

Dane County Conditional Use Permit Application

Application Date	C.U.P Number
11/15/2018	DCPCUP-2018-02449
Public Hearing Date	
01/22/2019	

OWNER INFORMATION		AGENT INFORMATION	
OWNER NAME OAK PARK QUARRY LLC	Phone with Area Code (608) 884-9105	AGENT NAME RACHEL HALVERSON	Phone with Area Code (608) 884-9105
BILLING ADDRESS (Number, Street) 1400 RAMSEY RD		ADDRESS (Number, Street) 353 HAUGEN RD.,	
(City, State, Zip) STOUGHTON, WI 53589		(City, State, Zip) Edgerton, WI 53534	
E-MAIL ADDRESS dispatch@halversoncompanies.com		E-MAIL ADDRESS rachael@halversoncompanies.com	

ADDRESS/LOCATION 1		ADDRESS/LOCATION 2		ADDRESS/LOCATION 3	
ADDRESS OR LOCATION OF CUP		ADDRESS OR LOCATION OF CUP		ADDRESS OR LOCATION OF CUP	
1/4 1/4 north and south of 3522 Oak Park Road				south of 3522 Oak Park Road	
TOWNSHIP DEERFIELD	SECTION 29	TOWNSHIP	SECTION	TOWNSHIP Deerfield	SECTION 29
PARCEL NUMBERS INVOLVED		PARCEL NUMBERS INVOLVED		PARCEL NUMBERS INVOLVED	
0712-293-8000-2		---		0712-293-9500-5	

CUP DESCRIPTION
Mineral Extraction

DANE COUNTY CODE OF ORDINANCE SECTION	ACRES
10.123 (3) & (4)	141.44

DEED RESTRICTION REQUIRED? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Applicant Initials _____	Inspectors Initials SCW1	SIGNATURE:(Owner or Agent) 
		PRINT NAME: Jeff Furseth
		DATE: 11-15-18



DANE COUNTY
PLANNING DEVELOPMENT

Zoning Division
Room 116, City-County Building
210 Martin Luther King Jr. Blvd.
Madison, Wisconsin 53703-3342
Phone: (608) 266-4266
Fax: (608) 267-1540

Conditional Use Application

Application Fee: \$486 Mineral Extraction: \$1136

Items required to be submitted with application:

- o Written Legal Description of Conditional Use Permit boundaries
- o Scaled drawing of the property showing existing/proposed buildings, setback requirements, driveway, parking area, outside storage areas, location/type of exterior lighting, any natural features, and proposed signs.
- o Scaled map showing neighboring area land uses and zoning districts
- o Written operations plan describing the items listed below (additional items needed for mineral extraction sites)
- o Written statement on how the proposal meets the 6 standards of a Conditional Use

Owner	<u>OAK PARK QUARRY, LLC</u>	Agent	<u>Rachael Halverson</u>
Address	<u>1400 Ramsey Road</u>	Address	<u>353 Haugen Rd.</u>
Phone	<u>Stoughton, WI 53589</u>	Phone	<u>Edgerton, WI 53534</u>
	<u>608-884-9105</u>		<u>608-884-9105</u>
Email	<u>Jeff Furseth direct - 608-884-9100</u>	Email	<u>Rachael@halversoncompanies.com</u>
	<u>Jeff Furseth email: dispatch@halversoncompanies.com</u>		
Parcel numbers affected:	<u>024/0712-293-4500-5; ✓</u>	Town:	<u>Deerfield</u>
	<u>024/0712-292-9531-9; ✓</u>	Section:	<u>29</u>
	<u>024/0712-293-8000-2; ✓</u>	Property Address:	<u>3522 Oak Park Road</u>
	<u>024/0712-292-8011-0 ✓</u>		<u>Deerfield WI 53531</u>
Existing/ Proposed Zoning District :	<u>See Tab 2 - Maps</u>		

- o Type of Activity proposed:
- o Hours of Operation
- o Number of employees
- o Anticipated customers
- o Outside storage
- o Outdoor activities
- o Outdoor lighting
- o Outside loudspeakers
- o Proposed signs
- o Trash removal
- o Six Standards of CUP (see back)

The statements provided are true and provide an accurate depiction of the proposed land use. I authorize that I am the owner or have permission to act on behalf of the owner of the property.

Submitted By: *Jeff Furseth*

Date: 11-15-18

Six Standards of a Conditional Use Permit

Provide an explanation on how the proposed land use will meet all six standards.

1. The establishment, maintenance or operation of the conditional use will not be detrimental to or endanger the public health, safety, comfort or general welfare.
2. The uses, values and enjoyment of other property in the neighborhood for purposes already permitted shall be in no foreseeable manner substantially impaired or diminished by establishment, maintenance or operation of the conditional use.
3. That the establishment of the conditional use will not impede the normal and orderly development and improvement of the surrounding property for uses permitted in the district.
4. That adequate utilities, access roads, drainage and other necessary site improvements have been or are being made.
5. Adequate measures have been or will be taken to provide ingress and egress so designed as to minimize traffic congestion in the public streets.
6. That the conditional use shall conform to all applicable regulations of the district in which it is located.

Six Standards of a Conditional Use Permit

- 1. The establishment, maintenance or operation of the conditional use will not be detrimental to or endanger the public health, safety, comfort or general welfare.***

Explanation: The CUP is in accord with the Town of Deerfield comprehensive plan. The operational plan protects the surrounding area and safeguards the public health, safety and comfort of the community. A Storm Water Pollution Prevention Plan is in place (see Tab 3 – Environmental Control Plans) – no water flow into the site; other than natural precipitation. We will use the best management practices for spill prevention and dust control. No chemicals are used in the quarry.

The site is secured by fences and a locking gate at the driveway. Trucks use about 2,700 feet of township road to access Highway 12 & 18, trucks must exit to the south on Oak Park Rd; except when there is a local delivery that requires them to go north on Oak Park Rd. Volume of trucks depends greatly on day to day demand. Oak Park Quarry, LLC will operate under the State of WI, County of Dane, Town of Deerfield and MSHA Regulations/Ordinances.

The site is in an agricultural community. Every attempt will be made to maintain the agricultural nature of the property by such things as seeded berms and planting of trees to conceal the quarry and continue to plant row crops on all available land surrounding the quarry.

- 2. The uses, values and enjoyment of other property in the neighborhood for purposes already permitted shall be no foreseeable manner substantially impaired or diminished by establishment, maintenance or operation of the conditional use.***

Explanation: The continued operation of the existing quarry will not devalue or interfere with the enjoyment of the surrounding properties. Berms will be completed along with the planting of trees surrounding the active mine sites to help reduce noise and visibility of the quarry from surrounding neighbors.

