIS		SP	0	--	--	--	--	0
INACTIVE PCS		SP	0	--	--	--	--	0
INDIAN RESERVATION		1.000	0	0	0	0	--	0
LUCIS		0.500	0	0	0	--	--	0
LUCIS 2		0.500	0	0	0	--	--	0
MINES		0.250	0	0	--	--	--	0
MINES USGS		0.250	0	0	--	--	--	0
MLTS		SP	0	--	--	--	--	0
NPL AOC		1.000	0	0	0	0	--	0
NPL LIENS		SP	0	--	--	--	--	0
OSHA		SP	0	--	--	--	--	0
PADS		SP	0	--	--	--	--	0
PCB TRANSFORMER		SP	0	--	--	--	--	0
PCS ENF		SP	0	--	--	--	--	0
PCS FACILITY		SP	0	--	--	--	--	0
RAATS		SP	0	--	--	--	--	0
RADINFO		SP	0	--	--	--	--	0
RMP		0.500	0	0	0	--	--	0
ROD		1.000	0	0	0	0	--	0
SCRD DRYCLEANERS		0.250	0	0	--	--	--	0
SEMS_SMELTER		SP	0	--	--	--	--	0
SSTS		SP	0	--	--	--	--	0
STORMWATER		SP	0	--	--	--	--	0
TOSCA-PLANT		SP	0	--	--	--	--	0
TRIS		SP	0	--	--	--	--	0

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
OTHER ASCERTAINABLE RECORDS *(cont.)*								
UMTRA		0.500	0	0	0	--	--	0
VAPOR		0.500	0	0	0	--	--	0
AIRS - WI		SP	0	--	--	--	--	0
BEAP - WI		0.500	0	0	0	--	--	0
BRRTS - WI		SP	0	--	--	--	--	0
CRS - WI	X	SP	--	--	--	--	--	1
DAYCARE - WI		SP	0	--	--	--	--	0
DRYCLEANERS - WI		0.250	0	0	--	--	--	0
ERP - WI		0.500	0	0	0	--	--	0
FA 1 - WI		SP	0	--	--	--	--	0
FA 2 - WI		SP	0	--	--	--	--	0
HIST BRRTS - WI		SP	0	--	--	--	--	0
HIST CRS - WI		SP	0	--	--	--	--	0
HIST DRYCLEANERS - WI		0.250	0	0	--	--	--	0
HIST ERP - WI		0.500	0	0	0	--	--	0
HIST FA 1 - WI		SP	0	--	--	--	--	0
HIST FA 2 - WI		SP	0	--	--	--	--	0
HIST LEAD - WI		SP	0	--	--	--	--	0
HIST WRR - WI		SP	0	--	--	--	--	0
LEAD - WI		SP	0	--	--	--	--	0
MANIFEST - WI		0.250	0	0	--	--	--	0
NPDES - WI		SP	0	--	--	--	--	0
T 2 - WI	X	0.250	1	0	--	--	--	2
WDS - WI		0.500	0	0	0	--	--	0
WRR - WI		SP	0	--	--	--	--	0
WRR NAR - WI		0.125	0	--	--	--	--	0

Map Id: 1
Direction:
Distance:
Actual: Not Available
Elevation:
Relative:

Site Name : W6628 CTH 12
W6628 CTH 12
WHITEWATER, WI

Database(s) : [CRS - WI, SPILLS - WI]

Envirosite ID: 6786027
EPA ID: N/R

CRS - WI

Facility Name :	W6628 CTH 12
Facility Address :	W6628 CTH 12, WHITEWATER
County :	WALWORTH

Activity Details

Start Date :	01/23/2019
End Date :	03/19/2019
Last Action Date :	03/19/2019
Facility ID :	NONE
Status :	CLOSED
Activity Type :	SPILL
Activity Name :	FORTUNE TRANSPORTATION SPILL
Activity Number :	0465583255
DCOM Number :	NONE
EPA Cerclis ID :	N/R
Site ID :	50119980
Activity Code :	350
County Code :	65
Region :	SOUTHEAST
Activity Display Number :	04-65-583255
Activity Comments :	*** AUTO-POPULATED FROM SERTS ID: 20190124SE65-1 ***
Comm Occurrence ID :	NONE
Jurisdiction :	Remediation & Redevelopment
Activity Address Detail :	N/R
Risk Code :	UNKNOWN
Acres :	UNKNOWN
Acres 100 :	N
NPL :	No
DCOM DB Tracked Flag :	No
PECFA Eligible Flag :	No
Above Ground Storage Tank Flag :	No
Drycleaner Flag :	No
Co-Contamination Flag :	No
Public Land Survey System :	N/R
GEO Located Flag :	N
GIS Registry Flag :	N/R
GIS Area Point Flag :	N
Latitude :	N/R
Longitude :	N/R
Last Date in Agency List :	08/01/2019

Owner Information

Start Date :	N/R
End Date :	N/R
Site ID :	N/R
Name :	N/R
Address :	N/R

Contact Information

Role :	Project Manager

Map Id: 1
Direction:
Distance:
Actual: Not Available
Elevation:
Relative:

Site Name : W6628 CTH 12
W6628 CTH 12
WHITEWATER, WI

Database(s) : [CRS - WI, SPILLS - WI] ***(cont.)***

Envirosite ID: 6786027
EPA ID: N/R

CRS - WI ***(cont.)***

Description :	DNR's project manager (reviewer) for the site cleanup. The person who reviews the work of private consultants that are hired to do the site investigation and cleanup.
Name :	RILEY NEUMANN
Address :	2300 N DR MARTIN LUTHER KING DR, MILWAUKEE, WI 53212
Address 2 :	N/R
Composite Address :	MILWAUKEE, WI 53212
Country :	UNITED STATES
Email :	riley.neumann@wisconsin.gov
ORG :	N

Spill Details

Incident Date :	01/23/2019
Reported Date :	01/24/2019
DNR Investigator :	WARDEN MIKE KATZ
Spill Cause :	SEMI HIT ELECTRIC POLE
Spill Source Code :	25
Spill Source Description :	Roadway (Public Road/Highway/Street/Alley/ROW)
Spill Source Comment :	N/R
Spill File Number :	N/R
Physical Char Code :	N/R
Physical Char Description :	N/R
Physical Color :	N/R
Physical Odor :	N/R

Spill Comment :

1/24/19: NEUMANN SPOKE WITH DNR WARDEN MIKE KATZENBERG. MIKE INDICATED THAT CLEANUP COMPANY REMOVED IMPACTED SNOW AFTER THE ACCIDENT. MIKE WAS ON SCENE AGAIN TODAY TO INSPECT THE SITE. MIKE TO SUBMIT CLEANUP REPORT TO NEUMANN ONCE REC'D FROM CLEANUP CONTRACTOR. 2/1/19: KATZENBERG SENT EMAIL REQUESTING UPDATE ON CLEANUP DOCUMENTATION/DISPOSAL DOCUMENTATION. CONTRACTOR INDICATED THEY WERE AWAITING ALL DOCUMENTATION (DISPOSAL MANIFESTS, ETC.) BEFORE COMPLETING THE FINAL REPORT AND SENDING TO DNR. 2/25/19: NEUMANN SENT EMAIL TO WARDEN KATZENBERG REQUESTING UPDATE. KATZENBERG INDICATED THAT FORTUNE REACHED OUT TO MIKE LAST WEEK AND PROVIDED AN UPDATE. REPORT COMING SOON. 3/19/19: NEUMANN SENT EMAIL TO KATZENBERG REQUESTING UPDATE. NEUMANN CALLED ERIC OELKERS (SCS ENGINEERS), WHO INDICATED THAT REPORT SHOULD HAVE BEEN SENT IN. ERIC WILL FOLLOW UP WITH INSURANCE COMPANY AND INFORM NEUMANN. NEUMANN REC'D CLEANUP DOCUMENTATION/SUMMARY. BASED ON THE AVAILABLE INFORMATION, IMPACTS ONLY TO SNOW AND THE IMPACTED SNOW WAS REMOVED FROM THE SITE. IMPACTS REMOVED TO THE EXTENT PRACTICABLE.

Resource Damage :	N
Resource Damage Comment :	N/R
DNR Notif Immediate :	N/R
Spill Seq Number :	557265

Spiller Actions

Spiller Action Code :	09
Spiller Action Description :	Cleanup Method - Excavation
Spiller Action Comment :	IMPACTED SNOW

Map Id: 1
Direction:
Distance:
Actual: Not Available
Elevation:
Relative:

Site Name : W6628 CTH 12
W6628 CTH 12
WHITEWATER, WI

Database(s) : [CRS - WI, SPILLS - WI] ***(cont.)***

Envirosite ID: 6786027
EPA ID: N/R

CRS - WI ***(cont.)***

Substance Information
- Substance Description : Diesel Fuel
- Spill Released Amount : 60
- Spill Released Unit Code : Gal

Impact Information
- Impact Code : 14
- Impact Comment : Contained/Recovered
- Potential Flag : N/R
- Impact Seq Number : 588882

Corrective Actions
- Action Date : 03/19/2019
- Action Code : 11
- Action Description : Date DNR determined that no rurther action is required at a spill activity.
- Action Name : Spill Activity Closed
- Action Comment : N/R

- Action Date : 01/24/2019
- Action Code : 5
- Action Description : Date a hazardous substance spill is reported to DNR (or DATCP)
- Action Name : Notification of Hazardous Substance Spill
- Action Comment : N/R

- Action Date : 01/23/2019
- Action Code : 1
- Action Description : Date a hazardous substance spill occurred or date reported to DNR (or DATCP) if actual date of spill is unknown.
- Action Name : Spill Incident Occurred
- Action Comment : N/R

SPILLS - WI

- Facility Name : W6628 CTH 12
- Facility Address : W6628 CTH 12, WHITEWATER
- County : WALWORTH

Activity Details
- Start Date : 01/23/2019
- End Date : 03/19/2019
- Last Action Date : 03/19/2019
- Facility ID : NONE
- Status : CLOSED
- Activity Type : SPILL
- Activity Name : FORTUNE TRANSPORTATION SPILL
- Activity Number : 0465583255
- DCOM Number : NONE

Map Id: 1
Direction:
Distance:
Actual: Not Available
Elevation:
Relative:

Site Name : W6628 CTH 12
W6628 CTH 12
WHITEWATER, WI

Database(s) : [CRS - WI, SPILLS - WI] ***(cont.)***

Envirosite ID: 6786027
EPA ID: N/R

SPILLS - WI ***(cont.)***

EPA Cerclis ID :	N/R
Site ID :	50119980
Activity Code :	350
County Code :	65
Region :	SOUTHEAST
Activity Display Number :	04-65-583255
Activity Comments :	*** AUTO-POPULATED FROM SERTS ID: 20190124SE65-1 ***
Comm Occurrence ID :	NONE
Jurisdiction :	Remediation & Redevelopment
Activity Address Detail :	N/R
Risk Code :	UNKNOWN
Acres :	UNKNOWN
Acres 100 :	N
NPL :	No
DCOM DB Tracked Flag :	No
PECFA Eligible Flag :	No
Above Ground Storage Tank Flag :	No
Drycleaner Flag :	No
Co-Contamination Flag :	No
Public Land Survey System :	N/R
GEO Located Flag :	N
GIS Registry Flag :	N/R
GIS Area Point Flag :	N
Latitude :	N/R
Longitude :	N/R
Last Date in Agency List :	08/01/2019

Owner Information

Start Date :	N/R
End Date :	N/R
Site ID :	N/R
Name :	N/R
Address :	N/R

Contact Information

Role :	Project Manager
Description :	DNR's project manager (reviewer) for the site cleanup. The person who reviews the work of private consultants that are hired to do the site investigation and cleanup.
Name :	RILEY NEUMANN
Address :	2300 N DR MARTIN LUTHER KING DR, MILWAUKEE, WI 53212
Address 2 :	N/R
Composite Address :	MILWAUKEE, WI 53212
Country :	UNITED STATES
Email :	riley.neumann@wisconsin.gov
ORG :	N

Map Id: 1
Direction:
Distance:
Actual: Not Available
Elevation:
Relative:

Site Name : W6628 CTH 12
W6628 CTH 12
WHITEWATER, WI

Database(s) : [CRS - WI, SPILLS - WI] ***(cont.)***

Envirosite ID: 6786027
EPA ID: N/R

SPILLS - WI ***(cont.)***

Spill Details

Incident Date :	01/23/2019
Reported Date :	01/24/2019
DNR Investigator :	WARDEN MIKE KATZ
Spill Cause :	SEMI HIT ELECTRIC POLE
Spill Source Code :	25
Spill Source Description :	Roadway (Public Road/Highway/Street/Alley/ROW)
Spill Source Comment :	N/R
Spill File Number :	N/R
Physical Char Code :	N/R
Physical Char Description :	N/R
Physical Color :	N/R
Physical Odor :	N/R

Spill Comment :

1/24/19: NEUMANN SPOKE WITH DNR WARDEN MIKE KATZENBERG. MIKE INDICATED THAT CLEANUP COMPANY REMOVED IMPACTED SNOW AFTER THE ACCIDENT. MIKE WAS ON SCENE AGAIN TODAY TO INSPECT THE SITE. MIKE TO SUBMIT CLEANUP REPORT TO NEUMANN ONCE REC'D FROM CLEANUP CONTRACTOR. 2/1/19: KATZENBERG SENT EMAIL REQUESTING UPDATE ON CLEANUP DOCUMENTATION/DISPOSAL DOCUMENTATION. CONTRACTOR INDICATED THEY WERE AWAITING ALL DOCUMENTATION (DISPOSAL MANIFESTS, ETC.) BEFORE COMPLETING THE FINAL REPORT AND SENDING TO DNR. 2/25/19: NEUMANN SENT EMAIL TO WARDEN KATZENBERG REQUESTING UPDATE. KATZENBERG INDICATED THAT FORTUNE REACHED OUT TO MIKE LAST WEEK AND PROVIDED AN UPDATE. REPORT COMING SOON. 3/19/19: NEUMANN SENT EMAIL TO KATZENBERG REQUESTING UPDATE. NEUMANN CALLED ERIC OELKERS (SCS ENGINEERS), WHO INDICATED THAT REPORT SHOULD HAVE BEEN SENT IN. ERIC WILL FOLLOW UP WITH INSURANCE COMPANY AND INFORM NEUMANN. NEUMANN REC'D CLEANUP DOCUMENTATION/SUMMARY. BASED ON THE AVAILABLE INFORMATION, IMPACTS ONLY TO SNOW AND THE IMPACTED SNOW WAS REMOVED FROM THE SITE. IMPACTS REMOVED TO THE EXTENT PRACTICABLE.

Resource Damage :	N
Resource Damage Comment :	N/R
DNR Notif Immediate :	N/R
Spill Seq Number :	557265

Spiller Actions

Spiller Action Code :	09
Spiller Action Description :	Cleanup Method - Excavation
Spiller Action Comment :	IMPACTED SNOW

Substance Information

Substance Description :	Diesel Fuel
Spill Released Amount :	60
Spill Released Unit Code :	Gal

Impact Information

Impact Code :	14
Impact Comment :	Contained/Recovered
Potential Flag :	N/R
Impact Seq Number :	588882

Map Id: 1
Direction:
Distance:
Actual: Not Available
Elevation:
Relative:

Site Name : W6628 CTH 12
W6628 CTH 12
WHITEWATER, WI

Database(s) : [CRS - WI, SPILLS - WI] ***(cont.)***

Envirosite ID: 6786027
EPA ID: N/R

SPILLS - WI ***(cont.)***

Corrective Actions

Action Date :	03/19/2019
Action Code :	11
Action Description :	Date DNR determined that no rurther action is required at a spill activity.
Action Name :	Spill Activity Closed
Action Comment :	N/R
Action Date :	01/24/2019
Action Code :	5
Action Description :	Date a hazardous substance spill is reported to DNR (or DATCP)
Action Name :	Notification of Hazardous Substance Spill
Action Comment :	N/R
Action Date :	01/23/2019
Action Code :	1
Action Description :	Date a hazardous substance spill occurred or date reported to DNR (or DATCP) if actual date of spill is unknown.
Action Name :	Spill Incident Occurred
Action Comment :	N/R

Map Id: 2
Direction:
Distance:
Actual: Not Available
Elevation:
Relative:

Site Name : LAGRANGE ASPHALT PLANT - C10
W6615 US HIGHWAY 12
WHITEWATER, WI 53190

Database(s) : [T 2 - WI]

Envirosite ID: 6746638
EPA ID: N/R

T 2 - WI

Facility Name :	LaGrange Asphalt Plant - C10
Facility Address :	W6615 US HIGHWAY 12, WHITEWATER, Wisconsin 53190
Facility ID :	200562
Facility Status :	ACTIVE
Facility Type :	Facility
Corporate Name :	N/R
NAICS :	237310 - Highway, Street, and Bridge Construction
Main Chemical CAS Number :	68476346
Main Chemical Name :	FUEL OIL
Main Chemical EHS Name :	N/R
Is Main Chemical EHS :	N
Is Main Chemical State Pure :	Y
Is Main Chemical State Mix :	N
Is Main Chemical State Solid :	N
Is Main Chemical State Liquid :	Y
Is Main Chemical Hazard Pressure :	N
Is Main Chemical Hazard Reactivity :	N

Map Id: 2
Direction:
Distance:
Actual: Not Available
Elevation:
Relative:

Site Name : LAGRANGE ASPHALT PLANT - C10
W6615 US HIGHWAY 12
WHITEWATER, WI 53190

Database(s) : [T 2 - WI] ***(cont.)***

Envirosite ID: 6746638
EPA ID: N/R

T 2 - WI ***(cont.)***

Is Main Chemical Hazard Delayed :	Y
Is Main Chemical Hazard Immediate :	N
Number of Chemicals :	3
Number of EHS Chemicals :	0
Number of EHS More Than TPQ Chemicals:	0
Is Combustible Dust :	No
Is Corrosive to Metal :	No
Is Explosive :	No
Is Flammable :	Yes
Is Gas Under Pressure :	No
Is Physical HNOC :	No
Is Emission of Gas with Water :	No
Is Organic Peroxide :	No
Is Oxidizer :	No
Is Pyrophoric Gas :	No
Is Pyrophoric Liquid or Solid :	No
Is Self-Heating :	No
Is Self-Reactive :	No
Is Acute Toxicity :	Yes
Is Aspiration Hazard :	Yes
Is Carcinogenicity :	Yes
Is Germ Cell Mutagenicity :	No
Is Health HNOC :	No
Is Reproductive Toxicity :	No
Is Respiratory or Skin Sensitization:	No
Is Serious Eye Damage or Eye Irritation:	Yes
Is Simple Asphyxiant :	No
Is Skin Corrosion or Irritation :	Yes
Is Specific Target Organ Toxicity :	Yes
Last Date in Agency List :	01/21/2020

Facility ID :	200562
Facility Status :	ACTIVE
Facility Type :	Facility
Corporate Name :	N/R
NAICS :	237310 - Highway, Street, and Bridge Construction
Main Chemical CAS Number :	8052424
Main Chemical Name :	ASPHALT CEMENT
Main Chemical EHS Name :	N/R
Is Main Chemical EHS :	N
Is Main Chemical State Pure :	Y
Is Main Chemical State Mix :	N
Is Main Chemical State Solid :	Y
Is Main Chemical State Liquid :	Y
Is Main Chemical Hazard Pressure :	N
Is Main Chemical Hazard Reactivity :	N
Is Main Chemical Hazard Delayed :	Y
Is Main Chemical Hazard Immediate :	N
Number of Chemicals :	3
Number of EHS Chemicals :	0
Number of EHS More Than TPQ Chemicals:	0
Is Combustible Dust :	No
Is Corrosive to Metal :	No
Is Explosive :	No

Map Id: 2
Direction:
Distance:
Actual: Not Available
Elevation:
Relative:

Site Name : LAGRANGE ASPHALT PLANT - C10
W6615 US HIGHWAY 12
WHITEWATER, WI 53190

Database(s) : [T 2 - WI] ***(cont.)***

Envirosite ID: 6746638
EPA ID: N/R

T 2 - WI ***(cont.)***

Is Flammable :	Yes
Is Gas Under Pressure :	No
Is Physical HNOC :	No
Is Emission of Gas with Water :	No
Is Organic Peroxide :	No
Is Oxidizer :	No
Is Pyrophoric Gas :	No
Is Pyrophoric Liquid or Solid :	No
Is Self-Heating :	No
Is Self-Reactive :	No
Is Acute Toxicity :	Yes
Is Aspiration Hazard :	No
Is Carcinogenicity :	Yes
Is Germ Cell Mutagenicity :	No
Is Health HNOC :	No
Is Reproductive Toxicity :	No
Is Respiratory or Skin Sensitization:	Yes
Is Serious Eye Damage or Eye Irritation:	Yes
Is Simple Asphyxiant :	No
Is Skin Corrosion or Irritation :	Yes
Is Specific Target Organ Toxicity :	Yes
Last Date in Agency List :	01/21/2020

Facility ID :	200562
Facility Status :	ACTIVE
Facility Type :	Facility
Corporate Name :	N/R
NAICS :	237310 - Highway, Street, and Bridge Construction
Main Chemical CAS Number :	N/A
Main Chemical Name :	SAND & GRAVEL
Main Chemical EHS Name :	N/R
Is Main Chemical EHS :	N
Is Main Chemical State Pure :	Y
Is Main Chemical State Mix :	N
Is Main Chemical State Solid :	Y
Is Main Chemical State Liquid :	N
Is Main Chemical Hazard Pressure :	N
Is Main Chemical Hazard Reactivity :	N
Is Main Chemical Hazard Delayed :	Y
Is Main Chemical Hazard Immediate :	N
Number of Chemicals :	3
Number of EHS Chemicals :	0
Number of EHS More Than TPQ Chemicals:	0
Is Combustible Dust :	No
Is Corrosive to Metal :	No
Is Explosive :	No
Is Flammable :	No
Is Gas Under Pressure :	No
Is Physical HNOC :	No
Is Emission of Gas with Water :	No
Is Organic Peroxide :	No
Is Oxidizer :	No
Is Pyrophoric Gas :	No
Is Pyrophoric Liquid or Solid :	No
Is Self-Heating :	No

Map Id: 2
Direction:
Distance:
Actual: Not Available
Elevation:
Relative:

Site Name : LAGRANGE ASPHALT PLANT - C10
W6615 US HIGHWAY 12
WHITEWATER, WI 53190

Database(s) : [T 2 - WI] ***(cont.)***

Envirosite ID: 6746638
EPA ID: N/R

T 2 - WI ***(cont.)***

Is Self-Reactive :	No
Is Acute Toxicity :	No
Is Aspiration Hazard :	No
Is Carcinogenicity :	Yes
Is Germ Cell Mutagenicity :	No
Is Health HNOC :	No
Is Reproductive Toxicity :	No
Is Respiratory or Skin Sensitization:	No
Is Serious Eye Damage or Eye Irritation:	No
Is Simple Asphyxiant :	No
Is Skin Corrosion or Irritation :	No
Is Specific Target Organ Toxicity :	Yes
Last Date in Agency List :	01/21/2020

Map Id: A3
Direction:
Distance:
Actual: Not Available
Elevation:
Relative:

Site Name : WI2651397 | LA GRANGE GENERAL STORE
W6098 HWY 12
WHITEWATER, WI 53190

Database(s) : [ECHO, FRS]

Envirosite ID: 6639784
EPA ID: N/R

ECHO

Facility Name :	LA GRANGE GENERAL STORE
Facility Address :	W6098 HWY 12, WHITEWATER, WI 53190
County :	WALWORTH
Last Inspection Date :	01/30/1997
Registry ID :	110016854527
FIPS Code :	55127
EPA Region :	05
Inspection Count :	0
Last Inspection Days :	8410
Informal Count :	0
Last Informal Action Date :	01/31/2003
Formal Action Count :	0
Last Formal Action Date :	N/R
Total Penalties :	0
Penalty Count :	N/R
Last Penalty Date :	N/R
Last Penalty Amount :	N/R
QTRS IN NC :	0
Programs IN SNC :	0
Current Compliance Status :	No Violation Identified
Three-Year Compliance Status :	_____
Collection Method :	N/R
Reference Point :	N/R
Accuracy Meters :	999999999
Derived Tribes :	N/R
Derived HUC :	07120006

Map Id: A3
Direction:
Distance:
Actual: Not Available
Elevation:
Relative:

Site Name : WI2651397 | LA GRANGE GENERAL STORE
W6098 HWY 12
WHITEWATER, WI 53190

Database(s) : [ECHO, FRS] ***(cont.)***

Envirosite ID: 6639784
EPA ID: N/R

ECHO ***(cont.)***

Derived WBD :	071200060501
Derived STCTY FIPS :	55127
Derived Zip :	53190
Derived CD113 :	01
Derived CB2010 :	551270003011025
MYRTK Universe :	NNN
NPDES IDs :	N/R
CWA Permit Types :	N/R
CWA Compliance Tracking :	N/R
CWA NAICS :	N/R
CWA SICS :	N/R
CWA Inspection Count :	N/R
CWA Last Inspection Days :	N/R
CWA Informal Count :	N/R
CWA Formal Action Count :	N/R
CWA Last Formal Action Date :	N/R
CWA Penalties :	N/R
CWA Last Penalty Date :	N/R
CWA Last Penalty Amount :	N/R
CWA Quarters IN NC :	N/R
CWA Current Compliance Status :	N/R
CWA Current SNC Flag :	N
CWA 13 Quarters Compliance Status :	N/R
CWA 13 Quarters Effluent Exceedances:	N/R
CWA Three-Year QNCR Codes :	N/R
DFR URL :	Click here for hyperlink provided by the agency.
Facility SIC :	N/R
Facility NAICS :	N/R
Facility Last Inspection EPA Date :	N/R
Facility Last Inspection State Date :	01/30/1997
Facility Last Formal Act EPA Date :	N/R
Facility Last Formal Act State Date :	N/R
Facility Last Informal Act EPA Date :	N/R
Facility Last Informal Act State Date:	01/31/2003
Facility Federal Agency :	N/R
TRI Reporter :	N/R
Facility Imp Water Flag :	N/R
Current SNC Flag :	N
Indian County Flag :	N
Federal Flag :	N/R
US Mexico Border Flag :	N/R
Chesapeak Bay Flag :	N/R
AIR Flag :	N
NPDES Flag :	N
SDWIS Flag :	Y
RCRA Flag :	N
TRI Flag :	N
GHG Flag :	N
Major Flag :	N/R
Active Flag :	Y
NAA Flag :	N/R
Latitude :	42.799399
Longitude :	-88.602348
Last Date in Agency List :	02/10/2020

Map Id: A3
Direction:
Distance:
Actual: Not Available
Elevation:
Relative:

Site Name : WI2651397 | LA GRANGE GENERAL STORE
W6098 HWY 12
WHITEWATER, WI 53190

Database(s) : [ECHO, FRS] ***(cont.)***

Envirosite ID: 6639784
EPA ID: N/R

FRS

Facility Name :	LA GRANGE GENERAL STORE
Facility Address :	W6098 HWY 12, WHITEWATER, WI 53190-4033
County :	WALWORTH
Registry ID :	110016854527
FRS Facility URL :	Click here for hyperlink provided by the agency.
Last Date in Agency List :	06/04/2020

Source Description :

The Safe Drinking Water Information System Federal Data Warehouse contains information about public water systems and their violations of EPA's drinking water regulations.

Source Description :

The WI-ESR is a database that contains core information about facilities, organizations, and people related to Wisconsin's DNR (Department of Natural Resources).

FRS Environmental Interest

Source and System ID :	SFDW - WI2651397 WI-ESR - 408297

Map Id: A4
Direction:
Distance:
Actual: Not Available
Elevation:
Relative:

Site Name : DARRS SERVICE
W6062 HWY 12
WHITEWATER, WI 53190

Database(s) : [HIST UST - WI, UST - WI]

Envirosite ID: 6731623
EPA ID: N/R

HIST UST - WI

Facility Name :	DARRS SERVICE
Facility Address :	W6062 HWY 12, WHITEWATER, 53190
County :	WALWORTH
Site ID :	66896
Federally Regulated UST :	Y
Land Owner Type :	Private
Fire Department :	Lauderdale-La Grange
Reg ID :	358432
Object Type :	UST
WANG Object ID :	641200050
Tank Status :	Closed/Removed

Map Id: A4
Direction:
Distance:
Actual: Not Available
Elevation:
Relative:

Site Name : DARRS SERVICE
W6062 HWY 12
WHITEWATER, WI 53190

Database(s) : [HIST UST - WI, UST - WI] ***(cont.)***

Envirosite ID: 6731623
EPA ID: N/R

HIST UST - WI ***(cont.)***

Tank Status Date :	09/07/1995
Tank Contents ID :	Waste/Used Motor Oil
Capacity (in Gallons) :	500
Occupancy Type ID :	Other
Wall Size :	Single
Marketer :	N
Cust ID :	317503
Owner :	HENRY DARR
Owner Address :	W6062 US HIGHWAY 12, WHITEWATER, WI 53190
Agency Link :	Click here for hyperlink provided by the agency.
Last Date in Agency List :	06/05/2018

Site ID :	66896
Federally Regulated UST :	Y
Land Owner Type :	Private
Fire Department :	Lauderdale-La Grange
Reg ID :	358433
Object Type :	UST
WANG Object ID :	641200051
Tank Status :	Closed/Removed
Tank Status Date :	09/07/1995
Tank Contents ID :	Diesel
Capacity (in Gallons) :	10000
Occupancy Type ID :	Other
Wall Size :	Single
Marketer :	N
Cust ID :	317503
Owner :	HENRY DARR
Owner Address :	W6062 US HIGHWAY 12, WHITEWATER, WI 53190
Agency Link :	Click here for hyperlink provided by the agency.
Last Date in Agency List :	06/05/2018

Site ID :	66896
Federally Regulated UST :	Y
Land Owner Type :	Private
Fire Department :	Lauderdale-La Grange
Reg ID :	358434
Object Type :	UST
WANG Object ID :	641200052
Tank Status :	Closed/Removed
Tank Status Date :	09/07/1995
Tank Contents ID :	Diesel
Capacity (in Gallons) :	500
Occupancy Type ID :	Other
Wall Size :	Single
Marketer :	N
Cust ID :	317503
Owner :	HENRY DARR
Owner Address :	W6062 US HIGHWAY 12, WHITEWATER, WI 53190
Agency Link :	Click here for hyperlink provided by the agency.
Last Date in Agency List :	06/05/2018

UST - WI

Facility Name :	DARRS SERVICE

Map Id: A4
Direction:
Distance:
Actual: Not Available
Elevation:
Relative:

Site Name : DARRS SERVICE
W6062 HWY 12
WHITEWATER, WI 53190

Database(s) : [HIST UST - WI, UST - WI] ***(cont.)***

Envirosite ID: 6731623
EPA ID: N/R

UST - WI ***(cont.)***

Facility Address :	W6062 Hwy 12, Whitewater, WI 53190
County :	Walworth County

Site Details

License Number :	66896
License Type :	Registration
License :	Storage Tank Registration
Expiration Date :	N/R
Licensee :	Henry Darr
Facility Reference Number :	66896|66896
Municipality Name :	N/R
Fire Department ID :	6412
Last Date in Agency List :	07/31/2020

Tank Details

Tank ID :	358432
Tank Reference Number :	358432|641200050
Equipment Wang ID :	641200050
Tank Type :	Underground Storage Tank
Tank Status :	Closed/Removed
Tank Contents :	Waste/Used Motor Oil
Capacity :	500.00
Install Date :	N/R
Construction Material :	Coated Steel
Wall Size :	N/R
Federally Regulated :	Yes
Marketer :	N
Tank Occupancy :	Other
Corrosion Protection Type :	N/R
Overfill Protection Type :	Not Installed
Leak Detection :	Not Required
Leak Test Method :	N/R
Spill Protection :	Not Installed
Containment Sump Installed :	N/R
Dispenser Sump Installed :	N
Overfill Protection :	Not Installed
Date of Lining :	N/R
Lining Inspection Date :	N/R
CAS Number :	N/R
Pipe Type :	N/R
Pipe Status :	N/R
Pipe Aboveground Piping :	N
Pipe Underground Piping :	N
Pipe Construction Material :	N/R
Pipe Wall Type :	N/R
Pipe UST Manifolded :	N/R
Pipe ID :	N/R
Pipe Detection :	N/R
Pipe System Type :	N/R
Pipe Flex Connector :	N/R
Pipe Method :	N/R
Pipe Leak Detection :	N/R
Pipe Corrosion Protection :	N/R

Map Id: A4
Direction:
Distance:
Actual: Not Available
Elevation:
Relative:

Site Name : DARRS SERVICE
W6062 HWY 12
WHITEWATER, WI 53190

Database(s) : [HIST UST - WI, UST - WI] ***(cont.)***

Envirosite ID: 6731623
EPA ID: N/R

UST - WI ***(cont.)***

Latest Test Name :	N/R
Latest Test Date :	N/R
Latest Test Expiration Date :	N/R

Tank ID :	358433
Tank Reference Number :	358433|641200051
Equipment Wang ID :	641200051
Tank Type :	Underground Storage Tank
Tank Status :	Closed/Removed
Tank Contents :	Diesel
Capacity :	10000.00
Install Date :	N/R
Construction Material :	Coated Steel
Wall Size :	N/R
Federally Regulated :	Yes
Marketer :	N
Tank Occupancy :	Other
Corrosion Protection Type :	N/R
Overfill Protection Type :	Not Installed
Leak Detection :	Not Required
Leak Test Method :	N/R
Spill Protection :	Not Installed
Containment Sump Installed :	N/R
Dispenser Sump Installed :	N
Overfill Protection :	Not Installed
Date of Lining :	N/R
Lining Inspection Date :	N/R
CAS Number :	N/R
Pipe Type :	N/R
Pipe Status :	N/R
Pipe Aboveground Piping :	N
Pipe Underground Piping :	N
Pipe Construction Material :	N/R
Pipe Wall Type :	N/R
Pipe UST Manifolded :	N/R
Pipe ID :	N/R
Pipe Detection :	N/R
Pipe System Type :	N/R
Pipe Flex Connector :	N/R
Pipe Method :	N/R
Pipe Leak Detection :	N/R
Pipe Corrosion Protection :	N/R
Latest Test Name :	N/R
Latest Test Date :	N/R
Latest Test Expiration Date :	N/R

Tank ID :	358434
Tank Reference Number :	358434|641200052
Equipment Wang ID :	641200052
Tank Type :	Underground Storage Tank
Tank Status :	Closed/Removed
Tank Contents :	Diesel
Capacity :	500.00
Install Date :	N/R
Construction Material :	Coated Steel

Map Id: A4
Direction:
Distance:
Actual: Not Available
Elevation:
Relative:

Site Name : DARRS SERVICE
W6062 HWY 12
WHITEWATER, WI 53190

Database(s) : [HIST UST - WI, UST - WI] ***(cont.)***

Envirosite ID: 6731623
EPA ID: N/R

UST - WI ***(cont.)***

Wall Size :	N/R
Federally Regulated :	Yes
Marketer :	N
Tank Occupancy :	Other
Corrosion Protection Type :	N/R
Overfill Protection Type :	Not Installed
Leak Detection :	Not Required
Leak Test Method :	N/R
Spill Protection :	Not Installed
Containment Sump Installed :	N/R
Dispenser Sump Installed :	N
Overfill Protection :	Not Installed
Date of Lining :	N/R
Lining Inspection Date :	N/R
CAS Number :	N/R
Pipe Type :	N/R
Pipe Status :	N/R
Pipe Aboveground Piping :	N
Pipe Underground Piping :	N
Pipe Construction Material :	N/R
Pipe Wall Type :	N/R
Pipe UST Manifolded :	N/R
Pipe ID :	N/R
Pipe Detection :	N/R
Pipe System Type :	N/R
Pipe Flex Connector :	N/R
Pipe Method :	N/R
Pipe Leak Detection :	N/R
Pipe Corrosion Protection :	N/R
Latest Test Name :	N/R
Latest Test Date :	N/R
Latest Test Expiration Date :	N/R

Map Id: B5
Direction:
Distance:
Actual: Not Available
Elevation:
Relative:

Site Name : JOHNS WELDING & RADIATOR
W7296 HWY 12
WHITEWATER, WI 53190

Database(s) : [SHWIMS - WI]

Envirosite ID: 6767490
EPA ID: N/R

SHWIMS - WI

Facility Name :	JOHNS WELDING & RADIATOR
Facility Address :	W7296 HWY 12, WHITEWATER, WI 53190
County :	WALWORTH
Facility ID :	265154450
EPA ID :	NONE
Facility Status :	OPERATING
Facility Owner Type :	PRIVATE
Mailing Address :	W7296 HWY 12, WHITEWATER, WI 53190

Map Id: B5
Direction:
Distance:
Actual: Not Available
Elevation:
Relative:

