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JUL 19 2016
DRINKING WATER & GW

State of Wisconsin
Department of Natural Resources
PO Box 7921
Madison WI 53707-7921

High Capacity Dewatering Well Application

Form 3300-258 (R 11/02) Page 1 of 4

Notice: Prior department approval is required for the construction, reconstruction or operation of a high capacity well or system of high capacity wells in accordance with Section NR 812.09(4)(e), Wisconsin Administrative Code. Personally identifiable information collected on this form, including such data as your name, address and phone number, will be used for management of department programs and is unlikely to be used for other purposes. This information will be addressable under Wisconsin's Open Records Laws, ss. 19.32 - 19.39, Wis. Stats.

Project Name and Description

Project Name and Description

Village of Luck Sanitary Improvements

Dewatering System Property Owner

Name and Title	Company			
Luck Sanitary Improvements	Haas Sons Inc.			
Street Address	**City**	**State**	**ZIP Code**	**Contact Person**
203 East Birch St	Thorp	WI	54771	Steve Haas
Telephone Number	**Fax Number**	**E-Mail Address**		
715-829-8920		steve@haas4.com		

Dewatering System Operator

Name and Title	Company			
Dan Windl operator/supervisor	Haas Sons Inc.			
Street Address	**City**	**State**	**ZIP Code**	**Contact Person**
203 East Birch St	Thorp	WI	54771	Dan Windl
Telephone Number	**Fax Number**	**E-Mail Address**		
715-456-2941	—	—		

Proposed Dewatering System Location

Quarter of the Quarter	Quarter or Government Lot Number	Section Number or French Long Lot Number	
NE¼ SE¼		27 and 28	
Township	**Range**		**County**
T 36 N	R 17 ☐ East ☒ West	☐ City ☒ Village OF Luck ☐ Civil Town	Polk County

Street or Grid Address (fire number)

North Shore Dr. Luck, WI.

Dewatering System Operation

Name of Nearest Public Utility Well	Proposed Total Average Pumpage per Day	Proposed Total Maximum Pumpage per Day
	864,000	2,160,000 gallons
Distance from Public Utility Well ☐ Feet ☐ Miles	**Discharge Location Description (e.g. storm sewer, drainage swale, settling basin, etc.)**	
	Big Butternut Lake	
Direction (e.g. WNW) to Public Utility Well	**Total Number of Dewatering Wells/Points in Project**	
	70	
Proposed Pump (Dewatering System) Capacity	**Number of Wells/Points In Use at Any Given Time**	
900 gallons per minute	70	
Dewatering Project Start Date (MM/DD/YYYY)	**Dewatering Project Completion Date (MM/DD/YYYY)**	
8-1-16	9-1-16	

Proposed Aquifer Formation	At a Depth of:	Static Water Level	Proposed Dewatering Water Level
Sand	0 - 40'	-41	-12'

Well Construction

Total well depth (feet)	Borehole diameter (inches)	Drilling method (e.g. rotary, jetting, percussion, etc.)
23'	4"	Jetting

Geologic formations to be penetrated by well (e.g. sand, gravel, clay, sandstone, limestone, etc.)

Sand

Casing depth (feet)	Well casing wall thickness (in.)	Casing material (e.g. steel, schedule 40 PVC)	Casing diameter (inches)
23'	1/2"	PVC	1½

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Well Construction (continued)

Method of connecting well casing segments	Height of well casing termination above local ground elevation (in)	
☐ weld ☒ solvent weld ☐ threaded/mechanical	1'	
Well screen material (e.g. wire wound steel, slotted PVC)	**Well screen length (ft)**	**Well screen diameter (in)**
20 SLOT PVC	2'	1 1/2"
Method of attaching screen to well casing or placing screen	**Type of well screen**	**Engineered gravel pack around screen**
Solvent Weld	☐ wire wound ☒ slotted pipe	☐ yes ☒ no
Annular space seal material (e.g. bentonite, cement, native material)	**Method of placing annular seal (e.g. tremie pipe)**	
NATIVE MATERIAL	HAND BACK FILL	

Pump Installation

Pump type (e.g. submersible, vacuum)	Individual pump capacity (gpm)	Well seal type and design	Check valve location
6" VACUUM	1500 GPM	GALVANIZED	Top of Well Point

Well Abandonment

Well abandonment method (e.g. fill with bentonite, collapsing formation, etc.)
Collapsing Formation Topped with Bentonite

Enclosures

- ☐ Plat map (project location marked)
- ☐ Engineering plan map of project (do not submit complete set of plans)
- ☐ Contamination sites (BRRTS information) with well locations and discharge location (www.dnr.state.wi.us/org/aw/rr/brrts/index.htm)
- ☒ Well construction diagram with dimensions
- ☒ Drawing of manifold design if multiple wells are connected together
- ☒ Discharge drawing
- ☒ If WPDES permit already issued, attach copy Attached

Variance Request Signature

Are you requesting a variance for the proposed well(s) to have less than 25 feet of casing or for a variance to any part of ch. NR 812, Wis. Adm. Code? If yes, property owner signature required.