Best management practices will be utilized and a dust control plan is in place. Oak Park Quarry, LLC will operate under the State of WI, County of Dane, Town of Deerfield and MSHA Regulations/Ordinances.

Oak Park Quarry, LLC is actively seeking and interviewing blasting companies that have experience with up to date technology. Blasting will occur, but not limited to, 3-6 times per crushing event; the blast itself lasting approximately 1-3 seconds. We will be blasting within the Town of Deerfield Ordinances. Each crushing event should yield approximately 30,000 tons of material.

Material will be crushed and put into stockpiles. Demand will dictate how long the material lasts. On average, a quad axle dump truck holds approximately 22 tons of material. Our hours of operation are: 6 a.m. – 6 p.m. Monday – Friday; 7 a.m. – 1 p.m. Saturday and closed on Sundays and Holidays.

- 3. That the establishment of the conditional use will not impede the normal and orderly development and improvement of the surrounding property for uses permitted in the district.***

Explanation: The land to the north is agricultural and will be row cropped and will remain so until the quarry expansion progresses to the north. Land to the south has a farm house, older farm

buildings and agricultural land that is row cropped. Land to the east is wooded with row cropped farmland east of that. West side property line borders Oak Park Road.

4. *That adequate utilities, access roads, drainage and other necessary site improvements have been or are being made.*

Explanation: The conditional use is located in an area that will be satisfactorily served by and will not impose undue burden on any improvements, facilities, utilities or services provided by public agencies serving the subject property.

At this time, no additional services will be required. The existing driveway is paved and in good condition. Future use of a new driveway will be implemented as quarry expands. Future driveway was built with the public and township in mind, improvements were made and paid for by the operator.

Storm water is contained in quarry and overflow water is drained via sediment pond to adjacent waterway.

5. *Adequate measures have been or will be taken to provide ingress so designed as to minimize traffic congestion in the public streets.*

Explanation: The current entrance to the quarry will continue to be the primary driveway on Oak Park Rd; it is asphalt and will be maintained to meet all of Dane County standards including appropriate signage. Entrance is currently gated and is locked when quarry is not in use.

Upon approval of the requested CUP and Town of Deerfield blasting license approval - a new driveway will be put into use after it is completed going into the quarry. New driveway will be paved asphalt for 100 feet from the entrance at Oak Park Road; the remaining driveway will be crushed recycled blacktop. This means that the entire driveway from the entrance at Oak Park Road to the entrance of the quarry would be covered with asphalt or recycled blacktop; which will dramatically reduce any dust. We would also move the scale and portable scale house from its current location to the exit of the quarry (see Tab 2 - Maps), where it meets the driveway. We would then remove the old driveway and continue a berm including planting trees for aesthetics and to curtain the quarry. Future entrance would be gated and locked when quarry is not in use as it is with the current driveway. Future driveway will keep traffic on quarry property until it meets Oak Park Road. This means that our trucks will not need to drive on Oak Park Road in front of St. Paul's Liberty Lutheran Church or the Education Center; except for local deliveries.

There is an existing fence around the active quarry and it will remain in place. The following signs will remain in place on the fence: "No Trespassing" & "Active Quarry"

The active quarry site will be fenced in. As the active quarry site expands, the fence will also expand out as needed.

6. *That the conditional use shall conform to all applicable regulations of the district in which it is located.*

Explanation: Oak Park Quarry, LLC will operate under the State of WI, County of Dane, Town of Deerfield and MSHA Regulations/Ordinances.

**Conditional Use Permit
Application**

Oak Park Quarry, LLC

November 15, 2018

November 15, 2018

Roger Lane, Dane County Zoning Administrator
Dane County Planning & Development
Room 116, City-County Building
210 Martin Luther King Jr. Blvd
Madison, Wisconsin 53703-3342

Town Board c/o Town Clerk
Town of Deerfield
838 London Road
Deerfield Wisconsin 53531

Re: Oak Park Quarry, LLC Conditional Use Permit Application for Nonmetallic Mineral Extraction

Dear Representatives,

Approving a nonmetallic mining permit application is hard. Mineral resources are not located everywhere and, where present, are rarely where anyone wants them to be. The attached conditional use permit renewal documents aim to present the best information for the safe operation of the Oak Park Quarry, LLC - information that addresses the concerns of adjacent property owners, protects the environment, and allows for the economic development of the resource. Please review the enclosed information, and place this CUP renewal request on the December Town Board Agenda to review and obtain a decision for continued operation and referral to Dane County Planning & Development.

Background. The Oak Park Quarry, LLC was established about the same time as the Town of Deerfield and St. Paul Liberty Lutheran Church based upon local publications and accounts from the original quarry property owner, Vernon Mandt. Today, the town boasts a population of 1,615 people and the quarry, which started out as a small excavation for farm use, is 25.6-acres in size. Dane County recognizes operation of the 'Mandt Quarry' beginning in 1981. Vernon Mandt leased the property for aggregate production to operators such as Rude Construction and B.R. Amon. In 2010, the property was sold to Jon Halverson under "Oak Park Quarry, LLC".

Production at the quarry remained largely the same during Halverson's first four years of operation, and peaked in 2015 with the reconstruction of STH 73 and US 12/18. Next year, 2019, will mark 38 years of consistent quarry operation under the Dane County's Code of Ordinances.

Geology and Description of the Aggregate Resource. Based upon geologic maps of Dane County published by the Wisconsin Geological and Natural Resource Survey, the primary resource at the site is Ordovician, Platteville-Galena dolomite. The dolomite is present within 1 to 3 feet of the surface on the east perimeter of the excavation based upon NRCS soil maps (see Whalen Series Soils, WxC2 and WxD2, Area Soils in Attachment 2 – Maps).

The exposed rock face suggests the dolomite may be up to 80 feet in thickness in the east central portion of the property. Extraction is permitted to an elevation of 910' in the approved, 2016 reclamation plan. (Note: the water table is estimated 30 feet below this elevation at approximately 880' mean sea

level based upon the Dane County Water Table map published by the Wisconsin Geological and Natural History Survey, see Surrounding Area Water-Table Elevations, Attachment 2 – Maps.)

The site produces a number of crushed aggregates, including concrete stone, clear stone, rip rap, screenings and select crushed fill, and is considered an important resource for the purpose of aggregate production due to:

1. the material's accessibility from the surface,
2. location along major transportation corridors (STH 73 and US 12.18), and
3. commercial quality of the deposit

Wisconsin DOT records show aggregates produced from this site pass all State specifications for quality. A summary of WisDOT sampling results for the site is presented below.