Site Name : JOHNS WELDING & RADIATOR
W7296 HWY 12
WHITEWATER, WI 53190

Database(s) : [SHWIMS - WI] ***(cont.)***

Envirosite ID: 6767490
EPA ID: N/R

SHWIMS - WI ***(cont.)***

Public Land Survey System Description:	NOT AVAILABLE
WDNR Region :	SOUTHEAST REGION
SIC :	NONE
NAICS :	NONE
Latitude and Longitude :	NOT AVAILABLE
Last Date in Agency List :	05/13/2020

Owner Details

Facility Owner Name :	N/R
Facility Owner Address :	N/R

Waste Management Activity Details

License Number :	N/A
Activity Status :	ACTIVE
Activity Type :	UNCLASSIFIED
Waste :	N/R

Map Id: 6
Direction:
Distance:
Actual: Not Available
Elevation:
Relative:

Site Name : SYLVESTER OBREMSKI
W5890 STATE HWY 12
LA GRANGE, WI 53190

Database(s) : [HIST UST - WI, UST - WI]

Envirosite ID: 6714405
EPA ID: N/R

HIST UST - WI

Facility Name :	SYLVESTER OBREMSKI
Facility Address :	W5890 STATE HWY 12, LA GRANGE, 53190
County :	WALWORTH
Site ID :	169300
Federally Regulated UST :	N
Land Owner Type :	Private
Fire Department :	Lauderdale-La Grange
Reg ID :	458872
Object Type :	UST
WANG Object ID :	N/R
Tank Status :	Closed/Removed
Tank Status Date :	10/14/1997
Tank Contents ID :	Leaded Gasoline
Capacity (in Gallons) :	1111
Occupancy Type ID :	Agricultural
Wall Size :	Single
Marketer :	N
Cust ID :	170135
Owner :	SYLVESTER OBREMSKI
Owner Address :	7032 W OKLAHOMA AVE, MILWAUKEE, WI 53219

Map Id: 6
Direction:
Distance:
Actual: Not Available
Elevation:
Relative:

Site Name : SYLVESTER OBREMSKI
W5890 STATE HWY 12
LA GRANGE, WI 53190

Database(s) : [HIST UST - WI, UST - WI] ***(cont.)***

Envirosite ID: 6714405
EPA ID: N/R

HIST UST - WI ***(cont.)***

Agency Link :	Click here for hyperlink provided by the agency.
Last Date in Agency List :	06/05/2018

UST - WI

Facility Name :	SYLVESTER OBREMSKI
Facility Address :	W5890 State Hwy 12, La Grange, WI 53190
County :	Walworth County

Site Details

License Number :	171276
License Type :	Registration
License :	Storage Tank Registration
Expiration Date :	N/R
Licensee :	Sylvester Obremski
Facility Reference Number :	171276|169300
Municipality Name :	N/R
Fire Department ID :	6412
Last Date in Agency List :	07/31/2020

Tank Details

Tank ID :	458872
Tank Reference Number :	458872|
Equipment Wang ID :	N/R
Tank Type :	Underground Storage Tank
Tank Status :	Closed/Removed
Tank Contents :	Leaded Gasoline
Capacity :	1111.00
Install Date :	N/R
Construction Material :	Bare Steel
Wall Size :	N/R
Federally Regulated :	No
Marketer :	N
Tank Occupancy :	Agricultural
Corrosion Protection Type :	N/R
Overfill Protection Type :	Not Installed
Leak Detection :	N/R
Leak Test Method :	N/R
Spill Protection :	Not Installed
Containment Sump Installed :	N/R
Dispenser Sump Installed :	N
Overfill Protection :	Not Installed
Date of Lining :	N/R
Lining Inspection Date :	N/R
CAS Number :	N/R
Pipe Type :	N/R
Pipe Status :	N/R
Pipe Aboveground Piping :	N
Pipe Underground Piping :	N
Pipe Construction Material :	N/R
Pipe Wall Type :	N/R
Pipe UST Manifolded :	N/R
Pipe ID :	N/R

Map Id: 6
Direction:
Distance:
Actual: Not Available
Elevation:
Relative:

Site Name : SYLVESTER OBREMSKI
W5890 STATE HWY 12
LA GRANGE, WI 53190

Database(s) : [HIST UST - WI, UST - WI] ***(cont.)***

Envirosite ID: 6714405
EPA ID: N/R

UST - WI ***(cont.)***

Pipe Detection :	N/R
Pipe System Type :	N/R
Pipe Flex Connector :	N/R
Pipe Method :	N/R
Pipe Leak Detection :	N/R
Pipe Corrosion Protection :	N/R
Latest Test Name :	N/R
Latest Test Date :	N/R
Latest Test Expiration Date :	N/R

Map Id: 7
Direction:
Distance:
Actual: Not Available
Elevation:
Relative:

Site Name : VERIZON LA GRANGE
W7586 US HWY 12
WHITEWATER, WI 53190

Database(s) : [AST - WI, HIST AST - WI]

Envirosite ID: 6730149
EPA ID: N/R

AST - WI

Facility Name :	Verizon La Grange
Facility Address :	W7586 Us Hwy 12, Whitewater, WI 53190
County :	Walworth County

Site Details

License Number :	449660
License Type :	Registration
License :	Storage Tank Registration
Expiration Date :	N/R
Licensee :	Verizon Wireless
Facility Reference Number :	691848|739708
Municipality Name :	City of Whitewater
Fire Department ID :	6411
Last Date in Agency List :	07/31/2020

Tank Details

Tank ID :	7410
Tank Reference Number :	1190494|
Equipment Wang ID :	N/R
Tank Type :	Aboveground Storage Tank
Tank Status :	In Use
Tank Contents :	Diesel
Capacity :	210.00
Install Date :	05/14/2008
Construction Material :	Bare Steel
Wall Size :	Double
Federally Regulated :	No
Marketer :	N
Tank Occupancy :	Optional Standby Gen

Map Id: 7
Direction:
Distance:
Actual: Not Available
Elevation:
Relative:

Site Name : VERIZON LA GRANGE
W7586 US HWY 12
WHITEWATER, WI 53190

Database(s) : [AST - WI, HIST AST - WI] ***(cont.)***

Envirosite ID: 6730149
EPA ID: N/R

AST - WI ***(cont.)***

Corrosion Protection Type :	N/R
Overfill Protection Type :	Not Installed
Leak Detection :	Interstitial Monitor
Leak Test Method :	N/R
Spill Protection :	Installed
Containment Sump Installed :	N
Dispenser Sump Installed :	N
Overfill Protection :	Not Installed
Date of Lining :	N/R
Lining Inspection Date :	N/R
CAS Number :	N/R
Pipe Type :	N/R
Pipe Status :	N/R
Pipe Aboveground Piping :	N
Pipe Underground Piping :	N
Pipe Construction Material :	N/R
Pipe Wall Type :	N/R
Pipe UST Manifolded :	N/R
Pipe ID :	N/R
Pipe Detection :	N/R
Pipe System Type :	N/R
Pipe Flex Connector :	N/R
Pipe Method :	N/R
Pipe Leak Detection :	N/R
Pipe Corrosion Protection :	N/R
Latest Test Name :	N/R
Latest Test Date :	N/R
Latest Test Expiration Date :	N/R

HIST AST - WI

Facility Name :	VERIZON LA GRANGE
Facility Address :	W7586 US HWY 12, WHITEWATER, 53190
County :	WALWORTH
Site ID :	739708
Federally Regulated UST :	N/R
Land Owner Type :	Private
Fire Department ID :	Whitewater
Reg ID :	1190494
Object Type :	AST
WANG Object ID :	N/R
Tank Status :	In Use
Tank Status Date :	N/R
Tank Contents ID :	Diesel
Capacity (in Gallons) :	210
Occupancy Type ID :	Backup or Emergency Generator
Wall Size :	Double
Marketer :	N
Site Address :	W7586 US HWY 12, WHITEWATER, WI 53190
Cust ID :	893494
Owner :	VERIZON WIRELESS
Owner Address :	15725 W RYERSON RD, NEW BERLIN, WI 53151
Owner PO Box :	N/R
Agency Link :	Click here for hyperlink provided by the agency.
Last Date in Agency List :	06/05/2018

Map Id: B8
Direction: W
Distance: 0.002 mi.
Actual: 12.234 ft.
Elevation: 0.169 mi. / 889.859 ft.
Relative: Lower

Site Name : BLUFF CREEK GATE STATION
W7295 HWY 12
WHITEWATER, WI 53190

Database(s) : [T 2 - WI]

Envirosite ID: 6745700
EPA ID: N/R

T 2 - WI

Facility Name :	BLUFF CREEK GATE STATION
Facility Address :	W7295 HWY 12, WHITEWATER, Wisconsin 53190
Facility ID :	196292
Facility Status :	ACTIVE
Facility Type :	Facility
Corporate Name :	N/R
NAICS :	221210 - Natural Gas Distribution
Main Chemical CAS Number :	N/A
Main Chemical Name :	RP CAPTAN (V) (ODORANT)
Main Chemical EHS Name :	N/R
Is Main Chemical EHS :	N
Is Main Chemical State Pure :	N
Is Main Chemical State Mix :	Y
Is Main Chemical State Solid :	N
Is Main Chemical State Liquid :	Y
Is Main Chemical Hazard Pressure :	Y
Is Main Chemical Hazard Reactivity :	N
Is Main Chemical Hazard Delayed :	Y
Is Main Chemical Hazard Immediate :	Y
Number of Chemicals :	1
Number of EHS Chemicals :	0
Number of EHS More Than TPQ Chemicals:	0
Is Combustible Dust :	No
Is Corrosive to Metal :	No
Is Explosive :	No
Is Flammable :	Yes
Is Gas Under Pressure :	No
Is Physical HNOC :	No
Is Emission of Gas with Water :	No
Is Organic Peroxide :	No
Is Oxidizer :	No
Is Pyrophoric Gas :	No
Is Pyrophoric Liquid or Solid :	No
Is Self-Heating :	No
Is Self-Reactive :	No
Is Acute Toxicity :	Yes
Is Aspiration Hazard :	No
Is Carcinogenicity :	No
Is Germ Cell Mutagenicity :	No
Is Health HNOC :	No
Is Reproductive Toxicity :	No
Is Respiratory or Skin Sensitization:	Yes
Is Serious Eye Damage or Eye Irritation:	No
Is Simple Asphyxiant :	Yes
Is Skin Corrosion or Irritation :	No
Is Specific Target Organ Toxicity :	No
Last Date in Agency List :	01/21/2020

ENVIROSITE ID	NAME	ADDRESS	CITY	ZIP	DATABASE(S)
21140302	CUNNINGHAMS GENERAL TRUCK...	UNKNOWN	UNKNOWN		SHWIMS - WI
21140499	DARIEN VIL	UNKNOWN	UNKNOWN		SHWIMS - WI
21141019	DP ELECTRONIC RECYCLING F...	LOT 1, WHITEWATER INDUST ...	WHITEWATER	53190	SHWIMS - WI
20566260	ENBRIDGE - DELAVAN STATIO...	HWY 59	WHITEWATER	53190	ECHO, FRS, RCRA_VSQ...
20519535	FRANK MEYER | FRANK MAYER...	N1124 HWY N	WHITEWATER	53190	ECHO, FRS, HIST SHWI...
33322890	FRANK MEYER | FRANK MAYER...	N1124 HWY N	COLDSPRING	53190	ECHO, FRS, RCRA_NON...
21142021	FRIEDL FUEL & CARTAGE INC	UNKNOWN	UNKNOWN		SHWIMS - WI
21095971	GOESSLING PROPERTY (FORME...	W9543 CNTY RD S	WHITEWATER	53190	HIST ERP - WI, HIST LE...
21076280	HAVILL-SPOERL	UNKNOWN	WHITEWATER	53190	HIST LUST - WI
21142799	JAMES BAKER	UNKNOWN	UNKNOWN		SHWIMS - WI
22184749	JOHNS DISPOSAL	107 CTH U	WHITEWATER	53190	CRS - WI, HIST SHWIMS...
22259424	JOHNS DISPOSAL SERVICE IN...	107 COUNTY RD U	WHITEWATER	53190	SHWIMS - WI, SWF/LF -...
22252835	JOHNS DISPOSAL SERVICE IN...	107 COUNTY ROAD U	WHITEWATER	53190	SWRCY - WI
20651882	KAISER ALUMINUM AND CHEMI...	HWY 59 S	WHITEWATER	53190	ECHO, FRS, HIST CRS -...
21142992	KANE RICHARD J	W8867 INLAND RD	WHITEWATER	53190	SHWIMS - WI
21412214	L & H WRECKING INC	UNKNOWN	UNKNOWN		SHWIMS - WI
21143440	LOUS DISPOSAL SERVICE	UNKNOWN	UNKNOWN		SHWIMS - WI
22239607	LSP WHITEWATER COGENERATI...	111 CTH U	WHITEWATER	53190	BRS, CRS - WI, ECHO, ...
21109816	LYLE JACOBS EXCAVATING LT...	KRUEGER RD-W OF HWY 3	UNKNOWN		HIST SHWIMS - WI, HIS...
21144657	NORTH STREET BRIDGE RECON...	LANDFILL ACCESS RD	WHITEWATER	53190	SHWIMS - WI
21394637	NORTHERN NATURAL GAS-BLUF...	W7295 STH 12	WHITEWATER	53190	ECHO, FRS, RCRA_NON...
20579729	POPE TRANSPORT INC	N331 HWY 59	WHITEWATER	53190	ECHO, FRS, RCRA_NON...
21355331	PROJECTOR RECORDER BELT C...	RT 3 HWY 59 FIRE NO18A7TO...	WHITEWATER	53190	ECHO, FRS, SHWIMS - WI
21113686	S & R EGG FARMS INC	NW1/4 SW1/4 SEC2 T4N R16	LA GRANGE	53190	FRS, SHWIMS - WI, SWF...
21359837	STATEWIDE FARM EQUIPMENT	HWY 12, RT 5 BOX 43	WHITEWATER	53190	ECHO, FRS, SHWIMS - WI
21148417	WHITEWATER CTY	SW 1/4 SE 1/4 S33 T5N R15...	WHITEWATER	53190	SHWIMS - WI

FEDERAL RCRA NON-CORRACTS TSD FACILITIES LIST

ARCHIVED RCRA TSDF: Resource Conservation and Recovery Act hazardous waste transportation storage disposal and treatment facilities

Agency Version Date: 07/21/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 10/19/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 07/23/2020

RCRA_TSDF: Resource Conservation and Recovery Act hazardous waste transportation storage disposal and treatment facilities

Agency Version Date: 07/21/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 10/19/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 07/23/2020

FEDERAL CERCLIS LIST

CERCLIS NFRAP: The CERCLIS sites with No Further Remedial Action Planned from the CERCLIS program database. The Environmental Protection Agency decommissioned the CERCLIS data in 2014. The last update was November 12, 2013.

Agency Version Date: 03/16/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 11/17/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: 800-424-9346
Most Recent Contact: 08/21/2020

CERCLIS-HIST: The CERCLIS program database contains information on the assessment and remediation of federal hazardous waste sites. The Environmental Protection Agency decommissioned the CERCLIS data in 2014. The last update was November 12, 2013.

Agency Version Date: 05/22/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 11/17/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: 800-424-9346
Most Recent Contact: 08/21/2020

FEDERAL FACILITY: Sites where Federal Facilities Restoration and Reuse Office (FFRRO) arranged cleanup for Base Closure and Property Transfer at Federal Facilities

Agency Version Date: 05/22/2020
Agency Update Frequency: Varies
Planned Next Contact: 11/17/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8712
Most Recent Contact: 08/21/2020

SEMS_8R_ACTIVE SITES: 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. NPL sites include latitude and longitude information. For non-NPL sites, a brief site status is provided.

Agency Version Date: 05/22/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 11/17/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 08/21/2020

SEMS_8R_ARCHIVED SITES: The 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.

Agency Version Date: 05/22/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 11/17/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 08/21/2020

FEDERAL RCRA CORRACTS FACILITIES LIST

CORRACTS: List of facilities where Resource Conservation and Recovery Act Corrective Action Program used to investigate and remediate hazardous releases

Agency Version Date: 07/21/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 10/19/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-1667
Most Recent Contact: 07/23/2020

HIST CORRACTS 2: List of facilities where Resource Conservation and Recovery Act Corrective Action Program used to investigate and remediate hazardous releases that are no longer in current agency list.

Agency Version Date: 10/12/2018
Agency Update Frequency: Annually
Planned Next Contact: 12/15/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-1667
Most Recent Contact: 09/18/2020

FEDERAL DELISTED NPL SITE LIST

DELISTED NPL: National Priority List of sites that were delisted and no longer require action

Agency Version Date: 05/25/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 11/17/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 08/21/2020

DELISTED PROPOSED NPL: Sites that have been delisted from the proposed National Priority List

Agency Version Date: 05/25/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 11/17/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 08/21/2020

SEMS_DELETED NPL: All Deleted National Priority List Sties

Agency Version Date: 05/22/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 11/17/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 08/21/2020

FEDERAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS

EPA LF MOP: Sites in the EPA Landfill Methane Outreach Program

Agency Version Date: 07/17/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 10/14/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 07/17/2020

FEDERAL ERNS LIST

ERNS: Emergency Response Notification System records of reported spills

Agency Version Date: 08/14/2020
Agency Update Frequency: Annually
Planned Next Contact: 11/10/2020
Agency: National Response Center United States Coast Guard
Agency Contact: N/R
Most Recent Contact: 08/14/2020

FEDERAL INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES

FED E C: Federal listing of remediation sites with engineering controls

Agency Version Date: 09/21/2020
Agency Update Frequency: Varies
Planned Next Contact: 12/18/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: 800-424-9346
Most Recent Contact: 09/21/2020

FEDERAL INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES (cont.)

FED I C: Federal listing of remediation sites with institutional controls

Agency Version Date: 09/21/2020
Agency Update Frequency: Varies
Planned Next Contact: 12/18/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: 800-424-9346
Most Recent Contact: 09/21/2020

RCRA IC_EC: Sites with institutional or engineering controls related to Resource Conservation and Recovery Act

Agency Version Date: 06/02/2020
Agency Update Frequency: Varies
Planned Next Contact: 11/23/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 08/27/2020

FEDERAL RCRA GENERATORS LIST

HIST RCRA_CESQG: List of Resource Conservation and Recovery Act licensed conditionally exempt small quantity generators that are no longer in current agency list.

Agency Version Date: 10/12/2018
Agency Update Frequency: Annually
Planned Next Contact: 12/15/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 09/18/2020

HIST RCRA_LQG: List of Resource Conservation and Recovery Act licensed large quantity generators that are no longer in current agency list.

Agency Version Date: 10/12/2018
Agency Update Frequency: Annually
Planned Next Contact: 12/15/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 09/18/2020

HIST RCRA_NONGEN: List of Resource Conservation and Recovery Act licensed non-generators that are no longer in current agency list.

Agency Version Date: 10/12/2018
Agency Update Frequency: Annually
Planned Next Contact: 12/15/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 09/18/2020

HIST RCRA_SQG: List of Resource Conservation and Recovery Act licensed small quantity generators that are no longer in current agency list.

Agency Version Date: 10/12/2018
Agency Update Frequency: Annually
Planned Next Contact: 12/15/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 09/18/2020

RCRA_LQG: Resource Conservation and Recovery Act listing of licensed large quantity generators

Agency Version Date: 07/21/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 10/19/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 07/23/2020

RCRA_NONGEN: Resource Conservation and Recovery Act listing of licensed non-generators

Agency Version Date: 07/21/2020
Agency Update Frequency: Varies
Planned Next Contact: 10/19/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 07/23/2020

RCRA_SQG: Resource Conservation and Recovery Act listing of licensed small quantity generators

Agency Version Date: 07/21/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 10/19/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 07/23/2020

FEDERAL RCRA GENERATORS LIST (cont.)

RCRA_VSQG: Resource Conservation and Recovery Act listing of licensed very small quantity generators.

Agency Version Date: 07/21/2020
Agency Update Frequency: Varies
Planned Next Contact: 10/19/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 07/23/2020

FEDERAL NPL SITE LIST

NPL: List of priority contaminated sites among identified releases or threatened releases of hazardous substances pollutants or contaminants nationally

Agency Version Date: 04/28/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 11/17/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 08/21/2020

NPL EPA R1 GIS: Geospatial data for the Environmental Protection Agency Region 1 National Priority List subject to environmental regulation

Agency Version Date: 05/25/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 11/17/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-2132
Most Recent Contact: 08/21/2020

NPL EPA R3 GIS: Geospatial data for the Environmental Protection Agency Region 3 National Priority List subject to environmental regulation

Agency Version Date: 05/25/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 11/17/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-2132
Most Recent Contact: 08/21/2020

NPL EPA R6 GIS: Geospatial data for the Environmental Protection Agency Region 6 National Priority List subject to environmental regulation

Agency Version Date: 05/25/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 11/17/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-2132
Most Recent Contact: 08/21/2020

NPL EPA R8 GIS: Geospatial data for the Environmental Protection Agency Region 8 National Priority List subject to environmental regulation

Agency Version Date: 05/25/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 11/17/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-2132
Most Recent Contact: 08/21/2020

NPL EPA R9 GIS: Geospatial data for the Environmental Protection Agency Region 9 National Priority List subject to environmental regulation

Agency Version Date: 05/25/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 11/17/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-2132
Most Recent Contact: 08/21/2020

PART NPL: Sites that are a part of an National Priority List site referred to as the parent site

Agency Version Date: 05/25/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 11/17/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 08/21/2020

FEDERAL NPL SITE LIST (cont.)

PROPOSED NPL: Sites that have been proposed for the National Priority List

Agency Version Date: 05/25/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 11/17/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 08/21/2020

SEMS_FINAL NPL: All Included National Priority List Sites

Agency Version Date: 05/22/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 11/17/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 08/21/2020

SEMS_PROPOSED NPL: All Proposed National Priority List Sites

Agency Version Date: 05/22/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 11/17/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 08/21/2020

STATE AND TRIBAL REGISTERED STORAGE TANK LISTS

FEMA UST: FEMA underground storage tank listing

Agency Version Date: 06/21/2019
Agency Update Frequency: Varies
Planned Next Contact: 10/23/2020
Agency: FEMA
Agency Contact: 202-212-5283
Most Recent Contact: 07/27/2020

INDIAN UST R1: Underground Storage Tanks on Indian Land in EPA Region 1

Agency Version Date: 08/10/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 11/06/2020
Agency: U.S. Environmental Protection Agency Region 1
Agency Contact: 855-246-3642
Most Recent Contact: 08/10/2020

INDIAN UST R10: Underground Storage Tanks on Indian Land in EPA Region 10

Agency Version Date: 09/16/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 12/02/2020
Agency: U.S. Environmental Protection Agency Region 10
Agency Contact: 855-246-3642
Most Recent Contact: 09/04/2020

INDIAN UST R2: Underground Storage Tanks on Indian Land in EPA Region 2

Agency Version Date: 12/07/2016
Agency Update Frequency: Quarterly
Planned Next Contact: 11/09/2020
Agency: U.S. Environmental Protection Agency Region 2
Agency Contact: 855-246-3642
Most Recent Contact: 08/13/2020

INDIAN UST R4: Underground Storage Tanks on Indian Land in EPA Region 4

Agency Version Date: 04/14/2020
Agency Update Frequency: Semi Annually
Planned Next Contact: 12/02/2020
Agency: U.S. Environmental Protection Agency Region 4
Agency Contact: 855-246-3642
Most Recent Contact: 09/04/2020

INDIAN UST R5: Underground Storage Tanks on Indian Land in EPA Region 5

Agency Version Date: 04/14/2020
Agency Update Frequency: Varies
Planned Next Contact: 11/19/2020
Agency: U.S. Environmental Protection Agency Region 5
Agency Contact: 855-246-3642
Most Recent Contact: 08/25/2020

STATE AND TRIBAL REGISTERED STORAGE TANK LISTS (cont.)

INDIAN UST R6: Underground Storage Tanks on Indian Land in EPA Region 6

Agency Version Date: 09/21/2020
Agency Update Frequency: Semi Annually
Planned Next Contact: 12/18/2020
Agency: U.S. Environmental Protection Agency Region 6
Agency Contact: 855-246-3642
Most Recent Contact: 09/21/2020

INDIAN UST R7: Underground Storage Tanks on Indian Land in EPA Region 7

Agency Version Date: 04/15/2020
Agency Update Frequency: Varies
Planned Next Contact: 11/19/2020
Agency: U.S. Environmental Protection Agency Region 7
Agency Contact: 855-246-3642
Most Recent Contact: 08/25/2020

INDIAN UST R8: Underground Storage Tanks on Indian Land in EPA Region 8

Agency Version Date: 08/07/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 11/04/2020
Agency: U.S. Environmental Protection Agency Region 8
Agency Contact: 855-246-3642
Most Recent Contact: 08/07/2020

INDIAN UST R9: Underground Storage Tanks on Indian Land in EPA Region 9

Agency Version Date: 08/07/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 11/04/2020
Agency: U.S. Environmental Protection Agency Region 9
Agency Contact: 855-246-3642
Most Recent Contact: 08/07/2020

AST - WI: Registered Aboveground Storage Tanks

Agency Version Date: 07/31/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 10/27/2020
Agency: Department of Safety and Professional Services
Agency Contact: (608) 224-5150
Most Recent Contact: 07/31/2020

HIST AST - WI: Historical Registered Aboveground Storage Tanks

Agency Version Date: 07/30/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 12/01/2020
Agency: Department of Safety and Professional Services
Agency Contact: (608) 224-5150
Most Recent Contact: 09/04/2020

HIST INDIAN UST R5 - WI: Historical Underground Storage Tanks on Indian Land in EPA Region 5

Agency Version Date: 07/30/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 12/01/2020
Agency: Department of Natural Resources
Agency Contact: (608) 266-2104
Most Recent Contact: 09/04/2020

HIST UST - WI: Historical Registered Underground Storage Tanks

Agency Version Date: 07/30/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 12/01/2020
Agency: Department of Safety and Professional Services
Agency Contact: (608) 224-5150
Most Recent Contact: 09/04/2020

INDIAN UST R5 - WI: Underground Storage Tanks on Indian Land in EPA Region 5

Agency Version Date: 07/31/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 10/27/2020
Agency: Department of Natural Resources
Agency Contact: (608) 266-2104
Most Recent Contact: 07/31/2020

UST - WI: Registered Underground Storage Tanks

Agency Version Date: 07/31/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 10/27/2020
Agency: Department of Safety and Professional Services
Agency Contact: (608) 224-5150
Most Recent Contact: 07/31/2020

STATE INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES

HIST I C - WI: List of land restrictions imposed on remediated properties that is no longer in current agency list.

Agency Version Date: 11/01/2018
Agency Update Frequency: Annually
Planned Next Contact: 11/06/2020
Agency: Department of Natural Resources
Agency Contact: (715) 623-4190
Most Recent Contact: 08/11/2020

I C - WI: Land restrictions imposed on remediated properties

Agency Version Date: 03/04/2020
Agency Update Frequency: Varies
Planned Next Contact: 11/16/2020
Agency: Department of Natural Resources
Agency Contact: (715) 623-4190
Most Recent Contact: 08/20/2020

STATE AND TRIBAL LEAKING STORAGE TANK LISTS

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land in EPA Region 1

Agency Version Date: 08/10/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 11/06/2020
Agency: U.S. Environmental Protection Agency Region 1
Agency Contact: 855-246-3642
Most Recent Contact: 08/10/2020

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land in EPA Region 10

Agency Version Date: 09/16/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 12/02/2020
Agency: U.S. Environmental Protection Agency Region 10
Agency Contact: 855-246-3642
Most Recent Contact: 09/04/2020

INDIAN LUST R2: Leaking Underground Storage Tanks on Indian Land in EPA Region 2

Agency Version Date: 12/07/2016
Agency Update Frequency: Quarterly
Planned Next Contact: 11/09/2020
Agency: U.S. Environmental Protection Agency Region 2
Agency Contact: 855-246-3642
Most Recent Contact: 08/13/2020

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land in EPA Region 4

Agency Version Date: 04/14/2020
Agency Update Frequency: Semi Annually
Planned Next Contact: 12/02/2020
Agency: U.S. Environmental Protection Agency Region 4
Agency Contact: 855-246-3642
Most Recent Contact: 09/04/2020

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land in EPA Region 5

Agency Version Date: 04/14/2020
Agency Update Frequency: Varies
Planned Next Contact: 11/19/2020
Agency: U.S. Environmental Protection Agency Region 5
Agency Contact: 855-246-3642
Most Recent Contact: 08/25/2020

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land in EPA Region 6

Agency Version Date: 04/20/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 11/23/2020
Agency: U.S. Environmental Protection Agency Region 6
Agency Contact: 855-246-3642
Most Recent Contact: 08/27/2020

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land in EPA Region 7

Agency Version Date: 04/15/2020
Agency Update Frequency: Varies
Planned Next Contact: 11/19/2020
Agency: U.S. Environmental Protection Agency Region 7
Agency Contact: 855-246-3642
Most Recent Contact: 08/25/2020

STATE AND TRIBAL LEAKING STORAGE TANK LISTS (cont.)

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land in EPA Region 8

Agency Version Date: 04/14/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 11/23/2020
Agency: U.S. Environmental Protection Agency Region 8
Agency Contact: 855-246-3642
Most Recent Contact: 08/26/2020

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land in EPA Region 9

Agency Version Date: 08/07/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 11/04/2020
Agency: U.S. Environmental Protection Agency Region 9
Agency Contact: 855-246-3642
Most Recent Contact: 08/07/2020

HIST LAST - WI: List of Aboveground Storage Tank release records that are no longer in current agency list.

Agency Version Date: 11/01/2018
Agency Update Frequency: Annually
Planned Next Contact: 11/06/2020
Agency: Department of Natural Resources
Agency Contact: (715) 623-4190
Most Recent Contact: 08/11/2020

HIST LUST - WI: List of Leaking Underground Storage Tanks that are no longer in current agency list.

Agency Version Date: 11/01/2018
Agency Update Frequency: Annually
Planned Next Contact: 11/03/2020
Agency: Department of Natural Resources
Agency Contact: (715) 623-4190
Most Recent Contact: 08/07/2020

LAST - WI: Aboveground Storage Tank with releases

Agency Version Date: 03/04/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 11/16/2020
Agency: Department of Natural Resources
Agency Contact: (715) 623-4190
Most Recent Contact: 08/20/2020

LUST - WI: Underground Storage Tank with releases

Agency Version Date: 03/04/2020
Agency Update Frequency: Varies
Planned Next Contact: 11/16/2020
Agency: Department of Natural Resources
Agency Contact: (715) 623-4190
Most Recent Contact: 08/20/2020

STATE AND TRIBAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS

HIST SHWIMS - WI: List of Activities that occur at Facilities include landfill operation, waste transportation, hazardous waste generation, wood burning, waste processing, sharps collection and many more that are no longer in current agency list.

Agency Version Date: 03/20/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 12/08/2020
Agency: Department of Natural Resources
Agency Contact: (715) 623-4190
Most Recent Contact: 09/11/2020

SHWIMS - WI: Facilities that are regulated by the DNR Waste and Materials Management (WMM) program. Activities that occur at Facilities include landfill operation, waste transportation, hazardous waste generation, wood burning, waste processing, sharps collection and many more.

Agency Version Date: 05/13/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 11/06/2020
Agency: Department of Natural Resources
Agency Contact: (608) 266 2177
Most Recent Contact: 08/10/2020

SWF/LF - WI: State Landfill locations

Agency Version Date: 05/25/2020
Agency Update Frequency: Varies
Planned Next Contact: 11/17/2020
Agency: Department of Natural Resources
Agency Contact: (715) 623-4190
Most Recent Contact: 08/21/2020

STATE- AND TRIBAL - EQUIVALENT CERCLIS

HIST SHWS - WI: List of State Hazardous Waste sites recorded in the state that is no longer in current agency list.

Agency Version Date: 07/12/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 11/13/2020
Agency: Department of Natural Resources
Agency Contact: (715) 623-4190
Most Recent Contact: 08/17/2020

SHWS - WI: State Hazardous Waste sites recorded in the state

Agency Version Date: 07/16/2020
Agency Update Frequency: Varies
Planned Next Contact: 01/08/2021
Agency: Department of Natural Resources
Agency Contact: (715) 623-4190
Most Recent Contact: 10/12/2020

STATE AND TRIBAL VOLUNTARY CLEANUP SITES

HIST VCP - WI: List of Voluntary cleanup locations that are no longer in current agency list.

Agency Version Date: 11/01/2018
Agency Update Frequency: Annually
Planned Next Contact: 11/16/2020
Agency: Department of Natural Resources
Agency Contact: (715) 623-4190
Most Recent Contact: 08/20/2020

VCP - WI: Voluntary cleanup locations

Agency Version Date: 03/04/2020
Agency Update Frequency: Varies
Planned Next Contact: 11/16/2020
Agency: Department of Natural Resources
Agency Contact: (715) 623-4190
Most Recent Contact: 08/20/2020

STATE AND TRIBAL BROWNFIELD SITES

TRIBAL BROWNFIELDS: Tribal brownfield remediation site listing

Agency Version Date: 02/10/2017
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 01/05/2021
Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 10/09/2020

RECORDS OF EMERGENCY RELEASE REPORTS

HMIRS (DOT): Hazardous Material spills reported by the Department of Transportation

Agency Version Date: 07/13/2020
Agency Update Frequency: Varies
Planned Next Contact: 01/05/2021
Agency: U.S. Department of Transportation
Agency Contact: (202) 366-4996
Most Recent Contact: 10/09/2020

AG SPILLS - WI: Spill regulated by the Department of Agriculture

Agency Version Date: 03/04/2020
Agency Update Frequency: Varies
Planned Next Contact: 11/16/2020
Agency: Department of Agriculture Trade & Consumer Protection
Agency Contact: (715) 623-4190
Most Recent Contact: 08/20/2020

HIST AG SPILLS - WI: List of Spill regulated by the Department of Agriculture that are no longer in current agency list.

Agency Version Date: 11/01/2018
Agency Update Frequency: Annually
Planned Next Contact: 11/06/2020
Agency: Department of Agriculture Trade & Consumer Protection
Agency Contact: (715) 623-4190
Most Recent Contact: 08/11/2020

HIST SPILLS - WI: List of reported chemical spills that are no longer in current agency list.

Agency Version Date: 11/01/2018
Agency Update Frequency: Annually
Planned Next Contact: 11/06/2020
Agency: Department of Natural Resources
Agency Contact: (715) 623-4190
Most Recent Contact: 08/11/2020

RECORDS OF EMERGENCY RELEASE REPORTS (cont.)

SPILLS - WI: List of reported chemical spills

Agency Version Date: 03/04/2020
Agency Update Frequency: Varies
Planned Next Contact: 11/16/2020
Agency: Department of Natural Resources
Agency Contact: (715) 623-4190
Most Recent Contact: 08/20/2020

LOCAL BROWNFIELD LISTS

BROWNFIELDS-ACRES: EPA Brownfields Assessment, Cleanup and Redevelopment Exchange System.

Agency Version Date: 07/06/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 12/28/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 10/01/2020

FED BROWNFIELDS: Federal brownfield remediation sites

Agency Version Date: 08/13/2020
Agency Update Frequency: Semi Annually
Planned Next Contact: 11/10/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 08/13/2020

LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES

FED CDL: The U.S. Department of Justice listing of clandestine drug lab locations

Agency Version Date: 08/07/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 11/02/2020
Agency: U.S. Department of Justice
Agency Contact: 202-307-7610
Most Recent Contact: 08/07/2020

US HIST CDL: The U.S. Department of Justice historical listing of clandestine drug lab locations

Agency Version Date: 08/05/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 12/08/2020
Agency: U.S. Department of Justice
Agency Contact: 202-307-7610
Most Recent Contact: 09/11/2020

CDL - WI: Methamphetamine Laboratory Recovery Sites

Agency Version Date: 06/06/2019
Agency Update Frequency: Varies
Planned Next Contact: 11/12/2020
Agency: Wisconsin Department of Justice
Agency Contact: N/R
Most Recent Contact: 08/18/2020

LOCAL LISTS OF LANDFILL / SOLID WASTE DISPOSAL SITES

HIST INDIAN ODI R8: List of Region 8 Indian land open dump inventory sites maintained within the STARS program that is no longer in current agency list.