Property Owner Signature	Date Signed

Applicant

Name: Last	First	MI	Signature
Haas	Steve		Steve Haas

Street Address	City	State	ZIP Code	Date (mm/dd/yyyy)
203 East Birch St	Thorp	WI	54771	07/12/2016

Company Name	(Area Code) Telephone Number	E-Mail Address
Haas Sons Inc	715-822-8920	Steve@Haas4.com

Department Use Only

Receipt Date (mm/dd/yyyy)	Response Date (mm/dd/yyyy)
Review Engineer	**Authorized Signature**
Calculated Public Utility Well Drawdown Value or No Expected Impact Judgement	**Action: Conditions of approval are attached if approved.**
Feet ☐ No Expected Significant Impact	☐ Approved ☐ Denied

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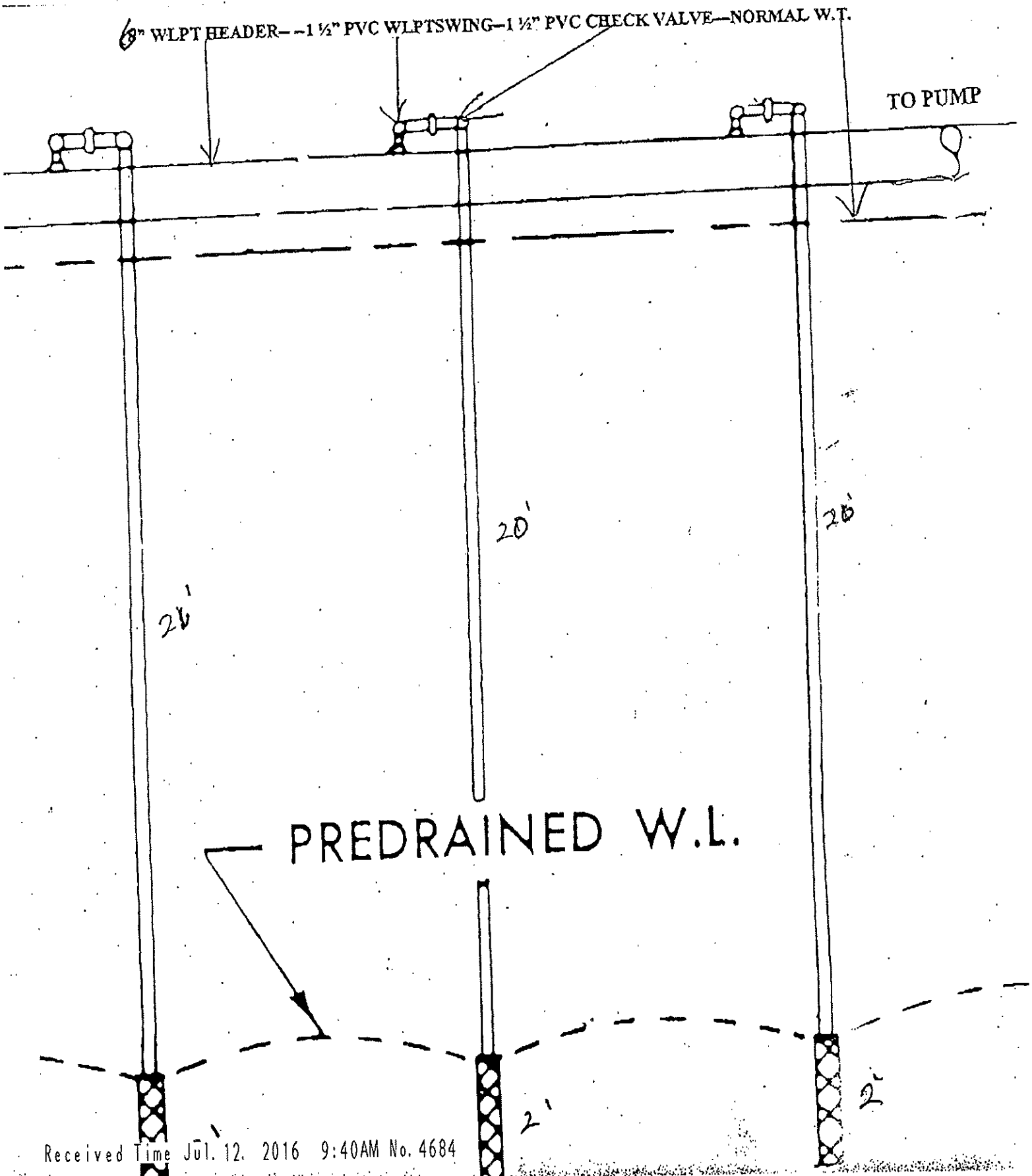
TYPICAL WELLPOINT SECTION