Soundness	LA Wear	R4
3.8 - 4	35.3 - 46.5	58 - 87

Review of Alternate Locations. The renewal of the CUP was initiated by Jon Halverson in 2013, and a number of meetings have been held at the Town of Deerfield to discuss and explore expanded protections for the operation over the last five years (refer to Oak Park Activities Log, Attachment 1). The meetings were successful in identifying potential impacts and concerns of people living, leasing, or owning property in the vicinity of the site. The largest concern was for blasting vibration. This was primarily expressed by members of St. Paul's Liberty Lutheran Church located southwest of the operation, on the west site of Oak Park Road. Another property owner to the north expressed concern that the expansion would result in property value deflation.

While no official insurance claims have been filed by these residents, we are sensitive to these concerns, and commissioned a study of alternate resource locations. After an exhaustive search in Deerfield and surrounding townships, the Oak Park Quarry, LLC property still represents the best area for future mineral extraction for several reasons.

First, the resource is available and accessible from the surface. Although there are many areas where commercial-grade dolomite outcrops near the surface in Dane County, there are few areas remaining where nonmetallic mining is not precluded from extraction due to dense residential housing, or sensitive environmental corridors. This site has supplied aggregates to the local area for nearly two decades.

Second, the resource is centrally located on a US highway with direct access to Edgerton, Deerfield, and other Dane County Markets. Local mineral supplies are dwindling and, in some cases, nearly depleted in this area. Concrete stone in particular is in short supply. The current resource location on US 12/18 readily services outlying areas in a way that minimizes transportation along local town roads.

Third, the resource location is aesthetically protected by topography and vegetation. The landforms and vegetation that make up the site naturally screen the area of extraction from view on three sides, and minimize potential impacts due to dust or noise.

Fourth, the site is bordered by an underground pipeline (currently located to the north, and soon to be relocated to the south), and overhead communication towers. These utility corridors limit the future use of this property for residential growth.

Finally, the property contains enough reserves to make a profit after factoring in opening and closing reclamation costs. This is important because areas with limited reserves are not cost-effective to operate over the life of the deposit.

Proposed Expansion/CUP Application Highlights. Although there are many benefits to this location, there are still potential impacts to the environment, and public health and safety to consider. We have done our best to address them as part of the proposed CUP application and enclosed environmental control plans. Highlights of the 15-acre expansion include:

- extraction to the north, away from the Lutheran Church;
- a rerouted entrance to reduce traffic on Oak Park Road;
- the construction of a vision/noise berm, progressively installed, at the location of the existing entrance;
- additional pre-blast surveys as requested for residents within 1,320 feet.

We have additionally put into place a formal community response program, so that concerns are documented and investigated in cooperation with sector specialists from the Wisconsin Department of Commerce, Department of Natural Resources, Dane County Sheriff's Department, and/or other applicable government agency.

Agenda Request. We are grateful for the town's dedication and time to work through these issues over the past five years, and are committed to addressing the needs of the community as part of our proposed quarry expansion. A lot has changed since Jon Halverson's original CUP application in 2013. What hasn't changed is the need for quality aggregates to support the construction needs of our community, supply our local customers, pay our suppliers, and provide for our 13 employees and families, including Jon's wife and two children.

Please reserve a spot on the agenda for the December 11, 2018 Town Board Meeting for a decision on this issue, and contact me at (608) 884-9105 if you have any questions.

Sincerely,



Jeff Furseth

Oak Park Quarry, LLC.

Enclosures:

1. Attachment 1 - Proposed Operations

- Dane County CUP Application
- Application Checklist
- Legal Descriptions
- Proposed Operations
- Six Standards of a CUP
- Oak Park Activities Log

2. Attachment 2 - Maps

- Parcels and Zoning
- Aerial Photograph
- Area Topography
- Area Soils
- Area Water-Table
- Site Topography
- Operations Plan

3. Attachment 3 - Environmental Control Plans

- Fugitive Dust Control
- Blasting Management and Response
- Stormwater Pollution Prevention
- Community Response Form

CUP Application – Oak Park Quarry, LLC

(Responses to items asked on bottom of page 1 of application)

- **Type of Activity proposed:**
Expanding existing limestone quarry operation – mineral extraction.

- **Hours of operation:** 6:00 a.m. – 6:00 p.m. Monday thru Friday
7:00 a.m. – 1:00 p.m. Saturday
Closed Sunday

Closed the following Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day

- **Number of employees:**
1 – Office/scale house as needed
1 – Equipment operator as needed

- **Anticipated customers:** Contractors for both public and private projects, local townships and cities, Dane County and WIS DOT projects.

- **Outside storage:** Will be minimal. Primarily equipment used on site.

- **Outdoor activities:** Land around the quarry will continue to be farmed. Other quarry activities will include earth moving, processing rock, removing clay and fill.

- **Outdoor lighting:** One small yard light at scale house.

- **Outside loudspeakers:** No loudspeakers will be used.

- **Proposed signs:** Signs at quarry entrance/exit will include:
 - 1 – Stop sign
 - 1 – Left turn only (except local deliveries on Oak Park Rd)
 - 1 – No TrespassingSigns on fence surrounding pit will include:
 - 1 – Active Quarry
 - 1 – No Trespassing

- **Trash removal** – Trash is minimal and will be bagged and disposed of properly at our shop location.

- **Six Standards of CUP** - see Tab 1 – Proposed Operations

Please note, we are asking for a 10 year permit

Conditional Use Permit - Mineral Extraction Application Checklist

Applicant			Zoning
Plan Requirement	✓	Location in plan - page #	✓
1. Legal description - CSM and/or exact metes & bounds. Size of area requesting - acreage Parcel number(s)		Tab 1 44.74 acres Tab 1	
2. Written statement that includes the following:		Tab 1	
General description of the operation.		Tab 1	
Existing uses of the land.		Tab 1	
Existing natural features including depth to groundwater.		Tab 1 & 2	
Types and quantities of materials that will be extracted.		Tab 1	
Proposed dates to begin extraction, end extraction and complete reclamation.		Tab 1	
Proposed hours and days of operation.		Tab 1	
Geologic composition and depth to the mineral deposit.		Tab 1	
Identify all major proposed haul routes to the nearest Class A highway or truck route. Indicate traffic flow patterns.		Tab 1	
Proposed phasing plan (recommended for larger sites)		Tab 1 & 2	
Types, quantities and frequency of use of equipment to extract, process and haul.		Tab 1	
Frequency of blasting, drilling, mining, crushing, screening, washing, refueling.		Tab 1	
Bulk fuel storage.		Tab 1	
Asphalt batching or concrete mixing.		Tab 1	
Proposed storage of recycled materials.		Tab 1	
Does extraction occur below the water table / protection of groundwater.		Tab 1 & 2	
Permanent or temporary structures.		Tab 1	
Spill prevention and or dust control.		Tab 3	
Proposed use after final reclamation as consistent with Ch. 74. Separate checklist for reclamation permit.		Tab 1	

This checklist is required in addition to a complete application for a conditional use permit. Application may be deemed incomplete if required information is not submitted.