Agency Version Date: 11/12/2018
Agency Update Frequency: Annually
Planned Next Contact: 11/06/2020
Agency: Indian Health Service
Agency Contact: 855-246-3642
Most Recent Contact: 08/11/2020

INDIAN ODI R8: Region 8 Indian land open dump inventory sites maintained within the STARS program

Agency Version Date: 03/16/2020
Agency Update Frequency: Varies
Planned Next Contact: 11/13/2020
Agency: Indian Health Service
Agency Contact: 855-246-3642
Most Recent Contact: 08/18/2020

ODI: Open dump inventory sites

Agency Version Date: 10/03/2017
Agency Update Frequency: No Update
Planned Next Contact: 11/30/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 09/02/2020

LOCAL LISTS OF LANDFILL / SOLID WASTE DISPOSAL SITES (cont.)

TRIBAL ODI: Indian land open dump inventory for all regions

Agency Version Date: 09/21/2020
Agency Update Frequency: Varies
Planned Next Contact: 12/18/2020
Agency: Indian Health Service
Agency Contact: 301-443-3593
Most Recent Contact: 09/21/2020

SWRCY - WI: Recycling Facilities

Agency Version Date: 02/16/2020
Agency Update Frequency: Varies
Planned Next Contact: 10/20/2020
Agency: Solid and Hazardous Waste Education Center
Agency Contact: N/R
Most Recent Contact: 07/24/2020

LOCAL LAND RECORDS

LIENS 2: Comprehensive Environmental Response Compensation and Liability Act sites with liens

Agency Version Date: 05/11/2017
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 01/05/2021
Agency: U.S. Environmental Protection Agency
Agency Contact: 800-424-9346
Most Recent Contact: 10/09/2020

LIENS - WI: Listing of property locations with environmental liens

Agency Version Date: 09/29/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 12/25/2020
Agency: Department of Environmental Quality
Agency Contact: (225) 219-3168
Most Recent Contact: 09/29/2020

OTHER ASCERTAINABLE RECORDS

AFS: Air Facility Systems Quarterly Extract

Agency Version Date: 03/20/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 11/20/2020
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 08/25/2020

ALT FUELING: Alternative Fueling Stations by fuel type.

Agency Version Date: 07/21/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 10/19/2020
Agency: U.S. Department of Energy
Agency Contact: N/R
Most Recent Contact: 07/21/2020

AST PBS: Bulk petroleum terminals with a total bulk storage capacity of 50,000 barrels or more.

Agency Version Date: 06/18/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 12/11/2020
Agency: Department of Homeland Security
Agency Contact: 202-853-5361
Most Recent Contact: 09/14/2020

BRS: Reporting of hazardous waste generation and management from large quantity generators

Agency Version Date: 07/21/2020
Agency Update Frequency: Biennial
Planned Next Contact: 10/19/2020
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 07/23/2020

CDC HAZDAT: The Agency for Toxic Substances and Disease Registry's Hazardous Substance Release/Health Effects Database.

Agency Version Date: 03/16/2020
Agency Update Frequency: Varies
Planned Next Contact: 11/17/2020
Agency: Agency for Toxic Substances and Disease Registry
Agency Contact: 770-488-6399
Most Recent Contact: 08/21/2020

OTHER ASCERTAINABLE RECORDS (cont.)

COAL ASH DOE: List of existing and planned generators with 1 megawatt or greater of combined capacity that are utilizing coal ash impoundments.

Agency Version Date: 07/14/2020
Agency Update Frequency: Varies
Planned Next Contact: 01/08/2021
Agency: Department of Energy
Agency Contact: (202) 586-8800
Most Recent Contact: 10/12/2020

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

Agency Version Date: 07/31/2014
Agency Update Frequency: Varies
Planned Next Contact: 11/23/2020
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 08/27/2020

COAL GAS: Manufactured Gas Plant locations

Agency Version Date: 02/06/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 10/26/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 07/30/2020

CONSENT (DECREES): Legal decisions regarding responsibility for Superfund locations

Agency Version Date: 03/16/2020
Agency Update Frequency: Varies
Planned Next Contact: 11/13/2020
Agency: Environmental Protection Agency
Agency Contact: (800) 424-9346
Most Recent Contact: 08/18/2020

CORRECTIVE ACTIONS_2020: In 2009 the EPA created the 2020 Corrective Action Baseline list of contaminated or potentially contaminated sites with a cleanup goal to complete 95% by the year 2020. The names on the list indicate the facility owners who may or may not have caused the contamination.

Agency Version Date: 12/21/2018
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 11/10/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: N/R
Most Recent Contact: 08/14/2020

DEBRIS R5 LF: US EPA Region 5 Disaster Debris Recovery Database is a list of public facilities for disaster construction and demolition materials, electronics, household hazardous waste, metals, tires, and vehicles in EPA Region 5.

Agency Version Date: 02/28/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 10/30/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 08/04/2020

DEBRIS R5 SWRCY: US EPA Region 5 Disaster Debris Recovery Database is a list of public facilities for disaster construction and demolition materials, electronics, household hazardous waste, metals, tires, and vehicles in EPA Region 5.

Agency Version Date: 02/28/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 10/30/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 08/04/2020

DOD: Department of Defense sites

Agency Version Date: 05/25/2020
Agency Update Frequency: Varies
Planned Next Contact: 11/17/2020
Agency: Environmental Protection Agency
Agency Contact: (800) 424-9346
Most Recent Contact: 08/21/2020

DOT OPS: Incident Data Report

Agency Version Date: 01/20/2020
Agency Update Frequency: Varies
Planned Next Contact: 11/30/2020
Agency: U.S. Department of Transportation
Agency Contact: (202) 366-4996
Most Recent Contact: 09/02/2020

OTHER ASCERTAINABLE RECORDS (cont.)

ECHO: ECHO is EPA Enforcement and Compliance History Online website to search for facilities in your community to assess their compliance with environmental regulations related to CAA, CWA, RCRA, & SDWA.

Agency Version Date: 02/10/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 01/07/2021
Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-1667
Most Recent Contact: 10/13/2020

ENOI: The Electronic Notice of Intent (eNOI) database contains construction sites and industrial facilities that submit permit requests to EPA for Construction General Permits (CGP) and Multi-Sector General Permits (MSGP).

Agency Version Date: 11/15/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 12/22/2020
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 09/25/2020

EPA FUELS: List of companies and facilities registered to participate in EPA Fuel Programs under Title 40 CFR Part 80.

Agency Version Date: 08/26/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 11/23/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: (202) 564-2307
Most Recent Contact: 08/26/2020

EPA OSC: Listing of oil spills and hazardous substance release sites requiring EPA On-Site Coordinators.

Agency Version Date: 02/05/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 01/05/2021
Agency: U.S. Environmental Protection Agency
Agency Contact: (202) 564-2307
Most Recent Contact: 10/09/2020

EPA WATCH: The EPA Watch List was used to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. EPA maintained the lists from 2011 - 2013.

Agency Version Date: 02/09/2018
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 01/05/2021
Agency: U.S. Environmental Protection Agency
Agency Contact: (202) 564-2307
Most Recent Contact: 10/09/2020

FA HWF: Hazardous Waste Facilities with Financial Assurance

Agency Version Date: 02/25/2020
Agency Update Frequency: Varies
Planned Next Contact: 10/26/2020
Agency: Environmental Protection Agency
Agency Contact: (800) 424-9346
Most Recent Contact: 07/30/2020

FEDLAND: Federal land locations

Agency Version Date: 01/06/2020
Agency Update Frequency: Varies
Planned Next Contact: 11/13/2020
Agency: Environmental Protection Agency
Agency Contact: (800) 424-9346
Most Recent Contact: 08/18/2020

FRS: Facility Registry Systems

Agency Version Date: 06/04/2020
Agency Update Frequency: Varies
Planned Next Contact: 11/27/2020
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 08/31/2020

FTTS: Tracking of administrative and enforcement activities related to FIFRA/TSCA

Agency Version Date: 04/16/2013
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 10/26/2020
Agency: Environmental Protection Agency
Agency Contact: (202) 564-2280
Most Recent Contact: 07/30/2020

OTHER ASCERTAINABLE RECORDS (cont.)

FTTS INSP: Tracking of inspections related to FIFRA/TSCA

Agency Version Date: 05/08/2017
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 10/20/2020
Agency: Environmental Protection Agency
Agency Contact: (202) 564-2280
Most Recent Contact: 07/24/2020

FUDS: Defense sites that require cleanup

Agency Version Date: 06/01/2020
Agency Update Frequency: Varies
Planned Next Contact: 11/23/2020
Agency: US Army Corps of Engineering
Agency Contact: (202) 761-0011
Most Recent Contact: 08/27/2020

HIST AFS: List of Air Facility Systems Quarterly Extract that are no longer in current agency list.

Agency Version Date: 06/14/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 01/05/2021
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 10/09/2020

HIST AFS 2: List of Air Facility Systems Quarterly Extract that are no longer in current agency list.

Agency Version Date: 11/26/2018
Agency Update Frequency: Quarterly
Planned Next Contact: 11/10/2020
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 08/14/2020

HIST DOD: Department of Defense historical sites

Agency Version Date: 08/17/2018
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 11/17/2020
Agency: Environmental Protection Agency
Agency Contact: (800) 424-9346
Most Recent Contact: 08/21/2020

HIST LEAD_SMELTER: List of former lead smelter sites that is no longer in current agency list.

Agency Version Date: 12/12/2018
Agency Update Frequency: Annually
Planned Next Contact: 10/26/2020
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 07/30/2020

HIST MLTS: List of sites in possession/use of radioactive materials regulated by NRC that is no longer in current agency list.

Agency Version Date: 07/13/2016
Agency Update Frequency: Annually
Planned Next Contact: 11/06/2020
Agency: Nuclear Regulatory Commission
Agency Contact: (800) 397-4209
Most Recent Contact: 08/11/2020

HIST PCB TRANS: List of PCB Disposal Facilities that are no longer in current agency list.

Agency Version Date: 01/18/2018
Agency Update Frequency: No Update
Planned Next Contact: 11/24/2020
Agency: Environmental Protection Agency
Agency Contact: (703) 308-8404
Most Recent Contact: 08/28/2020

HIST PCS ENF: List of permitted facilities to discharge wastewater (Federal equivalent to NPDES) that are no longer in current agency list.

Agency Version Date: 12/08/2018
Agency Update Frequency: Annually
Planned Next Contact: 12/11/2020
Agency: Environmental Protection Agency
Agency Contact: (202) 564-6582
Most Recent Contact: 09/14/2020

OTHER ASCERTAINABLE RECORDS (cont.)

HIST PCS FACILITY: List of Permitted facilities to discharge wastewater (Federal equivalent to NPDES) that are no longer in current agency list.

Agency Version Date: 12/18/2018
Agency Update Frequency: Annually
Planned Next Contact: 12/15/2020
Agency: Environmental Protection Agency
Agency Contact: (202) 564-6582
Most Recent Contact: 09/18/2020

HIST SSTS: List of tracking of facilities who produce pesticides and their quantity that are no longer in current agency list.

Agency Version Date: 02/13/2019
Agency Update Frequency: Annually
Planned Next Contact: 11/27/2020
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 09/01/2020

HWC DOCKET: Listing of Federal facilities which are managing or have managed hazardous waste; or have had a release of hazardous waste.

Agency Version Date: 10/28/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 11/20/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: (202) 564-2307
Most Recent Contact: 08/25/2020

ICIS: Comprised of all Federal Administrative and Judicial enforcement information [intended to replace PCS] by tracking enforcement and compliance information (also contains what used to be known as FFTS)

Agency Version Date: 07/20/2020
Agency Update Frequency: Varies
Planned Next Contact: 10/16/2020
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 07/20/2020

INACTIVE PCS: Inactive Permitted facilities to discharge wastewater

Agency Version Date: 02/11/2020
Agency Update Frequency: Varies
Planned Next Contact: 10/16/2020
Agency: Environmental Protection Agency
Agency Contact: (202) 564-6582
Most Recent Contact: 07/20/2020

INDIAN RESERVATION: Indian Reservation sites

Agency Version Date: 02/25/2020
Agency Update Frequency: Varies
Planned Next Contact: 10/26/2020
Agency: Environmental Protection Agency
Agency Contact: (800) 424-9346
Most Recent Contact: 07/30/2020

LUCIS: Land Use Control Information Systems

Agency Version Date: 07/24/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 01/08/2021
Agency: Department of the Navy: BRAC PMO
Agency Contact: (619) 532-0900
Most Recent Contact: 10/12/2020

LUCIS 2: Land Use Control Information Systems

Agency Version Date: 01/17/2018
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 11/24/2020
Agency: Department of the Navy: BRAC PMO
Agency Contact: (619) 532-0900
Most Recent Contact: 08/28/2020

MINES: Mines Master Index Files

Agency Version Date: 02/12/2020
Agency Update Frequency: Varies
Planned Next Contact: 10/16/2020
Agency: Department of Labor
Agency Contact: (202) 693-9400
Most Recent Contact: 07/21/2020

OTHER ASCERTAINABLE RECORDS (cont.)

MINES USGS: Listing of all active mines and mineral plants in 2003

Agency Version Date: 09/08/2020
Agency Update Frequency: Varies
Planned Next Contact: 10/20/2020
Agency: USGS Mineral Resources Program
Agency Contact: (703) 648-5953
Most Recent Contact: 07/24/2020

MLTS: Sites in possession/use of radioactive materials regulated by NRC

Agency Version Date: 05/19/2020
Agency Update Frequency: Varies
Planned Next Contact: 11/10/2020
Agency: Nuclear Regulatory Commission
Agency Contact: (800) 397-4209
Most Recent Contact: 08/14/2020

NPL AOC: Areas of Concern related to NPL remediation sites

Agency Version Date: 05/25/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 11/17/2020
Agency: Environmental Protection Agency
Agency Contact: N/R
Most Recent Contact: 08/21/2020

NPL LIENS: National Priority List of sites with Liens

Agency Version Date: 05/22/2020
Agency Update Frequency: Varies
Planned Next Contact: 11/17/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 08/21/2020

OSHA: OSHA's listing of inspections violations and fatality information

Agency Version Date: 02/11/2020
Agency Update Frequency: Varies
Planned Next Contact: 10/16/2020
Agency: Occupational Safety & Health Administration
Agency Contact: 800-321-6742
Most Recent Contact: 07/20/2020

PADS: Listing of generators transporters commercial store/ brokers and disposers of PCB

Agency Version Date: 03/13/2020
Agency Update Frequency: Varies
Planned Next Contact: 11/16/2020
Agency: Environmental Protection Agency
Agency Contact: (703) 308-8404
Most Recent Contact: 08/19/2020

PCB TRANSFORMER: Disposal and Storage of Polychlorinated Biphenyl (PCB) Waste

Agency Version Date: 08/31/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 11/27/2020
Agency: Environmental Protection Agency
Agency Contact: (703) 308-8404
Most Recent Contact: 08/31/2020

PCS ENF: Permitted facilities to discharge wastewater (Federal equivalent to NPDES)

Agency Version Date: 02/11/2020
Agency Update Frequency: Varies
Planned Next Contact: 10/16/2020
Agency: Environmental Protection Agency
Agency Contact: (202) 564-6582
Most Recent Contact: 07/20/2020

PCS FACILITY: Permitted facilities to discharge wastewater (Federal equivalent to NPDES)

Agency Version Date: 02/11/2020
Agency Update Frequency: Varies
Planned Next Contact: 10/16/2020
Agency: Environmental Protection Agency
Agency Contact: (202) 564-6582
Most Recent Contact: 07/20/2020

RAATS: Listing of major violators with enforcement actions issued under RCRA. Includes administrative and civil actions filed by the EPA. This dataset is no longer maintained.

Agency Version Date: 09/23/2019
Agency Update Frequency: Varies
Planned Next Contact: 11/10/2020
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 08/14/2020

OTHER ASCERTAINABLE RECORDS (cont.)

RADINFO: EPA regulated facilities with radiation and radioactive materials

Agency Version Date: 08/01/2019
Agency Update Frequency: Varies
Planned Next Contact: 10/30/2020
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 08/03/2020

RMP: Facilities producing/handling/ process/ distribute/ store specific chemicals report plans required by the Clean Air Act

Agency Version Date: 03/17/2020
Agency Update Frequency: Monthly
Planned Next Contact: 10/23/2020
Agency: Environmental Protection Agency
Agency Contact: (202) 564-2534
Most Recent Contact: 07/27/2020

ROD: Permanent remedy at an NPL site

Agency Version Date: 05/25/2020
Agency Update Frequency: Varies
Planned Next Contact: 11/17/2020
Agency: Environmental Protection Agency
Agency Contact: (800) 424-9346
Most Recent Contact: 08/21/2020

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners

Agency Version Date: 06/24/2020
Agency Update Frequency: No Update
Planned Next Contact: 12/18/2020
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 09/21/2020

SEMS_SMELTER: This report includes sites that have smelting-related, or potentially smelting-related, indicators in the SEMS database. The report includes information on the site location as well as contaminants of concern.

Agency Version Date: 05/22/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 11/17/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 08/21/2020

SSTS: Tracking of facilities who produce pesticides and their quantity

Agency Version Date: 01/29/2020
Agency Update Frequency: Annually
Planned Next Contact: 12/25/2020
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 09/28/2020

STORMWATER: Permitted storm water sites

Agency Version Date: 07/20/2020
Agency Update Frequency: Varies
Planned Next Contact: 10/16/2020
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 07/20/2020

TOSCA-PLANT: Plants controlled by the Toxic Substance Control Act

Agency Version Date: 07/06/2020
Agency Update Frequency: Varies
Planned Next Contact: 12/28/2020
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 10/01/2020

TRIS: Information regarding toxic chemicals that are being used/manufactured/ treated/ transported/released into the environment

Agency Version Date: 07/17/2020
Agency Update Frequency: Varies
Planned Next Contact: 10/14/2020
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 07/17/2020

OTHER ASCERTAINABLE RECORDS (cont.)

UMTRA: Uranium Recovery Sites

Agency Version Date: 07/18/2019
Agency Update Frequency: Varies
Planned Next Contact: 10/19/2020
Agency: United States Nuclear Regulatory Commission
Agency Contact: (301) 415-8200
Most Recent Contact: 07/22/2020

VAPOR: EPA Vapor Intrusion Database

Agency Version Date: 09/23/2020
Agency Update Frequency: Varies
Planned Next Contact: 12/21/2020
Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 09/23/2020

AIRS - WI: Title V Permits

Agency Version Date: 01/24/2020
Agency Update Frequency: Varies
Planned Next Contact: 12/22/2020
Agency: Department of Natural Resources
Agency Contact: (715) 623-4190
Most Recent Contact: 09/25/2020

BEAP - WI: Locations determined to be a Brownfield

Agency Version Date: 03/04/2020
Agency Update Frequency: Varies
Planned Next Contact: 11/16/2020
Agency: Department of Natural Resources
Agency Contact: (715) 623-4190
Most Recent Contact: 08/20/2020

BRRTS - WI: Tracking system designed to follow contaminated locations

Agency Version Date: 03/04/2020
Agency Update Frequency: Varies
Planned Next Contact: 11/16/2020
Agency: Department of Natural Resources
Agency Contact: (715) 623-4190
Most Recent Contact: 08/20/2020

CRS - WI: A remediation site that has had its location closed

Agency Version Date: 03/04/2020
Agency Update Frequency: Varies
Planned Next Contact: 11/16/2020
Agency: Department of Natural Resources
Agency Contact: (715) 623-4190
Most Recent Contact: 08/20/2020

DAYCARE - WI: WI Child Care centers

Agency Version Date: 01/14/2020
Agency Update Frequency: Varies
Planned Next Contact: 11/23/2020
Agency: Wisconsin Department of Children and Families
Agency Contact: (608) 266-9314
Most Recent Contact: 08/27/2020

DRYCLEANERS - WI: Five Star Recognition Program Sites for drycleaners

Agency Version Date: 07/06/2020
Agency Update Frequency: Varies
Planned Next Contact: 12/28/2020
Agency: Department of Natural Resources
Agency Contact: (715) 623-4190
Most Recent Contact: 10/01/2020

ERP - WI: Sites with contaminated soil/water

Agency Version Date: 03/04/2020
Agency Update Frequency: Varies
Planned Next Contact: 11/16/2020
Agency: Department of Natural Resources
Agency Contact: (715) 623-4190
Most Recent Contact: 08/20/2020

FA 1 - WI: FA for Hazardous Waste Facilities

Agency Version Date: 02/20/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 11/10/2020
Agency: Department of Natural Resources
Agency Contact: 608-267-2768
Most Recent Contact: 08/14/2020

OTHER ASCERTAINABLE RECORDS (cont.)

FA 2 - WI: Solid Waste Facililties Financial Assurance Listing

Agency Version Date: 02/20/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 11/10/2020
Agency: Department of Natural Resources
Agency Contact: 608-267-2768
Most Recent Contact: 08/14/2020

HIST BRRTS - WI: List of Tracking system designed to follow contaminated locations that are no longer in current agency list.

Agency Version Date: 11/01/2018
Agency Update Frequency: Annually
Planned Next Contact: 11/06/2020
Agency: Department of Natural Resources
Agency Contact: (715) 623-4190
Most Recent Contact: 08/10/2020

HIST CRS - WI: List of remediation site that has had its location closed and is no longer in current agency list.

Agency Version Date: 11/01/2018
Agency Update Frequency: Annually
Planned Next Contact: 11/06/2020
Agency: Department of Natural Resources
Agency Contact: (715) 623-4190
Most Recent Contact: 08/10/2020

HIST DRYCLEANERS - WI: List of Five Star Recognition Program Sites for drycleaners that is no longer in current agency list.

Agency Version Date: 12/06/2018
Agency Update Frequency: Annually
Planned Next Contact: 12/01/2020
Agency: Department of Natural Resources
Agency Contact: (715) 623-4190
Most Recent Contact: 09/04/2020

HIST ERP - WI: List of Sites with contaminated soil/water that are no longer in current agency list.

Agency Version Date: 11/01/2018
Agency Update Frequency: Annually
Planned Next Contact: 11/06/2020
Agency: Department of Natural Resources
Agency Contact: (715) 623-4190
Most Recent Contact: 08/10/2020

HIST FA 1 - WI: List of FA for Hazardous Waste Facilities that is no longer in current agency list.

Agency Version Date: 12/18/2018
Agency Update Frequency: Quarterly
Planned Next Contact: 11/03/2020
Agency: Department of Natural Resources
Agency Contact: 608-267-2768
Most Recent Contact: 08/07/2020

HIST FA 2 - WI: List of Solid Waste Facililties Financial Assurance that is no longer in current agency list.

Agency Version Date: 12/18/2018
Agency Update Frequency: Quarterly
Planned Next Contact: 11/03/2020
Agency: Department of Natural Resources
Agency Contact: 608-267-2768
Most Recent Contact: 08/07/2020

HIST LEAD - WI: List of sites known to have had lead contamination that is no longer in current agency list.

Agency Version Date: 11/01/2018
Agency Update Frequency: Annually
Planned Next Contact: 11/06/2020
Agency: Department of Natural Resources
Agency Contact: (715) 623-4190
Most Recent Contact: 08/10/2020

HIST WRR - WI: List of information regarding potentially dangerous properties that are no longer in agency list.

Agency Version Date: 11/01/2018
Agency Update Frequency: Annually
Planned Next Contact: 11/06/2020
Agency: Department of Natural Resources
Agency Contact: (715) 623-4190
Most Recent Contact: 08/11/2020

LEAD - WI: Sites known to have had Lead Contamination

Agency Version Date: 03/04/2020
Agency Update Frequency: Varies
Planned Next Contact: 11/16/2020
Agency: Department of Natural Resources
Agency Contact: (715) 623-4190
Most Recent Contact: 08/20/2020

OTHER ASCERTAINABLE RECORDS (cont.)

MANIFEST - WI: Hazardous Waste Transporters

Agency Version Date: 08/26/2020
Agency Update Frequency: Varies
Planned Next Contact: 11/23/2020
Agency: Department of Natural Resources
Agency Contact: (608) 266-2111
Most Recent Contact: 08/26/2020

NPDES - WI: Listing of facilities with wastewater and NPDES permits

Agency Version Date: 08/26/2020
Agency Update Frequency: Quarterly
Planned Next Contact: 11/23/2020
Agency: Department of Natural Resources
Agency Contact: (608) 266-2104
Most Recent Contact: 08/26/2020

T 2 - WI: Tier II facilities who must submit a hazardous chemical inventory report

Agency Version Date: 01/21/2020
Agency Update Frequency: Varies
Planned Next Contact: 01/05/2021
Agency: Department of Waste Management
Agency Contact: (608) 242-3225
Most Recent Contact: 10/09/2020

WDS - WI: The Registry of Waste Disposal Sites contains public information about old waste disposal facilities. The WDS Registry was replaced with the SHWIMS database. The last update of the WDS Registry was July 2013.

Agency Version Date: 06/11/2018
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 11/06/2020
Agency: Department of Natural Resources
Agency Contact: (715) 623-4190
Most Recent Contact: 08/10/2020

WRR - WI: Information regarding potentially dangerous properties

Agency Version Date: 03/04/2020
Agency Update Frequency: Varies
Planned Next Contact: 11/16/2020
Agency: Department of Natural Resources
Agency Contact: (715) 623-4190
Most Recent Contact: 08/20/2020

WRR NAR - WI: List of sites from WRR database that are cataloged as "No Action Required"

Agency Version Date: 03/04/2020
Agency Update Frequency: Varies
Planned Next Contact: 11/16/2020
Agency: Department of Natural Resources
Agency Contact: (715) 623-4190
Most Recent Contact: 08/20/2020

SUBJECT PROPERTY ADDRESS:

USH 12
Cox Rd to STH 20/67
NA, WI

SUBJECT PROPERTY COORDINATES:

Latitude(North):	42.806662 - 42°48'24"
Longitude(West):	-88.627853 - -88°37'40.3"
Universal Transverse Mercator:	Zone 16N
UTM X (Meters):	366899.75
UTM Y (Meters):	4740630.30

ELEVATION:

Elevation:	985.010 ft. above sea level

USGS TOPOGRAPHIC MAP:

Subject Property Map:	42088-G5 Little Prairie, WI
Most Recent Revision:	2018
Subject Property Map:	42088-G6 Whitewater, WI
Most Recent Revision:	2018

GEOHYDROLOGY DATA:

SUBJECT PROPERTY TOPOGRAPHY:

Topographic Gradient: North

DFIRM FLOOD ZONE:

	DFIRM Flood
Subject Property County:	Electronic Data:
WALWORTH COUNTY	Yes - refer to the PROPERTY PROXIMITY MAP and AREA MAP
Flood Plain Panel at Subject Property:	55127C
Additional Panels in search area:	No available data

FEMA FLOOD ZONE:

	FEMA Flood
Subject Property County:	Electronic Data:
WALWORTH COUNTY	No available data.
Flood Plain Panel at Subject Property:	No available data
Additional Panels in search area:	No available data

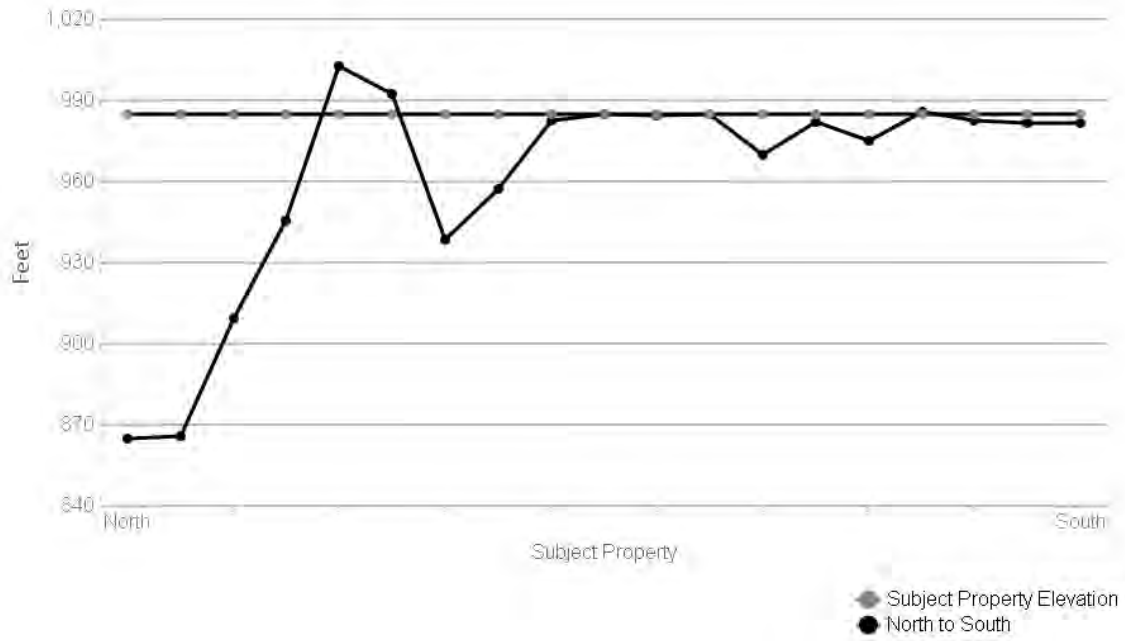
NATIONAL WETLAND INVENTORY:

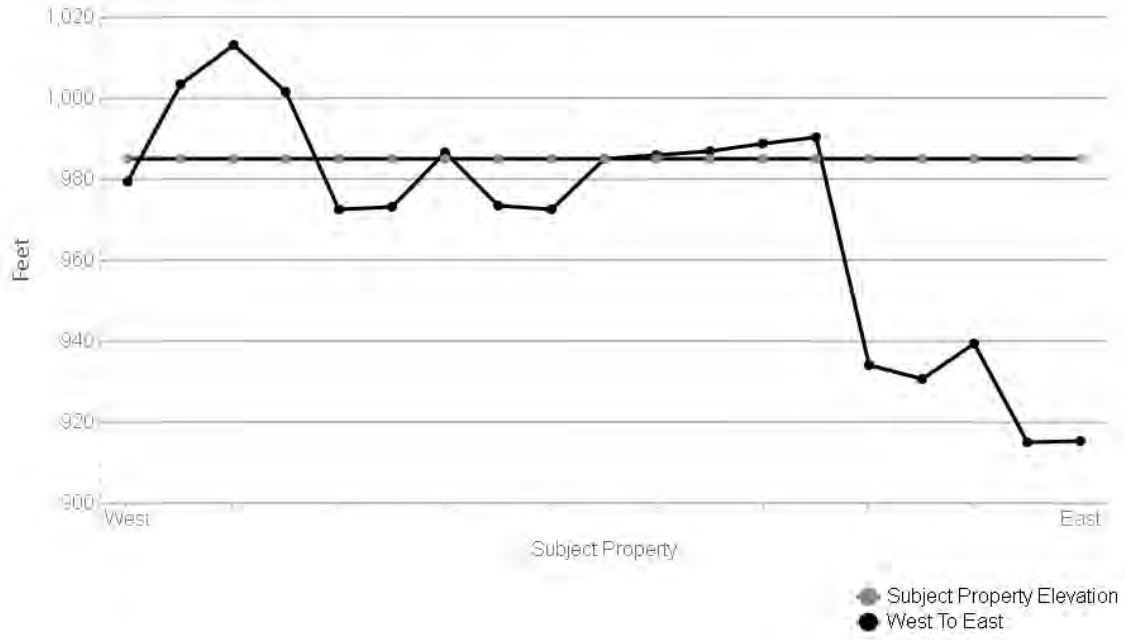
	NWI Electronic
NWI Quad at Subject Property:	Data Coverage:
Little Prairie	Yes - refer to the Geological Findings Map

LITHOSTRATIGRAPHIC INFORMATION:

ROCK STRATIGRAPHIC UNIT:		GEOLOGIC AGE IDENTIFICATION
Era:	Paleozoic	Category: 125 O2 Middle Ordovician (Mohawkian)
System:	Ordovician	
Series:	Middle Ordovician (Mohawkian)	
Code:	O2	

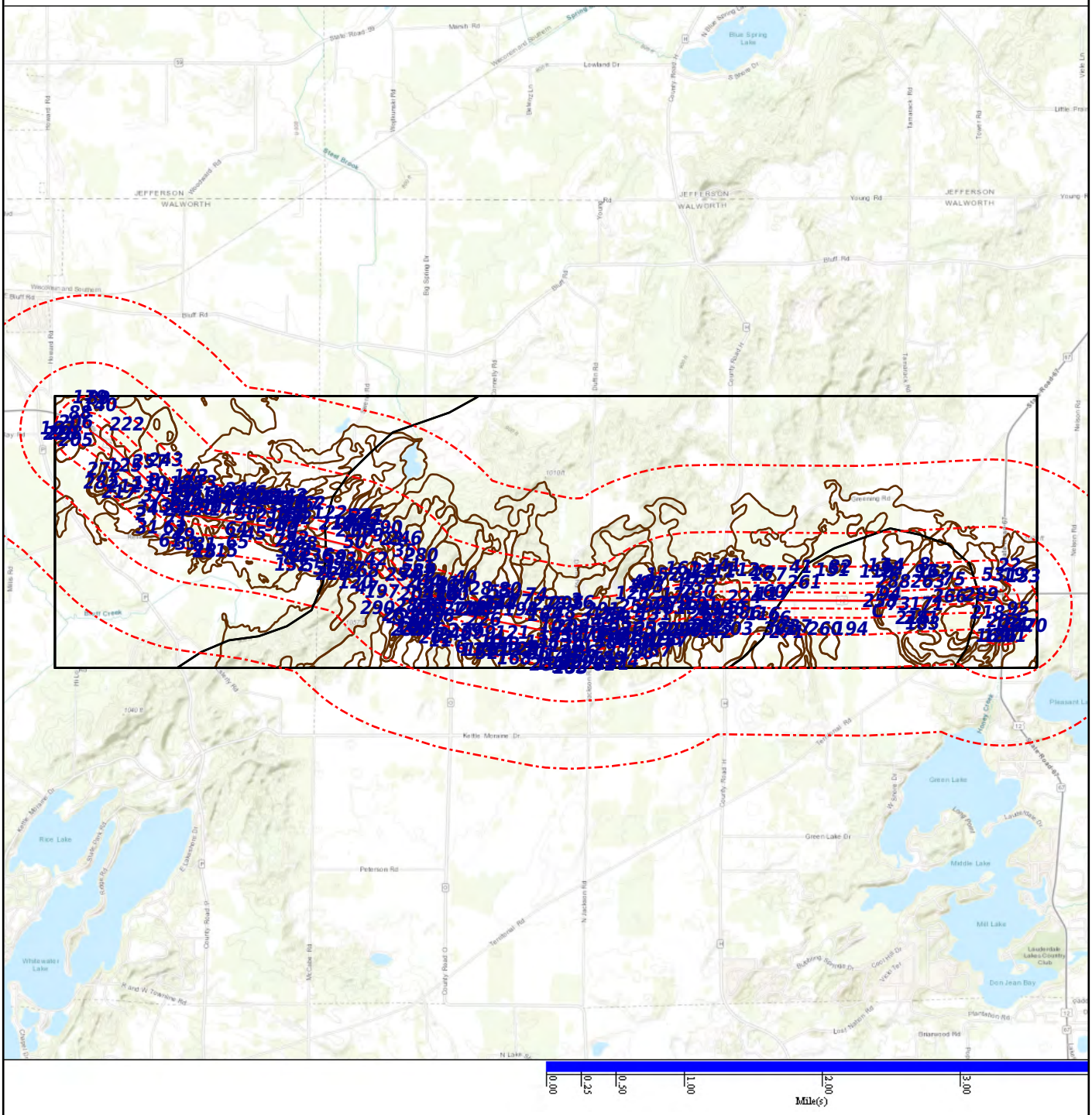
SURROUNDING ELEVATION PROFILES:





SUBJECT NAME: USH 12
ADDRESS: Cox Rd to STH 20/67, NA, WI
LAT/LONG: 42.806662 / -88.627853

PREPARED FOR: Historical Information Gatherers
ORDER #: 46219
REPORT DATE: October 14, 2020



SOIL COMPOSITION IN GENERAL AREA OF SUBJECT PROPERTY:

Agency source: Soil Conservation Service, US Department of Agriculture

SOIL MAP ID 1

USDA Soil Name	Marsh,Miscellaneous area
USDA Soil Texture	Not Reported
Hydrologic Soil Group	Not Reported
Soil Drainage Class	Very poorly drained
Hydric Classification	100
Corrosion Potential - Uncoated Steel	Not Reported

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10		No data	No data	0-0	0-0

SOIL MAP ID 2

USDA Soil Name	Palms,Series
USDA Soil Texture	Not Reported
Hydrologic Soil Group	B/D
Soil Drainage Class	Very poorly drained
Hydric Classification	100
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Highly organic soils, Peat. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-42.34	0-0
2	13-30		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Highly organic soils, Peat. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and	1.41-42.34	0-0

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	13-30		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-42.34	0-0
3	30-79	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-14	7-8

SOIL MAP ID 3

USDA Soil Name	St. Charles,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-12	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	6.1-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-12	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	6.1-7.3
2	12-49	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	49-57	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	5.6-7.8
4	57-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	20-141.14	5.6-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	57-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	20-141.14	5.6-8.4