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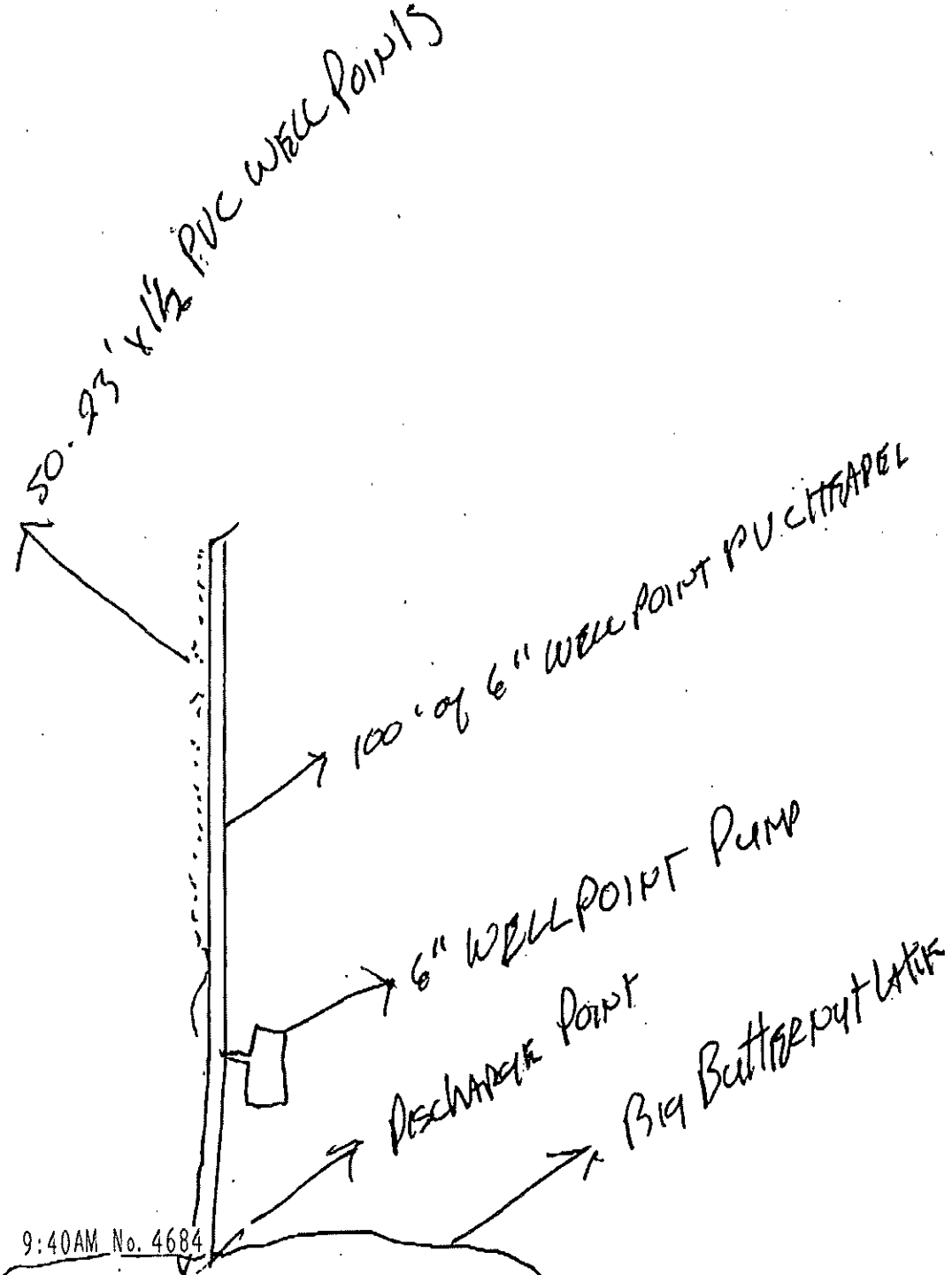
TYPICAL WELLPOINT SYSTEM & DISCHAGRE
LUCK SANITARY SEWER
LUCK, WISCONSIN

(1) 6" ELECTRIC WELLPOINT PUMP

100' OF 6" PVC WLPT HEADER

50-23' 1.5" WELLPOINTS WITH 2' OF 20 SLOT PVC WELLPOINT SCREEN

50-1.5" PVC WLPT SWING—1.5" PVC CHECK VALVE



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STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES

DRINKING WATER PROGRAM REGION OFFICES

NORTHERN REGION
Department of Natural Resources
810 W Maple Street
Spooner WI 54801
(715) 635-2101

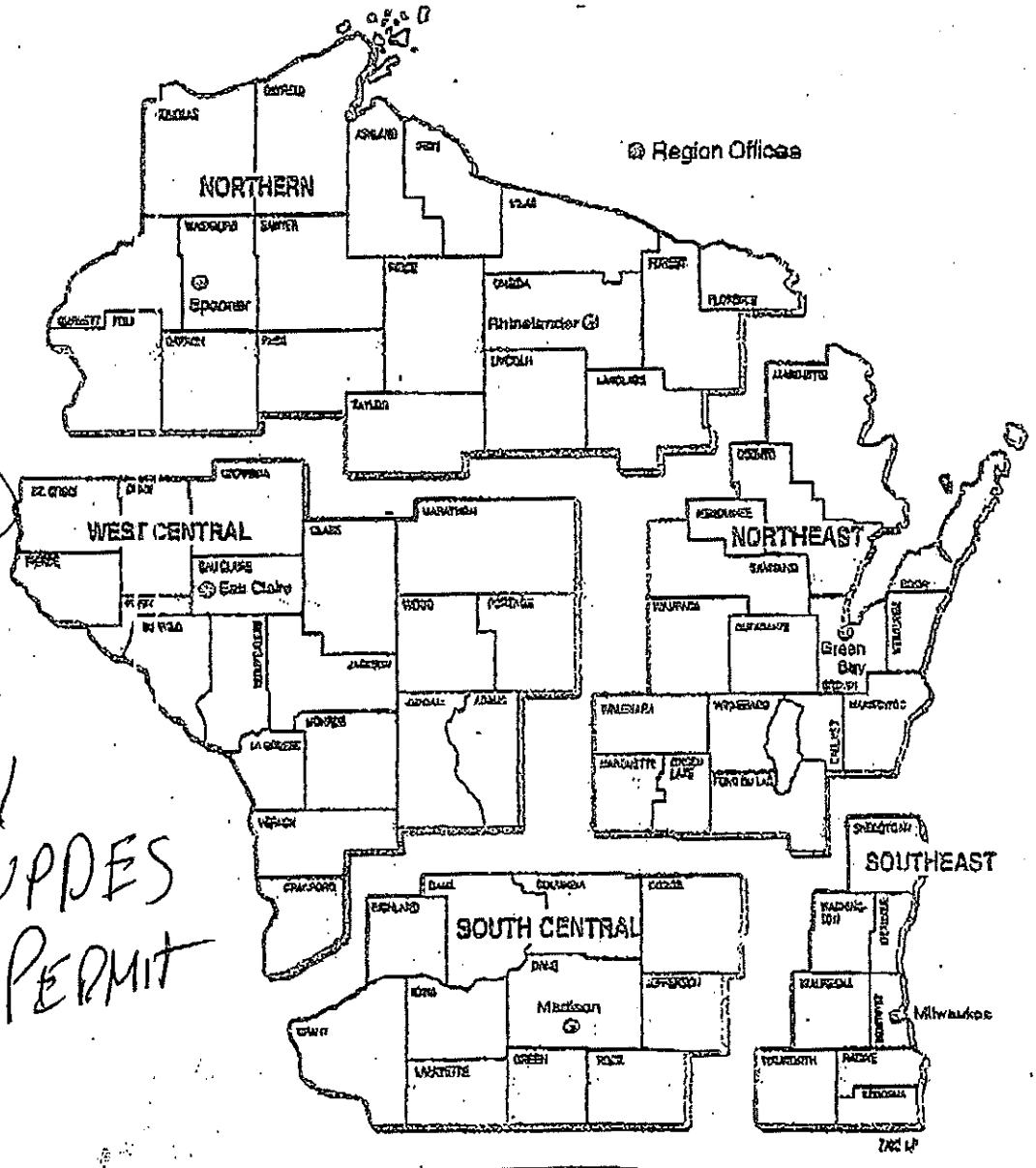
Department of Natural Resources
107 Sutliff Avenue
Rhinelander WI 54501
(715) 365-8900

WEST CENTRAL REGION
Department of Natural Resources
1300 W Clairemont Avenue
P O Box 4001
Eau Claire WI 54702-4001
(715) 839-3700

NORTHEAST REGION
Department of Natural Resources
1125 N Military Avenue
P O Box 10448
Green Bay WI 54307-0448
(920) 492-5885