THE CONDITIONAL USE SHALL BE LOCATED ON THE PROPERTY DESCRIBED AS FOLLOWS: 3522 Oak Park Road, Town of Deerfield, Dane County, Wisconsin.

Parcel # 0712-293-8000-2

Description:

Part of the SE ¼ NW ¼, Section 29, Town of Deerfield described as follows: Commencing at the southeast corner of the Northwest quarter of said Section 29, thence West along the South line of said NW ¼ to the centerline of Oak Park Road and the Southwest corner of the SE ¼ NW ¼ of said Section 29; thence North along the West line of the SE ¼ NW ¼ of Section 29, 150 feet to the point of beginning; thence North along the West line of the SE ¼ NW ¼ of Section 29, 820 feet; thence east 1010 feet; thence S23 degrees West, 580 feet; thence South parallel to the West line of the SE ¼ NW ¼ of Section 29, 280 feet; thence West 770 feet to the point of beginning.

Also:

Part of the SE ¼ NW ¼ and part of the NE ¼ SW ¼, Section 29, Town of Deerfield described as follows: Commencing at the Southeast corner of the Northwest quarter of said Section 29; thence West along the South line of said NW ¼ to the centerline of Oak Park Road and the Southwest corner of the SE ¼ NW ¼ of said Section 29; thence North along the West line of the SE ¼ NW ¼ of Section 29, 150 feet to the point of beginning. Thence East 800 feet; thence South parallel to the West line of the SE ¼ NW ¼ and the NE ¼ SW ¼ of Section 29, 550 feet; thence West 800 feet; thence North along the West line of the NE ¼ SW ¼ and the SE ¼ NW ¼ of Section 29, 550 feet to the point of beginning.

Haul Road

Part of the NE ¼ of the SW ¼ and the SE ¼ of the SW ¼, all in Section 29, T.7N., R.12E., Town of Deerfield, Dane County, Wisconsin

Being more fully described as follows:

Commencing at the Northwest corner of the NE ¼ of the SW ¼; thence S02°17'09"W along the West line of said ¼ - ¼, 400 feet; thence N86°47'28"E, 800 feet

To the Southeast corner of lands described in conditional use permit number 2103 and the point of beginning; thence S02°39'45"W, 1254.34 feet; thence S11°30'15"W,

166.82 feet; thence S70°35'17"W, 500.33 feet; thence S52°13'56"W, 345.43 feet to the East line of Oak Park Road;

thence N87°41'21"W, 33.00 feet; thence N02°18'39"E,

84.82 feet; thence S87°41'21"E, 33.00 feet to the East line of Oak Park Road; thence N52°13'56"E, 300.56 feet; thence

N70°35'17"E, 473.59 feet; thence N11°30'15"W, 124.06 feet;

Thence N2°39'45"E, 1244.13 feet; thence N86°47'28"E, 66.34 feet to the point of beginning. Containing 3.38 acres.

New CUP

Part of the NE ¼ of the SW ¼ and the SE ¼ of the SW ¼, all in Section 29, T.7N., R.12E., Town of Deerfield, Dane County, Wisconsin

Being more fully described as follows:

Commencing at the North ¼ corner of Section 29; thence S86°45'36"W, 66.33 feet; thence S02°27'17"W, 1073.89 feet; thence N87°33'44"W, 204.12 feet to the Westerly

corner of Dane County Certified Survey Map number 8906 and the point of beginning; thence S02°26'27"W along the West line of said survey, 464.97 feet; thence

S16°02'52"W along said survey, 216.44 feet; thence S88°50'54"W, 972.85 feet to the East line of Oak Park Road; thence N02°22'42"E along said East line, 684.40 feet;

thence N89°32'09"E, 1023.92 feet to the point of beginning. Containing 15.80 acres.

Oak Park Quarry, LLC: Conditional Use Permit – Application

1. **Legal description** – see Tab 1 – Proposed Operations

2. **Summary of Proposed Operations:**

- **General description of the operation.** Extraction operations will include site development, limestone extraction, blasting, processing, product delivery and reclamation. Site development includes the removal of top soil to be used in berms (topsoil i.e. black dirt will not be sold) to conceal quarry. Stripping and piling of overburden for sale and use in reclamation will expose the limestone. Drilling and controlled blasting will be done to displace rock from the quarry face. Loosened rock will be processed with portable crushing equipment, stockpiled and hauled out as dictated by demand.
- **Existing uses of the land.** This property currently has an active quarry site operating under CUP #2103. The remaining land is agricultural land that is row cropped with a small farmette to the south and small wooded area to the east. Acres not needed for the quarry will remain row cropped.
- **Existing natural features including depth to groundwater.** Natural features on the land are gently rolling farmland. Ground water is at 880 feet and quarry floor will be a minimum of 30 feet above ground water; maximum depth of 910 feet will be the quarry floor. (see Tab 3 - Maps)
- **Types and quantities of materials that will be extracted.** Primary material removed from the site is high quality construction material, processed from the limestone. Quantities are based on the demand from local projects. Estimated tons are, but not limited to; 45,000-90,000 tons per year. Other products that would be sold are fill materials, hardpan overburden and clay.
- **Proposed dates to begin extraction, end extraction and complete reclamation.** This site is currently operating under CUP #2103 which expires on March 24, 2019. Operations will continue upon approval of a new CUP. Extraction for this quarry is expected to be 30-40 years; depending on market conditions and demand. Reclamation will be completed one year after completion of extraction.
- **Proposed hours and days of operation.**
 - Hours: 6:00 a.m. to 6:00 p.m. Monday – Friday
 - 7:00 a.m. to 1:00 p.m. Saturday
 - Closed Sunday
 - Closed the following Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day
- **Geological composition and depth to the mineral deposit.** This site has an average of 5 feet of overburden. This consists of top soil, clay and sandy hardpan over high quality Ordovician Platteville-Galena Dolomite. There is approximately 45-75 feet of limestone that is a minimum of 30 feet above the water table. No extraction of limestone will be below the water table on this site.
- **Identify all major proposed haul routes to the nearest Class A highway or truck route. Indicate traffic flow patterns.** Truck traffic will exit current quarry driveway south onto Oak Park Road. Trucks will use approximately 2,700 feet of Oak Park Road to access Highway 12 & 18. A new driveway will be used in the future which will require trucks to use only 525 feet of Oak Park Road. Traffic flow will continue to only go south on Oak Park Road; except for local deliveries that are north of the quarry on Oak Park Road.