SOIL MAP ID 4

USDA Soil Name	Rodman,Series
USDA Soil Texture	Sandy loam
Hydrologic Soil Group	A
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-4	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	6.6-7.8
2	4-10	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	14.11-42.34	6.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	4-10	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	14.11-42.34	6.6-7.8
3	10-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Gravels, clean gravels, Poorly Graded Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.14-705	7.4-8.4

SOIL MAP ID 5

USDA Soil Name	Sebewa,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Poorly drained
Hydric Classification	96
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-11	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	4-14	6.1-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-11	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	6.1-7.8
2	11-27	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	6.1-7.8
3	27-79	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.1-423	7.4-8.4

SOIL MAP ID 6

USDA Soil Name	Lorenzo,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.3
2	9-19	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	5.6-7.3
3	19-60	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42-141	7.4-8.4

SOIL MAP ID 7

USDA Soil Name	Juneau,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
2	9-28	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
3	28-42	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4-14	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	28-42	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4-14	5.6-7.8
4	42-60	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8

SOIL MAP ID 8

USDA Soil Name	Plano,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	6.1-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.1-7.3
2	9-41	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	41-46	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	6.1-7.8
4	46-79	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	6.6-8.4

SOIL MAP ID 9

USDA Soil Name	Boyer,Series
USDA Soil Texture	Loamy sand
Hydrologic Soil Group	A
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-7	Loamy sand	No data	No data	42-141	5.6-7.3
2	7-26	Sandy loam	No data	No data	14-42	5.6-7.8
3	26-60	Sand	No data	No data	141-141	7.4-8.4

SOIL MAP ID 10

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	5-15	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for	4.23-14.11	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	5-15	Clay loam	and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
3	15-79		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.1-423	7.4-8.4

SOIL MAP ID 11

USDA Soil Name	Rodman,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	A
Soil Drainage Class	Excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Loam	No data	No data	14-42	6.6-7.8
2	6-11	Loam	No data	No data	14-42	6.6-7.8
3	11-60	Sand	No data	No data	141-141	7.4-8.4

SOIL MAP ID 12

USDA Soil Name	Juneau,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
2	9-28	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
3	28-42	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4-14	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	28-42	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4-14	5.6-7.8
4	42-60	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8

SOIL MAP ID 13

USDA Soil Name	Lorenzo,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Loam	No data	No data	4-14	5.6-7.3
2	9-19	Clay loam	No data	No data	14-42	5.6-7.3
3	19-60	Coarse sand	No data	No data	42-141	7.4-8.4

SOIL MAP ID 14

USDA Soil Name	Juneau,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
2	9-28	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
3	28-42	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4-14	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	28-42	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4-14	5.6-7.8
4	42-60	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8

SOIL MAP ID 15

USDA Soil Name	Saylesville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-12	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4-14	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-12	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
2	12-29	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-4	6.6-7.8
3	29-60	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-4	7.4-8.4

SOIL MAP ID 16

USDA Soil Name	Lorenzo,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.3
2	9-19	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	5.6-7.3
3	19-60	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42-141	7.4-8.4

SOIL MAP ID 17

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	5-17	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
3	17-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	141.1-423	7.4-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	17-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	141.1-423	7.4-8.4

SOIL MAP ID 18

USDA Soil Name	Martinton,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.3
2	15-33	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	1-4	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	15-33	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-4	5.6-7.8
3	33-60	Sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-4	7.4-8.4

SOIL MAP ID 19

USDA Soil Name	Warsaw,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	4.23-14.11	5.6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	13-30	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-6.5
3	30-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.14-705	7.9-8.4

SOIL MAP ID 20

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	5-15	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
3	15-79		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.1-423	7.4-8.4

SOIL MAP ID 21

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Loam	No data	No data	4-14	5.6-7.3
2	6-18	Clay loam	No data	No data	4-14	5.6-7.8
3	18-60	Sand	No data	No data	141-141	7.4-8.4

SOIL MAP ID 22

USDA Soil Name	Miami,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	6.1-7.8
2	10-36	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent	4-14	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	10-36	Clay loam	M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
3	36-60	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	7.4-8.4

SOIL MAP ID 23

USDA Soil Name	Hennepin,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Loam	No data	No data	4-14	6.1-7.8
2	6-11	Loam	No data	No data	1-4	6.1-8.4
3	11-60	Loam	No data	No data	1-4	7.4-8.4

SOIL MAP ID 24

USDA Soil Name	Warsaw,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	13-30	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-6.5
3	30-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.14-705	7.9-8.4

SOIL MAP ID 25

USDA Soil Name	Saylesville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-12	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
2	12-29	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-4	6.6-7.8
3	29-60	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	1-4	7.4-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	29-60	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	1-4	7.4-8.4

SOIL MAP ID 26

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Loam	No data	No data	4-14	5.6-7.3
2	6-18	Clay loam	No data	No data	4-14	5.6-7.8
3	18-60	Sand	No data	No data	141-141	7.4-8.4

SOIL MAP ID 27

USDA Soil Name	Miami,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	6.1-7.8
2	10-36	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
3	36-60	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	7.4-8.4

SOIL MAP ID 28

USDA Soil Name	Rodman,Series
USDA Soil Texture	Sandy loam
Hydrologic Soil Group	A
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-4	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	6.6-7.8
2	4-10	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	6.6-7.8
3	10-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Gravels, clean gravels, Poorly Graded Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.14-705	7.4-8.4

SOIL MAP ID 29

USDA Soil Name	Radford,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	10
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	6.6-7.3
2	9-23	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	6.6-7.3
3	23-36	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4-14	6.1-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	23-36	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4-14	6.1-6.5
4	36-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	3-14	6.6-7.8
5	56-79	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	7.4-7.8

SOIL MAP ID 30

USDA Soil Name	Sebewa,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Poorly drained
Hydric Classification	96
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-11	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	6.1-7.8
2	11-27	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	6.1-7.8
3	27-79	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.1-423	7.4-8.4

SOIL MAP ID 31

USDA Soil Name	Houghton,Series
USDA Soil Texture	Not Reported
Hydrologic Soil Group	A/D
Soil Drainage Class	Very poorly drained
Hydric Classification	100
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Highly organic soils, Peat. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-42	0-0
2	6-79		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Highly organic soils, Peat. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-42	0-0

SOIL MAP ID 32

USDA Soil Name	Boyer,Series
USDA Soil Texture	Loamy sand
Hydrologic Soil Group	A
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-7	Loamy sand	No data	No data	42-141	5.6-7.3
2	7-26	Sandy loam	No data	No data	14-42	5.6-7.8
3	26-60	Sand	No data	No data	141-141	7.4-8.4

SOIL MAP ID 33

USDA Soil Name	Martinton,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.3
2	15-33	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-4	5.6-7.8
3	33-60	Sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%),	1-4	7.4-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	33-60	Sandy loam	soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-4	7.4-8.4

SOIL MAP ID 34

USDA Soil Name	Water greater than 40 acres,Miscellaneous area
USDA Soil Texture	Not Reported
Hydrologic Soil Group	Not Reported
Soil Drainage Class	Not Reported
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Not Reported

SOIL MAP ID 35

USDA Soil Name	McHenry,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	4.23-14.11	5.6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	5-10	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
3	10-22	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
4	22-32	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	4.23-14.11	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	22-32	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
5	32-37	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.6-8.4
6	37-79	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	7.4-8.4

SOIL MAP ID 36

USDA Soil Name	Fox,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-7	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
2	7-21	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	21-31	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.023-14.11	5.1-8.4
4	31-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	42.34-141.14	7.4-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	31-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42.34-141.14	7.4-8.4

SOIL MAP ID 37

USDA Soil Name	Navan,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Poorly drained
Hydric Classification	100
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-7	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	6.1-8.4
2	7-25	Clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	1-4	6.6-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	7-25	Clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	1-4	6.6-8.4
3	25-60	Silty clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0-4	7.4-8.4

SOIL MAP ID 38

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	5.6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	5-17	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
3	17-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.1-423	7.4-8.4

SOIL MAP ID 39

USDA Soil Name	Hennepin,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Loam	No data	No data	4-14	6.1-7.8
2	6-11	Loam	No data	No data	1-4	6.1-8.4
3	11-60	Loam	No data	No data	1-4	7.4-8.4

SOIL MAP ID 40

USDA Soil Name	Fox,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-7	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
2	7-21	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	21-31	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand.	4.023-14.11	5.1-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	21-31	Sandy clay loam	soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.023-14.11	5.1-8.4
4	31-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42.34-141.14	7.4-8.4

SOIL MAP ID 41

USDA Soil Name	Warsaw,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	4.23-14.11	5.6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	13-30	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-6.5
3	30-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.14-705	7.9-8.4

SOIL MAP ID 42

USDA Soil Name	Dodge,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	6.6-7.3
2	6-9	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	6.1-6.5
3	9-29	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-4	5.6-6
4	29-40	Clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	1.4-4	6.6-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	29-40	Clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-4	6.6-8.4
5	40-79	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	7.4-8.4

SOIL MAP ID 43

USDA Soil Name	McHenry,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	4.23-14.11	5.6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	5-10	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
3	10-22	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
4	22-32	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	4.23-14.11	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	22-32	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
5	32-37	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.6-8.4
6	37-79	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	7.4-8.4

SOIL MAP ID 44

USDA Soil Name	Water greater than 40 acres,Miscellaneous area
USDA Soil Texture	Not Reported
Hydrologic Soil Group	Not Reported
Soil Drainage Class	Not Reported
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Not Reported

SOIL MAP ID 45

USDA Soil Name	Colwood,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Poorly drained
Hydric Classification	100
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.1-7.8
2	10-24	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	6.1-7.8
3	24-79	Silt	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	7.4-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	24-79	Silt	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	7.4-8.4

SOIL MAP ID 46

USDA Soil Name	Marsh,Miscellaneous area
USDA Soil Texture	Not Reported
Hydrologic Soil Group	Not Reported
Soil Drainage Class	Very poorly drained
Hydric Classification	100
Corrosion Potential - Uncoated Steel	Not Reported

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10		No data	No data	0-0	0-0

SOIL MAP ID 47

USDA Soil Name	Hennepin,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Loam	No data	No data	4-14	6.1-7.8
2	6-11	Loam	No data	No data	1-4	6.1-8.4
3	11-60	Loam	No data	No data	1-4	7.4-8.4

SOIL MAP ID 48

USDA Soil Name	Water greater than 40 acres,Miscellaneous area
USDA Soil Texture	Not Reported
Hydrologic Soil Group	Not Reported
Soil Drainage Class	Not Reported
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Not Reported

SOIL MAP ID 49

USDA Soil Name	Saylesville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-12	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
2	12-29	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for	1-4	6.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	12-29	Clay	of State Highway and Transportation Officials, 1984.	general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-4	6.6-7.8
3	29-60	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-4	7.4-8.4

SOIL MAP ID 50

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	4.23-14.11	5.6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	5-17	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
3	17-79		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.1-423	7.4-8.4

SOIL MAP ID 51

USDA Soil Name	Fox,Series
USDA Soil Texture	Sandy loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	10-28	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	6.1-6.5
3	28-33	Sandy clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.6-8.4
4	33-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM,	42.34-141.14	7.9-9

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	1984).	42.34-141.14	7.9-9

SOIL MAP ID 52

USDA Soil Name	Plano,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-16	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.1-7.3
2	16-46	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and	4.23-14.11	5.6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	16-46	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
3	46-57	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
4	57-79	Sand	Granular materials (35% or less passing No. 200), fine sand. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	20-141.14	7.4-8.4

SOIL MAP ID 53

USDA Soil Name	Griswold,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	9-24	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-14.11	6.6-7.3
3	24-27	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	7.4-7.8
4	27-79	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	4.23-42.34	7.9-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	27-79	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	7.9-8.4

SOIL MAP ID 54

USDA Soil Name	Miami,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	6.1-7.8
2	10-36	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	4-14	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	10-36	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
3	36-60	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	7.4-8.4

SOIL MAP ID 55

USDA Soil Name	Fox,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-7	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	4.23-14.11	5.1-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-7	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
2	7-21	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	21-31	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.023-14.11	5.1-8.4
4	31-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42.34-141.14	7.4-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	31-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM,	42.34-141.14	7.4-8.4

SOIL MAP ID 56

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	5-17	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	5-17	Clay loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
3	17-79		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.1-423	7.4-8.4

SOIL MAP ID 57

USDA Soil Name	Fox,Series
USDA Soil Texture	Sandy loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	10-28	Clay loam	Silt-Clay materials	FINE-GRAINED SOILS,	1.41-4.23	6.1-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	10-28	Clay loam	(more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	6.1-6.5
3	28-33	Sandy clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.6-8.4
4	33-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42.34-141.14	7.9-9

SOIL MAP ID 58

USDA Soil Name	Aztalan,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	10
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-12	Loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.6-7.8
2	12-27	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.6-7.8
3	27-79	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	1.41-4.23	6.6-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	27-79	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	1.41-4.23	6.6-8.4

SOIL MAP ID 59

USDA Soil Name	Boyer,Series
USDA Soil Texture	Sandy loam
Hydrologic Soil Group	A
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-7	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42-141	5.6-7.3
2	7-26	Sandy loam	No data	No data	14-42	5.6-7.8
3	26-60	Sand	No data	No data	141-141	7.4-8.4

SOIL MAP ID 60

USDA Soil Name	Hennepin,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Loam	No data	No data	4-14	6.1-7.8
2	6-11	Loam	No data	No data	1-4	6.1-8.4
3	11-60	Loam	No data	No data	1-4	7.4-8.4

SOIL MAP ID 61

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	5-17	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for	4.23-14.11	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	5-17	Clay loam	and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
3	17-79		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.1-423	7.4-8.4

SOIL MAP ID 62

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Loam	No data	No data	4-14	5.6-7.3
2	6-18	Clay loam	No data	No data	4-14	5.6-7.8
3	18-60	Sand	No data	No data	141-141	7.4-8.4

SOIL MAP ID 63

USDA Soil Name	Aztalan,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	10
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-12	Loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.6-7.8
2	12-27	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.6-7.8
3	27-79	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	1.41-4.23	6.6-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	27-79	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	1.41-4.23	6.6-8.4

SOIL MAP ID 64

USDA Soil Name	Hebron,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-11	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
2	11-24	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4-14	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	11-24	Loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
3	24-28	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-4	7.4-8.4
4	28-60	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-4	7.9-8.4

SOIL MAP ID 65

USDA Soil Name	Navan,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Poorly drained
Hydric Classification	100
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-7	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	6.1-8.4
2	7-25	Clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-4	6.6-8.4
3	25-60	Silty clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0-4	7.4-8.4

SOIL MAP ID 66

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	5-15	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
3	15-79		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	141.1-423	7.4-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	15-79		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	141.1-423	7.4-8.4

SOIL MAP ID 67

USDA Soil Name	Rodman,Series
USDA Soil Texture	Sandy loam
Hydrologic Soil Group	A
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-4	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	6.6-7.8
2	4-10	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	14.11-42.34	6.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	4-10	Sandy loam	Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	6.6-7.8
3	10-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Gravels, clean gravels, Poorly Graded Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.14-705	7.4-8.4

SOIL MAP ID 68

USDA Soil Name	Miami,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	4-14	6.1-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	6.1-7.8
2	10-36	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
3	36-60	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	7.4-8.4

SOIL MAP ID 69

USDA Soil Name	Warsaw,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	13-30	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-6.5
3	30-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.14-705	7.9-8.4

SOIL MAP ID 70

USDA Soil Name	Fox,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
2	6-21	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	21-31	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.023-14.11	5.1-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	21-31	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.023-14.11	5.1-8.4
4	31-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42.34-141.14	7.4-8.4

SOIL MAP ID 71

USDA Soil Name	Hebron,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-11	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	4-14	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-11	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
2	11-24	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
3	24-28	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-4	7.4-8.4
4	28-60	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	1-4	7.9-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	28-60	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	1-4	7.9-8.4

SOIL MAP ID 72

USDA Soil Name	Boyer,Series
USDA Soil Texture	Loamy sand
Hydrologic Soil Group	A
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-7	Loamy sand	No data	No data	42-141	5.6-7.3
2	7-26	Sandy loam	No data	No data	14-42	5.6-7.8
3	26-60	Sand	No data	No data	141-141	7.4-8.4

SOIL MAP ID 73

USDA Soil Name	Plano,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-11	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.1-7.3
2	11-41	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	41-46	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	6.1-7.8
4	46-79	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	4.23-42.34	6.6-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	46-79	Sandy loam	Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	6.6-8.4

SOIL MAP ID 74

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	5-17	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	4.23-14.11	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	5-17	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
3	17-79		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.1-423	7.4-8.4

SOIL MAP ID 75

USDA Soil Name	Plano,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	4.23-14.11	6.1-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.1-7.3
2	9-41	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	41-46	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	6.1-7.8
4	46-79	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	6.6-8.4

SOIL MAP ID 76

USDA Soil Name	Miami,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	6.1-7.8
2	10-36	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
3	36-60	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	7.4-8.4

SOIL MAP ID 77

USDA Soil Name	Water greater than 40 acres,Miscellaneous area
USDA Soil Texture	Not Reported
Hydrologic Soil Group	Not Reported
Soil Drainage Class	Not Reported
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Not Reported

SOIL MAP ID 78

USDA Soil Name	Mundelein,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	15
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-11	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	11-26	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
3	26-79	Silt loam	Silt-Clay materials	FINE-GRAINED SOILS,	1.41-14.11	6.1-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	26-79	Silt loam	(more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-14.11	6.1-8.4

SOIL MAP ID 79

USDA Soil Name	Rodman,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	A
Soil Drainage Class	Excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Loam	No data	No data	14-42	6.6-7.8
2	6-11	Loam	No data	No data	14-42	6.6-7.8
3	11-60	Sand	No data	No data	141-141	7.4-8.4

SOIL MAP ID 80

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	5-17	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
3	17-79		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.1-423	7.4-8.4

SOIL MAP ID 81

USDA Soil Name	Martinton,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.3
2	15-33	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-4	5.6-7.8
3	33-60	Sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	1-4	7.4-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	33-60	Sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	1-4	7.4-8.4

SOIL MAP ID 82

USDA Soil Name	Warsaw,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	13-30	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	5.1-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	13-30	Sandy clay loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-6.5
3	30-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.14-705	7.9-8.4

SOIL MAP ID 83

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Loam	No data	No data	4-14	5.6-7.3
2	6-18	Clay loam	No data	No data	4-14	5.6-7.8
3	18-60	Sand	No data	No data	141-141	7.4-8.4

SOIL MAP ID 84

USDA Soil Name	Boyer,Series
USDA Soil Texture	Loamy sand
Hydrologic Soil Group	A
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-7	Loamy sand	No data	No data	42-141	5.6-7.3
2	7-26	Sandy loam	No data	No data	14-42	5.6-7.8
3	26-60	Sand	No data	No data	141-141	7.4-8.4

SOIL MAP ID 85

USDA Soil Name	McHenry,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	5-10	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent	4.23-14.11	5.6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	5-10	Silt loam	M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
3	10-22	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
4	22-32	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
5	32-37	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.6-8.4
6	37-79	Sandy loam	Reference: This is a classification of soil material for highway	Reference: This is a classification of soil material designed for	14.11-42.34	7.4-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
6	37-79	Sandy loam	and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	7.4-8.4

SOIL MAP ID 86

USDA Soil Name	Fox,Series
USDA Soil Texture	Sandy loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	6-28	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM,	1.41-4.23	6.1-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	6-28	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	1984).	1.41-4.23	6.1-6.5
3	28-33	Sandy clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.6-8.4
4	33-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42.34-141.14	7.9-9

SOIL MAP ID 87

USDA Soil Name	Pits,Miscellaneous area
USDA Soil Texture	Not Reported
Hydrologic Soil Group	Not Reported
Soil Drainage Class	Not Reported
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Not Reported

SOIL MAP ID 88

USDA Soil Name	Navan,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Poorly drained
Hydric Classification	100
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-7	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	6.1-8.4
2	7-25	Clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-4	6.6-8.4
3	25-60	Silty clay	Reference: This is a classification of soil	FINE-GRAINED SOILS, Silts and clays (liquid	0-4	7.4-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	25-60	Silty clay	material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0-4	7.4-8.4

SOIL MAP ID 89

USDA Soil Name	Navan,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Poorly drained
Hydric Classification	100
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-7	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	6.1-8.4
2	7-25	Clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	1-4	6.6-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	7-25	Clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-4	6.6-8.4
3	25-60	Silty clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0-4	7.4-8.4

SOIL MAP ID 90

USDA Soil Name	Boyer,Series
USDA Soil Texture	Sandy loam
Hydrologic Soil Group	A
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-7	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42-141	5.6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	7-26	Sandy loam	No data	No data	14-42	5.6-7.8
3	26-60	Sand	No data	No data	141-141	7.4-8.4

SOIL MAP ID 91

USDA Soil Name	Rodman,Series
USDA Soil Texture	Sandy loam
Hydrologic Soil Group	A
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-4	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	6.6-7.8
2	4-10	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	6.6-7.8
3	10-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	COARSE-GRAINED SOILS, Gravels, clean gravels, Poorly Graded Gravel. Reference: This is a classification of soil material designed for general construction	141.14-705	7.4-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	10-79	Sand	Transportation Officials, 1984.	purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.14-705	7.4-8.4

SOIL MAP ID 92

USDA Soil Name	Plano,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	6.1-7.3
2	13-38	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	4-14	5.6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	13-38	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.3
3	38-49	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.3
4	49-60	Coarse sand	Granular materials (35% or less passing No. 200), fine sand. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141-141	7.4-8.4

SOIL MAP ID 93

USDA Soil Name	Griswold,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	6-29	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-14.11	6.6-7.3
3	29-79	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	7.9-8.4

SOIL MAP ID 94

USDA Soil Name	Griswold,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	6-29	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-14.11	6.6-7.3
3	29-79	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	7.9-8.4

SOIL MAP ID 95

USDA Soil Name	Miami,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	6.1-7.8
2	10-36	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
3	36-60	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	7.4-8.4

SOIL MAP ID 96

USDA Soil Name	Plano,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-14	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.1-7.3
2	14-46	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
3	46-57	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	5.6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	46-57	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
4	57-79	Sand	Granular materials (35% or less passing No. 200), fine sand. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	20-141.14	7.4-8.4

SOIL MAP ID 97

USDA Soil Name	Marsh,Miscellaneous area
USDA Soil Texture	Not Reported
Hydrologic Soil Group	Not Reported
Soil Drainage Class	Very poorly drained
Hydric Classification	100
Corrosion Potential - Uncoated Steel	Not Reported

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10		No data	No data	0-0	0-0

SOIL MAP ID 98

USDA Soil Name	Chelsea,Series
USDA Soil Texture	Fine sand
Hydrologic Soil Group	A
Soil Drainage Class	Excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Fine sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42-141	5.6-7.3
2	5-60	Fine sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42-141	5.1-6.5

SOIL MAP ID 99

USDA Soil Name	Fox,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-7	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.6-7.3
2	7-22	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	6.1-6.5
3	22-36	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.023-14.11	6.6-8.4
4	36-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	42.34-141.14	7.9-9

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	36-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42.34-141.14	7.9-9

SOIL MAP ID 100

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	5-17	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	4.23-14.11	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	5-17	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
3	17-79		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.1-423	7.4-8.4

SOIL MAP ID 101

USDA Soil Name	Fox,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	4.23-14.11	5.1-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
2	6-21	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	21-31	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.023-14.11	5.1-8.4
4	31-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42.34-141.14	7.4-8.4

SOIL MAP ID 102

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	5-17	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
3	17-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	141.1-423	7.4-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	17-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	141.1-423	7.4-8.4

SOIL MAP ID 103

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	6-17	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	6-17	Clay loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
3	17-79		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.1-423	7.4-8.4

SOIL MAP ID 104

USDA Soil Name	Fox,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM,	4.23-14.11	5.1-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	1984).	4.23-14.11	5.1-7.3
2	6-21	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	21-31	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.023-14.11	5.1-8.4
4	31-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	42.34-141.14	7.4-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	31-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	42.34-141.14	7.4-8.4

SOIL MAP ID 105

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Loam	No data	No data	4-14	5.6-7.3
2	6-18	Clay loam	No data	No data	4-14	5.6-7.8
3	18-60	Sand	No data	No data	141-141	7.4-8.4

SOIL MAP ID 106

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	5-17	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
3	17-79		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.1-423	7.4-8.4

SOIL MAP ID 107

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Loam	No data	No data	4-14	5.6-7.3
2	6-18	Clay loam	No data	No data	4-14	5.6-7.8
3	18-60	Sand	No data	No data	141-141	7.4-8.4

SOIL MAP ID 108

USDA Soil Name	Colwood,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Poorly drained
Hydric Classification	100
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.1-7.8
2	10-24	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent	1.41-4.23	6.1-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	10-24	Sandy clay loam	M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	6.1-7.8
3	24-79	Silt	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	7.4-8.4

SOIL MAP ID 109

USDA Soil Name	Fox,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.6-7.3
2	5-21	Clay loam	Silt-Clay materials	FINE-GRAINED SOILS,	1.41-4.23	6.1-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	5-21	Clay loam	(more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	6.1-6.5
3	21-33	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.023-14.11	5.1-8.4
4	33-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42.34-141.14	7.9-9

SOIL MAP ID 110

USDA Soil Name	Plano,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-14	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.1-7.3
2	14-46	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
3	46-57	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	5.6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	46-57	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
4	57-79	Sand	Granular materials (35% or less passing No. 200), fine sand. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	20-141.14	7.4-8.4

SOIL MAP ID 111

USDA Soil Name	Lorenzo,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Loam	No data	No data	4-14	5.6-7.3
2	9-19	Clay loam	No data	No data	14-42	5.6-7.3
3	19-60	Coarse sand	No data	No data	42-141	7.4-8.4

SOIL MAP ID 112

USDA Soil Name	Warsaw,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	10-36	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-6.5
3	36-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.14-705	7.9-8.4

SOIL MAP ID 113

USDA Soil Name	Warsaw,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	13-30	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-6.5
3	30-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.14-705	7.9-8.4

SOIL MAP ID 114

USDA Soil Name	Rodman,Series
USDA Soil Texture	Sandy loam
Hydrologic Soil Group	A
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-4	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	6.6-7.8
2	4-10	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	6.6-7.8
3	10-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Gravels, clean gravels, Poorly Graded Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.14-705	7.4-8.4

SOIL MAP ID 115

USDA Soil Name	Warsaw,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	10-36	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-6.5
3	36-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.14-705	7.9-8.4

SOIL MAP ID 116

USDA Soil Name	Warsaw,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	13-30	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-6.5
3	30-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.14-705	7.9-8.4

SOIL MAP ID 117

USDA Soil Name	Warsaw,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	13-30	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-6.5
3	30-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.14-705	7.9-8.4

SOIL MAP ID 118

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	5-17	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
3	17-79		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	141.1-423	7.4-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	17-79		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	141.1-423	7.4-8.4

SOIL MAP ID 119

USDA Soil Name	Rodman,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	A
Soil Drainage Class	Excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Loam	No data	No data	14-42	6.6-7.8
2	6-11	Loam	No data	No data	14-42	6.6-7.8
3	11-60	Sand	No data	No data	141-141	7.4-8.4

SOIL MAP ID 120

USDA Soil Name	Miami,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	6.1-7.8
2	10-36	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
3	36-60	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	7.4-8.4

SOIL MAP ID 121

USDA Soil Name	St. Charles,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.1-7.3
2	15-49	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	49-57	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-42.34	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	49-57	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-42.34	5.6-7.8
4	57-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	20-141.14	5.6-8.4

SOIL MAP ID 122

USDA Soil Name	Fox,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4.23-14.11	5.1-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Silt loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
2	9-21	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	21-31	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.023-14.11	5.1-8.4
4	31-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42.34-141.14	7.4-8.4

SOIL MAP ID 123

USDA Soil Name	Juneau,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
2	9-28	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
3	28-42	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4-14	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	28-42	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4-14	5.6-7.8
4	42-60	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8

SOIL MAP ID 124

USDA Soil Name	Mundelein,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	15
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-11	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	5.6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-11	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	11-26	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
3	26-79	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-14.11	6.1-8.4

SOIL MAP ID 125

USDA Soil Name	Martinton,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.3
2	15-33	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-4	5.6-7.8
3	33-60	Sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-4	7.4-8.4

SOIL MAP ID 126

USDA Soil Name	St. Charles,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-12	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.1-7.3
2	12-49	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	49-57	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-42.34	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	49-57	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-42.34	5.6-7.8
4	57-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	20-141.14	5.6-8.4

SOIL MAP ID 127

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent	4.23-14.11	5.6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	5-17	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
3	17-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.1-423	7.4-8.4

SOIL MAP ID 128

USDA Soil Name	McHenry,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	6-22	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
3	22-31	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
4	31-36	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	4.23-14.11	6.6-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	31-36	Fine sandy loam	Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.6-8.4
5	36-79	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	7.4-8.4

SOIL MAP ID 129

USDA Soil Name	Rodman,Series
USDA Soil Texture	Sandy loam
Hydrologic Soil Group	A
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-4	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM,	14.11-42.34	6.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-4	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	1984).	14.11-42.34	6.6-7.8
2	4-10	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	6.6-7.8
3	10-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Gravels, clean gravels, Poorly Graded Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.14-705	7.4-8.4

SOIL MAP ID 130

USDA Soil Name	Aztalan,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	10
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-12	Loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.6-7.8
2	12-27	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.6-7.8
3	27-79	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	1.41-4.23	6.6-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	27-79	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	1.41-4.23	6.6-8.4

SOIL MAP ID 131

USDA Soil Name	Rodman,Series
USDA Soil Texture	Sandy loam
Hydrologic Soil Group	A
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-4	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	6.6-7.8
2	4-10	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and	14.11-42.34	6.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	4-10	Sandy loam	M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	6.6-7.8
3	10-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Gravels, clean gravels, Poorly Graded Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.14-705	7.4-8.4

SOIL MAP ID 132

USDA Soil Name	Mundelein,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	15
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-11	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	5.6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-11	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	11-26	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
3	26-79	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-14.11	6.1-8.4

SOIL MAP ID 133

USDA Soil Name	Fox,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
2	6-21	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	21-31	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.023-14.11	5.1-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	21-31	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.023-14.11	5.1-8.4
4	31-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42.34-141.14	7.4-8.4

SOIL MAP ID 134

USDA Soil Name	St. Charles,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	4.23-14.11	6.1-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.1-7.3
2	15-49	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	49-57	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	5.6-7.8
4	57-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM,	20-141.14	5.6-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	57-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	1984).	20-141.14	5.6-8.4

SOIL MAP ID 135

USDA Soil Name	Aztalan,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	10
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-12	Loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.6-7.8
2	12-27	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	6.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	12-27	Loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.6-7.8
3	27-79	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	6.6-8.4

SOIL MAP ID 136

USDA Soil Name	Chelsea,Series
USDA Soil Texture	Fine sand
Hydrologic Soil Group	A
Soil Drainage Class	Excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Fine sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42-141	5.6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	5-60	Fine sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42-141	5.1-6.5

SOIL MAP ID 137

USDA Soil Name	Fox,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
2	6-21	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4.23-14.11	5.1-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	6-21	Silty clay loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	21-31	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.023-14.11	5.1-8.4
4	31-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42.34-141.14	7.4-8.4

SOIL MAP ID 138

USDA Soil Name	Juneau,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
2	9-28	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
3	28-42	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
4	42-60	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4-14	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	42-60	Silty clay loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8

SOIL MAP ID 139

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	5-17	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	4.23-14.11	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	5-17	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
3	17-79		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.1-423	7.4-8.4

SOIL MAP ID 140

USDA Soil Name	Saylesville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-12	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	4-14	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-12	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
2	12-29	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-4	6.6-7.8
3	29-60	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-4	7.4-8.4

SOIL MAP ID 141

USDA Soil Name	Lorenzo,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.3
2	9-19	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	5.6-7.3
3	19-60	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	42-141	7.4-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	19-60	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	42-141	7.4-8.4

SOIL MAP ID 142

USDA Soil Name	Fox,Series
USDA Soil Texture	Sandy loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	10-28	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	1.41-4.23	6.1-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	10-28	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	6.1-6.5
3	28-33	Sandy clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.6-8.4
4	33-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42.34-141.14	7.9-9

SOIL MAP ID 143

USDA Soil Name	Warsaw,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	13-30	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-6.5
3	30-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.14-705	7.9-8.4

SOIL MAP ID 144

USDA Soil Name	Hebron,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-11	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
2	11-24	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
3	24-28	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	1-4	7.4-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	24-28	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	1-4	7.4-8.4
4	28-60	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-4	7.9-8.4

SOIL MAP ID 145

USDA Soil Name	Radford,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	10
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4-14	6.6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	6.6-7.3
2	9-23	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	6.6-7.3
3	23-36	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	6.1-6.5
4	36-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	3-14	6.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	56-79	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	7.4-7.8

SOIL MAP ID 146

USDA Soil Name	Rodman,Series
USDA Soil Texture	Sandy loam
Hydrologic Soil Group	A
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-4	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	6.6-7.8
2	4-10	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	14.11-42.34	6.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	4-10	Sandy loam	Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	6.6-7.8
3	10-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Gravels, clean gravels, Poorly Graded Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.14-705	7.4-8.4

SOIL MAP ID 147

USDA Soil Name	McHenry,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	4.23-14.11	5.6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	5-10	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
3	10-22	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
4	22-32	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	4.23-14.11	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	22-32	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
5	32-37	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.6-8.4
6	37-79	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	7.4-8.4

SOIL MAP ID 148

USDA Soil Name	Miami,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	6.1-7.8
2	10-36	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
3	36-60	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	7.4-8.4

SOIL MAP ID 149

USDA Soil Name	Aztalan,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	10
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-12	Loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.6-7.8
2	12-27	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.6-7.8
3	27-79	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	1.41-4.23	6.6-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	27-79	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	1.41-4.23	6.6-8.4

SOIL MAP ID 150

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	5-17	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction	4.23-14.11	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	5-17	Clay loam	construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
3	17-79		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.1-423	7.4-8.4

SOIL MAP ID 151

USDA Soil Name	Lorenzo,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4-14	5.6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4-14	5.6-7.3
2	9-19	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	5.6-7.3
3	19-60	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42-141	7.4-8.4

SOIL MAP ID 152

USDA Soil Name	St. Charles,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-12	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.1-7.3
2	12-49	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	49-57	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-42.34	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	49-57	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-42.34	5.6-7.8
4	57-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	20-141.14	5.6-8.4

SOIL MAP ID 153

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent	4.23-14.11	5.6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Loam	M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	6-17	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
3	17-79		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.1-423	7.4-8.4

SOIL MAP ID 154

USDA Soil Name	Houghton,Series
USDA Soil Texture	Not Reported
Hydrologic Soil Group	A/D
Soil Drainage Class	Very poorly drained
Hydric Classification	100
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Highly organic soils, Peat. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-42	0-0
2	6-79		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Highly organic soils, Peat. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-42	0-0

SOIL MAP ID 155

USDA Soil Name	McHenry,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials,	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and	4.23-14.11	5.6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Silt loam	1984.	the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	5-10	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
3	10-22	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
4	22-32	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	22-32	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
5	32-37	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.6-8.4
6	37-79	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	7.4-8.4

SOIL MAP ID 156

USDA Soil Name	Rodman,Series
USDA Soil Texture	Sandy loam
Hydrologic Soil Group	A
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-4	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	6.6-7.8
2	4-10	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	6.6-7.8
3	10-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Gravels, clean gravels, Poorly Graded Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.14-705	7.4-8.4

SOIL MAP ID 157

USDA Soil Name	Plano,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-14	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.1-7.3
2	14-46	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
3	46-57	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	5.6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	46-57	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
4	57-79	Sand	Granular materials (35% or less passing No. 200), fine sand. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	20-141.14	7.4-8.4

SOIL MAP ID 158

USDA Soil Name	Fox,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-7	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	4.23-14.11	5.1-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-7	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
2	7-21	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	21-31	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.023-14.11	5.1-8.4
4	31-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42.34-141.14	7.4-8.4

SOIL MAP ID 159

USDA Soil Name	Juneau,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
2	9-28	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
3	28-42	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4-14	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	28-42	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4-14	5.6-7.8
4	42-60	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8

SOIL MAP ID 160

USDA Soil Name	Lorenzo,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4-14	5.6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.3
2	9-19	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	5.6-7.3
3	19-60	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42-141	7.4-8.4

SOIL MAP ID 161

USDA Soil Name	Fox,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
2	6-21	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	21-31	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.023-14.11	5.1-8.4
4	31-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	42.34-141.14	7.4-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	31-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42.34-141.14	7.4-8.4