SOUTHEAST REGION
Department of Natural Resources
2300 N Dr. Martin Luther King, Jr. Drive
P O Box 12436
Milwaukee WI 53212
(414) 229-0800

SOUTH CENTRAL REGION
Department of Natural Resource
3911 Fish Hatchery Rd
Fitchburg WI 53711
(608) 275-3266



WPDES PERMIT

BUREAU OF DRINKING WATER AND GROUNDWATER - CENTRAL OFFICE

Street Address:
WDNR - DG/2
101 South Webster Street
Madison WI 53703

Mailing Address:
WDNR - DG/2
P O Box 7921
Madison WI 53707-7921
(608) 266-2621
Fax (608) 267-7650

DEPARTMENT OF NATURAL RESOURCES WEB SITE
http://www.dnr.state.wi.us

WPDR High Capacity Permit

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State of Wisconsin
Department of Natural Resources
Bureau of Wastewater Management
dnr.wi.gov

Pit/Trench Dewatering General Permit Request

WPDES Permit No. WI-0049344-4

Form 3400-201 (R 02/15)

Notice: Pursuant to chs. NR 200 and 205, Wis. Adm. Code, this permit application is required to request coverage under General WPDES Permit No. WI-0049344-4 for pollutant discharges to surface waters or seepage systems for pit and trench dewatering activities. Failure to complete this form in its entirety will be returned. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records Law (ss. 19.31-19.39, Wis. Stats.).

Section I: WPDES Permittee Responsible for the Pollutant Discharge

Parent Company/Owner	Authorized Representative	Phone # (include area code)
Haas Sons Inc	Steve Haas	715-829-8920

Mailing Address - PO Box, Street or Route	Title
203 East Birch St	President/Owner

City	State	ZIP Code	Fax # (include area code)	Email Address
Thorp	WI	54771	—	Steve@Haas4.com

Section II: Facility Site Name and Location Information

Project Name	Project Contact Name	Title
Luck Sanitary Improvements	Steve Haas	

Project Address - Street	Email Address	Phone # (include area code)
North shore Dr and S Lake St	Steve@Haas4.com	715-829-8920

City	State	ZIP Code	County	Latitude	Longitude
Village of Luck	WI	54853	POLK	45.573498	-92.464423

Section III: Site Location

Attach the following two maps to the application:

☒ **Site Map:** Attach a site map, such as a USGS topographic map, showing the location of the facility, the discharge site for groundwater discharges, and/or receiving water for surface water discharges.

☐ Contaminated Groundwater map(s): Attach a site map printout from the DNR Remediation & Redevelopment (R&R) website (see instructions below). On the map, show the location of the discharge site for groundwater discharges, and/or receiving water for surface water discharges. If you are discharging near a remediation site, what is the shortest distance from the remediation property boundary to your project area? _____ Ft.

To obtain R&R Map: Go to this website: http://dnr.wi.gov/topic/Brownfields/clean.html. First, click on the Themes tab. The automatic setting is for the Contaminated and Cleaned Up theme. Both Open Sites and Closed Sites are checked automatically (all sites are wanted). Click on the blue Find Location tab. Click on County, select the county you are discharging in, and click on Go. You can click on Find Location again to get a more specific area in the county, such as township. You can also use the Zoom in tool. After you have a map of the area you are discharging in. Choose the blue Print tab. Click on OK. Click on Open Map (on left above center). Then print or save the document as a PDF. Note that information about sites can be obtained from the database. Highlight the Identify/Site Info button above the map and to right. Then click on site symbol and site information will appear in left column.

Section IV: Discharge Characterization

Type of Wastewater (Pit or Trench Dewater, Well Dewater, etc.)	Outfall # (#1, #2, etc.)	Average Daily Flow (gallons of water discharged per day)	Comments
Dewatering	#1	864,000	100' Well Point 6" with 1 6" Piggel Well Point Pump. Discharging into Big Buttermut Lake
	#		
	#		
	#		
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Pit/Trench Dewatering General Permit Request

WPDES Permit No. WI-0049344-4

Form 3400-201 (R 02/15)

Section V: Eligibility

1. This permit is applicable to point source discharges from dewatering of uncontaminated subsurface areas such as wells, pits, trenches, etc. The primary pollutant from these activities, suspended solids, can be removed by gravity settling or filtering. Oil and grease may be associated with these discharges from machinery near the pit or trench. To the fullest extent of your knowledge, does your discharge contain significant quantities of other pollutants, such as from boiler cleaning, waste brine from water softening, water treatment additives, or other industrial production wastewater pollutants that could be harmful to aquatic life or human health (metals, volatile compounds, gasoline, pesticides, etc.)? ☐ Yes ☒ No

   If yes, identify the pollutants or pollutant types: _____

2. What is the receiving water for your discharge? Check all boxes below that apply. If your facility has more than one outfall (an outfall is an individual discharge point, like a pipe, channel, or seepage pond, that wastewater enters prior to discharging to a receiving water), indicate in the space provided which outfalls go to groundwater and which go to surface waters. (Note: Domestic sanitary wastes to an onsite septic system may be excluded from this application.)