- **Proposed phasing plan (recommended for larger sites)** General operations will include stripping of overburden, drilling, blasting and processing of limestone on the north face of the quarry. Our best estimate for expansion is approximately 1/2 acre of farm land per year, depending on market conditions.
- **Types, quantities and frequency of use of equipment to extract, process and haul.** Limestone will be extracted using various pieces of equipment. Dozers, excavators and haul trucks will be used for stripping of overburden and building of berms. A drill rig will drill holes in the limestone for blasting and portable crushing equipment will be used to process the fractured limestone into marketable products. A front end loader will remain on site at all times for loading of material as needed. Trucks will be used for hauling material from quarry to job sites.
- **Frequency of blasting, drilling, mining, crushing, screening, washing, refueling.** Frequency of crushing is greatly dependent on market demands. An average year of sales is close to, but not limited to 90,000 tons. In order to achieve this quantity; crushing would take place 3 times per year at an average production of 30,000 tons per planned crushing event. To achieve the desired amount of rock per crushing event, blasting would occur 3-6 times to extract the desired amount of fractured limestone.

There will be no washing of material at this location.

Refueling for portable crushing equipment will occur once a day when crushing is in operation. Refueling for front end loader is less frequent but based on demand for loading out material, an average of once per week.

- **Bulk fuel storage.** There is minimal fuel storage at this site. There is one double walled portable fuel tank at this location that is less than 1,100 gallons. There is a Spill Prevention Plan in place for this property.
- **Asphalt batching or concrete mixing.** Asphalt plant or concrete plant at this site is not part of this application.
- **Proposed storage of recycled materials.** Used blacktop and recycling concrete will be stored in piles above groundwater for future processing.
- **Does extraction occur below the water table / protection of groundwater.** No extraction will be completed below the water table.
- **Permanent or temporary structures.** There is a scale and portable scale house in use at the site. A small scale house with some storage may be built in the future.
- **Spill prevention and or dust control.** Best management practices will be used to control dust, noise, mud and spills. Entrance to the quarry is paved asphalt and all reasonable efforts will be made to eliminate dust and mud on the roads. Oak Park Quarry, LLC currently has a Storm Water Pollution Prevention Plan, Spill Prevention Plan (see Tab3 – Environmental Control Plans) and a Fugitive Dust Control Plan (see Tab 3 – Environmental Control Plans) that are included with this application.
- **Proposed use after final reclamation as consistent with Ch. 74. Separate checklist for reclamation permit.** Final reclamation includes returning the site back to agricultural use. Site will be cleared of debris, covered with topsoil and seeded to prevent erosion or returned to active row cropping.

Oak Park Quarry, LLC Activities Log

Date	Activity
November 2010	Vernon Mandt sold the 'Mandt Quarry' to Jon Halverson; quarry re-established as Oak Park Quarry, LLC
2010-2018	Quarry operated under the site's existing CUP; Notable Projects <ol style="list-style-type: none"> 1. Columbia Power Plant Clay Haul (2011) 2. MMSD Northeast Interceptor (2013) 3. COM Water Treatment – Nine Springs (2014-2015) 4. Siggelkow Road Bridge (2014/2015) 5. STH 73 and USH 12/18 Interchange (2015) 6. WI DOT #55 – IH39 (2016)
December 2013	Jon Halverson applies for a CUP expansion in preparation for STH 73 & US 12/18 construction in 2015
March 2014	Signed Road Maintenance Agreement with Town of Deerfield
September 2014	Vibra-Tech performs Existing Conditions Surveys: <ol style="list-style-type: none"> 1. Harbort residence, 1225 Liberty Road 2. St. Paul's Liberty Lutheran Church 3. St. Paul's Liberty Lutheran Church Education Center
March 2015	Town of Deerfield Blasting Ordinance adopted
March 2015	Vibra-Tech reviews and issues report, "Review of the Proposed "Town of Deerfield Blasting Ordinance, Chapter 2" <ol style="list-style-type: none"> 1. (dated 3/19/2015)
September 2015	Vibra-Tech performs Existing Conditions Surveys: <ol style="list-style-type: none"> 2. Harbort residence, 1225 Liberty Road 3. St. Paul's Liberty Lutheran Church St. Paul's Liberty Lutheran Church Education Center
December 2015	Last blast to date
December 2015	Hired Endpoint Solutions
January 2016	Endpoint Solutions completed a Property Values Analysis
March 2016	Lawrence W. Gubbe, Ph. D, P.E. – Presentation on Effect of Blasting presented at Town of Deerfield Open Meeting (3/29/16)
April 2016	Vibra-Tech offered to install a crack-gauge monitoring system at St. Paul's Liberty Lutheran Church; the Church declined this offer.
May 2016	Professor Charles H. Dowding attended a meeting at St. Paul's Liberty Lutheran Church to discuss blasting. He is a professor with Northwestern University has a BS from the University of Colorado, a Ph. D. from the University of Illinois. Post doc at the Norwegian Geotechnical Institute and an assistant professorship at MIT. He is also the author of 4 books.
August 2016	Issuance of new WDNR general WPDES permit for non-metallic mining
September 2016	Vibra-Tech performs a more detailed version of the Existing Conditions Surveys: <ol style="list-style-type: none"> 1. St. Paul's Liberty Lutheran Church 2. St. Paul's Liberty Lutheran Church Education Center
February 2018	Hired Susan Courter, geologist, Courter Resource Group, researched mineral resource potential
October 2018	Jeff Furseth attended Town of Deerfield Board Meeting
October 2018	Meeting at Dane County with Roger Lane and Dan Everson
November 2018	Meeting at St. Paul's Liberty Lutheran Church with Roger Lane
November 2018	Jeff Furseth meets with the Deerfield Town Board to provide a project update
November 2018	Property Value Analysis – no change since 2016
November 2018	Jeff Furseth applies to Dane County Zoning for a CUP renewal and 15.8-acre expansion to the north.

Fugitive Dust Control Plan

1. Site Roadways / Plant Yard

- A. The dust on the site roadways/plant yard shall be controlled by applications of water, calcium chloride or other acceptable and approved fugitive dust control compounds. Applications of dust suppressants shall be done as often as necessary to meet all applicable emission limits.
- B. All paved roadways/plant yards shall be swept as needed between applications.
- C. Any material spillage on roads shall be cleaned up immediately.

2. Plant

- A. The drop distance at each transfer point shall be reduced to the minimum the equipment can achieve. The transfer point from the re-circulating belt to the feed belt shall be equipped with an enclosed chute.

3. Storage Piles

- A. Stockpiling of all nonmetallic minerals shall be performed to minimize drop distance and control potential dust problems.
- B. Stockpiles shall be watered on an as needed basis in order to meet the opacity limits. Also, equipment to apply water or dust suppressant shall be available at the site, or on call for use at the site, within a given operating day. A record of all watering shall be kept on file and be made available to the Department upon request.