SOIL MAP ID 162

USDA Soil Name	Fox,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-7	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.6-7.3
2	7-22	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	1.41-4.23	6.1-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	7-22	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	6.1-6.5
3	22-36	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.023-14.11	6.6-8.4
4	36-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42.34-141.14	7.9-9

SOIL MAP ID 163

USDA Soil Name	Radford,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	10
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	6.6-7.3
2	9-23	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	6.6-7.3
3	23-36	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	6.1-6.5
4	36-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	3-14	6.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	36-56	Silt loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	3-14	6.6-7.8
5	56-79	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	7.4-7.8

SOIL MAP ID 164

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	5.6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	5-17	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
3	17-79		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.1-423	7.4-8.4

SOIL MAP ID 165

USDA Soil Name	Lorenzo,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Loam	No data	No data	4-14	5.6-7.3
2	9-19	Clay loam	No data	No data	14-42	5.6-7.3
3	19-60	Coarse sand	No data	No data	42-141	7.4-8.4

SOIL MAP ID 166

USDA Soil Name	McHenry,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	6-22	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials,	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent	4.23-14.11	5.6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	6-22	Silty clay loam	1984.	on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
3	22-31	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
4	31-36	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.6-8.4
5	36-79	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	7.4-8.4

SOIL MAP ID 167

USDA Soil Name	Palms,Series
USDA Soil Texture	Not Reported
Hydrologic Soil Group	B/D
Soil Drainage Class	Very poorly drained
Hydric Classification	100
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Highly organic soils, Peat. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-42.34	0-0
2	13-30		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Highly organic soils, Peat. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-42.34	0-0
3	30-79	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-14	7-8

SOIL MAP ID 168

USDA Soil Name	Rodman,Series
USDA Soil Texture	Sandy loam
Hydrologic Soil Group	A
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-4	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	6.6-7.8
2	4-10	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	6.6-7.8
3	10-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Gravels, clean gravels, Poorly Graded Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.14-705	7.4-8.4

SOIL MAP ID 169

USDA Soil Name	McHenry,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	6-22	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
3	22-31	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	22-31	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
4	31-36	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.6-8.4
5	36-79	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	7.4-8.4

SOIL MAP ID 170

USDA Soil Name	St. Charles,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-12	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.1-7.3
2	12-49	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	49-57	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	5.6-7.8
4	57-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and	20-141.14	5.6-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	57-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	20-141.14	5.6-8.4

SOIL MAP ID 171

USDA Soil Name	Plano,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-11	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.1-7.3
2	11-41	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	4.23-14.11	5.1-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	11-41	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	41-46	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	6.1-7.8
4	46-79	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	6.6-8.4

SOIL MAP ID 172

USDA Soil Name	St. Charles,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-12	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.1-7.3
2	12-49	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	49-57	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	5.6-7.8
4	57-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and	20-141.14	5.6-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	57-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	20-141.14	5.6-8.4

SOIL MAP ID 173

USDA Soil Name	Mundelein,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	15
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-11	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	11-26	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	4.23-14.11	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	11-26	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
3	26-79	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-14.11	6.1-8.4

SOIL MAP ID 174

USDA Soil Name	St. Charles,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-12	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4.23-14.11	6.1-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-12	Silt loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.1-7.3
2	12-49	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	49-57	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	5.6-7.8
4	57-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	20-141.14	5.6-8.4

SOIL MAP ID 175

USDA Soil Name	Troxel,Family
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-31	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-6.5
2	31-54	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-6.5
3	54-79	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	6.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	54-79	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	6.6-7.8

SOIL MAP ID 176

USDA Soil Name	Rodman,Series
USDA Soil Texture	Sandy loam
Hydrologic Soil Group	A
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-4	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	6.6-7.8
2	4-10	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and	14.11-42.34	6.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	4-10	Sandy loam	M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	6.6-7.8
3	10-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Gravels, clean gravels, Poorly Graded Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.14-705	7.4-8.4

SOIL MAP ID 177

USDA Soil Name	Fox,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	5.1-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
2	9-21	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	21-31	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.023-14.11	5.1-8.4
4	31-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	42.34-141.14	7.4-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	31-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	42.34-141.14	7.4-8.4

SOIL MAP ID 178

USDA Soil Name	Rodman,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	A
Soil Drainage Class	Excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Loam	No data	No data	14-42	6.6-7.8
2	6-11	Loam	No data	No data	14-42	6.6-7.8
3	11-60	Sand	No data	No data	141-141	7.4-8.4

SOIL MAP ID 179

USDA Soil Name	Hebron,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-11	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
2	11-24	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
3	24-28	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-4	7.4-8.4
4	28-60	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	1-4	7.9-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	28-60	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-4	7.9-8.4

SOIL MAP ID 180

USDA Soil Name	Rodman,Series
USDA Soil Texture	Sandy loam
Hydrologic Soil Group	A
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-4	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	6.6-7.8
2	4-10	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM,	14.11-42.34	6.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	4-10	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	1984).	14.11-42.34	6.6-7.8
3	10-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Gravels, clean gravels, Poorly Graded Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.14-705	7.4-8.4

SOIL MAP ID 181

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	5.6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	5-15	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
3	15-79		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.1-423	7.4-8.4

SOIL MAP ID 182

USDA Soil Name	Miami,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	6.1-7.8
2	10-36	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
3	36-60	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	7.4-8.4

SOIL MAP ID 183

USDA Soil Name	Plano,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.1-7.3
2	9-41	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	41-46	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-42.34	6.1-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	41-46	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-42.34	6.1-7.8
4	46-79	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	6.6-8.4

SOIL MAP ID 184

USDA Soil Name	Fox,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-7	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	4.23-14.11	5.1-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-7	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
2	7-21	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	21-31	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.023-14.11	5.1-8.4
4	31-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42.34-141.14	7.4-8.4

SOIL MAP ID 185

USDA Soil Name	Rodman,Series
USDA Soil Texture	Sandy loam
Hydrologic Soil Group	A
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-4	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	6.6-7.8
2	4-10	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	6.6-7.8
3	10-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Gravels, clean gravels, Poorly Graded Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.14-705	7.4-8.4

SOIL MAP ID 186

USDA Soil Name	Miami,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.3
2	10-30	Clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.1-6
3	30-60	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4-14	7.4-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	30-60	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4-14	7.4-8.4

SOIL MAP ID 187

USDA Soil Name	Fox,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
2	6-21	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	5.1-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	6-21	Silty clay loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	21-31	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.023-14.11	5.1-8.4
4	31-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42.34-141.14	7.4-8.4

SOIL MAP ID 188

USDA Soil Name	Lorenzo,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.3
2	9-19	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	5.6-7.3
3	19-60	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42-141	7.4-8.4

SOIL MAP ID 189

USDA Soil Name	Rodman,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	A
Soil Drainage Class	Excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Loam	No data	No data	14-42	6.6-7.8
2	6-11	Loam	No data	No data	14-42	6.6-7.8
3	11-60	Sand	No data	No data	141-141	7.4-8.4

SOIL MAP ID 190

USDA Soil Name	Miami,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.3
2	10-30	Clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials,	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent	4-14	5.1-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	10-30	Clay loam	1984.	on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.1-6
3	30-60	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	7.4-8.4

SOIL MAP ID 191

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Loam	No data	No data	4-14	5.6-7.3
2	6-18	Clay loam	No data	No data	4-14	5.6-7.8
3	18-60	Sand	No data	No data	141-141	7.4-8.4

SOIL MAP ID 192

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Loam	No data	No data	4-14	5.6-7.3
2	6-18	Clay loam	No data	No data	4-14	5.6-7.8
3	18-60	Sand	No data	No data	141-141	7.4-8.4

SOIL MAP ID 193

USDA Soil Name	Rodman,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	A
Soil Drainage Class	Excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Loam	No data	No data	14-42	6.6-7.8
2	6-11	Loam	No data	No data	14-42	6.6-7.8
3	11-60	Sand	No data	No data	141-141	7.4-8.4

SOIL MAP ID 194

USDA Soil Name	Plano,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-16	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.1-7.3
2	16-46	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
3	46-57	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
4	57-79	Sand	Granular materials (35% or less passing No. 200), fine sand. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	20-141.14	7.4-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	57-79	Sand	Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	20-141.14	7.4-8.4

SOIL MAP ID 195

USDA Soil Name	Warsaw,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	10-36	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	4.23-14.11	5.1-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	10-36	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-6.5
3	36-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.14-705	7.9-8.4

SOIL MAP ID 196

USDA Soil Name	Fox,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	4.23-14.11	5.1-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
2	9-21	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	21-31	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.023-14.11	5.1-8.4
4	31-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42.34-141.14	7.4-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	31-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM,	42.34-141.14	7.4-8.4

SOIL MAP ID 197

USDA Soil Name	Marsh,Miscellaneous area
USDA Soil Texture	Not Reported
Hydrologic Soil Group	Not Reported
Soil Drainage Class	Very poorly drained
Hydric Classification	100
Corrosion Potential - Uncoated Steel	Not Reported

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10		No data	No data	0-0	0-0

SOIL MAP ID 198

USDA Soil Name	Lorenzo,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Loam	No data	No data	4-14	5.6-7.3
2	9-19	Clay loam	No data	No data	14-42	5.6-7.3
3	19-60	Coarse sand	No data	No data	42-141	7.4-8.4

SOIL MAP ID 199

USDA Soil Name	Fox,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.6-7.3
2	5-21	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	6.1-6.5
3	21-33	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for	4.023-14.11	5.1-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	21-33	Sandy clay loam	and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.023-14.11	5.1-8.4
4	33-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42.34-141.14	7.9-9

SOIL MAP ID 200

USDA Soil Name	Plano,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-14	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM,	4.23-14.11	6.1-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-14	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	1984).	4.23-14.11	6.1-7.3
2	14-46	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
3	46-57	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
4	57-79	Sand	Granular materials (35% or less passing No. 200), fine sand. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	20-141.14	7.4-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	57-79	Sand	Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	20-141.14	7.4-8.4

SOIL MAP ID 201

USDA Soil Name	Juneau,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
2	9-28	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	4-14	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	9-28	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
3	28-42	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
4	42-60	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8

SOIL MAP ID 202

USDA Soil Name	McHenry,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	5-10	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
3	10-22	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	5.6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	10-22	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
4	22-32	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
5	32-37	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.6-8.4
6	37-79	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	7.4-8.4

SOIL MAP ID 203

USDA Soil Name	Pella,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Poorly drained
Hydric Classification	87
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-11	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.1-7.8
2	11-38	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.6-7.8
3	38-79	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-42.32	7.4-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	38-79	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-42.32	7.4-8.4

SOIL MAP ID 204

USDA Soil Name	Miami,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	6.1-7.8
2	10-36	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4-14	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	10-36	Clay loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
3	36-60	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	7.4-8.4

SOIL MAP ID 205

USDA Soil Name	Palms,Series
USDA Soil Texture	Not Reported
Hydrologic Soil Group	B/D
Soil Drainage Class	Very poorly drained
Hydric Classification	100
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Highly organic soils, Peat. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-42.34	0-0
2	13-30		Reference: This is a classification of soil	Highly organic soils, Peat. Reference: This is	1.41-42.34	0-0

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	13-30		material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-42.34	0-0
3	30-79	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-14	7-8

SOIL MAP ID 206

USDA Soil Name	Saylesville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-12	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials,	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and	4-14	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-12	Silt loam	1984.	the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
2	12-29	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-4	6.6-7.8
3	29-60	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-4	7.4-8.4

SOIL MAP ID 207

USDA Soil Name	Fox,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
2	6-21	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	21-31	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.023-14.11	5.1-8.4
4	31-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	42.34-141.14	7.4-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	31-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42.34-141.14	7.4-8.4

SOIL MAP ID 208

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	5-17	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	4.23-14.11	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	5-17	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
3	17-79		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.1-423	7.4-8.4

SOIL MAP ID 209

USDA Soil Name	Fox,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-7	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	4.23-14.11	5.1-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-7	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
2	7-21	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	21-31	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.023-14.11	5.1-8.4
4	31-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42.34-141.14	7.4-8.4

SOIL MAP ID 210

USDA Soil Name	Fox,Series
USDA Soil Texture	Sandy loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	10-28	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	6.1-6.5
3	28-33	Sandy clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.6-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42.34-141.14	7.9-9

SOIL MAP ID 211

USDA Soil Name	Boyer,Series
USDA Soil Texture	Sandy loam
Hydrologic Soil Group	A
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-7	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42-141	5.6-7.3
2	7-26	Sandy loam	No data	No data	14-42	5.6-7.8
3	26-60	Sand	No data	No data	141-141	7.4-8.4

SOIL MAP ID 212

USDA Soil Name	Hebron,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-11	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
2	11-24	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
3	24-28	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	1-4	7.4-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	24-28	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	1-4	7.4-8.4
4	28-60	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-4	7.9-8.4

SOIL MAP ID 213

USDA Soil Name	Aztalan,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	10
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-12	Loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	6.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-12	Loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.6-7.8
2	12-27	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.6-7.8
3	27-79	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	6.6-8.4

SOIL MAP ID 214

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	5-17	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
3	17-79		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.1-423	7.4-8.4

SOIL MAP ID 215

USDA Soil Name	McHenry,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	6-22	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
3	22-31	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	22-31	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
4	31-36	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.6-8.4
5	36-79	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	7.4-8.4

SOIL MAP ID 216

USDA Soil Name	Plano,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.1-7.3
2	9-41	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	41-46	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	6.1-7.8
4	46-79	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	4.23-42.34	6.6-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	46-79	Sandy loam	Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	6.6-8.4

SOIL MAP ID 217

USDA Soil Name	Saylesville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-12	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
2	12-29	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	1-4	6.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	12-29	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	1-4	6.6-7.8
3	29-60	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-4	7.4-8.4

SOIL MAP ID 218

USDA Soil Name	Plano,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-16	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4.23-14.11	6.1-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-16	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.1-7.3
2	16-46	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
3	46-57	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
4	57-79	Sand	Granular materials (35% or less passing No. 200), fine sand. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	20-141.14	7.4-8.4

SOIL MAP ID 219

USDA Soil Name	Juneau,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
2	9-28	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
3	28-42	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4-14	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	28-42	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4-14	5.6-7.8
4	42-60	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8

SOIL MAP ID 220

USDA Soil Name	St. Charles,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	6.1-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.1-7.3
2	15-49	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	49-57	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	5.6-7.8
4	57-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	20-141.14	5.6-8.4

SOIL MAP ID 221

USDA Soil Name	Water greater than 40 acres,Miscellaneous area
USDA Soil Texture	Not Reported
Hydrologic Soil Group	Not Reported
Soil Drainage Class	Not Reported
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Not Reported

SOIL MAP ID 222

USDA Soil Name	Pella,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Poorly drained
Hydric Classification	87
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-11	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.1-7.8
2	11-38	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.6-7.8
3	38-79	Silty clay loam	Silt-Clay materials	COARSE-GRAINED SOILS,	4.23-42.32	7.4-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	38-79	Silty clay loam	(more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.32	7.4-8.4

SOIL MAP ID 223

USDA Soil Name	Fox,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-7	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
2	7-21	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent	4.23-14.11	5.1-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	7-21	Silty clay loam	M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	21-31	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.023-14.11	5.1-8.4
4	31-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42.34-141.14	7.4-8.4

SOIL MAP ID 224

USDA Soil Name	Lorenzo,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.3
2	9-19	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	5.6-7.3
3	19-60	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42-141	7.4-8.4

SOIL MAP ID 225

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	5-15	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
3	15-79		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	141.1-423	7.4-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	15-79		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	141.1-423	7.4-8.4

SOIL MAP ID 226

USDA Soil Name	Lorenzo,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.3
2	9-19	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	14-42	5.6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	9-19	Clay loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	5.6-7.3
3	19-60	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42-141	7.4-8.4

SOIL MAP ID 227

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	4.23-14.11	5.6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	5-15	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
3	15-79		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.1-423	7.4-8.4

SOIL MAP ID 228

USDA Soil Name	Pella,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Poorly drained
Hydric Classification	87
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-11	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.1-7.8
2	11-38	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.6-7.8
3	38-79	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.32	7.4-8.4

SOIL MAP ID 229

USDA Soil Name	Fox,Series
USDA Soil Texture	Sandy loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	6-28	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	6.1-6.5
3	28-33	Sandy clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.6-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42.34-141.14	7.9-9

SOIL MAP ID 230

USDA Soil Name	Lorenzo,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.3
2	9-19	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	14-42	5.6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	9-19	Clay loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	5.6-7.3
3	19-60	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42-141	7.4-8.4

SOIL MAP ID 231

USDA Soil Name	Juneau,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	4-14	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
2	9-28	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
3	28-42	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
4	42-60	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	4-14	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	42-60	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8

SOIL MAP ID 232

USDA Soil Name	Radford,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	10
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	6.6-7.3
2	9-23	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials,	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and	4-14	6.6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	9-23	Silt loam	1984.	the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	6.6-7.3
3	23-36	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	6.1-6.5
4	36-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	3-14	6.6-7.8
5	56-79	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	7.4-7.8

SOIL MAP ID 233

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	5-17	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
3	17-79		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	141.1-423	7.4-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	17-79		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	141.1-423	7.4-8.4

SOIL MAP ID 234

USDA Soil Name	Fox,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-7	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
2	7-21	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4.23-14.11	5.1-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	7-21	Silty clay loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	21-31	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.023-14.11	5.1-8.4
4	31-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42.34-141.14	7.4-8.4

SOIL MAP ID 235

USDA Soil Name	Fox,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
2	9-21	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	21-31	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.023-14.11	5.1-8.4
4	31-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	42.34-141.14	7.4-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	31-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42.34-141.14	7.4-8.4

SOIL MAP ID 236

USDA Soil Name	Miami,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	6.1-7.8
2	10-36	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	4-14	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	10-36	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
3	36-60	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	7.4-8.4

SOIL MAP ID 237

USDA Soil Name	Griswold,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	4.23-14.11	5.6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	9-24	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-14.11	6.6-7.3
3	24-27	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	7.4-7.8
4	27-79	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	7.9-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	27-79	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM,	4.23-42.34	7.9-8.4

SOIL MAP ID 238

USDA Soil Name	Fox,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
2	6-21	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4.23-14.11	5.1-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	6-21	Silty clay loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	21-31	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.023-14.11	5.1-8.4
4	31-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42.34-141.14	7.4-8.4

SOIL MAP ID 239

USDA Soil Name	Lorenzo,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.3
2	9-19	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	5.6-7.3
3	19-60	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42-141	7.4-8.4

SOIL MAP ID 240

USDA Soil Name	Plano,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-16	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.1-7.3
2	16-46	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
3	46-57	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	5.6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	46-57	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
4	57-79	Sand	Granular materials (35% or less passing No. 200), fine sand. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	20-141.14	7.4-8.4

SOIL MAP ID 241

USDA Soil Name	McHenry,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	4.23-14.11	5.6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	5-10	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
3	10-22	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
4	22-32	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	22-32	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
5	32-37	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.6-8.4
6	37-79	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	7.4-8.4

SOIL MAP ID 242

USDA Soil Name	St. Charles,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.1-7.3
2	15-49	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	49-57	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	5.6-7.8
4	57-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and	20-141.14	5.6-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	57-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	20-141.14	5.6-8.4

SOIL MAP ID 243

USDA Soil Name	Aztalan,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	10
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-12	Loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.6-7.8
2	12-27	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	4.23-14.11	6.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	12-27	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.6-7.8
3	27-79	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	6.6-8.4

SOIL MAP ID 244

USDA Soil Name	Miami,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4-14	6.1-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	6.1-7.8
2	10-36	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
3	36-60	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	7.4-8.4

SOIL MAP ID 245

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	5-15	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
3	15-79		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.1-423	7.4-8.4

SOIL MAP ID 246

USDA Soil Name	Hennepin,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Loam	No data	No data	4-14	6.1-7.8
2	6-11	Loam	No data	No data	1-4	6.1-8.4
3	11-60	Loam	No data	No data	1-4	7.4-8.4

SOIL MAP ID 247

USDA Soil Name	Radford,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	10
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	6.6-7.3
2	9-23	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent	4-14	6.6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	9-23	Silt loam	M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	6.6-7.3
3	23-36	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	6.1-6.5
4	36-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	3-14	6.6-7.8
5	56-79	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	7.4-7.8

SOIL MAP ID 248

USDA Soil Name	Rodman,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	A
Soil Drainage Class	Excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Loam	No data	No data	14-42	6.6-7.8
2	6-11	Loam	No data	No data	14-42	6.6-7.8
3	11-60	Sand	No data	No data	141-141	7.4-8.4

SOIL MAP ID 249

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	5-17	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for	4.23-14.11	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	5-17	Clay loam	and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
3	17-79		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.1-423	7.4-8.4

SOIL MAP ID 250

USDA Soil Name	Fox,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-7	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	4.23-14.11	5.1-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-7	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
2	7-21	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	21-31	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.023-14.11	5.1-8.4
4	31-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	42.34-141.14	7.4-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	31-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	42.34-141.14	7.4-8.4

SOIL MAP ID 251

USDA Soil Name	Rodman,Series
USDA Soil Texture	Sandy loam
Hydrologic Soil Group	A
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-4	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	6.6-7.8
2	4-10	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials,	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	14.11-42.34	6.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	4-10	Sandy loam	1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	6.6-7.8
3	10-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Gravels, clean gravels, Poorly Graded Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.14-705	7.4-8.4

SOIL MAP ID 252

USDA Soil Name	Elburn,Family
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	10
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-16	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	4.23-14.11	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-16	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
2	16-36	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
3	36-44	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	6.1-8.4
4	44-79	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.14-705	6.1-8.4

SOIL MAP ID 253

USDA Soil Name	Radford,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	10
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	6.6-7.3
2	9-23	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	6.6-7.3
3	23-36	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4-14	6.1-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	23-36	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4-14	6.1-6.5
4	36-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	3-14	6.6-7.8
5	56-79	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	7.4-7.8

SOIL MAP ID 254

USDA Soil Name	McHenry,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.3
2	15-31	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.1-7.3
3	31-35	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.1-7.8
4	35-60	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	14-42	7.4-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	35-60	Sandy loam	Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	7.4-8.4

SOIL MAP ID 255

USDA Soil Name	Adrian,Series
USDA Soil Texture	Not Reported
Hydrologic Soil Group	B/D
Soil Drainage Class	Very poorly drained
Hydric Classification	100
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Highly organic soils, Peat. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-42.34	0-0
2	20-32		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Highly organic soils, Peat. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-42.34	0-0

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	32-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42-141	5.6-8

SOIL MAP ID 256

USDA Soil Name	Miami,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	6.1-7.8
2	10-36	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent	4-14	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	10-36	Clay loam	M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
3	36-60	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	7.4-8.4

SOIL MAP ID 257

USDA Soil Name	Hebron,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-11	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
2	11-24	Loam	Silt-Clay materials	FINE-GRAINED SOILS,	4-14	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	11-24	Loam	(more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
3	24-28	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-4	7.4-8.4
4	28-60	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-4	7.9-8.4

SOIL MAP ID 258

USDA Soil Name	Griswold,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	9-24	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-14.11	6.6-7.3
3	24-27	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	7.4-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	24-27	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	7.4-7.8
4	27-79	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	7.9-8.4

SOIL MAP ID 259

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4.23-14.11	5.6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	5-15	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
3	15-79		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.1-423	7.4-8.4

SOIL MAP ID 260

USDA Soil Name	Warsaw,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-14	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	14-31	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-6.5
3	31-36	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.1-8.4
4	36-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	141.14-705	7.9-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	36-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.14-705	7.9-8.4

SOIL MAP ID 261

USDA Soil Name	Plano,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-14	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.1-7.3
2	14-46	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	4.23-14.11	5.6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	14-46	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
3	46-57	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
4	57-79	Sand	Granular materials (35% or less passing No. 200), fine sand. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	20-141.14	7.4-8.4

SOIL MAP ID 262

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	5-17	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
3	17-79		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.1-423	7.4-8.4

SOIL MAP ID 263

USDA Soil Name	Griswold,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	9-24	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-14.11	6.6-7.3
3	24-27	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	7.4-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	24-27	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	7.4-7.8
4	27-79	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	7.9-8.4

SOIL MAP ID 264

USDA Soil Name	Juneau,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	4-14	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
2	9-28	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
3	28-42	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
4	42-60	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4-14	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	42-60	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4-14	5.6-7.8

SOIL MAP ID 265

USDA Soil Name	St. Charles,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.1-7.3
2	15-49	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	5.1-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	15-49	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	49-57	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	5.6-7.8
4	57-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	20-141.14	5.6-8.4

SOIL MAP ID 266

USDA Soil Name	Plano,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-11	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.1-7.3
2	11-41	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	41-46	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	6.1-7.8
4	46-79	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	4.23-42.34	6.6-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	46-79	Sandy loam	Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	6.6-8.4

SOIL MAP ID 267

USDA Soil Name	Fox,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
2	6-21	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	4.23-14.11	5.1-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	6-21	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	21-31	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.023-14.11	5.1-8.4
4	31-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42.34-141.14	7.4-8.4

SOIL MAP ID 268

USDA Soil Name	Juneau,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
2	9-28	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
3	28-42	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
4	42-60	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4-14	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	42-60	Silty clay loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8

SOIL MAP ID 269

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	5-17	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	4.23-14.11	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	5-17	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
3	17-79		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.1-423	7.4-8.4

SOIL MAP ID 270

USDA Soil Name	Fox,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	4.23-14.11	5.1-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
2	9-21	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	21-31	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.023-14.11	5.1-8.4
4	31-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42.34-141.14	7.4-8.4

SOIL MAP ID 271

USDA Soil Name	Plano,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-11	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.1-7.3
2	11-41	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	41-46	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-42.34	6.1-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	41-46	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-42.34	6.1-7.8
4	46-79	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	6.6-8.4

SOIL MAP ID 272

USDA Soil Name	Saylesville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-12	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	4-14	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-12	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
2	12-29	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-4	6.6-7.8
3	29-60	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-4	7.4-8.4

SOIL MAP ID 273

USDA Soil Name	Pits,Miscellaneous area
USDA Soil Texture	Sand
Hydrologic Soil Group	Not Reported
Soil Drainage Class	Not Reported
Hydric Classification	1
Corrosion Potential - Uncoated Steel	Not Reported

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Sand	No data	No data	0-0	0-0

SOIL MAP ID 274

USDA Soil Name	St. Charles,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-12	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.1-7.3
2	12-49	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	49-57	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for	4.23-42.34	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	49-57	Clay loam	and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	5.6-7.8
4	57-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	20-141.14	5.6-8.4

SOIL MAP ID 275

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	4.23-14.11	5.6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	6-17	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
3	17-79		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.1-423	7.4-8.4

SOIL MAP ID 276

USDA Soil Name	Fox,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
2	9-21	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	21-31	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.023-14.11	5.1-8.4
4	31-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	42.34-141.14	7.4-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	31-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42.34-141.14	7.4-8.4

SOIL MAP ID 277

USDA Soil Name	Lorenzo,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Loam	No data	No data	4-14	5.6-7.3
2	9-19	Clay loam	No data	No data	14-42	5.6-7.3
3	19-60	Coarse sand	No data	No data	42-141	7.4-8.4

SOIL MAP ID 278

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	5-15	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
3	15-79		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.1-423	7.4-8.4

SOIL MAP ID 279

USDA Soil Name	Fox,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
2	6-21	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	21-31	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.023-14.11	5.1-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	21-31	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.023-14.11	5.1-8.4
4	31-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42.34-141.14	7.4-8.4

SOIL MAP ID 280

USDA Soil Name	McHenry,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	4.23-14.11	5.6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	5-10	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
3	10-22	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
4	22-32	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	22-32	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
5	32-37	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.6-8.4
6	37-79	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	7.4-8.4

SOIL MAP ID 281

USDA Soil Name	Plano,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.1-7.3
2	9-41	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	41-46	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	6.1-7.8
4	46-79	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	4.23-42.34	6.6-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	46-79	Sandy loam	Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	6.6-8.4

SOIL MAP ID 282

USDA Soil Name	Fox,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-7	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.6-7.3
2	7-22	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	1.41-4.23	6.1-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	7-22	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	6.1-6.5
3	22-36	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.023-14.11	6.6-8.4
4	36-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42.34-141.14	7.9-9

SOIL MAP ID 283

USDA Soil Name	Juneau,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
2	9-28	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
3	28-42	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8
4	42-60	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4-14	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	42-60	Silty clay loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.8

SOIL MAP ID 284

USDA Soil Name	St. Charles,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.1-7.3
2	15-49	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	4.23-14.11	5.1-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	15-49	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	49-57	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	5.6-7.8
4	57-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	20-141.14	5.6-8.4

SOIL MAP ID 285

USDA Soil Name	Fox,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-7	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
2	7-21	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	21-31	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.023-14.11	5.1-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	21-31	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.023-14.11	5.1-8.4
4	31-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42.34-141.14	7.4-8.4

SOIL MAP ID 286

USDA Soil Name	Lorenzo,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	4-14	5.6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.3
2	9-19	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	5.6-7.3
3	19-60	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42-141	7.4-8.4

SOIL MAP ID 287

USDA Soil Name	Water greater than 40 acres,Miscellaneous area
USDA Soil Texture	Not Reported
Hydrologic Soil Group	Not Reported
Soil Drainage Class	Not Reported
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Not Reported

SOIL MAP ID 288

USDA Soil Name	Plano,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.1-7.3
2	9-41	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	41-46	Loam	Silt-Clay materials	FINE-GRAINED SOILS,	4.23-42.34	6.1-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	41-46	Loam	(more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	6.1-7.8
4	46-79	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	6.6-8.4

SOIL MAP ID 289

USDA Soil Name	McHenry,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials,	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and	4.23-14.11	5.6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Silt loam	1984.	the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	6-22	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
3	22-31	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
4	31-36	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.6-8.4
5	36-79	Sandy loam	Silt-Clay materials	Reference: This is a	14.11-42.34	7.4-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	36-79	Sandy loam	(more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	7.4-8.4

SOIL MAP ID 290

USDA Soil Name	Rodman,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	A
Soil Drainage Class	Excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-6	Loam	No data	No data	14-42	6.6-7.8
2	6-11	Loam	No data	No data	14-42	6.6-7.8
3	11-60	Sand	No data	No data	141-141	7.4-8.4

SOIL MAP ID 291

USDA Soil Name	Rodman,Series
USDA Soil Texture	Sandy loam
Hydrologic Soil Group	A
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-4	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	6.6-7.8
2	4-10	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	6.6-7.8
3	10-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Gravels, clean gravels, Poorly Graded Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.14-705	7.4-8.4

SOIL MAP ID 292

USDA Soil Name	Plano,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	6.1-7.3
2	13-38	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.3
3	38-49	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4-14	5.6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	38-49	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4-14	5.6-7.3
4	49-60	Coarse sand	Granular materials (35% or less passing No. 200), fine sand. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141-141	7.4-8.4

SOIL MAP ID 293

USDA Soil Name	Rodman,Series
USDA Soil Texture	Sandy loam
Hydrologic Soil Group	A
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-4	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and	14.11-42.34	6.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-4	Sandy loam	Transportation Officials, 1984.	the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	6.6-7.8
2	4-10	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	6.6-7.8
3	10-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Gravels, clean gravels, Poorly Graded Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.14-705	7.4-8.4

SOIL MAP ID 294

USDA Soil Name	Fox,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
2	9-21	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	21-31	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.023-14.11	5.1-8.4
4	31-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	42.34-141.14	7.4-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	31-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42.34-141.14	7.4-8.4

SOIL MAP ID 295

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	5-15	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	4.23-14.11	5.6-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	5-15	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
3	15-79		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.1-423	7.4-8.4

SOIL MAP ID 296

USDA Soil Name	Sebewa,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Poorly drained
Hydric Classification	96
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-11	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	4-14	6.1-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-11	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	6.1-7.8
2	11-27	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	6.1-7.8
3	27-79	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.1-423	7.4-8.4

SOIL MAP ID 297

USDA Soil Name	Rodman,Series
USDA Soil Texture	Sandy loam
Hydrologic Soil Group	A
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-4	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	6.6-7.8
2	4-10	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14.11-42.34	6.6-7.8
3	10-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Gravels, clean gravels, Poorly Graded Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.14-705	7.4-8.4

SOIL MAP ID 298

USDA Soil Name	Martinton,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.6-7.3
2	15-33	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-4	5.6-7.8
3	33-60	Sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	1-4	7.4-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	33-60	Sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	1-4	7.4-8.4

SOIL MAP ID 299

USDA Soil Name	Warsaw,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-14	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	14-31	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	5.1-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	14-31	Sandy clay loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-6.5
3	31-36	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.1-8.4
4	36-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.14-705	7.9-8.4

SOIL MAP ID 300

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	5-15	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
3	15-79		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.1-423	7.4-8.4

SOIL MAP ID 301

USDA Soil Name	Plano,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-11	Silt loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.1-7.3
2	11-41	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
3	41-46	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-42.34	6.1-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	41-46	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-42.34	6.1-7.8
4	46-79	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	6.6-8.4

SOIL MAP ID 302

USDA Soil Name	Casco,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4.23-14.11	5.6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	5-15	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
3	15-79		Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.1-423	7.4-8.4

SOIL MAP ID 303

USDA Soil Name	Warsaw,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.3
2	13-30	Sandy clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-6.5
3	30-79	Sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	141.14-705	7.9-8.4

SOIL MAP ID A

USDA Soil Name	Fox,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	12
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-11	Silt loam	No data	No data	4.2343-14.1143	5.1-7.3
2	11-22	No data	No data	No data	4.2343-14.1143	5.1-7.3
3	22-34	No data	No data	No data	4.2343-14.1143	5.1-8.4
4	34-60	No data	No data	No data	42.343-141.1433	7.4-8.4

SOIL MAP ID B

USDA Soil Name	Pella,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Poorly drained
Hydric Classification	56
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	Silt loam	No data	No data	4.2343-14.1143	6.1-7.8
2	13-31	No data	No data	No data	4.2343-14.1143	6.6-7.8
3	31-38	Sandy loam	No data	No data	4.2343-14.1143	7.4-8.4
4	38-60	Sandy loam	No data	No data	4.2343-14.1143	7.4-8.4

SOIL MAP ID C

USDA Soil Name	Plano,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-12	Silt loam	No data	No data	4.2343-14.1143	6.1-7.3
2	12-42	No data	No data	No data	4.2343-14.1143	5.6-7.3
3	42-50	No data	No data	No data	4.2343-14.1143	5.6-7.3
4	50-60	No data	No data	No data	141.1433-141.1433	7.4-8.4

WATER AGENCY DATA:

WATER AGENCY SEARCH DISTANCES:

DATABASE:	SEARCH DISTANCE (MILES):
NWIS	1.000
PWS	1.000

DISTANCE TO NEAREST:	DISTANCE:
NWIS	0.011 mi / 60 ft
PWS	0.000 mi / 0 ft

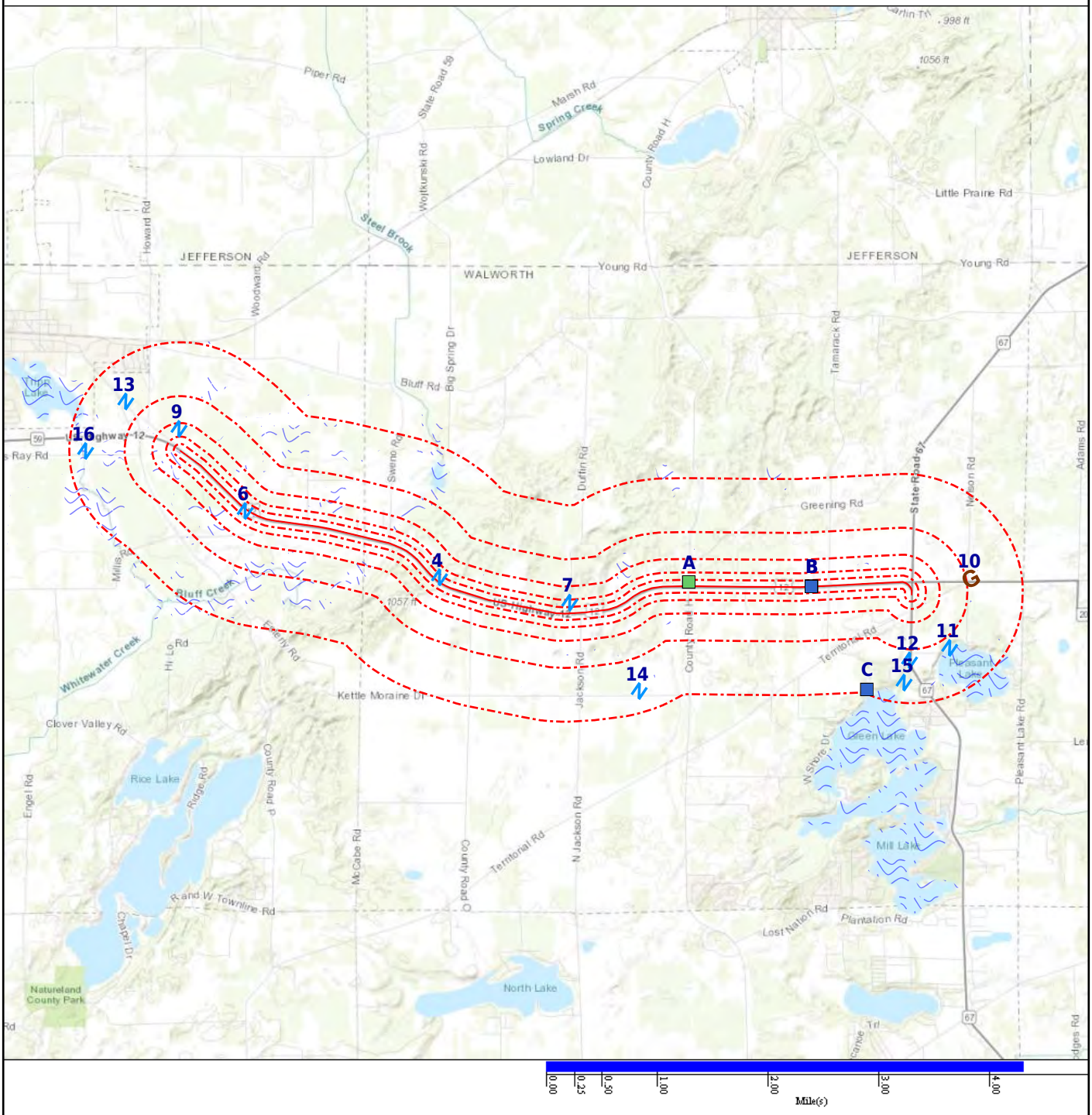
FEDERAL WATER AGENCY DATA SUMMARY:

MAP ID:	WELL ID:	LOCATION FROM SP:
A1	WI2651397	< 1/8 Mile ESE
A2	WI2651397 | LA GRANGE GENERAL STORE	< 1/8 Mile ESE
B3	WI2651113	< 1/8 Mile E
4	424801088384901	< 1/8 Mile WSW
B5	424759088345001	< 1/8 Mile E
6	424833088405401	< 1/8 Mile W
7	424749088372601	< 1/8 Mile SSE
A8	WI2650470	< 1/8 Mile ESE
9	424913088413601	1/8 - 1/4 Mile WNW
10	WI2650440 | CAMP JUNIPER KNOLL-ON996	1/2 - 1 Mile E
11	424727088332300	1/2 - 1 Mile ESE
12	424721088334900	1/2 - 1 Mile ESE
13	424926088421001	1/2 - 1 Mile WNW
14	424706088364201	1/2 - 1 Mile SE
15	05544793	1/2 - 1 Mile ESE
16	05427000	1/2 - 1 Mile W
C17	05544790	1/2 - 1 Mile ESE
C18	424707088341600	1/2 - 1 Mile ESE

Note: PWS System location is not always the same as well location.