   ☐ Groundwater (This includes infiltration of wastewater through the soil in ditches, absorption ponds, irrigation systems, septic systems and drain fields, etc.)

   Outfall #(s): _____

   ☒ Surface Water (This includes direct and indirect (via storm sewers or ditches) discharges to wetlands, ponds, creeks, streams, rivers, lakes, etc.)

   Outfall #(s): Big Buttermut Lake

   ☐ Sanitary Sewer (Indicate if any wastewater is discharged through a sanitary sewer to a wastewater treatment plant.)

   Outfall #(s): _____

3. What is the name of the surface water your discharge enters? Big Buttermut Lake

4. Does your discharge flow to a wetland before reaching a stream or lake? ☐ Yes ☒ No

5. Do you expect the dewatering discharge to last more than 1 year? ☐ Yes ☒ No

Section VI: Comments

Section VII: Certification

I hereby certify that I am the owner or authorized representative (as specified in ch. NR 205.07(1)(g), Wis. Adm Code) of the facility which is the subject of this permit application. I certify that the information contained in this form and attachments is to the best of my knowledge, true, accurate and complete.

Signature of Owner or Authorized Representative	Date Signed
Types or Printed Name and Title	Phone # (include area code)
Email Address	

If submitting by mail, send completed forms and maps to:

Department of Natural Resources
Water Permit Central Intake
PO Box 7185
Madison, WI 53707-7185

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SECTION IV: ELIGIBILITY CHECKLIST

3. To the fullest extent of your knowledge, does your discharge contain any of the substances listed below or other substances that would be harmful to animal, plant, aquatic life (metals, volatile compounds, etc.)?

alpha-BHC	4,4'-DDT	Polychlorinated Biphenlys (PCB)
beta-BHC	Dieldrin	Pentachlorobenzene
gamma-BHC (Lindane)	Hexachlorobenzene	Photomirex
delta-BHC	Hexachlorobutadiene	1,2,3,4-Tetrachlorobenzene
Chlordane	Mercury	1,2,4,5-Tetrachlorobenzene
4,4'-DDD	Mirex	2,3,7,8-Tetrachlorodibenzo-p-dioxin
4,4'-DDE	Octachlorostyrene	Toxaphene

☒ No. *Continue on to question #4.*
☐ Yes. *Your discharge is not eligible for this General Permit. Skip the rest of the checklist and complete the signatory requirements in Section V. Contact the Department to obtain application for an individual WPDES discharge permit.*

4. Does your discharge flow to a wetland?

☒ No. *This is the end of the checklist. Complete the signatory requirements in section V.*
☐ Yes. *The Department will need to determine if your discharge causes significant adverse impacts to wetlands.*

For Department Use Only
☐ NR-103 Completed
☐ N/A

SECTION V: SIGNATORY REQUIREMENTS

Signature of person completing the form, attesting to the accuracy and completeness of the statements made	Date Signed
	7-13-16
Typed or Printed Name and Title: JAMES WAGNER	Phone # 608-385-4286

This form must be signed by the official representative of the permitted facility who is: the owner, the sole proprietor for a sole proprietorship, a general partner for a partnership, a ranking elected official or other duly authorized representative for a unit of government, a manager for a limited liability company, or a responsible corporate officer of at least the level of manager having overall responsibility for the operation of the facility for a corporation. If this form is not signed, or is found to be incomplete, it will be returned.

Signature	Date Signed
Typed or Printed Name and Title	Phone #
Fax #	Internet Address

Mail to:

[Insert District/Region Address]