4. Truck Traffic

- A. On-site: Vehicles shall be loaded to prevent their contents from dropping, leaking blowing or otherwise escaping. This shall be accomplished by loading so that no part of the load shall come in contact within six (6) inches of the top of any side board, side panel or tail gate, otherwise, the truck shall be tarped.

5. Department Inspection

- A. The provisions and procedures of this plan are subject to adjustment if following an inspection and written notification, the Department finds the fugitive dust requirements and/or permitted emission limits are not being met.

Blasting Best Management Practices

INTRODUCTION

Oak Park Quarry, LLC is committed to operating safely and responsibly in all of our working areas. Our hard rock quarrying operations require the physical reduction of earth materials through the controlled use of explosives and/or blasting agents. The blasting is needed to displace the rock from the quarry face and to produce fragmentation that permits efficient crushing and sizing of the rock.

Due to Oak Park Quarry, LLC not being licensed for the handling and use of explosives, this aspect of our work must be contracted out to companies trained and certified in proper blasting technique. Our role, then, is to effectively communicate with these contractors so that their work properly fits our needs and adequately protects and addresses the concerns of surrounding residents.

The following management and response plan for blasting is designed to outline contractor responsibilities, responsible persons, record keeping procedures and management options for Oak Park Quarry, LLC. These requirements do not supersede any existing regulations in place at the local, state or federal level.

Blasting Protocol

The licensed explosives expert with whom Oak Park Quarry, LLC contracts to conduct the blasting, uses the following procedure:

1. Blasting will be conducted by a properly Wisconsin licensed class 3 or better blaster.
2. Notifications will be made by the blasting contractor and/or Oak Park Quarry, LLC at least 24 hours before any blast for St. Paul's Liberty Lutheran Church and anyone residing within 1,320 feet. Neighbors wishing to receive notifications outside of this area can petition the town board.
3. All blasting will be recorded by a seismograph.
4. All seismograph records will be available at any time for review by the residents, township or county.
5. All blasting will meet the Wisconsin Department of Commerce Administrative Code Chapter 7, Chapter 5, and the town of Deerfield Ordinance, and the Conditional Use Permit for the Oak Park Quarry, LLC.
6. Required financial assurance to town (see Sec. 2.15 Financial Assurance (2)).
7. Explosives use plan acceptable to town (see Sec 2.14).
8. Permitted hours of blasting are 9 a.m.-5 p.m. Mon-Fri. (see Sec 2.11).

9. Blasting Log – Prepared following town ordinance. 17 steps to be followed. Records have to be submitted to the town within 3 days for compliance.
10. Review Regulation of Blast Resultants. Must have proper instrumentation.
 - a. Monitor all blasts (see Sec 2.13)
 - b. Seismic monitoring (see Sec 2.13)
 - c. Pre-blasting notification (see Sec 2.10)
11. Pre-blasting Survey (see Sec 2.09). Everyone within 1,320 feet; see list of neighbors. Outside of 1,320 feet resident must petition the town board to request a survey. This is at the expense of the operator. 1,320 feet is determined from the boundary of the blast site.
 - a. Blast logs on file for affected area (see Sec 2.12)
 - b. Water quality test (see Sec 2.09)
 - c. Pre-blast survey (see Sec 2.09)
 - d. (3) Copies of pre-blast survey – resident, permittee, and town.

RESPONSE PROCEDURES

Should any type of damage occur due to any Oak Park, LLC operation, affected parties should contact Oak Park Quarry, LLC for investigation by qualified personnel. Anyone wishing to make a claim should follow the procedures listed below:

1. Within 24 hours of any damage, contact Oak Park Quarry, LLC at (608) 884-9105. Be prepared to provide the following information:
 - a. Name, address, phone number where you can be reached
 - b. Type of damage sustained
 - c. Location where the damage occurred
 - d. Time and date of damage
2. Within 72 hours, provide a written notification to the damage claim together with photographs of the damage. Provide the same information listed in number (1) above. Written notification should be sent via certified mail to:

Oak Park Quarry, LLC
353 Haugen Road
Edgerton, WI 53534-9370

3. Within 14 days, provide additional photographs, repair estimates and other documentation that you may feel is appropriate. Additional materials should be sent via certified mail to:

Oak Park Quarry, LLC
353 Haugen Road
Edgerton, WI 53534-9370

Oak Park Quarry, LLC will research and respond to all claims in cooperation with the State of Wisconsin. Confirmed damage will be forwarded to the appropriate insurance company for processing.

Attachments:

- Town of Deerfield Ordinance 2015-02 Chapter 2 Regulating Blasting, Section 2.08 through 2.15
- Town of Deerfield Pre-blasting Notification
- Blasting Notification List (this includes residents just beyond 1,320 feet; will also include St. Paul's Liberty Lutheran Church)

ORDINANCE 2015-02

**AN ORDINANCE CREATING CHAPTER 2 OF THE
TOWN OF DEERFIELD CODE OF ORDINANCES REGULATING BLASTING**

WHEREAS, the Town of Deerfield exercises village powers pursuant to a resolution of the town meeting granting such powers pursuant to §60.10, Wis. Stats; and

WHEREAS, residents of the Town have expressed concerns with regard to the adverse effects of blasting operations within the Town and the potential for damage to buildings and structures, including buildings of historic value, and the contamination of private water supply systems within the Town; and

WHEREAS, the Town Board has reviewed numerous studies and reports relating to the impacts of vibrations on humans and buildings from blasting operations and finds that blasting can be conducted consistent with the public health, safety and welfare only if properly limited in scope and intensity; and

WHEREAS, the Town Board finds that it is in the public interest to protect the public from adverse effects of blasting by imposing regulations on blasting operations that have the potential to cause external impacts; and

WHEREAS, the Town Board has further determined that it is necessary and appropriate to institute a licensing system to assure that blasting operations are properly monitored and carried out by qualified individuals, and that the public will be apprised of proposed blasting operations prior to their commencement; and

WHEREAS, the Town Board finds that it is reasonable and in the public interest to assure that those conducting blasting operations in the Town have the financial ability to compensate property owners within the Town having legitimate claims for damages caused by the blasting operations;


NOW, THEREFORE, the Town Board of the Town of Deerfield, Dane County, Wisconsin does ordain as follows:

Section 1. Chapter 2 of the Code of Ordinances is hereby created to read as set forth in Addendum A, attached hereto.

Section 2. This ordinance shall be effective on the day after publication hereof or of an appropriate notice hereof as provided by law.

Adopted this 23 day of March B.R. ~~April~~, 2015.