SUBJECT NAME: USH 12
ADDRESS: Cox Rd to STH 20/67, NA, WI
LAT/LONG: 42.806662 / -88.627853

PREPARED FOR: Historical Information Gatherers
ORDER #: 46219
REPORT DATE: October 14, 2020



Map Id: A1
Direction: ESE
Distance: 0.000 mi.
Actual: 0.000 ft.
Elevation: 0.179 mi. / 944.888 ft.
Relative: Lower

Site Name : WI2651397
HWYS 12 & H
WHITEWATER, WI 53190

Database(s) : [PWS, PWS ENF]

Envirosite ID: 6771539
EPA ID: N/R

PWS

Facility Address :	Hwys 12 & H, Whitewater, WI 53190
PWS ID :	WI2651397
PWS Type :	Transient non-community system
PWS Name :	LA GRANGE GENERAL STORE
Activity Status :	Active
Primary Source :	Ground water
Submission Year :	2017
Submission Year Quarter :	2017Q1
Population Served Count :	102
Service Connections Count :	1
Population Category 2 :	<10,000
Population Category 3 :	<=3300
Population Category 4 :	<10K
Population Category 5 :	<=500
Population Category 11 :	101-500
Submission Quarter :	1
Submission Status Code :	Y
First Reported Date :	02/27/1995
Last Reported Date :	03/02/2017
Deactivation Date :	N/R
GW or SW :	Groundwater
Is Grant Eligible :	Y
Is Outstanding Performer :	N/R
Is School or Daycare :	N
Is Source Water Protected :	N/R
Primacy Agency :	Wisconsin
Primacy Type :	State
Org Name :	BETTINGER, ANITA
EPA Region :	Region 5
Admin Name :	N/R
Owner Type :	Private
Phone Number :	N/R
Phone Ext Number :	N/R
Alt Phone Number :	N/R
Email Address :	N/R
Fax Number :	N/R
Is Wholesaler :	N
LT2 Schedule Category :	N/R
NPM Candidate :	Y
CDS ID :	N/R
DBPR Schedule Category :	N/R
Outstanding Performer Date :	N/R
Season Begin Date :	01-01
Season End Date :	12-31
Source Water Protection Date :	N/R
Seasonal Startup System :	N/R
Reduced Monitoring Begin Date :	N/R
Reduced Monitoring End Date :	N/R
Reduced RTCR Monitoring :	N/R
Last Date in Agency List :	06/12/2017

PWS ENF

Facility Address :	Hwys 12 & H, Whitewater, WI 53190

Map Id: A1
Direction: ESE
Distance: 0.000 mi.
Actual: 0.000 ft.
Elevation: 0.179 mi. / 944.888 ft.
Relative: Lower

Site Name : WI2651397
HWYS 12 & H
WHITEWATER, WI 53190

Database(s) : [PWS, PWS ENF] ***(cont.)***

Envirosite ID: 6771539
EPA ID: N/R

PWS ENF ***(cont.)***

PWS ID :	WI2651397
PWS Name :	LA GRANGE GENERAL STORE
EPA Region :	Region 5
Primacy Agency :	Wisconsin
PWS Type :	Transient non-community system
Primacy Type :	State
Primary Source :	Ground water
Activity Status :	Active
Deactivation Date :	N/R
Owner Type :	Private
Phone Number :	N/R
Last Date in Agency List :	07/25/2019

Violation Details

RTC Enforcement ID :	0000031
Violation ID :	0000021
Submission Year :	2019
Violation First Reported Date :	12/06/2001
Contaminant Name :	Nitrate
Rule Family :	Inorganic Chemicals
Rule Group :	Chemicals
Rule Name :	Nitrates
Violation Type :	Monitoring, Regular
Is Health Based :	N
Is Major Violation :	Y
Severity Indicator Count :	N/R
Public Notification Tier :	3
Address Line 1 :	W6098 Hwy 12, Whitewater, 53190
Address Line 2 :	N/R
Compliance Status :	Returned to Compliance
RTC Date :	06/06/2000
Enforcement Action Description :	State Public Notification requested
Admin Name :	N/R
Email Address :	N/R

RTC Enforcement ID :	0300035
Violation ID :	0300028
Submission Year :	2019
Violation First Reported Date :	12/22/2006
Contaminant Name :	Coliform (TCR)
Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule
Violation Type :	Monitoring, Routine Major (TCR)
Is Health Based :	N
Is Major Violation :	N/R
Severity Indicator Count :	N/R
Public Notification Tier :	3
Address Line 1 :	W6098 Hwy 12, Whitewater, 53190
Address Line 2 :	N/R
Compliance Status :	Returned to Compliance
RTC Date :	10/14/2002
Enforcement Action Description :	State Compliance achieved
Admin Name :	N/R

Map Id: A1
Direction: ESE
Distance: 0.000 mi.
Actual: 0.000 ft.
Elevation: 0.179 mi. / 944.888 ft.
Relative: Lower

Site Name : WI2651397
HWYS 12 & H
WHITEWATER, WI 53190

Database(s) : [PWS, PWS ENF] ***(cont.)***

Envirosite ID: 6771539
EPA ID: N/R

PWS ENF ***(cont.)***

Email Address :	N/R

RTC Enforcement ID :	0300039
Violation ID :	0300030
Submission Year :	2019
Violation First Reported Date :	02/25/2004
Contaminant Name :	Coliform (TCR)
Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule
Violation Type :	Monitoring, Repeat Minor (TCR)
Is Health Based :	N
Is Major Violation :	N/R
Severity Indicator Count :	N/R
Public Notification Tier :	3
Address Line 1 :	W6098 Hwy 12, Whitewater, 53190
Address Line 2 :	N/R
Compliance Status :	Returned to Compliance
RTC Date :	11/14/2002
Enforcement Action Description :	State Compliance achieved
Admin Name :	N/R
Email Address :	N/R

RTC Enforcement ID :	0300042
Violation ID :	0300031
Submission Year :	2019
Violation First Reported Date :	03/15/2003
Contaminant Name :	Coliform (TCR)
Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule
Violation Type :	Monitoring, Routine Major (TCR)
Is Health Based :	N
Is Major Violation :	N/R
Severity Indicator Count :	N/R
Public Notification Tier :	3
Address Line 1 :	W6098 Hwy 12, Whitewater, 53190
Address Line 2 :	N/R
Compliance Status :	Returned to Compliance
RTC Date :	09/22/2003
Enforcement Action Description :	State Compliance achieved
Admin Name :	N/R
Email Address :	N/R

RTC Enforcement ID :	9800028
Violation ID :	9800019
Submission Year :	2019
Violation First Reported Date :	09/04/1998
Contaminant Name :	Coliform (TCR)
Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule
Violation Type :	Monitoring, Routine Major (TCR)
Is Health Based :	N

Map Id: A1
Direction: ESE
Distance: 0.000 mi.
Actual: 0.000 ft.
Elevation: 0.179 mi. / 944.888 ft.
Relative: Lower

Site Name : WI2651397
HWYS 12 & H
WHITEWATER, WI 53190

Database(s) : [PWS, PWS ENF] ***(cont.)***

Envirosite ID: 6771539
EPA ID: N/R

PWS ENF ***(cont.)***

Is Major Violation :	N/R
Severity Indicator Count :	N/R
Public Notification Tier :	3
Address Line 1 :	W6098 Hwy 12, Whitewater, 53190
Address Line 2 :	N/R
Compliance Status :	Returned to Compliance
RTC Date :	06/17/1998
Enforcement Action Description :	State Compliance achieved
Admin Name :	N/R
Email Address :	N/R

RTC Enforcement ID :	9800034
Violation ID :	9700014
Submission Year :	2019
Violation First Reported Date :	09/04/1998
Contaminant Name :	Nitrate
Rule Family :	Inorganic Chemicals
Rule Group :	Chemicals
Rule Name :	Nitrates
Violation Type :	Monitoring, Regular
Is Health Based :	N
Is Major Violation :	Y
Severity Indicator Count :	N/R
Public Notification Tier :	3
Address Line 1 :	W6098 Hwy 12, Whitewater, 53190
Address Line 2 :	N/R
Compliance Status :	Returned to Compliance
RTC Date :	12/31/1997
Enforcement Action Description :	State Compliance achieved
Admin Name :	N/R
Email Address :	N/R

RTC Enforcement ID :	9800043
Violation ID :	9600032
Submission Year :	2019
Violation First Reported Date :	02/23/2006
Contaminant Name :	Coliform (TCR)
Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule
Violation Type :	Monitoring, Routine Major (TCR)
Is Health Based :	N
Is Major Violation :	N/R
Severity Indicator Count :	N/R
Public Notification Tier :	3
Address Line 1 :	W6098 Hwy 12, Whitewater, 53190
Address Line 2 :	N/R
Compliance Status :	Returned to Compliance
RTC Date :	07/22/1998
Enforcement Action Description :	State Compliance achieved
Admin Name :	N/R
Email Address :	N/R

Map Id: A1
Direction: ESE
Distance: 0.000 mi.
Actual: 0.000 ft.
Elevation: 0.179 mi. / 944.888 ft.
Relative: Lower

Site Name : WI2651397
HWYS 12 & H
WHITEWATER, WI 53190

Database(s) : [PWS, PWS ENF] ***(cont.)***

Envirosite ID: 6771539
EPA ID: N/R

PWS ENF ***(cont.)***

RTC Enforcement ID :	9800044
Violation ID :	9600033
Submission Year :	2019
Violation First Reported Date :	02/23/2006
Contaminant Name :	Coliform (TCR)
Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule
Violation Type :	Monitoring, Routine Major (TCR)
Is Health Based :	N
Is Major Violation :	N/R
Severity Indicator Count :	N/R
Public Notification Tier :	3
Address Line 1 :	W6098 Hwy 12, Whitewater, 53190
Address Line 2 :	N/R
Compliance Status :	Returned to Compliance
RTC Date :	07/22/1998
Enforcement Action Description :	State Compliance achieved
Admin Name :	N/R
Email Address :	N/R

RTC Enforcement ID :	9800045
Violation ID :	9600034
Submission Year :	2019
Violation First Reported Date :	02/23/2006
Contaminant Name :	Coliform (TCR)
Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule
Violation Type :	Monitoring, Routine Major (TCR)
Is Health Based :	N
Is Major Violation :	N/R
Severity Indicator Count :	N/R
Public Notification Tier :	3
Address Line 1 :	W6098 Hwy 12, Whitewater, 53190
Address Line 2 :	N/R
Compliance Status :	Returned to Compliance
RTC Date :	07/22/1998
Enforcement Action Description :	State Compliance achieved
Admin Name :	N/R
Email Address :	N/R

Map Id: A2
Direction: ESE
Distance: 0.000 mi.
Actual: 0.000 ft.
Elevation: 0.179 mi. / 944.163 ft.
Relative: Lower

Site Name : WI2651397 | LA GRANGE GENERAL STORE
W6098 HWY 12
WHITEWATER, WI 53190

Database(s) : [PWS, PWS ENF]

Envirosite ID: 6639784
EPA ID: N/R

PWS

Facility Address :	W6098 Hwy 12, Whitewater, WI 53190
PWS ID :	WI2651397
PWS Type :	Transient non-community system
PWS Name :	LA GRANGE GENERAL STORE
Activity Status :	Active
Primary Source :	Ground water
Submission Year :	2019
Submission Year Quarter :	2019Q4
Population Served Count :	102
Service Connections Count :	1
Population Category 2 :	<10,000
Population Category 3 :	<=3300
Population Category 4 :	<10K
Population Category 5 :	<=500
Population Category 11 :	101-500
Submission Quarter :	4
Submission Status Code :	Y
First Reported Date :	02/27/1995
Last Reported Date :	12/17/2019
Deactivation Date :	N/R
GW or SW :	Groundwater
Is Grant Eligible :	Y
Is Outstanding Performer :	N/R
Is School or Daycare :	N
Is Source Water Protected :	N/R
Primacy Agency :	Wisconsin
Primacy Type :	State
Org Name :	BETTINGER, MICHAEL
EPA Region :	Region 5
Admin Name :	N/R
Owner Type :	Private
Phone Number :	N/R
Phone Ext Number :	N/R
Alt Phone Number :	N/R
Email Address :	N/R
Fax Number :	N/R
Is Wholesaler :	N
LT2 Schedule Category :	N/R
NPM Candidate :	Y
CDS ID :	N/R
DBPR Schedule Category :	N/R
Outstanding Performer Date :	N/R
Season Begin Date :	01-01
Season End Date :	12-31
Source Water Protection Date :	N/R
Seasonal Startup System :	N/R
Reduced Monitoring Begin Date :	01/01/2016
Reduced Monitoring End Date :	N/R
Reduced RTCR Monitoring :	ANNUAL
Last Date in Agency List :	02/20/2020

PWS ENF

Facility Address :	N/R

Map Id: A2
Direction: ESE
Distance: 0.000 mi.
Actual: 0.000 ft.
Elevation: 0.179 mi. / 944.163 ft.
Relative: Lower

Site Name : WI2651397 | LA GRANGE GENERAL STORE
W6098 HWY 12
WHITEWATER, WI 53190

Database(s) : [PWS, PWS ENF] ***(cont.)***

Envirosite ID: 6639784
EPA ID: N/R

PWS ENF ***(cont.)***

PWS ID :	WI2651397
PWS Name :	LA GRANGE GENERAL STORE
EPA Region :	Region 5
Primacy Agency :	Wisconsin
PWS Type :	Transient non-community system
Primacy Type :	State
Primary Source :	Ground water
Activity Status :	Active
Deactivation Date :	N/R
Owner Type :	Private
Phone Number :	-
Last Date in Agency List :	02/20/2020

Violation Details

RTC Enforcement ID :	0000031
Violation ID :	0000021
Submission Year :	2019
Violation First Reported Date :	12/06/2001
Contaminant Name :	Nitrate
Rule Family :	Inorganic Chemicals
Rule Group :	Chemicals
Rule Name :	Nitrates
Violation Type :	Monitoring, Regular
Is Health Based :	N
Is Major Violation :	Y
Severity Indicator Count :	-
Public Notification Tier :	3
Address Line 1 :	W6098 Hwy 12, Whitewater, 53190
Address Line 2 :	-
Compliance Status :	Returned to Compliance
RTC Date :	06/06/2000
Enforcement Action Description :	State Public Notification requested
Admin Name :	-
Email Address :	-

RTC Enforcement ID :	0300035
Violation ID :	0300028
Submission Year :	2019
Violation First Reported Date :	12/22/2006
Contaminant Name :	Coliform (TCR)
Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule
Violation Type :	Monitoring, Routine Major (TCR)
Is Health Based :	N
Is Major Violation :	-
Severity Indicator Count :	-
Public Notification Tier :	3
Address Line 1 :	W6098 Hwy 12, Whitewater, 53190
Address Line 2 :	-
Compliance Status :	Returned to Compliance
RTC Date :	10/14/2002
Enforcement Action Description :	State Compliance achieved

Map Id: A2
Direction: ESE
Distance: 0.000 mi.
Actual: 0.000 ft.
Elevation: 0.179 mi. / 944.163 ft.
Relative: Lower

Site Name : WI2651397 | LA GRANGE GENERAL STORE
W6098 HWY 12
WHITEWATER, WI 53190

Database(s) : [PWS, PWS ENF] ***(cont.)***

Envirosite ID: 6639784
EPA ID: N/R

PWS ENF ***(cont.)***

Admin Name :	-
Email Address :	-

RTC Enforcement ID :	0300039
Violation ID :	0300030
Submission Year :	2019
Violation First Reported Date :	02/25/2004
Contaminant Name :	Coliform (TCR)
Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule
Violation Type :	Monitoring, Repeat Minor (TCR)
Is Health Based :	N
Is Major Violation :	-
Severity Indicator Count :	-
Public Notification Tier :	3
Address Line 1 :	W6098 Hwy 12, Whitewater, 53190
Address Line 2 :	-
Compliance Status :	Returned to Compliance
RTC Date :	11/14/2002
Enforcement Action Description :	State Compliance achieved
Admin Name :	-
Email Address :	-

RTC Enforcement ID :	0300042
Violation ID :	0300031
Submission Year :	2019
Violation First Reported Date :	03/15/2003
Contaminant Name :	Coliform (TCR)
Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule
Violation Type :	Monitoring, Routine Major (TCR)
Is Health Based :	N
Is Major Violation :	-
Severity Indicator Count :	-
Public Notification Tier :	3
Address Line 1 :	W6098 Hwy 12, Whitewater, 53190
Address Line 2 :	-
Compliance Status :	Returned to Compliance
RTC Date :	09/22/2003
Enforcement Action Description :	State Compliance achieved
Admin Name :	-
Email Address :	-

RTC Enforcement ID :	9800028
Violation ID :	9800019
Submission Year :	2019
Violation First Reported Date :	09/04/1998
Contaminant Name :	Coliform (TCR)
Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule

Map Id: A2
Direction: ESE
Distance: 0.000 mi.
Actual: 0.000 ft.
Elevation: 0.179 mi. / 944.163 ft.
Relative: Lower

Site Name : WI2651397 | LA GRANGE GENERAL STORE
W6098 HWY 12
WHITEWATER, WI 53190

Database(s) : [PWS, PWS ENF] ***(cont.)***

Envirosite ID: 6639784
EPA ID: N/R

PWS ENF ***(cont.)***

Violation Type :	Monitoring, Routine Major (TCR)
Is Health Based :	N
Is Major Violation :	-
Severity Indicator Count :	-
Public Notification Tier :	3
Address Line 1 :	W6098 Hwy 12, Whitewater, 53190
Address Line 2 :	-
Compliance Status :	Returned to Compliance
RTC Date :	06/17/1998
Enforcement Action Description :	State Compliance achieved
Admin Name :	-
Email Address :	-

RTC Enforcement ID :	9800034
Violation ID :	9700014
Submission Year :	2019
Violation First Reported Date :	09/04/1998
Contaminant Name :	Nitrate
Rule Family :	Inorganic Chemicals
Rule Group :	Chemicals
Rule Name :	Nitrates
Violation Type :	Monitoring, Regular
Is Health Based :	N
Is Major Violation :	Y
Severity Indicator Count :	-
Public Notification Tier :	3
Address Line 1 :	W6098 Hwy 12, Whitewater, 53190
Address Line 2 :	-
Compliance Status :	Returned to Compliance
RTC Date :	12/31/1997
Enforcement Action Description :	State Compliance achieved
Admin Name :	-
Email Address :	-

RTC Enforcement ID :	9800043
Violation ID :	9600032
Submission Year :	2019
Violation First Reported Date :	02/23/2006
Contaminant Name :	Coliform (TCR)
Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule
Violation Type :	Monitoring, Routine Major (TCR)
Is Health Based :	N
Is Major Violation :	-
Severity Indicator Count :	-
Public Notification Tier :	3
Address Line 1 :	W6098 Hwy 12, Whitewater, 53190
Address Line 2 :	-
Compliance Status :	Returned to Compliance
RTC Date :	07/22/1998
Enforcement Action Description :	State Compliance achieved
Admin Name :	-
Email Address :	-

Map Id: A2
Direction: ESE
Distance: 0.000 mi.
Actual: 0.000 ft.
Elevation: 0.179 mi. / 944.163 ft.
Relative: Lower

Site Name : WI2651397 | LA GRANGE GENERAL STORE
W6098 HWY 12
WHITEWATER, WI 53190

Database(s) : [PWS, PWS ENF] ***(cont.)***

Envirosite ID: 6639784
EPA ID: N/R

PWS ENF ***(cont.)***

RTC Enforcement ID :	9800044
Violation ID :	9600033
Submission Year :	2019
Violation First Reported Date :	02/23/2006
Contaminant Name :	Coliform (TCR)
Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule
Violation Type :	Monitoring, Routine Major (TCR)
Is Health Based :	N
Is Major Violation :	-
Severity Indicator Count :	-
Public Notification Tier :	3
Address Line 1 :	W6098 Hwy 12, Whitewater, 53190
Address Line 2 :	-
Compliance Status :	Returned to Compliance
RTC Date :	07/22/1998
Enforcement Action Description :	State Compliance achieved
Admin Name :	-
Email Address :	-

RTC Enforcement ID :	9800045
Violation ID :	9600034
Submission Year :	2019
Violation First Reported Date :	02/23/2006
Contaminant Name :	Coliform (TCR)
Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule
Violation Type :	Monitoring, Routine Major (TCR)
Is Health Based :	N
Is Major Violation :	-
Severity Indicator Count :	-
Public Notification Tier :	3
Address Line 1 :	W6098 Hwy 12, Whitewater, 53190
Address Line 2 :	-
Compliance Status :	Returned to Compliance
RTC Date :	07/22/1998
Enforcement Action Description :	State Compliance achieved
Admin Name :	-
Email Address :	-

Map Id: B3
Direction: E
Distance: 0.000 mi.
Actual: 0.000 ft.
Elevation: 0.183 mi. / 963.688 ft.
Relative: Lower

Site Name : WI2651113
W5666 HWY 12
WHITEWATER, WI 53190

Database(s) : [PWS, PWS ENF]

Envirosite ID: 6751061
EPA ID: N/R

PWS

Facility Address :	W5666 HWY 12, WHITEWATER, WI 53190
PWS ID :	WI2651113
PWS Type :	Transient non-community system
PWS Name :	GREENE HOUSE COUNTRY INN
Activity Status :	Inactive
Primary Source :	Ground water
Submission Year :	2019
Submission Year Quarter :	2019Q4
Population Served Count :	25
Service Connections Count :	1
Population Category 2 :	<10,000
Population Category 3 :	<=3300
Population Category 4 :	<10K
Population Category 5 :	<=500
Population Category 11 :	<=100
Submission Quarter :	4
Submission Status Code :	Y
First Reported Date :	05/27/1993
Last Reported Date :	08/20/2005
Deactivation Date :	05/01/1996
GW or SW :	Groundwater
Is Grant Eligible :	N
Is Outstanding Performer :	N/R
Is School or Daycare :	N
Is Source Water Protected :	N/R
Primacy Agency :	Wisconsin
Primacy Type :	State
Org Name :	N/R
EPA Region :	Region 5
Admin Name :	GREENE, LYNN
Owner Type :	Private
Phone Number :	N/R
Phone Ext Number :	N/R
Alt Phone Number :	N/R
Email Address :	N/R
Fax Number :	N/R
Is Wholesaler :	N
LT2 Schedule Category :	N/R
NPM Candidate :	N
CDS ID :	N/R
DBPR Schedule Category :	N/R
Outstanding Performer Date :	N/R
Season Begin Date :	01-01
Season End Date :	12-31
Source Water Protection Date :	N/R
Seasonal Startup System :	N/R
Reduced Monitoring Begin Date :	N/R
Reduced Monitoring End Date :	N/R
Reduced RTCR Monitoring :	N/R
Last Date in Agency List :	02/20/2020

PWS ENF

Facility Address :	N/R

Map Id: B3
Direction: E
Distance: 0.000 mi.
Actual: 0.000 ft.
Elevation: 0.183 mi. / 963.688 ft.
Relative: Lower

Site Name : WI2651113
W5666 HWY 12
WHITEWATER, WI 53190

Database(s) : [PWS, PWS ENF] ***(cont.)***

Envirosite ID: 6751061
EPA ID: N/R

PWS ENF ***(cont.)***

PWS ID :	WI2651113
PWS Name :	GREENE HOUSE COUNTRY INN
EPA Region :	Region 5
Primacy Agency :	Wisconsin
PWS Type :	Transient non-community system
Primacy Type :	State
Primary Source :	Ground water
Activity Status :	Inactive
Deactivation Date :	05/01/1996
Owner Type :	Private
Phone Number :	-
Last Date in Agency List :	02/20/2020

Violation Details

RTC Enforcement ID :	-
Violation ID :	9700002
Submission Year :	2019
Violation First Reported Date :	02/23/2006
Contaminant Name :	Coliform (TCR)
Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule
Violation Type :	Monitoring, Routine Major (TCR)
Is Health Based :	N
Is Major Violation :	-
Severity Indicator Count :	-
Public Notification Tier :	3
Address Line 1 :	W5666 HWY 12, WHITEWATER, 53190
Address Line 2 :	-
Compliance Status :	System Inactive
RTC Date :	05/01/1996
Enforcement Action Description :	State Compliance achieved
Admin Name :	GREENE, LYNN
Email Address :	-

RTC Enforcement ID :	-
Violation ID :	9700003
Submission Year :	2019
Violation First Reported Date :	02/23/2006
Contaminant Name :	Nitrate
Rule Family :	Inorganic Chemicals
Rule Group :	Chemicals
Rule Name :	Nitrates
Violation Type :	Monitoring, Regular
Is Health Based :	N
Is Major Violation :	Y
Severity Indicator Count :	-
Public Notification Tier :	3
Address Line 1 :	W5666 HWY 12, WHITEWATER, 53190
Address Line 2 :	-
Compliance Status :	System Inactive
RTC Date :	05/01/1996
Enforcement Action Description :	State Compliance achieved
Admin Name :	GREENE, LYNN

Map Id: B3
Direction: E
Distance: 0.000 mi.
Actual: 0.000 ft.
Elevation: 0.183 mi. / 963.688 ft.
Relative: Lower

Site Name : WI2651113
W5666 HWY 12
WHITEWATER, WI 53190

Database(s) : [PWS, PWS ENF] ***(cont.)***

Envirosite ID: 6751061
EPA ID: N/R

PWS ENF ***(cont.)***

Email Address :	-
RTC Enforcement ID :	9500002
Violation ID :	9500001
Submission Year :	2019
Violation First Reported Date :	06/07/1997
Contaminant Name :	Nitrate
Rule Family :	Inorganic Chemicals
Rule Group :	Chemicals
Rule Name :	Nitrates
Violation Type :	Monitoring, Regular
Is Health Based :	N
Is Major Violation :	Y
Severity Indicator Count :	-
Public Notification Tier :	3
Address Line 1 :	W5666 HWY 12, WHITEWATER, 53190
Address Line 2 :	-
Compliance Status :	Returned to Compliance
RTC Date :	07/26/1995
Enforcement Action Description :	State Compliance achieved
Admin Name :	GREENE, LYNN
Email Address :	-

Map Id: 4
Direction: WSW
Distance: 0.011 mi.
Actual: 60.072 ft.
Elevation: 0.187 mi. / 989.229 ft.
Relative: Higher

Site Name : 424801088384901
42.8002891, -88.6470476
WI

Database(s) : [NWIS]

Envirosite ID: 21204947
EPA ID: N/R

NWIS

Site Identification Number :	424801088384901
Site Type :	Well
Station Name :	WW-04/16E/18-0727
Agency :	U.S. Geological Survey
District :	Wisconsin
State :	WI
County :	Walworth County
Country :	USA
Land Net Location :	SESWSES18 T004N R016E 4
Name of Location Map :	WHITEWATER
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	995.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Fox
Drainage Basin :	N/R
Topographic Setting :	N/R
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

Map Id: 4
Direction: WSW
Distance: 0.011 mi.
Actual: 60.072 ft.
Elevation: 0.187 mi. / 989.229 ft.
Relative: Higher

Site Name : 424801088384901
42.8002891, -88.6470476
WI

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 21204947
EPA ID: N/R

NWIS ***(cont.)***

Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Unchecked data.
Data-other GW Files :	YYYYNNNN
National Aquifer :	N/R
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	177
Hole Depth :	177
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	1972-10-27
Field Water-Level Data End Date :	1972-10-27
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	42.80028910
Longitude :	-88.64704760
Last Date in Agency List :	03/27/2020

Map Id: B5
Direction: E
Distance: 0.025 mi.
Actual: 131.168 ft.
Elevation: 0.182 mi. / 958.99 ft.
Relative: Lower

Site Name : 424759088345001
42.79973439, -88.5806569
WI

Database(s) : [NWIS]

Envirosite ID: 21195976
EPA ID: N/R

NWIS

Site Identification Number :	424759088345001
Site Type :	Well
Station Name :	WW-04/16E/14-0593
Agency :	U.S. Geological Survey
District :	Wisconsin
State :	WI
County :	Walworth County
Country :	USA
Land Net Location :	SWSWSWS14 T004N R016E 4
Name of Location Map :	LITTLE PRAIRIE
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	958.00

Map Id: B5
Direction: E
Distance: 0.025 mi.
Actual: 131.168 ft.
Elevation: 0.182 mi. / 958.99 ft.
Relative: Lower

Site Name : 424759088345001
42.79973439, -88.5806569
WI

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 21195976
EPA ID: N/R

NWIS ***(cont.)***

Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Fox
Drainage Basin :	N/R
Topographic Setting :	N/R
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YYNYNNNN
National Aquifer :	Sand and gravel aquifers (glaciated regions)
Local Aquifer :	Quaternary System
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	05/28/1968
Water-Quality Data End Date :	05/28/1968
Water-Quality Data Count :	1
Field Water-Level Data Begin Date :	1968-05-28
Field Water-Level Data End Date :	1968-05-28
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	42.79973439
Longitude :	-88.58065690
Last Date in Agency List :	03/27/2020

Map Id: 6
Direction: W
Distance: 0.046 mi.
Actual: 241.831 ft.
Elevation: 0.161 mi. / 848.845 ft.
Relative: Lower

Site Name : 424833088405401
42.8091773, -88.6817706
WI

Database(s) : [NWIS]

Envirosite ID: 21210594
EPA ID: N/R

NWIS

Site Identification Number :	424833088405401
Site Type :	Well
Station Name :	WW-04/15E/14-0322
Agency :	U.S. Geological Survey
District :	Wisconsin

Map Id: 6
Direction: W
Distance: 0.046 mi.
Actual: 241.831 ft.
Elevation: 0.161 mi. / 848.845 ft.
Relative: Lower

Site Name : 424833088405401
42.8091773, -88.6817706
WI

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 21210594
EPA ID: N/R

NWIS ***(cont.)***

State :	WI
County :	Walworth County
Country :	USA
Land Net Location :	NWSENES14 T004N R015E 4
Name of Location Map :	WHITEWATER
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	851.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Rock
Drainage Basin :	N/R
Topographic Setting :	Flat surface
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	19501001
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YYYYNNNN
National Aquifer :	Cambrian-Ordovician aquifer system
Local Aquifer :	Ordovician System
Local Aquifer Type :	N/R
Well Depth :	85.0
Hole Depth :	85.0
Source of Depth Data :	D
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	04/23/1965
Water-Quality Data End Date :	04/23/1965
Water-Quality Data Count :	1
Field Water-Level Data Begin Date :	1950-10-01
Field Water-Level Data End Date :	1950-10-01
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	42.80917730
Longitude :	-88.68177060
Last Date in Agency List :	03/27/2020

Map Id: 7
Direction: SSE
Distance: 0.083 mi.
Actual: 440.814 ft.
Elevation: 0.186 mi. / 979.459 ft.
Relative: Lower

Site Name : 424749088372601
42.7969561, -88.62399139
WI

Database(s) : [NWIS]

Envirosite ID: 21193533
EPA ID: N/R

NWIS

Site Identification Number :	424749088372601
Site Type :	Well
Station Name :	WW-04/16E/20-0346
Agency :	U.S. Geological Survey
District :	Wisconsin
State :	WI
County :	Walworth County
Country :	USA
Land Net Location :	NENENES20 T004N R016E 4
Name of Location Map :	LITTLE PRAIRIE
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	980.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Fox
Drainage Basin :	N/R
Topographic Setting :	Hillside
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	19570501
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YYYYNNNN
National Aquifer :	Sand and gravel aquifers (glaciated regions)
Local Aquifer :	Quaternary System
Local Aquifer Type :	N/R
Well Depth :	146
Hole Depth :	146
Source of Depth Data :	D
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	04/28/1965
Water-Quality Data End Date :	04/28/1965
Water-Quality Data Count :	1
Field Water-Level Data Begin Date :	1957-05-01
Field Water-Level Data End Date :	1957-05-01
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	42.79695610
Longitude :	-88.62399139
Last Date in Agency List :	03/27/2020

Map Id: A8
Direction: ESE
Distance: 0.088 mi.
Actual: 465.879 ft.
Elevation: 0.179 mi. / 944.373 ft.
Relative: Lower

Site Name : WI2650470
N8530 HWY H
WHITEWATER, WI 53190

Database(s) : [PWS, PWS ENF]

Envirosite ID: 6754399
EPA ID: N/R

PWS

Facility Address :	N8530 HWY H, WHITEWATER, WI 53190
PWS ID :	WI2650470
PWS Type :	Transient non-community system
PWS Name :	LAGRANGE TOWN GARAGE & LAGRANGE UNITED M
Activity Status :	Inactive
Primary Source :	Ground water
Submission Year :	2019
Submission Year Quarter :	2019Q4
Population Served Count :	25
Service Connections Count :	1
Population Category 2 :	<10,000
Population Category 3 :	<=3300
Population Category 4 :	<10K
Population Category 5 :	<=500
Population Category 11 :	<=100
Submission Quarter :	4
Submission Status Code :	Y
First Reported Date :	01/28/1981
Last Reported Date :	03/30/2012
Deactivation Date :	01/31/1996
GW or SW :	Groundwater
Is Grant Eligible :	N
Is Outstanding Performer :	N/R
Is School or Daycare :	N
Is Source Water Protected :	N/R
Primacy Agency :	Wisconsin
Primacy Type :	State
Org Name :	N/R
EPA Region :	Region 5
Admin Name :	NASS, CHUCK
Owner Type :	Private
Phone Number :	N/R
Phone Ext Number :	N/R
Alt Phone Number :	N/R
Email Address :	N/R
Fax Number :	N/R
Is Wholesaler :	N
LT2 Schedule Category :	N/R
NPM Candidate :	N
CDS ID :	N/R
DBPR Schedule Category :	N/R
Outstanding Performer Date :	N/R
Season Begin Date :	01-01
Season End Date :	12-31
Source Water Protection Date :	N/R
Seasonal Startup System :	N/R
Reduced Monitoring Begin Date :	N/R
Reduced Monitoring End Date :	N/R
Reduced RTCR Monitoring :	N/R
Last Date in Agency List :	02/20/2020