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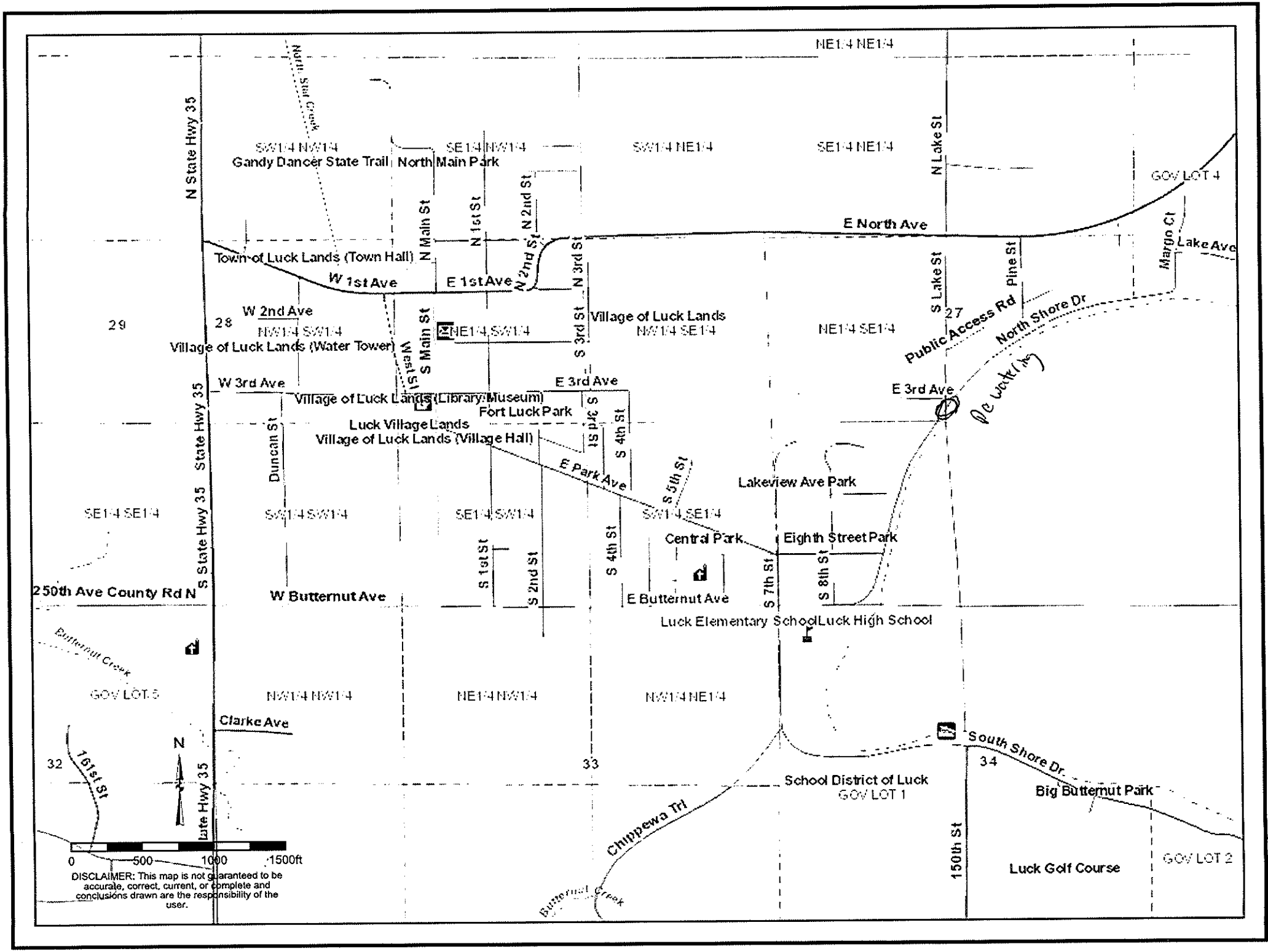
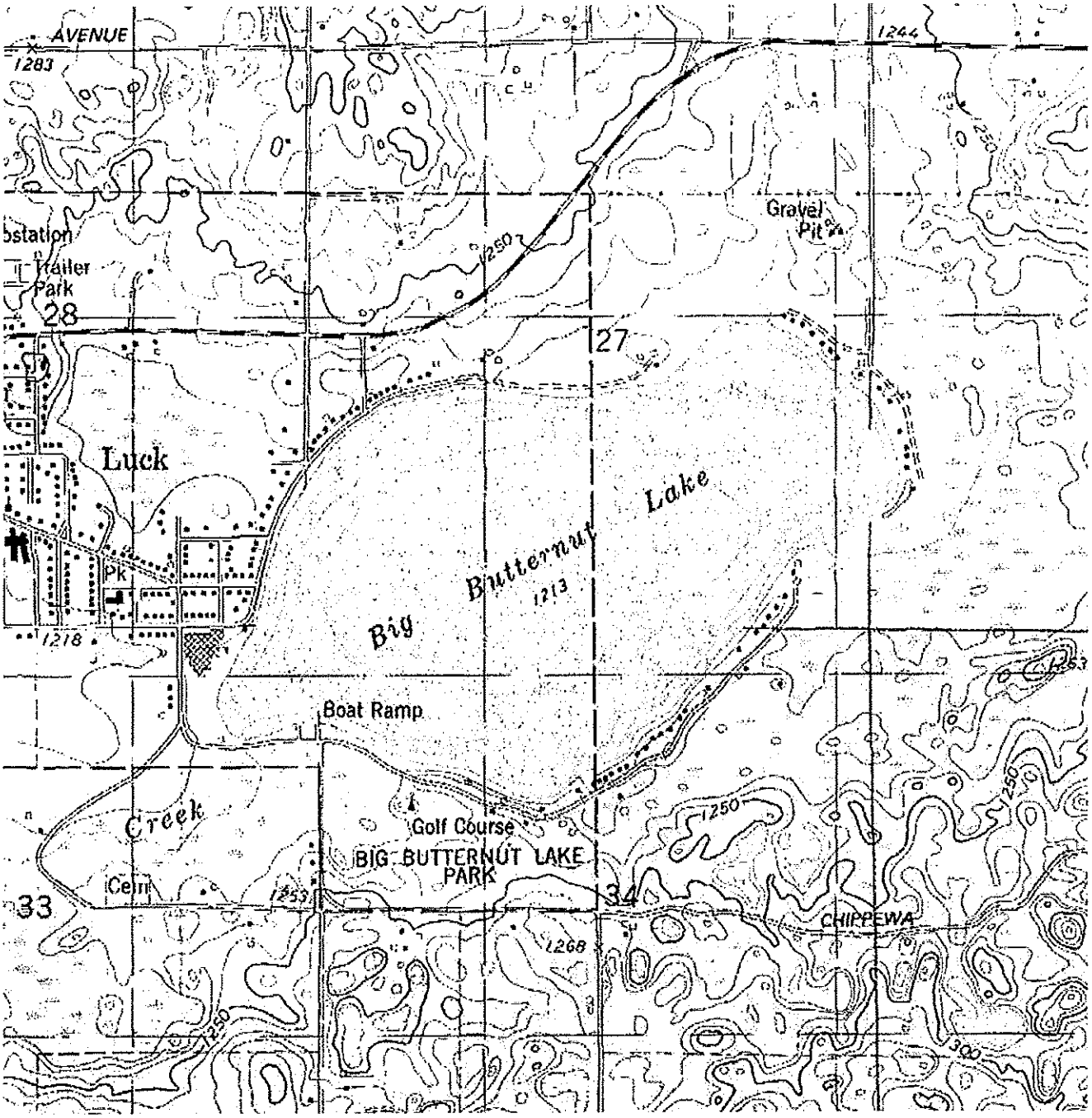