Bob Riege, Town Chairperson

Attest: 
Kim Grob, Town Clerk

- (e) A map showing the location of the controlled blasting site area, the location of all buildings located within 1320 feet of the controlled blasting site area, and the names, addresses and contact information of the owners of those buildings.
 - (f) A description of the general operations conducted at the site.
 - (g) A certificate of insurance certifying a current policy of liability insurance satisfying the requirements of §2.15.
- (5) An application shall be regarded as "complete" only when all of the information and the fee payment required by this section have been received by the Town Clerk.

2.07 License Approval.

Upon receipt of a completed application form and the license fee, the Town Clerk shall place the application on the agenda for the next regular meeting of the Town Board scheduled more than 72 hours after submission of the application. If the Town Board determines that the application is complete and the proposed blasting activity will not likely create an unreasonable risk of injury to persons or property in the Town, the Town Board shall grant a blasting license. If the Town Board determines that the application is incomplete or that the proposed blasting activity is likely to create unreasonable risks to persons and/or property, it shall deny the license. In granting a license, the Town Board may impose any conditions it determines to be reasonably necessary to assure compliance with this chapter and §SPS 307, Wis. Admin. Code and to minimize the adverse impacts of the blasting operation on persons and property outside the controlled blasting area.

2.08 Control of Adverse Effects of Blasting

- (1) Blasting operations shall not cause impacts at any residence, private well, or inhabited structure that is not owned or controlled by the operator in excess of the following standards:
- (a) Ground vibrations shall not exceed a PPV of 0.30 inches per second from more than two (2) individual blasts out of any ten (10) consecutive blasts;
 - (b) Ground vibrations shall not exceed a PPV of 0.40 inches per second from any individual blast;
 - (c) The frequency of ground vibrations caused by blasting under the license shall not be less than 14Hz from more than one (1) individual blast out of any ten (10) consecutive blasts.;
 - (d) Ground vibrations shall not, in any case, exceed any ground vibration limitation imposed by the Wisconsin Department of Safety and Professional Services in Figure 7.44 of §SPS 307, Wis. Admin. Code.; and

- (e) The blasting operation shall not cause an airblast of an intensity greater than 123 dB(A) from more than one (1) individual blast out of any ten (10) consecutive blasts, nor more than 128 dB from any individual blast.

2.09 Pre-blasting Survey

- (1) At least 5 days prior to submitting a blasting license application, the applicant shall notify, in writing, all residents or owners of buildings or other structures (including, but not limited to, wells) located within 1320 feet from the controlled blasting site area that the applicant intends to apply for a blasting license from the Town. The written notification shall include a statement indicating that, upon the written request of the owner or resident of the subject property, the applicant will perform a pre-blasting survey, to provide a baseline record of the pre-existing condition of building, structures, water supply wells and well water quality on the property against which the effects of blasting can be assessed. Any survey conducted shall include both the interior and exterior of the buildings. The notice shall indicate that no survey will be done unless the resident or owner makes a written request for the pre-blast survey and/or a water quality test for existing wells. The resident or owner shall make any request for a pre-blast survey or water quality test to the applicant, in writing. The applicant shall conduct a pre-blast survey only of requested dwellings or structures and conduct water quality testing as requested for existing wells at the applicant's expense.
- (2) If the resident or owner requests a copy of the survey and/or any well test results, the applicant shall provide the requested materials within 48 hours of the request or of the applicant's receipt of the survey or test results, whichever is later.
- (3) The Town reserves the right to require a baseline well pre-blast test and/or any post-blast well testing at any well in operation, not owned by the operator, within 1320 feet of the controlled blast site area.
- (4) Any pre-blast water quality and sediment testing shall be conducted by an independent testing company and a laboratory approved by the State of Wisconsin or an organization selected by the applicant and approved by the Town Board. All costs of such surveys and testing shall be the sole responsibility of the operator.

2.10 Notification of Blasting

The operator shall give notice of each blasting event as provided in this section.

- (1) At least 24 hours prior to initial blasting at a blast site, the operator shall notify all residents and owners of affected buildings of the anticipated date and time of each blasting event. The operator shall make all reasonable efforts to ensure timely and effective notice, using such means as a written notice, telephone, email or in-person communication.
- (2) The operator shall maintain a resident and owner call list for the purpose of notifying

persons living in the vicinity of the blast site of blasting events. A resident or owner shall be placed on the call list only upon request to be so listed and contacted in the manner indicated by the resident or owner. The operator shall use the call list to provide notice as required under this section in the manner requested by the resident or owner.

- (3) Whenever blasting is being conducted in the vicinity of gas, electric, water, fire alarm, telephone, telegraph or steam utilities, the appropriate utilities shall be notified no less than 72 hours prior to commencing blasting.
- (4) Verbal (in person or telephone) or written (on hard copy or email) notice shall be given to the Town Clerk at least 24 hours prior to the onset of any blasting event. The operator may include a schedule including dates and times of scheduled blasting events with its application in lieu of providing the notice required by this subsection D for the listed blasting events. Separate notice shall be provided of any change in the scheduled blasts.

2.11 Blasting Hours.

All blasting operations shall be conducted between 9:00 am and 5:00 pm on Mondays through Fridays.

2.12 Blasting Log

An accurate blasting log shall be prepared and maintained for each blast fired, and furnished to the Town within 3 working days after each blast. A true and complete copy of the log shall be kept by the operator for a period of not less than 5 years. The Town may require that the operator furnish an analysis of any particular blasting log to be prepared by the operator. Each blasting log shall include at least the following information:

- (1) Name, signature and license number of the blaster in charge of the blast.
- (2) Specific blast location, including address, bench and station number if applicable.
- (3) Type of blasting operation.
- (4) Date and time of the blast.
- (5) Weather conditions at the time of the blast.
- (6) Diagram of the blast layout and the delay pattern.
- (7) Number of holes.
- (8) Hole depth and diameter.
- (9) Spacing of blast holes.
- (10) Burden of blast holes.
- (11) Maximum holes per delay.
- (12) Maximum pounds of explosives per delay.
- (13) Number, type and length of stemming used between decks.
- (14) Total pounds and type of explosives used.
- (15) Distance to nearest inhabited building not owned by the operator.
- (16) Type of initiation used.
- (17) Seismographic and airblast records, which shall include all of the following:

- (a) Type of instrument and last laboratory calibration date.
- (b) Exact location of instrument and the date, time, and distance from the blast.
- (c) Name of the person and firm taking the reading.
- (d) Trigger levels for ground and air vibrations.
- (e) The vibration and airblast levels recorded.