PWS ENF

Facility Address :	N/R

Map Id: A8
Direction: ESE
Distance: 0.088 mi.
Actual: 465.879 ft.
Elevation: 0.179 mi. / 944.373 ft.
Relative: Lower

Site Name : WI2650470
N8530 HWY H
WHITEWATER, WI 53190

Database(s) : [PWS, PWS ENF] ***(cont.)***

Envirosite ID: 6754399
EPA ID: N/R

PWS ENF ***(cont.)***

PWS ID :	WI2650470
PWS Name :	LAGRANGE TOWN GARAGE & LAGRANGE UNITED M
EPA Region :	Region 5
Primacy Agency :	Wisconsin
PWS Type :	Transient non-community system
Primacy Type :	State
Primary Source :	Ground water
Activity Status :	Inactive
Deactivation Date :	01/31/1996
Owner Type :	Private
Phone Number :	-
Last Date in Agency List :	02/20/2020

Violation Details

RTC Enforcement ID :	9600034
Violation ID :	9600003
Submission Year :	2019
Violation First Reported Date :	03/23/1996
Contaminant Name :	Coliform (TCR)
Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule
Violation Type :	Maximum Contaminant Level Violation, Monthly (TCR)
Is Health Based :	Y
Is Major Violation :	-
Severity Indicator Count :	-
Public Notification Tier :	2
Address Line 1 :	N8530 HWY H, WHITEWATER, 53190
Address Line 2 :	-
Compliance Status :	Returned to Compliance
RTC Date :	01/31/1996
Enforcement Action Description :	State Compliance achieved
Admin Name :	NASS, CHUCK
Email Address :	-

RTC Enforcement ID :	9600035
Violation ID :	9600002
Submission Year :	2019
Violation First Reported Date :	06/16/1998
Contaminant Name :	Nitrate-Nitrite
Rule Family :	Inorganic Chemicals
Rule Group :	Chemicals
Rule Name :	Nitrates
Violation Type :	Maximum Contaminant Level Violation, Average
Is Health Based :	Y
Is Major Violation :	-
Severity Indicator Count :	-
Public Notification Tier :	1
Address Line 1 :	N8530 HWY H, WHITEWATER, 53190
Address Line 2 :	-
Compliance Status :	Returned to Compliance
RTC Date :	01/31/1996
Enforcement Action Description :	State Compliance achieved
Admin Name :	NASS, CHUCK

Map Id: A8
Direction: ESE
Distance: 0.088 mi.
Actual: 465.879 ft.
Elevation: 0.179 mi. / 944.373 ft.
Relative: Lower

Site Name : WI2650470
N8530 HWY H
WHITEWATER, WI 53190

Database(s) : [PWS, PWS ENF] ***(cont.)***

Envirosite ID: 6754399
EPA ID: N/R

PWS ENF ***(cont.)***

Email Address :	-
RTC Enforcement ID :	9600036
Violation ID :	9500001
Submission Year :	2019
Violation First Reported Date :	06/07/1997
Contaminant Name :	Nitrate
Rule Family :	Inorganic Chemicals
Rule Group :	Chemicals
Rule Name :	Nitrates
Violation Type :	Monitoring, Regular
Is Health Based :	N
Is Major Violation :	Y
Severity Indicator Count :	-
Public Notification Tier :	3
Address Line 1 :	N8530 HWY H, WHITEWATER, 53190
Address Line 2 :	-
Compliance Status :	Returned to Compliance
RTC Date :	01/31/1996
Enforcement Action Description :	State Compliance achieved
Admin Name :	NASS, CHUCK
Email Address :	-
RTC Enforcement ID :	9600037
Violation ID :	9600033
Submission Year :	2019
Violation First Reported Date :	02/23/2006
Contaminant Name :	Nitrate
Rule Family :	Inorganic Chemicals
Rule Group :	Chemicals
Rule Name :	Nitrates
Violation Type :	Monitoring, Check/Repeat/Confirmation
Is Health Based :	N
Is Major Violation :	Y
Severity Indicator Count :	-
Public Notification Tier :	3
Address Line 1 :	N8530 HWY H, WHITEWATER, 53190
Address Line 2 :	-
Compliance Status :	Returned to Compliance
RTC Date :	01/31/1996
Enforcement Action Description :	State Compliance achieved
Admin Name :	NASS, CHUCK
Email Address :	-

Map Id: 9
Direction: WNW
Distance: 0.182 mi.
Actual: 963.090 ft.
Elevation: 0.157 mi. / 829.882 ft.
Relative: Lower

Site Name : 424913088413601
42.820288, -88.6934375
WI

Database(s) : [NWIS]

Envirosite ID: 21255357
EPA ID: N/R

NWIS

Site Identification Number :	424913088413601
Site Type :	Well
Station Name :	WW-04/15E/11-0742
Agency :	U.S. Geological Survey
District :	Wisconsin
State :	WI
County :	Walworth County
Country :	USA
Land Net Location :	NWNESWS11 T004N R015E 4
Name of Location Map :	WHITEWATER
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	840.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Rock
Drainage Basin :	N/R
Topographic Setting :	Flat surface
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YYYYNNNN
National Aquifer :	N/R
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	385
Hole Depth :	385
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	1979-05-10
Field Water-Level Data End Date :	1979-05-10
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	42.82028800
Longitude :	-88.69343750
Last Date in Agency List :	03/27/2020

Map Id: 10
Direction: E
Distance: 0.521 mi.
Actual: 2748.490 ft.
Elevation: 0.177 mi. / 936.627 ft.
Relative: Lower

Site Name : WI2650440 | CAMP JUNIPER KNOLL-ON996
W5091 HWY 20 WEST
EAST TROY, WI 53120

Database(s) : [PWS, PWS ENF]

Envirosite ID: 6752145
EPA ID: N/R

PWS

Facility Address :	W5091 HWY 20 WEST, East Troy, WI 53120
PWS ID :	WI2650440
PWS Type :	Transient non-community system
PWS Name :	CAMP JUNIPER KNOLL
Activity Status :	Active
Primary Source :	Ground water
Submission Year :	2019
Submission Year Quarter :	2019Q4
Population Served Count :	400
Service Connections Count :	1
Population Category 2 :	<10,000
Population Category 3 :	<=3300
Population Category 4 :	<10K
Population Category 5 :	<=500
Population Category 11 :	101-500
Submission Quarter :	4
Submission Status Code :	Y
First Reported Date :	01/28/1981
Last Reported Date :	12/17/2019
Deactivation Date :	N/R
GW or SW :	Groundwater
Is Grant Eligible :	Y
Is Outstanding Performer :	N/R
Is School or Daycare :	N
Is Source Water Protected :	N/R
Primacy Agency :	Wisconsin
Primacy Type :	State
Org Name :	KINGERY, WIL
EPA Region :	Region 5
Admin Name :	N/R
Owner Type :	Private
Phone Number :	N/R
Phone Ext Number :	N/R
Alt Phone Number :	N/R
Email Address :	N/R
Fax Number :	N/R
Is Wholesaler :	N
LT2 Schedule Category :	N/R
NPM Candidate :	Y
CDS ID :	N/R
DBPR Schedule Category :	N/R
Outstanding Performer Date :	N/R
Season Begin Date :	05-01
Season End Date :	10-31
Source Water Protection Date :	N/R
Seasonal Startup System :	ALL PRESSURIZED INCLUDING OFFSEASON
Reduced Monitoring Begin Date :	01/01/2016
Reduced Monitoring End Date :	N/R
Reduced RTCR Monitoring :	ANNUAL
Last Date in Agency List :	02/20/2020

PWS ENF

Facility Address :	N/R

Map Id: 10
Direction: E
Distance: 0.521 mi.
Actual: 2748.490 ft.
Elevation: 0.177 mi. / 936.627 ft.
Relative: Lower

Site Name : WI2650440 | CAMP JUNIPER KNOLL-ON996
W5091 HWY 20 WEST
EAST TROY, WI 53120

Database(s) : [PWS, PWS ENF] ***(cont.)***

Envirosite ID: 6752145
EPA ID: N/R

PWS ENF ***(cont.)***

PWS ID :	WI2650440
PWS Name :	CAMP JUNIPER KNOLL
EPA Region :	Region 5
Primacy Agency :	Wisconsin
PWS Type :	Transient non-community system
Primacy Type :	State
Primary Source :	Ground water
Activity Status :	Active
Deactivation Date :	N/R
Owner Type :	Private
Phone Number :	-
Last Date in Agency List :	02/20/2020

Violation Details

RTC Enforcement ID :	-
Violation ID :	0700010
Submission Year :	2019
Violation First Reported Date :	06/03/2011
Contaminant Name :	Public Notice
Rule Family :	Public Notice Rule
Rule Group :	Other
Rule Name :	Public Notice Rule
Violation Type :	Public Notification Violation for NPDWR Violation
Is Health Based :	N
Is Major Violation :	-
Severity Indicator Count :	-
Public Notification Tier :	3
Address Line 1 :	W5091 HWY 20 WEST, East Troy, 53120
Address Line 2 :	-
Compliance Status :	Open
RTC Date :	N/R
Enforcement Action Description :	-
Admin Name :	-
Email Address :	-

RTC Enforcement ID :	-
Violation ID :	0700009
Submission Year :	2019
Violation First Reported Date :	11/13/2007
Contaminant Name :	Public Notice
Rule Family :	Public Notice Rule
Rule Group :	Other
Rule Name :	Public Notice Rule
Violation Type :	Public Notification Violation for NPDWR Violation
Is Health Based :	N
Is Major Violation :	-
Severity Indicator Count :	-
Public Notification Tier :	3
Address Line 1 :	W5091 HWY 20 WEST, East Troy, 53120
Address Line 2 :	-
Compliance Status :	Open
RTC Date :	N/R
Enforcement Action Description :	-

Map Id: 10
Direction: E
Distance: 0.521 mi.
Actual: 2748.490 ft.
Elevation: 0.177 mi. / 936.627 ft.
Relative: Lower

Site Name : WI2650440 | CAMP JUNIPER KNOLL-ON996
W5091 HWY 20 WEST
EAST TROY, WI 53120

Database(s) : [PWS, PWS ENF] ***(cont.)***

Envirosite ID: 6752145
EPA ID: N/R

PWS ENF ***(cont.)***

Admin Name :	-
Email Address :	-

RTC Enforcement ID :	0200011
Violation ID :	0200004
Submission Year :	2019
Violation First Reported Date :	12/22/2006
Contaminant Name :	Coliform (TCR)
Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule
Violation Type :	Monitoring, Routine Major (TCR)
Is Health Based :	N
Is Major Violation :	-
Severity Indicator Count :	-
Public Notification Tier :	3
Address Line 1 :	W5091 HWY 20 WEST, East Troy, 53120
Address Line 2 :	-
Compliance Status :	Returned to Compliance
RTC Date :	10/18/2001
Enforcement Action Description :	State Compliance achieved
Admin Name :	-
Email Address :	-

RTC Enforcement ID :	0600019
Violation ID :	0600007
Submission Year :	2019
Violation First Reported Date :	11/30/2006
Contaminant Name :	Coliform (TCR)
Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule
Violation Type :	Monitoring, Routine Major (TCR)
Is Health Based :	N
Is Major Violation :	-
Severity Indicator Count :	-
Public Notification Tier :	3
Address Line 1 :	W5091 HWY 20 WEST, East Troy, 53120
Address Line 2 :	-
Compliance Status :	Returned to Compliance
RTC Date :	06/13/2006
Enforcement Action Description :	State Compliance achieved
Admin Name :	-
Email Address :	-

RTC Enforcement ID :	0600022
Violation ID :	0600008
Submission Year :	2019
Violation First Reported Date :	11/30/2006
Contaminant Name :	Nitrate
Rule Family :	Inorganic Chemicals
Rule Group :	Chemicals
Rule Name :	Nitrates

Map Id: 10
Direction: E
Distance: 0.521 mi.
Actual: 2748.490 ft.
Elevation: 0.177 mi. / 936.627 ft.
Relative: Lower

Site Name : WI2650440 | CAMP JUNIPER KNOLL-ON996
W5091 HWY 20 WEST
EAST TROY, WI 53120

Database(s) : [PWS, PWS ENF] ***(cont.)***

Envirosite ID: 6752145
EPA ID: N/R

PWS ENF ***(cont.)***

Violation Type :	Monitoring, Regular
Is Health Based :	N
Is Major Violation :	Y
Severity Indicator Count :	-
Public Notification Tier :	3
Address Line 1 :	W5091 HWY 20 WEST, East Troy, 53120
Address Line 2 :	-
Compliance Status :	Returned to Compliance
RTC Date :	06/13/2006
Enforcement Action Description :	State Compliance achieved
Admin Name :	-
Email Address :	-

RTC Enforcement ID :	0900026
Violation ID :	0900011
Submission Year :	2019
Violation First Reported Date :	08/20/2009
Contaminant Name :	Coliform (TCR)
Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule
Violation Type :	Maximum Contaminant Level Violation, Monthly (TCR)
Is Health Based :	Y
Is Major Violation :	-
Severity Indicator Count :	-
Public Notification Tier :	2
Address Line 1 :	W5091 HWY 20 WEST, East Troy, 53120
Address Line 2 :	-
Compliance Status :	Returned to Compliance
RTC Date :	06/29/2009
Enforcement Action Description :	State Public Notif issued
Admin Name :	-
Email Address :	-

RTC Enforcement ID :	9500016
Violation ID :	9500006
Submission Year :	2019
Violation First Reported Date :	12/22/2006
Contaminant Name :	Coliform (TCR)
Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule
Violation Type :	Maximum Contaminant Level Violation, Monthly (TCR)
Is Health Based :	Y
Is Major Violation :	-
Severity Indicator Count :	-
Public Notification Tier :	2
Address Line 1 :	W5091 HWY 20 WEST, East Troy, 53120
Address Line 2 :	-
Compliance Status :	Returned to Compliance
RTC Date :	08/10/1995
Enforcement Action Description :	State Compliance achieved
Admin Name :	-
Email Address :	-

Map Id: 10
Direction: E
Distance: 0.521 mi.
Actual: 2748.490 ft.
Elevation: 0.177 mi. / 936.627 ft.
Relative: Lower

Site Name : WI2650440 | CAMP JUNIPER KNOLL-ON996
W5091 HWY 20 WEST
EAST TROY, WI 53120

Database(s) : [PWS, PWS ENF] ***(cont.)***

Envirosite ID: 6752145
EPA ID: N/R

PWS ENF ***(cont.)***

RTC Enforcement ID :	9900005
Violation ID :	9900002
Submission Year :	2019
Violation First Reported Date :	05/30/1999
Contaminant Name :	Coliform (TCR)
Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule
Violation Type :	Monitoring, Routine Major (TCR)
Is Health Based :	N
Is Major Violation :	-
Severity Indicator Count :	-
Public Notification Tier :	3
Address Line 1 :	W5091 HWY 20 WEST, East Troy, 53120
Address Line 2 :	-
Compliance Status :	Returned to Compliance
RTC Date :	03/01/1999
Enforcement Action Description :	State Public Notification received
Admin Name :	-
Email Address :	-

RTC Enforcement ID :	9900009
Violation ID :	9900003
Submission Year :	2019
Violation First Reported Date :	05/30/1999
Contaminant Name :	Nitrate
Rule Family :	Inorganic Chemicals
Rule Group :	Chemicals
Rule Name :	Nitrates
Violation Type :	Monitoring, Regular
Is Health Based :	N
Is Major Violation :	Y
Severity Indicator Count :	-
Public Notification Tier :	3
Address Line 1 :	W5091 HWY 20 WEST, East Troy, 53120
Address Line 2 :	-
Compliance Status :	Returned to Compliance
RTC Date :	03/01/1999
Enforcement Action Description :	State Public Notification received
Admin Name :	-
Email Address :	-

Map Id: 11
Direction: ESE
Distance: 0.599 mi.
Actual: 3163.418 ft.
Elevation: 0.167 mi. / 880.6 ft.
Relative: Lower

Site Name : 424727088332300
42.79084599, -88.55648959
WI

Database(s) : [NWIS]

Envirosite ID: 21204783
EPA ID: N/R

NWIS

Site Identification Number :	424727088332300
Site Type :	Lake, Reservoir, Impoundment
Station Name :	PLEASANT LAKE NEAR LA GRANGE, WI
Agency :	U.S. Geological Survey
District :	Wisconsin
State :	WI
County :	Walworth County
Country :	USA
Land Net Location :	SW S24 T4N R16E
Name of Location Map :	LITTLE PRAIRIE
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	879
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Fox
Drainage Basin :	N/R
Topographic Setting :	N/R
Flags for the Type of Data Collected:	NANNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	19870508
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	N/R
Data-other GW Files :	YYYYNNNN
National Aquifer :	N/R
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	445513301
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	06/02/1985
Water-Quality Data End Date :	09/26/1990
Water-Quality Data Count :	162
Field Water-Level Data Begin Date :	--
Field Water-Level Data End Date :	--
Field Water-Level Data Count :	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	42.79084599
Longitude :	-88.55648959
Last Date in Agency List :	03/27/2020

Map Id: 12
Direction: ESE
Distance: 0.621 mi.
Actual: 3278.378 ft.
Elevation: 0.176 mi. / 931.539 ft.
Relative: Lower

Site Name : 424721088334900
42.78917927, -88.563712
WI

Database(s) : [NWIS]

Envirosite ID: 21191436
EPA ID: N/R

NWIS

Site Identification Number :	424721088334900
Site Type :	Lake, Reservoir, Impoundment
Station Name :	GLADHURST LANE DETENTION POND NEAR LAUDERDALE, WI
Agency :	U.S. Geological Survey
District :	Wisconsin
State :	WI
County :	Walworth County
Country :	USA
Land Net Location :	SENESES23 T4N R16E 4
Name of Location Map :	LITTLE PRAIRIE
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	930
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Fox
Drainage Basin :	N/R
Topographic Setting :	N/R
Flags for the Type of Data Collected:	NNNANNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNYNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	N/R
Data-other GW Files :	NNNNNNNN
National Aquifer :	N/R
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	445517310
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	07/17/2001
Water-Quality Data End Date :	08/02/2001
Water-Quality Data Count :	4
Field Water-Level Data Begin Date :	--
Field Water-Level Data End Date :	--
Field Water-Level Data Count :	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	42.78917927
Longitude :	-88.56371200
Last Date in Agency List :	03/27/2020

Map Id: 13
Direction: WNW
Distance: 0.664 mi.
Actual: 3508.168 ft.
Elevation: 0.161 mi. / 849.268 ft.
Relative: Lower

Site Name : 424926088421001
42.8238989, -88.7028822
WI

Database(s) : [NWIS]

Envirosite ID: 21193655
EPA ID: N/R

NWIS

Site Identification Number :	424926088421001
Site Type :	Well
Station Name :	WW-04/15E/10-0021
Agency :	U.S. Geological Survey
District :	Wisconsin
State :	WI
County :	Walworth County
Country :	USA
Land Net Location :	SENES10 T004N R015E 4
Name of Location Map :	WHITEWATER
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	850.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Rock
Drainage Basin :	N/R
Topographic Setting :	Hillside
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YYNNNYNN
National Aquifer :	N/R
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	1947-06-11
Field Water-Level Data End Date :	1947-08-31
Field Water-Level Data Count :	2
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	42.82389890
Longitude :	-88.70288220
Last Date in Agency List :	03/27/2020

Map Id: 14
Direction: SE
Distance: 0.814 mi.
Actual: 4299.408 ft.
Elevation: 0.184 mi. / 971.394 ft.
Relative: Lower

Site Name : 424706088364201
42.7850121, -88.6117689
WI

Database(s) : [NWIS]

Envirosite ID: 21207383
EPA ID: N/R

NWIS

Site Identification Number :	424706088364201
Site Type :	Well
Station Name :	WW-04/16E/21-0344
Agency :	U.S. Geological Survey
District :	Wisconsin
State :	WI
County :	Walworth County
Country :	USA
Land Net Location :	SWSWSES21 T004N R016E 4
Name of Location Map :	LITTLE PRAIRIE
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	970.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Fox
Drainage Basin :	N/R
Topographic Setting :	Flat surface
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	19540201
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YYYYNYNN
National Aquifer :	Cambrian-Ordovician aquifer system
Local Aquifer :	Sinnipee Group
Local Aquifer Type :	N/R
Well Depth :	350
Hole Depth :	350
Source of Depth Data :	D
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	04/12/1972
Water-Quality Data End Date :	04/12/1972
Water-Quality Data Count :	1
Field Water-Level Data Begin Date :	1954-02-01
Field Water-Level Data End Date :	1965-11-02
Field Water-Level Data Count :	2
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	42.78501210
Longitude :	-88.61176890
Last Date in Agency List :	03/27/2020

Map Id: 15
Direction: ESE
Distance: 0.835 mi.
Actual: 4407.807 ft.
Elevation: 0.171 mi. / 904.446 ft.
Relative: Lower

Site Name : 05544793
42.78612377, -88.5645454
WI

Database(s) : [NWIS]

Envirosite ID: 21190478
EPA ID: N/R

NWIS

Site Identification Number :	05544793
Site Type :	Stream
Station Name :	UNNAMED LAUDERDALE LKS TRIB #2 NEAR LAUDERDALE, WI
Agency :	U.S. Geological Survey
District :	Wisconsin
State :	WI
County :	Walworth County
Country :	USA
Land Net Location :	SE SE S23 T4N R16E 4
Name of Location Map :	LITTLE PRAIRIE
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	890
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Fox
Drainage Basin :	N/R
Topographic Setting :	N/R
Flags for the Type of Data Collected:	INNINNNNNNNNNNNNNNNNNNNNNNNNI
Flags for Instruments at Site :	NNNNNNNNNYNYNNNNYNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	.19
Contributing Drainage Area :	N/R
Data Reliability :	N/R
Data-other GW Files :	NNNNNNNN
National Aquifer :	N/R
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	445517310
Real-Time Data Flag :	1
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	02/20/1994
Water-Quality Data End Date :	08/05/2000
Water-Quality Data Count :	4
Field Water-Level Data Begin Date :	--
Field Water-Level Data End Date :	--
Field Water-Level Data Count :	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	42.78612377
Longitude :	-88.56454540
Last Date in Agency List :	03/27/2020

Map Id: 16
Direction: W
Distance: 0.872 mi.
Actual: 4603.968 ft.
Elevation: 0.157 mi. / 827.946 ft.
Relative: Lower

Site Name : 05427000
42.8172323, -88.7101046
WI

Database(s) : [NWIS]

Envirosite ID: 21189374
EPA ID: N/R

NWIS

Site Identification Number :	05427000
Site Type :	Stream
Station Name :	WHITEWATER CR AT WILLIS RAY RD NEAR WHITEWATER, WI
Agency :	U.S. Geological Survey
District :	Wisconsin
State :	WI
County :	Walworth County
Country :	USA
Land Net Location :	NE SW S10 T4N R15E 4
Name of Location Map :	WHITEWATER
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	825
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Rock
Drainage Basin :	N/R
Topographic Setting :	N/R
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNI
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	22.80
Contributing Drainage Area :	16.00
Data Reliability :	N/R
Data-other GW Files :	NNNNNNNN
National Aquifer :	N/R
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	05/28/1927
Peak-Streamflow Data End Date :	04/14/1981
Peak-Streamflow Data Count :	13
Water-Quality Data Begin Date :	06/22/1978
Water-Quality Data End Date :	10/08/1981
Water-Quality Data Count :	41
Field Water-Level Data Begin Date :	--
Field Water-Level Data End Date :	--
Field Water-Level Data Count :	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	42.81723230
Longitude :	-88.71010460
Last Date in Agency List :	03/27/2020

Map Id: C17
Direction: ESE
Distance: 0.925 mi.
Actual: 4883.758 ft.
Elevation: 0.173 mi. / 913.268 ft.
Relative: Lower

Site Name : 05544790
42.7858459, -88.57010109
WI

Database(s) : [NWIS]

Envirosite ID: 21190846
EPA ID: N/R

NWIS

Site Identification Number :	05544790
Site Type :	Stream
Station Name :	UNNAMED LAUDERDALE LKS TRIB #3 NEAR LAUDERDALE, WI
Agency :	U.S. Geological Survey
District :	Wisconsin
State :	WI
County :	Walworth County
Country :	USA
Land Net Location :	SW SE S23 T4N R16E
Name of Location Map :	LITTLE PRAIRIE
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	N/R
Method Altitude Determined :	N/R
Altitude Accuracy :	N/R
Altitude Datum :	N/R
Hydrologic Unit :	Upper Fox
Drainage Basin :	N/R
Topographic Setting :	N/R
Flags for the Type of Data Collected:	NNNANNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	N/R
Data-other GW Files :	NNNNNNNN
National Aquifer :	N/R
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	445517310
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Data Begin Date :	N/R
Field Water-Level Data End Date :	N/R
Field Water-Level Data Count :	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	42.78584590
Longitude :	-88.57010109
Last Date in Agency List :	03/27/2020

Map Id: C18
Direction: ESE
Distance: 0.983 mi.
Actual: 5191.009 ft.
Elevation: 0.175 mi. / 922.388 ft.
Relative: Lower

Site Name : 424707088341600
42.78529037, -88.5712122
WI

Database(s) : [NWIS]

Envirosite ID: 21191442
EPA ID: N/R

NWIS

Site Identification Number :	424707088341600
Site Type :	Well
Station Name :	LAUDERDALE LAKES PIEZOMETER NO. 6
Agency :	U.S. Geological Survey
District :	Wisconsin
State :	WI
County :	Walworth County
Country :	USA
Land Net Location :	NWNES26 T4N R16E 4
Name of Location Map :	LITTLE PRAIRIE
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	884
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Fox
Drainage Basin :	N/R
Topographic Setting :	N/R
Flags for the Type of Data Collected:	NINNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	NNNNNNNN
National Aquifer :	Sand and gravel aquifers (glaciated regions)
Local Aquifer :	Sand and Gravel Aquifer
Local Aquifer Type :	Unconfined single aquifer
Well Depth :	5.6
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	445517310
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	03/16/1994
Water-Quality Data End Date :	11/01/1994
Water-Quality Data Count :	7
Field Water-Level Data Begin Date :	--
Field Water-Level Data End Date :	--
Field Water-Level Data Count :	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	42.78529037
Longitude :	-88.57121220
Last Date in Agency List :	03/27/2020

RADON DATA:

STATE SOURCE: No Available Data

FEDERAL AREA RADON INFORMATION FOR: No Available Data

NUMBER OF SAMPLE SITES: No Available Data

HIST PWS ENF
Historical Public Water Supply locations with Enforcement Violations
Environmental Protection Agency
(800) 426-4791
List of Safe Drinking Water Information Systems (SDWIS) with enforcement violations that are no longer in current agency list.

NWIS
National Water Information Systems
United States Geological Society
(703) 648-5953
Information on all water resources for the United States. This database contains all current and historical data for the nation.

PWS
Public Water Supply
Environmental Protection Agency
(800) 426-4791
Safe drinking water information Systems

PWS ENF
Public Water Supply locations with Enforcement Violations
Environmental Protection Agency
(800) 426-4791
Safe drinking water information Systems with enforcememnt violations

FLOOD Q3
Flood data
Environmental Protection Agency
(202) 566-1667
Q3 Flood Data

HYDROLOGIC UNIT
Hydrologic Unit Maps
USGS
The United States Geological Survey created a hierarchical system of hydrologic units originally called regions, sub-regions, accounting units, and cataloging units. Each unit was assigned a unique Hydrologic Unit Code (HUC). As first implemented the system had 21 regions, 221 subregions, 378 accounting units, and 2,264 cataloging units. Over time the system was changed and expanded. As of 2010 there are six levels in the hierarchy, represented by hydrologic unit codes from 2 to 12 digits long, called regions, subregions, basins, subbasins, watersheds, and subwatersheds. The table below describes the system's hydrologic unit levels and their characteristics, along with example names and codes.

WETLANDS NWI
National Wetland Inventory
U.S. Fish and Wildlife Service
(703) 358-2171
Wetland Inventory for the United States

SSURGO
Detailed Soil Data Map
Natural Resources Conservation Service: U.S. Department of Agriculture
(202) 690-4985
Detailed Soil Data Map

STATSGO & MUI
General Soil Data Map
Natural Resources Conservation Service: U.S. Department of Agriculture
(202) 690-4985
General Soil Data Map

USGS GEOLOGIC AGE
USGS Digital Data Series DDS
Natural Resources Conservation Service: U.S. Department of Agriculture
(202) 690-4985
USGS Digital Data Series DDS: Geologic Age and Rock Stratigraphic Unit

RADON
National Radon Database
USGS
703-605-6008
A study of the EPA/State Residential Radon Survey and the National Residential Radon Survey.

AIRPORT FACILITIES
Airport landing facilities
Federal Aviation Administration
(866) 835-5322
Airport landing facilities

BASINS
Better Assessment Science Integrating point & Non-point Sources
U.S. Environmental Protection Agency
855-246-3642
Integrated geographical information system national watershed data and environmental assessment known as Better Assessment Science Integrating point & Non-point Sources

DIGITAL OBSTACLE
Obstacles of interest to aviation users
Federal Aviation Administration
855-379-6518
The Digital Obstacle File describes all known obstacles of interest to aviation users in the U.S. with limited coverage of the Pacific the Caribbean Canada and Mexico. The obstacles are assigned unique numerical identifiers; accuracy codes and listed in order of ascending latitude within each state or area by FAA Region.

EPICENTERS
National Geographical Data Center
National Geographical Data Center
303-497-6826
List of recent and historic earthquakes and information.

FLOOD DFIRM
National Flood Hazard Layer Database
Federal Emergency Management Agency
The National Flood Hazard Layer Database (NFHL) is a computer database that contains the flood hazard map information from FEMAs Flood Map Modernization program. These map data are from Digital Flood Insurance Rate Map (DFIRM) databases and Letters of Map Revision.

Appendix C

Photographs

PHOTOGRAPHS

Appendix C **Phase I HMA**

WisDOT	**USH 12 (Cox Road to STH 20/67)**	**1940100191**
Photo no. 1	Date 11/5/2020	
USH 12 Looking East		

WisDOT	**USH 12 (Cox Road to STH 20/67)**	**1940100191**
Photo no. 2	Date 11/5/2020	
USH 12 Looking East		

WisDOT	USH 12 (Cox Road to STH 20/67)	1940100191
Photo no. 3	Date 11/5/2020	
USH 12 Looking East		



WisDOT	USH 12 (Cox Road to STH 20/67)	1940100191
Photo no. 4	Date 11/5/2020	
USH 12 Looking West		



WisDOT	USH 12 (Cox Road to STH 20/67)	1940100191
Photo no. 5	Date 11/5/2020	
Verizon La Grange W7586 USH 12		



WisDOT	USH 12 (Cox Road to STH 20/67)	1940100191
Photo no. 6	Date 11/5/2020	
Johns Welding & Radiator W7296 USH 12		



WisDOT	USH 12 (Cox Road to STH 20/67)	1940100191

Photo no.	Date
7	11/5/2020

Northern Natural Gas-Bluff Crk We Interconnect / Bluff Creek Gate Station

W7295 USH 12



WisDOT	USH 12 (Cox Road to STH 20/67)	1940100191

Photo no.	Date
8	11/5/2020

W6628 USH 12



WisDOT	USH 12 (Cox Road to STH 20/67)	1940100191
Photo no. 9	Date 11/5/2020	
La Grange Asphalt Plant - C10 W6615 USH 12		

WisDOT	USH 12 (Cox Road to STH 20/67)	1940100191
Photo no. 10	Date 11/5/2020	
La Grange General Store W6098 USH 12		

WisDOT	USH 12 (Cox Road to STH 20/67)	1940100191
Photo no. 11	Date 11/5/2020	
Darrs Service W6071 USH 12		



WisDOT	USH 12 (Cox Road to STH 20/67)	1940100191
Photo no. 12	Date 11/5/2020	
Sylvester Obremski W5890 USH 12		



Appendix D

WisDOT Site Summary & Relevant Summary Information for Verizon La Grange

WisDOT Phase 1 Hazardous Materials Assessment Site Summary

(rev. 11/11/2011)

WisDOT Project ID: 3130-03-01
Highway/Street: USH 12
Termini/Limits: Cox Road to STH 20/67
County: Walworth

Property Information:
Site Name(s): Verizon La Grange
DOT parcel number (if known):
Property Address: W7586 USH 12
Owner's Name: Ralph A Giorno
Owner's Address: W7596 HWY 12
Owner's Phone: Not Provided
Current Land Use: Farmstead
Past Land Use: Farmstead

Real Estate Requirements:
☒None ☐Total take ☐Strip acquisition of feet
☐Temporary Limited Easement (TLE)
☐Permanent Limited Easement (PLE)
☐ Other (describe)

Construction Requirements: Not yet known
☐ Excavation within current right of way to feet
☐ Excavation within proposed right of way to feet
☐ Excavation within easement to feet
☐ Public or private utility or sanitary or storm sewer installation or excavation to feet

Information from database searches and interviews:
Department of Safety and Professional Services (DSPS)
- ☒ site has registered tanks ☒ASTs ☐USTs
- ☒ tanks are currently in use
- ☐ tanks are abandoned date:
- Tank contents:
  - ☐ Leaded gasoline ☐ Unleaded gasoline ☐ Fuel Oil ☒ Diesel
  - ☐ Kerosene ☐ Unknown ☐ Other (describe)
- ☐ site is a DSPS administered LUST site; DCOMM ID number:
- ☐ site is a closed DSPS LUST site; closure date:

Department of Natural Resources (DNR)
- ☐ site is a DNR administered LUST site; BRRTS number:
- ☐ site is a DNR administered ERP site; BRRTS number:
- ☐ site is a closed ☐LUST ☐ERP site; closure date:
- ☐ site is a landfill
- ☐ site is an abandoned waste disposal site
- ☐ site is a hazardous waste generator
- ☐ Other (please describe)

Sanborn Maps: site is a on map dated . Comments: No Coverage
WisDOT historic plan sets: site is a on project dated . Comments:
Business directories: Not listed
Comments: One 210-gallon diesel fuel AST is listed as in use.

A check in a checkbox indicates a positive or "yes" response.

Aerial photos: 1940-2015 Comments:
☐ Contamination discovered at feet during utility or other excavation in the area. Indicate location on site map.
Interview Information or other comments:

Visual Evidence of Potential Contamination: (include additional information in space provided)
☒ No evidence of tanks
☐ USTs ☐ ASTs - Location, number and condition of tanks, contents, comments:
Location in relationship to current right of way: ☐ map attached
Location in relationship to proposed right of way: ☐ map attached
☐ Drums ☐Stained soils ☐Odor ☐Sheen on surface water ☐Areas of excavation
☐ Areas of fill ☐Stressed vegetation ☐ Pond(s) ☐ Basins/sumps ☐ Monitoring wells
☐ Soil borings
Comments:

Potential for Contaminant Migration: (attach supporting documentation such as plume maps, summaries of site investigation or closure reports).
☐ Property is a potential source of contamination
☐ Adjacent property is a potential source of contamination. Include site name or BRRTS number if known, describe location, include contaminant type and any additional information.
☐ Contaminated soil known to be within proposed right of way from feet to feet below ground surface
☐ Contaminated groundwater known to be within proposed right of way at feet below ground surface.
☐ Contaminated soil or groundwater within existing right of way. Attach copy of most recent investigation and plume maps.

Attachments – required
☒ Site photographs and a site map showing areas of concern
☐ Plat map showing parcel and any proposed areas of acquisition or easement
☒ Historic aerial photos of site - clearly outline site
☐ Historic WisDOT or other as-builts and plat maps - clearly outline site
☐ Plume maps for known contamination. Indicate existing or proposed right of way where applicable.

Recommendations
☒ No additional hazardous materials investigation is required.
☐ If construction or real estate requirements change, evaluation of need for further investigation will be necessary.
☐ Information is sufficient to use Standard Special Provisions. Copy of completed Standard Special Provision is attached.
☐ Conduct additional investigation
- ☐ Phase 2 (determine if contamination is present)
- ☐ Phase 2.5 (determine extent of contamination within existing R/W only)
- ☐ Phase 3 (determine full extent of contamination prior to acquisition)
- ☐ Phase 4 (remediate site)
- ☐ Other (describe)

Prepared by: Andrew Cawrse of Ramboll
Recommendations accepted by (name and title): on

Signature: Andrew Cawrse

A check in a checkbox indicates a positive or "yes" response.