NE1/4 NE1/4
North Star Creek
N State Hwy 35
SW1/4 NW1/4
Gandy Dancer State Trail
North Main Park
SE1/4 NW1/4
SW1/4 NE1/4
SE1/4 NE1/4
N Lake St
GOV LOT 4
N Main St
N 1st St
N 2nd St
E North Ave
Margo Ct
Lake Ave
Town of Luck Lands (Town Hall)
W 1st Ave
E 1st Ave
N 3rd St
S Lake St
Pine St
W 2nd Ave
29
28
NW1/4 SW1/4
NE1/4 SW1/4
Village of Luck Lands
NW1/4 SE1/4
NE1/4 SE1/4
27
Public Access Rd
North Shore Dr
Village of Luck Lands (Water Tower)
West St
S Main St
S 3rd St
W 3rd Ave
E 3rd Ave
E 3rd Ave
Village of Luck Lands (Library/Museum)
Fort Luck Park
Luck Village Lands
Village of Luck Lands (Village Hall)
S 3rd St
S 4th St
Duncan St
E Park Ave
S 5th St
Lakeview Ave Park
SE1/4 SE1/4
SW1/4 SW1/4
SE1/4 SW1/4
SW1/4 SE1/4
Central Park
Eighth Street Park
S State Hwy 35
S 1st St
S 2nd St
S 4th St
S 7th St
S 8th St
250th Ave County Rd N
W Butternut Ave
E Butternut Ave
Luck Elementary School
Luck High School
Butternut Creek
GOV LOT 5
NW1/4 NW1/4
NE1/4 NW1/4
NW1/4 NE1/4
Clarke Ave
N
32
161st St
33
34
South Shore Dr.
School District of Luck
GOV LOT 1
Big Butternut Park
Chippewa Trl
150th St
Luck Golf Course
GOV LOT 2
Butternut Creek
0
500
1000
1500ft
DISCLAIMER: This map is not guaranteed to be accurate, correct, current, or complete and conclusions drawn are the responsibility of the user.


AVENUE
1283
1244
Gravel Pit
Trailer Park
28
27
Luck
Lake
Big Butternut
1213
Pk
1218
Boat Ramp
Creek
Golf Course
BIG BUTTERNUT LAKE PARK
Cem
1253
33
34
CHIPPEWA
1268
1250
300