Appendix E

WisDOT Site Summary & Relevant Summary Information for Johns Welding & Radiator

WisDOT Phase 1 Hazardous Materials Assessment Site Summary

(rev. 11/11/2011)

WisDOT Project ID: 3130-03-01
Highway/Street: USH 12
Termini/Limits: Cox Road to STH 20/67
County: Walworth

Property Information:

Site Name(s): Johns Welding & Radiator
DOT parcel number (if known):
Property Address: W7296 USH 12
Owner's Name: Jordon M Green
Owner's Address: W7296 HWY 12
Owner's Phone: Not Provided
Current Land Use: Residence
Past Land Use: Residence

Real Estate Requirements:

☒None ☐Total take ☐Strip acquisition of feet
☐Temporary Limited Easement (TLE)
☐Permanent Limited Easement (PLE)
☐ Other (describe)

Construction Requirements: Not yet known

☐ Excavation within current right of way to feet
☐ Excavation within proposed right of way to feet
☐ Excavation within easement to feet
☐ Public or private utility or sanitary or storm sewer installation or excavation to feet

Information from database searches and interviews:

Department of Safety and Professional Services (DSPS)

- ☐ site has registered tanks ☐ASTs ☐USTs
- ☐ tanks are currently in use
- ☐ tanks are abandoned date:
- Tank contents:
  - ☐ Leaded gasoline ☐ Unleaded gasoline ☐ Fuel Oil ☐ Diesel
  - ☐ Kerosene ☐ Unknown ☐ Other (describe)
- ☐ site is a DSPS administered LUST site; DCOMM ID number:
- ☐ site is a closed DSPS LUST site; closure date:

Department of Natural Resources (DNR)

- ☐ site is a DNR administered LUST site; BRRTS number:
- ☐ site is a DNR administered ERP site; BRRTS number:
- ☐ site is a closed ☐LUST ☐ERP site; closure date:
- ☐ site is a landfill
- ☐ site is an abandoned waste disposal site
- ☐ site is a hazardous waste generator
- ☐ Other (please describe)

Sanborn Maps: site is a on map dated . Comments: No Coverage
WisDOT historic plan sets: site is a on project dated . Comments:
Business directories: Not listed
Comments: The property is in the SHWIMS database.

A check in a checkbox indicates a positive or "yes" response.

Aerial photos: 1940-2015 Comments:
☐ Contamination discovered at feet during utility or other excavation in the area. Indicate location on site map.
Interview Information or other comments:

Visual Evidence of Potential Contamination: (include additional information in space provided)
☒ No evidence of tanks
☐ USTs ☐ ASTs - Location, number and condition of tanks, contents, comments:
Location in relationship to current right of way: ☐ map attached
Location in relationship to proposed right of way: ☐ map attached
☐ Drums ☐Stained soils ☐Odor ☐Sheen on surface water ☐Areas of excavation
☐ Areas of fill ☐Stressed vegetation ☐ Pond(s) ☐ Basins/sumps ☐ Monitoring wells
☐ Soil borings
Comments:

Potential for Contaminant Migration: (attach supporting documentation such as plume maps, summaries of site investigation or closure reports).
☐ Property is a potential source of contamination
☐ Adjacent property is a potential source of contamination. Include site name or BRRTS number if known, describe location, include contaminant type and any additional information.
☐ Contaminated soil known to be within proposed right of way from feet to feet below ground surface
☐ Contaminated groundwater known to be within proposed right of way at feet below ground surface.
☐ Contaminated soil or groundwater within existing right of way. Attach copy of most recent investigation and plume maps.

Attachments – required
☒ Site photographs and a site map showing areas of concern
☐ Plat map showing parcel and any proposed areas of acquisition or easement
☒ Historic aerial photos of site - clearly outline site
☐ Historic WisDOT or other as-builts and plat maps - clearly outline site
☐ Plume maps for known contamination. Indicate existing or proposed right of way where applicable.

Recommendations
☒ No additional hazardous materials investigation is required.
☐ If construction or real estate requirements change, evaluation of need for further investigation will be necessary.
☐ Information is sufficient to use Standard Special Provisions. Copy of completed Standard Special Provision is attached.
☐ Conduct additional investigation
- ☐ Phase 2 (determine if contamination is present)
- ☐ Phase 2.5 (determine extent of contamination within existing R/W only)
- ☐ Phase 3 (determine full extent of contamination prior to acquisition)
- ☐ Phase 4 (remediate site)
- ☐ Other (describe)

Prepared by: Andrew Cawrse of Ramboll
Recommendations accepted by (name and title): on

Signature: Andrew Cawrse

A check in a checkbox indicates a positive or "yes" response.

Appendix F

WisDOT Site Summary & Relevant Summary Information for Northern Natural Gas-Bluff Crk We Interconnect / Bluff Creek Gate Station

WisDOT Phase 1 Hazardous Materials Assessment Site Summary

(rev. 11/11/2011)

WisDOT Project ID: 3130-03-01
Highway/Street: USH 12
Termini/Limits: Cox Road to STH 20/67
County: Walworth

Property Information:

Site Name(s): Northern Natural Gas-Bluff Crk We Interconnect / Bluff Creek Gate Station
DOT parcel number (if known):
Property Address: W7295 USH 12
Owner's Name: Guardian Pipeline LLC
Owner's Address: 330 Town Center Dr, Dearborn, MI
Owner's Phone: Not Provided
Current Land Use: Pipeline facility
Past Land Use: Vacant

Real Estate Requirements:

☒None ☐Total take ☐Strip acquisition of feet
☐Temporary Limited Easement (TLE)
☐Permanent Limited Easement (PLE)
☐ Other (describe)

Construction Requirements: Not yet known

☐ Excavation within current right of way to feet
☐ Excavation within proposed right of way to feet
☐ Excavation within easement to feet
☐ Public or private utility or sanitary or storm sewer installation or excavation to feet

Information from database searches and interviews:

Department of Safety and Professional Services (DSPS)

- ☐ site has registered tanks ☐ASTs ☐USTs
- ☐ tanks are currently in use
- ☐ tanks are abandoned date:
- Tank contents:
  - ☐ Leaded gasoline ☐ Unleaded gasoline ☐ Fuel Oil ☐ Diesel
  - ☐ Kerosene ☐ Unknown ☐ Other (describe)
- ☐ site is a DSPS administered LUST site; DCOMM ID number:
- ☐ site is a closed DSPS LUST site; closure date:

Department of Natural Resources (DNR)

- ☐ site is a DNR administered LUST site; BRRTS number:
- ☐ site is a DNR administered ERP site; BRRTS number:
- ☐ site is a closed ☐LUST ☐ERP site; closure date:
- ☐ site is a landfill
- ☐ site is an abandoned waste disposal site
- ☐ site is a hazardous waste generator
- ☐ Other (please describe)

Sanborn Maps: site is a on map dated . Comments: No Coverage
WisDOT historic plan sets: site is a on project dated . Comments:
Business directories: Not listed
Comments: The property is in the RCRA-NONGEN, FRS, ECHO, SHWIMS, and T2 databases.

A check in a checkbox indicates a positive or "yes" response.

Aerial photos: 1940-2015 Comments:
☐ Contamination discovered at feet during utility or other excavation in the area. Indicate location on site map.
Interview Information or other comments:

Visual Evidence of Potential Contamination: (include additional information in space provided)
☒ No evidence of tanks
☐ USTs ☐ ASTs - Location, number and condition of tanks, contents, comments:
Location in relationship to current right of way: ☐ map attached
Location in relationship to proposed right of way: ☐ map attached
☐ Drums ☐Stained soils ☐Odor ☐Sheen on surface water ☐Areas of excavation
☐ Areas of fill ☐Stressed vegetation ☐ Pond(s) ☐ Basins/sumps ☐ Monitoring wells
☐ Soil borings
Comments:

Potential for Contaminant Migration: (attach supporting documentation such as plume maps, summaries of site investigation or closure reports).
☐ Property is a potential source of contamination
☐ Adjacent property is a potential source of contamination. Include site name or BRRTS number if known, describe location, include contaminant type and any additional information.
☐ Contaminated soil known to be within proposed right of way from feet to feet below ground surface
☐ Contaminated groundwater known to be within proposed right of way at feet below ground surface.
☐ Contaminated soil or groundwater within existing right of way. Attach copy of most recent investigation and plume maps.

Attachments – required
☒ Site photographs and a site map showing areas of concern
☐ Plat map showing parcel and any proposed areas of acquisition or easement
☒ Historic aerial photos of site - clearly outline site
☐ Historic WisDOT or other as-builts and plat maps - clearly outline site
☐ Plume maps for known contamination. Indicate existing or proposed right of way where applicable.

Recommendations
☒ No additional hazardous materials investigation is required.
☐ If construction or real estate requirements change, evaluation of need for further investigation will be necessary.
☐ Information is sufficient to use Standard Special Provisions. Copy of completed Standard Special Provision is attached.
☐ Conduct additional investigation
☐ Phase 2 (determine if contamination is present)
☐ Phase 2.5 (determine extent of contamination within existing R/W only)
☐ Phase 3 (determine full extent of contamination prior to acquisition)
☐ Phase 4 (remediate site)
☐ Other (describe)
Prepared by: Andrew Cawrse of Ramboll
Recommendations accepted by (name and title): on

Signature: Andrew Cawrse

A check in a checkbox indicates a positive or "yes" response.

Appendix G

WisDOT Site Summary & Relevant Summary Information for W6628 USH 12

WisDOT Phase 1 Hazardous Materials Assessment Site Summary

(rev. 11/11/2011)

WisDOT Project ID: 3130-03-01
Highway/Street: USH 12
Termini/Limits: Cox Road to STH 20/67
County: Walworth

Property Information:

Site Name(s): W6628 USH 12
DOT parcel number (if known):
Property Address: W6628 USH 12
Owner's Name: Arvelig Acres Ltd
Owner's Address: 937 W South St, Whitewater
Owner's Phone: Not Provided
Current Land Use: Farmstead
Past Land Use: Farmstead

Real Estate Requirements:

☒None ☐Total take ☐Strip acquisition of feet
☐Temporary Limited Easement (TLE)
☐Permanent Limited Easement (PLE)
☐ Other (describe)

Construction Requirements: Not yet known

☐ Excavation within current right of way to feet
☐ Excavation within proposed right of way to feet
☐ Excavation within easement to feet
☐ Public or private utility or sanitary or storm sewer installation or excavation to feet

Information from database searches and interviews:

Department of Safety and Professional Services (DSPS)

- ☐ site has registered tanks ☐ASTs ☐USTs
- ☐ tanks are currently in use
- ☐ tanks are abandoned date:
- Tank contents:
  - ☐ Leaded gasoline ☐ Unleaded gasoline ☐ Fuel Oil ☐ Diesel
  - ☐ Kerosene ☐ Unknown ☐ Other (describe)
- ☐ site is a DSPS administered LUST site; DCOMM ID number:
- ☐ site is a closed DSPS LUST site; closure date:

Department of Natural Resources (DNR)

- ☐ site is a DNR administered LUST site; BRRTS number:
- ☐ site is a DNR administered ERP site; BRRTS number:
- ☐ site is a closed ☐LUST ☐ERP site; closure date:
- ☐ site is a landfill
- ☐ site is an abandoned waste disposal site
- ☐ site is a hazardous waste generator
- ☐ Other (please describe)

Sanborn Maps: site is a on map dated . Comments: No Coverage
WisDOT historic plan sets: site is a on project dated . Comments:
Business directories: Residence
Comments: A SPILLS case (BRRTS Activity No. 04-65-583255) was opened January 23, 2019 when approximately 60 gallons of diesel fuel spilled onto the snow on the side of USH 12 following a truck accident. The impacted snow was removed and the SPILLS case was closed March 19, 2019.

A check in a checkbox indicates a positive or "yes" response.

Aerial photos: 1940-2015 Comments:
☐ Contamination discovered at feet during utility or other excavation in the area. Indicate location on site map.
Interview Information or other comments:

Visual Evidence of Potential Contamination: (include additional information in space provided)
☒ No evidence of tanks
☐ USTs ☐ ASTs - Location, number and condition of tanks, contents, comments:
Location in relationship to current right of way: ☐ map attached
Location in relationship to proposed right of way: ☐ map attached
☐ Drums ☐Stained soils ☐Odor ☐Sheen on surface water ☐Areas of excavation
☐ Areas of fill ☐Stressed vegetation ☐ Pond(s) ☐ Basins/sumps ☐ Monitoring wells
☐ Soil borings
Comments:

Potential for Contaminant Migration: (attach supporting documentation such as plume maps, summaries of site investigation or closure reports).
☐ Property is a potential source of contamination
☐ Adjacent property is a potential source of contamination. Include site name or BRRTS number if known, describe location, include contaminant type and any additional information.
☐ Contaminated soil known to be within proposed right of way from feet to feet below ground surface
☐ Contaminated groundwater known to be within proposed right of way at feet below ground surface.
☐ Contaminated soil or groundwater within existing right of way. Attach copy of most recent investigation and plume maps.

Attachments – required
☒ Site photographs and a site map showing areas of concern
☐ Plat map showing parcel and any proposed areas of acquisition or easement
☒ Historic aerial photos of site - clearly outline site
☐ Historic WisDOT or other as-builts and plat maps - clearly outline site
☐ Plume maps for known contamination. Indicate existing or proposed right of way where applicable.

Recommendations
☒ No additional hazardous materials investigation is required.
☐ If construction or real estate requirements change, evaluation of need for further investigation will be necessary.
☐ Information is sufficient to use Standard Special Provisions. Copy of completed Standard Special Provision is attached.
☐ Conduct additional investigation
☐ Phase 2 (determine if contamination is present)
☐ Phase 2.5 (determine extent of contamination within existing R/W only)
☐ Phase 3 (determine full extent of contamination prior to acquisition)
☐ Phase 4 (remediate site)
☐ Other (describe)
Prepared by: Andrew Cawrse of Ramboll
Recommendations accepted by (name and title): on

Signature: Andrew Cawrse

A check in a checkbox indicates a positive or "yes" response.

Wisconsin Department of Natural Resources

Environmental Cleanup & Brownfields Redevelopment

BRRTS on the Web

Click the Location Name or FID below to view Location Details page for this Activity. Other Activities, if present, may be accessed from Location Details.

Basic Search >> **04-65-583255 Activity Details**

04-65-583255 FORTUNE TRANSPORTATION SPILL

CLOSED SPILL

Location Name (Click Location Name or FID to View Location Details)			County	WDNR Region
W6628 USH 12			WALWORTH	SOUTHEAST
Address			**Municipality**	
W6628 USH 12			LA GRANGE	
PLSS Description	**Latitude**	**Longitude**	**Google Maps**	**RR Sites Map**
Additional Location Description			**Size (Acres)**	**Facility ID**
DITCH LINE			UNKNOWN	NONE

Jurisdiction	PECFA No.	EPA Cerclis ID	Start Date	End Date	Last Action
DNR RR			2019-01-23	2019-03-19	2019-03-19

Characteristics

PECFA Tracked?	EPA NPL Site?	EPA Superfund?	PECFA Funds Eligible?	Above Ground Tank?	Drycleaner?	Co-Contamination?	WI DOT Site?	COs Apply?
No	No	No	No	No	No	No	No	No

Actions

Place Cursor Over Action Code to View Description

Date	Code	Name	Comment
2019-01-23	1	Spill Incident Occurred	
2019-01-24	5	Notification of Hazardous Substance Spill	
2019-03-19	11	Spill Activity Closed	

Other Documents and Images

Not Linked to Actions Above

Click File Name to Download or Open

Records related to the site are documents that were available at the time the scanned paper or electronic file was uploaded. Records withheld by the department due to confidentiality, attorney-client privilege, and other sensitive records, as well as lab data, may not be included. Additional records associated with the site may or may not be accessible through an open records request through DNR or another state agency (see jurisdiction above).

Category	File Name or URL Description
Spill Documentation	20190124SE651_Site_File.pdf

Spill Information

Incident Date	Reported Date	Investigator	Location Type
01/23/2019	01/24/2019	WARDEN MIKE KATZ	Roadway (Public Road/Highway/Street/Alley/ROW)

Cause: SEMI HIT ELECTRIC POLE

Comment: 1/24/19: NEUMANN SPOKE WITH DNR WARDEN MIKE KATZENBERG. MIKE INDICATED THAT CLEANUP COMPANY REMOVED IMPACTED SNOW AFTER THE ACCIDENT. MIKE WAS ON SCENE AGAIN TODAY TO INSPECT THE SITE. MIKE TO SUBMIT CLEANUP REPORT TO NEUMANN ONCE REC'D FROM CLEANUP CONTRACTOR. 2/1/19: KATZENBERG SENT EMAIL REQUESTING UPDATE ON CLEANUP

DOCUMENTATION/DISPOSAL DOCUMENTATION. CONTRACTOR INDICATED THEY WERE AWAITING ALL DOCUMENTATION (DISPOSAL MANIFESTS, ETC.) BEFORE COMPLETING THE FINAL REPORT AND SENDING TO DNR. 2/25/19: NEUMANN SENT EMAIL TO WARDEN KATZENBERG REQUESTING UPDATE. KATZENBERG INDICATED THAT FORTUNE REACHED OUT TO MIKE LAST WEEK AND PROVIDED AN UPDATE. REPORT COMING SOON. 3/19/19: NEUMANN SENT EMAIL TO KATZENBERG REQUESTING UPDATE. NEUMANN CALLED ERIC OELKERS (SCS ENGINEERS), WHO INDICATED THAT REPORT SHOULD HAVE BEEN SENT IN. ERIC WILL FOLLOW UP WITH INSURANCE COMPANY AND INFORM NEUMANN. NEUMANN REC'D CLEANUP DOCUMENTATION/SUMMARY. BASED ON THE AVAILABLE INFORMATION, IMPACTS ONLY TO SNOW AND THE IMPACTED SNOW WAS REMOVED FROM THE SITE. IMPACTS REMOVED TO THE EXTENT PRACTICABLE.

Spiller Actions

Action	Comment
Cleanup Method - Excavation	IMPACTED SNOW

Substances

Substance	Type	Est Amt Released	Units
Diesel Fuel	Petroleum	60	Gal

Who

Role	Name/Address
Project Manager	RILEY NEUMANN 2300 N DR MARTIN LUTHER KING DR MILWAUKEE, WI 53212
Responsible Party	FORTUNE TRANSPORATION 93702 470TH AVE WINDOM, MN 56101

BRRTS data comes from various sources, both internal and external to DNR. There may be omissions and errors in the data and delays in updating new information. Please see the disclaimers page for more information. We welcome your Feedback.

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

Release 2.8.11 | 07/16/2020 | Release Notes

Appendix H

WisDOT Site Summary & Relevant Summary Information for La Grange Asphalt Plant - C10

WisDOT Phase 1 Hazardous Materials Assessment Site Summary

(rev. 11/11/2011)

WisDOT Project ID: 3130-03-01
Highway/Street: USH 12
Termini/Limits: Cox Road to STH 20/67
County: Walworth

Property Information:

Site Name(s): La Grange Asphalt Plant - C10
DOT parcel number (if known):
Property Address: W6615 USH 12
Owner's Name: Payne & Dolan Inc
Owner's Address: PO Box 1632, Waukesha
Owner's Phone: Not Provided
Current Land Use: Gravel pit and asphalt plant
Past Land Use: Gravel pit

Real Estate Requirements:

☒None ☐Total take ☐Strip acquisition of feet
☐Temporary Limited Easement (TLE)
☐Permanent Limited Easement (PLE)
☐ Other (describe)

Construction Requirements: Not yet known

☐ Excavation within current right of way to feet
☐ Excavation within proposed right of way to feet
☐ Excavation within easement to feet
☐ Public or private utility or sanitary or storm sewer installation or excavation to feet

Information from database searches and interviews:

Department of Safety and Professional Services (DSPS)

- ☐ site has registered tanks ☐ASTs ☐USTs
- ☐ tanks are currently in use
- ☐ tanks are abandoned date:
- Tank contents:
  - ☐ Leaded gasoline ☐ Unleaded gasoline ☐ Fuel Oil ☐ Diesel
  - ☐ Kerosene ☐ Unknown ☐ Other (describe)
- ☐ site is a DSPS administered LUST site; DCOMM ID number:
- ☐ site is a closed DSPS LUST site; closure date:

Department of Natural Resources (DNR)

- ☐ site is a DNR administered LUST site; BRRTS number:
- ☐ site is a DNR administered ERP site; BRRTS number:
- ☐ site is a closed ☐LUST ☐ERP site; closure date:
- ☐ site is a landfill
- ☐ site is an abandoned waste disposal site
- ☐ site is a hazardous waste generator
- ☐ Other (please describe)

Sanborn Maps: site is a on map dated . Comments: No Coverage
WisDOT historic plan sets: site is a on project dated . Comments:
Business directories: Not listed
Comments: The property is in the T2 database.

A check in a checkbox indicates a positive or "yes" response.

Aerial photos: 1940-2015 Comments:
☐ Contamination discovered at feet during utility or other excavation in the area. Indicate location on site map.
Interview Information or other comments:

Visual Evidence of Potential Contamination: (include additional information in space provided)
☒ No evidence of tanks
☐ USTs ☐ ASTs - Location, number and condition of tanks, contents, comments:
Location in relationship to current right of way: ☐ map attached
Location in relationship to proposed right of way: ☐ map attached
☐ Drums ☐Stained soils ☐Odor ☐Sheen on surface water ☐Areas of excavation
☐ Areas of fill ☐Stressed vegetation ☐ Pond(s) ☐ Basins/sumps ☐ Monitoring wells
☐ Soil borings
Comments:

Potential for Contaminant Migration: (attach supporting documentation such as plume maps, summaries of site investigation or closure reports).
☐ Property is a potential source of contamination
☐ Adjacent property is a potential source of contamination. Include site name or BRRTS number if known, describe location, include contaminant type and any additional information.
☐ Contaminated soil known to be within proposed right of way from feet to feet below ground surface
☐ Contaminated groundwater known to be within proposed right of way at feet below ground surface.
☐ Contaminated soil or groundwater within existing right of way. Attach copy of most recent investigation and plume maps.

Attachments – required
☒ Site photographs and a site map showing areas of concern
☐ Plat map showing parcel and any proposed areas of acquisition or easement
☒ Historic aerial photos of site - clearly outline site
☐ Historic WisDOT or other as-builts and plat maps - clearly outline site
☐ Plume maps for known contamination. Indicate existing or proposed right of way where applicable.

Recommendations
☒ No additional hazardous materials investigation is required.
☐ If construction or real estate requirements change, evaluation of need for further investigation will be necessary.
☐ Information is sufficient to use Standard Special Provisions. Copy of completed Standard Special Provision is attached.
☐ Conduct additional investigation
- ☐ Phase 2 (determine if contamination is present)
- ☐ Phase 2.5 (determine extent of contamination within existing R/W only)
- ☐ Phase 3 (determine full extent of contamination prior to acquisition)
- ☐ Phase 4 (remediate site)
- ☐ Other (describe)

Prepared by: Andrew Cawrse of Ramboll
Recommendations accepted by (name and title): on

Signature: Andrew Cawrse

A check in a checkbox indicates a positive or "yes" response.

Appendix I

WisDOT Site Summary & Relevant Summary Information for La Grange General Store

WisDOT Phase 1 Hazardous Materials Assessment Site Summary

(rev. 11/11/2011)

WisDOT Project ID: 3130-03-01
Highway/Street: USH 12
Termini/Limits: Cox Road to STH 20/67
County: Walworth

Property Information:
Site Name(s): La Grange General Store
DOT parcel number (if known):
Property Address: W6098 USH 12
Owner's Name: Michael R Bettinger
Owner's Address: W6098 USH 12
Owner's Phone: Not Provided
Current Land Use: Commercial business
Past Land Use: Possible gas station

Real Estate Requirements:
☒None ☐Total take ☐Strip acquisition of feet
☐Temporary Limited Easement (TLE)
☐Permanent Limited Easement (PLE)
☐ Other (describe)

Construction Requirements: Not yet known
☐ Excavation within current right of way to feet
☐ Excavation within proposed right of way to feet
☐ Excavation within easement to feet
☐ Public or private utility or sanitary or storm sewer installation or excavation to feet

Information from database searches and interviews:
Department of Safety and Professional Services (DSPS)
- ☐ site has registered tanks ☐ASTs ☐USTs
- ☐ tanks are currently in use
- ☐ tanks are abandoned date:
- Tank contents:
  - ☐ Leaded gasoline ☐ Unleaded gasoline ☐ Fuel Oil ☐ Diesel
  - ☐ Kerosene ☐ Unknown ☐ Other (describe)
- ☐ site is a DSPS administered LUST site; DCOMM ID number:
- ☐ site is a closed DSPS LUST site; closure date:

Department of Natural Resources (DNR)
- ☐ site is a DNR administered LUST site; BRRTS number:
- ☐ site is a DNR administered ERP site; BRRTS number:
- ☐ site is a closed ☐LUST ☐ERP site; closure date:
- ☐ site is a landfill
- ☐ site is an abandoned waste disposal site
- ☐ site is a hazardous waste generator
- ☐ Other (please describe)

Sanborn Maps: site is a on map dated . Comments: No Coverage
WisDOT historic plan sets: site is a on project dated . Comments:
Business directories: Commercial business
Comments: The property is in the FRS and ECHO databases.

A check in a checkbox indicates a positive or "yes" response.

Aerial photos: 1940-2015 Comments:
☐ Contamination discovered at feet during utility or other excavation in the area. Indicate location on site map.
Interview Information or other comments:

Visual Evidence of Potential Contamination: (include additional information in space provided)
☒ No evidence of tanks
☐ USTs ☐ ASTs - Location, number and condition of tanks, contents, comments:
Location in relationship to current right of way: ☐ map attached
Location in relationship to proposed right of way: ☐ map attached
☐ Drums ☐Stained soils ☐Odor ☐Sheen on surface water ☐Areas of excavation
☐ Areas of fill ☐Stressed vegetation ☐ Pond(s) ☐ Basins/sumps ☐ Monitoring wells
☐ Soil borings
Comments:

Potential for Contaminant Migration: (attach supporting documentation such as plume maps, summaries of site investigation or closure reports).
☒ Property is a potential source of contamination
☐ Adjacent property is a potential source of contamination. Include site name or BRRTS number if known, describe location, include contaminant type and any additional information.
☐ Contaminated soil known to be within proposed right of way from feet to feet below ground surface
☐ Contaminated groundwater known to be within proposed right of way at feet below ground surface.
☐ Contaminated soil or groundwater within existing right of way. Attach copy of most recent investigation and plume maps.

Attachments – required
☒ Site photographs and a site map showing areas of concern
☐ Plat map showing parcel and any proposed areas of acquisition or easement
☒ Historic aerial photos of site - clearly outline site
☐ Historic WisDOT or other as-builts and plat maps - clearly outline site
☐ Plume maps for known contamination. Indicate existing or proposed right of way where applicable.

Recommendations
☐ No additional hazardous materials investigation is required.
☒ If construction or real estate requirements change, evaluation of need for further investigation will be necessary.
☐ Information is sufficient to use Standard Special Provisions. Copy of completed Standard Special Provision is attached.
☐ Conduct additional investigation
- ☐ Phase 2 (determine if contamination is present)
- ☐ Phase 2.5 (determine extent of contamination within existing R/W only)
- ☐ Phase 3 (determine full extent of contamination prior to acquisition)
- ☐ Phase 4 (remediate site)
- ☐ Other (describe)

Prepared by: Andrew Cawrse of Ramboll
Recommendations accepted by (name and title): on

Signature: Andrew Cawrse

A check in a checkbox indicates a positive or "yes" response.

Appendix J

WisDOT Site Summary & Relevant Summary Information for Darrs Service

WisDOT Phase 1 Hazardous Materials Assessment Site Summary

(rev. 11/11/2011)

WisDOT Project ID: 3130-03-01
Highway/Street: USH 12
Termini/Limits: Cox Road to STH 20/67
County: Walworth

Property Information:

Site Name(s): Darrs Service
DOT parcel number (if known):
Property Address: W6071 USH 12
Owner's Name: Town Of La Grange
Owner's Address: PO Box 359, Whitewater
Owner's Phone: Not Provided
Current Land Use: Vacant building
Past Land Use: Service station

Real Estate Requirements:

☒None ☐Total take ☐Strip acquisition of feet
☐Temporary Limited Easement (TLE)
☐Permanent Limited Easement (PLE)
☐ Other (describe)

Construction Requirements: Not yet known

☐ Excavation within current right of way to feet
☐ Excavation within proposed right of way to feet
☐ Excavation within easement to feet
☐ Public or private utility or sanitary or storm sewer installation or excavation to feet

Information from database searches and interviews:

Department of Safety and Professional Services (DSPS)

- ☒ site has registered tanks ☒ASTs ☒USTs
- ☒ tanks are currently in use
- ☒ tanks are abandoned date:
- Tank contents:
  - ☐ Leaded gasoline ☐ Unleaded gasoline ☐ Fuel Oil ☒ Diesel
  - ☐ Kerosene ☐ Unknown ☒ Other (describe) waste/used motor oil
- ☐ site is a DSPS administered LUST site; DCOMM ID number:
- ☐ site is a closed DSPS LUST site; closure date:

Department of Natural Resources (DNR)

- ☐ site is a DNR administered LUST site; BRRTS number:
- ☐ site is a DNR administered ERP site; BRRTS number:
- ☐ site is a closed ☐LUST ☐ERP site; closure date:
- ☐ site is a landfill
- ☐ site is an abandoned waste disposal site
- ☐ site is a hazardous waste generator
- ☐ Other (please describe)

Sanborn Maps: site is a on map dated . Comments: No Coverage
WisDOT historic plan sets: site is a on project dated . Comments:
Business directories: Service station and transport company
Comments: One 10,000-gallon diesel fuel UST, one 500-gallon diesel fuel UST, and one 500-gallon waste/used motor oil UST are listed as closed/removed at this property as of September 6, 1995.

A check in a checkbox indicates a positive or "yes" response.

Aerial photos: 1940-2015 Comments:
☐ Contamination discovered at feet during utility or other excavation in the area. Indicate location on site map.
Interview Information or other comments:

Visual Evidence of Potential Contamination: (include additional information in space provided)
☐ No evidence of tanks
☐ USTs ☒ ASTs - Location, number and condition of tanks, contents, comments:
Location in relationship to current right of way: 200 feet ☐ map attached
Location in relationship to proposed right of way: ☐ map attached
☐ Drums ☐Stained soils ☐Odor ☐Sheen on surface water ☐Areas of excavation
☐ Areas of fill ☐Stressed vegetation ☐ Pond(s) ☐ Basins/sumps ☐ Monitoring wells
☐ Soil borings
Comments:

Potential for Contaminant Migration: (attach supporting documentation such as plume maps, summaries of site investigation or closure reports).
☒ Property is a potential source of contamination
☐ Adjacent property is a potential source of contamination. Include site name or BRRTS number if known, describe location, include contaminant type and any additional information.
☐ Contaminated soil known to be within proposed right of way from feet to feet below ground surface
☐ Contaminated groundwater known to be within proposed right of way at feet below ground surface.
☐ Contaminated soil or groundwater within existing right of way. Attach copy of most recent investigation and plume maps.

Attachments – required
☒ Site photographs and a site map showing areas of concern
☐ Plat map showing parcel and any proposed areas of acquisition or easement
☒ Historic aerial photos of site - clearly outline site
☐ Historic WisDOT or other as-builts and plat maps - clearly outline site
☐ Plume maps for known contamination. Indicate existing or proposed right of way where applicable.

Recommendations
☐ No additional hazardous materials investigation is required.
☒ If construction or real estate requirements change, evaluation of need for further investigation will be necessary.
☐ Information is sufficient to use Standard Special Provisions. Copy of completed Standard Special Provision is attached.
☐ Conduct additional investigation
☐ Phase 2 (determine if contamination is present)
☐ Phase 2.5 (determine extent of contamination within existing R/W only)
☐ Phase 3 (determine full extent of contamination prior to acquisition)
☐ Phase 4 (remediate site)
☐ Other (describe)
Prepared by: Andrew Cawrse of Ramboll
Recommendations accepted by (name and title): on

Signature: Andrew Cawrse

A check in a checkbox indicates a positive or "yes" response.

Appendix K

WisDOT Site Summary & Relevant Summary Information for Sylvester Obremski

WisDOT Phase 1 Hazardous Materials Assessment Site Summary

(rev. 11/11/2011)

WisDOT Project ID: 3130-03-01
Highway/Street: USH 12
Termini/Limits: Cox Road to STH 20/67
County: Walworth

Property Information:

Site Name(s): Sylvester Obremski
DOT parcel number (if known):
Property Address: W5890 USH 12
Owner's Name: Timothy B Knobel
Owner's Address: W5890 USH 12
Owner's Phone: Not Provided
Current Land Use: Farmstead
Past Land Use: Farmstead

Real Estate Requirements:

☒None ☐Total take ☐Strip acquisition of feet
☐Temporary Limited Easement (TLE)
☐Permanent Limited Easement (PLE)
☐ Other (describe)

Construction Requirements: Not yet known

☐ Excavation within current right of way to feet
☐ Excavation within proposed right of way to feet
☐ Excavation within easement to feet
☐ Public or private utility or sanitary or storm sewer installation or excavation to feet

Information from database searches and interviews:

Department of Safety and Professional Services (DSPS)

- ☒ site has registered tanks ☐ASTs ☒USTs
- ☐ tanks are currently in use
- ☒ tanks are abandoned date:
- Tank contents:
  - ☒ Leaded gasoline ☐ Unleaded gasoline ☐ Fuel Oil ☐ Diesel
  - ☐ Kerosene ☐ Unknown ☐ Other (describe)
- ☐ site is a DSPS administered LUST site; DCOMM ID number:
- ☐ site is a closed DSPS LUST site; closure date:

Department of Natural Resources (DNR)

- ☐ site is a DNR administered LUST site; BRRTS number:
- ☐ site is a DNR administered ERP site; BRRTS number:
- ☐ site is a closed ☐LUST ☐ERP site; closure date:
- ☐ site is a landfill
- ☐ site is an abandoned waste disposal site
- ☐ site is a hazardous waste generator
- ☐ Other (please describe)

Sanborn Maps: site is a on map dated . Comments: No Coverage
WisDOT historic plan sets: site is a on project dated . Comments:
Business directories: Residence
Comments: One leaded gasoline UST of unknown size is listed as closed/removed at this property as of October 13, 1997.

A check in a checkbox indicates a positive or "yes" response.

Aerial photos: 1940-2015 Comments:
☐ Contamination discovered at feet during utility or other excavation in the area. Indicate location on site map.
Interview Information or other comments:

Visual Evidence of Potential Contamination: (include additional information in space provided)
☒ No evidence of tanks
☐ USTs ☐ ASTs - Location, number and condition of tanks, contents, comments:
Location in relationship to current right of way: ☐ map attached
Location in relationship to proposed right of way: ☐ map attached
☐ Drums ☐Stained soils ☐Odor ☐Sheen on surface water ☐Areas of excavation
☐ Areas of fill ☐Stressed vegetation ☐ Pond(s) ☐ Basins/sumps ☐ Monitoring wells
☐ Soil borings
Comments:

Potential for Contaminant Migration: (attach supporting documentation such as plume maps, summaries of site investigation or closure reports).
☐ Property is a potential source of contamination
☐ Adjacent property is a potential source of contamination. Include site name or BRRTS number if known, describe location, include contaminant type and any additional information.
☐ Contaminated soil known to be within proposed right of way from feet to feet below ground surface
☐ Contaminated groundwater known to be within proposed right of way at feet below ground surface.
☐ Contaminated soil or groundwater within existing right of way. Attach copy of most recent investigation and plume maps.

Attachments – required
☒ Site photographs and a site map showing areas of concern
☐ Plat map showing parcel and any proposed areas of acquisition or easement
☒ Historic aerial photos of site - clearly outline site
☐ Historic WisDOT or other as-builts and plat maps - clearly outline site
☐ Plume maps for known contamination. Indicate existing or proposed right of way where applicable.

Recommendations
☒ No additional hazardous materials investigation is required.
☐ If construction or real estate requirements change, evaluation of need for further investigation will be necessary.
☐ Information is sufficient to use Standard Special Provisions. Copy of completed Standard Special Provision is attached.
☐ Conduct additional investigation
- ☐ Phase 2 (determine if contamination is present)
- ☐ Phase 2.5 (determine extent of contamination within existing R/W only)
- ☐ Phase 3 (determine full extent of contamination prior to acquisition)
- ☐ Phase 4 (remediate site)
- ☐ Other (describe)

Prepared by: Andrew Cawrse of Ramboll
Recommendations accepted by (name and title): on

Signature: Andrew Cawrse

A check in a checkbox indicates a positive or "yes" response.