2.13 Monitoring

- (1) The operator shall monitor with suitable seismographic measurement and recording equipment all blasts at the 3 closest locations to the controlled blast area of any affected building or structure beyond the controlled blasting area, and any building of historical interest within ¼ mile of the controlled blasting area, provided, however, that the operator may monitor at another location approximately the same distance from the perimeter of the controlled blast area if the operator is unable to obtain permission to conduct the monitoring from the owner of the required location.
- (2) The Town Clerk or Town Board, may, at its discretion, require the relocation of the monitoring equipment to a more suitable site if deemed necessary to obtain appropriate information to evaluate the impacts from the blasting operation.

2.14 Storage of Explosives

No storage of explosive material on site is allowed for any period in excess of 48 hours.

2.15 Financial Assurance

- (a) Each application for blasting license, or a renewal thereof, shall be accompanied by a Certificate of Insurance for a Commercial General Liability Policy against claims for bodily injury, death, or property damage arising out of the blasting operation. Said Policy of Insurance shall have limits of coverage of not less than five million (\$5,000,000.00) dollars in the aggregate and two and one-half million (\$2,500,000.00) dollars per occurrence.
- (b) Each insurance policy shall provide that it shall not be cancelled by the insurance company, except after not less than ninety (90) days' notice to the Town, in writing, by registered or certified mail. Not less than thirty (30) days prior to the expiration of the ninety (90) day notice of cancellation, the license holder shall deliver to the Town a certificate representing a replacement insurance policy. In the event the replacement certificate is not timely provided, the blasting license shall be automatically suspended until the certificate is provided, and all blasting shall immediately cease. The liability insurance policy must be issued by a company licensed by the State of Wisconsin to issue the policy.

**Forever Sandfill & Limestone, Inc.
Blasting Notification List
Oak Park Quarry, LLC.**

Name(s)	Address	City	State	Zip
Deerfield, Town of	838 London Road	Deerfield	WI	53531
Frjelich, Ken & Mallory	1285 Olstad Road	Deerfield	WI	53531
Harbort, Karen	1225 Liberty Road	Deerfield	WI	53531
Mandt, Dennis & Virginia	1191 Liberty Road	Deerfield	WI	53531
Neville, Shawn	3680 Oak Park Road	Deerfield	WI	53531
Opie, James & Judy	3675 Oak Park Road	Deerfield	WI	53531
Pastor Holly	3494 Oak Park Road	Deerfield	WI	53531
Reese, David & Gina	1291 Olstad Road	Deerfield	WI	53531
St. Liberty Luther Church Office	3494 Oak Park Road	Deerfield	WI	53531



**STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES**

**GENERAL PERMIT TO DISCHARGE UNDER THE
WISCONSIN POLLUTANT DISCHARGE ELIMINATION SYSTEM
WPDES PERMIT NO. WI-A046515-6**


In compliance with the provisions of Chapter 283, Wis. Stats., and ch. NR 216, Wis. Adm. Code, any facility located in the State of Wisconsin, excluding initial coverage within Indian Country after September 30, 2001, engaging in

NONMETALLIC MINING OPERATIONS (NON-INDUSTRIAL SAND AND OTHER AGGREGATES)

and meeting the applicability criteria in section 1 of this permit and that receives a letter from the Wisconsin Department of Natural Resources (Department) granting coverage under this permit, is authorized to discharge storm water and wastewater to waters of the state provided that the discharge is in accordance with the conditions set forth in this permit.

This permit is issued by the Department and covers discharges from the facility as of the **Start Date** of permit coverage to the permittee. For initial permit coverage, the Department will transmit a cover letter to the permittee stating that the facility is covered under this permit. Initial coverage under this permit will become effective at a new facility beginning upon the **Start Date** specified by the Department in the cover letter. For an existing facility with permit coverage under a previously issued version of a nonmetallic mining operations general permit, coverage under this permit will become effective at the facility beginning upon the **Effective Date** below. For these facilities, the **Effective Date** is the **Start Date**.

State of Wisconsin Department of Natural Resources, For the Secretary

By 
Pamela A. Biersach, Director
Bureau of Watershed Management

July 29, 2016
Date Permit Signed

PERMIT EFFECTIVE DATE: August 1, 2016

EXPIRATION DATE: July 31, 2021

**GROUND WATER AND STORM WATER
POLLUTION PREVENTION
AND
SPILL RESPONSE PLAN**

For

FOREVER SAND FILL AND LIMESTONE, LLC

AGGREGATE PROCESSING OPERATIONS

Forever Sand Fill and Limestone, LLC

353 Haugen Road

Edgerton, WI 53534

(608) 884-9105

Facility Contact Personnel

Jeffry Furseth

Forever Sand Fill and Limestone, LLC
Ground Water and Storm Water
Pollution Prevention and Spill Response Plan
for
Nonmetallic Mineral Processing

Purpose and Scope

This pollution prevention plan concentrates on identifying potential pollutants at the work site, and adopting management practices that eliminate their contact with sensitive waters of the State. The primary focus of this plan is to provide education for field employees, thereby reducing human error as a contributor to environmental pollution.

I. Potential Pollutants

A. #2 Fuel Oil

1. Spills during equipment refueling
2. Bulk shipment deliveries - overfill
3. Broken or leaking fuel lines and hoses

B. Lubricating Oils

1. Overfilling gearboxes
2. Leaking seals on mechanical equipment
3. Engine breather pipes
4. Spills during oil changes
5. Improper storage of oil inventory

C. Grease

1. Over greasing bearings and wear surfaces
2. Improper disposal of cleaning towels

D. Antifreeze

1. Leakage from damaged radiators
2. Overfill/spill

E. Sediment

1. Runoff not contained on site
2. Poor operating techniques

II. Implementation of Best Management Practices (BMP)

A. Education

- a. The pollution prevention plan is reviewed at the annual safety meeting. The intent of the plan is stressed, and changes or improvements are noted. Field employees discuss the plan, and exchange ideas for potential plan improvement. Any new ideas that contribute to the intent of the plan are included in the written pollution prevention plan for the next year.
- b. Information about the importance of pollution prevention is routinely stressed at scheduled tailgate safety meetings. Topics for discussion include safe petroleum product handling, proper maintenance procedures and routine inspection of the equipment during operation. Personnel are encouraged to take a pro-active role in prevention of spills. Good housekeeping practices are stressed for control of minor drips and leaks from daily maintenance and operation.

B. Inspection and Supervision

- a. The gravel pit or quarry and associated processing equipment is routinely inspected each day of operation to ensure that all equipment is functioning properly, all valves are closed, and significant materials are properly stored and secure.
- b. Fuel transfers are supervised to ensure that spills do not occur. Plant personnel assist tanker drivers as needed to provide safe and effective transfer of fuels.
- c. Refueling of plant equipment is monitored at all times to eliminate overfilling.

C. Communication and Response

- a. The emergency response plan for spills is posted in the repair trailer for the rock crushing operations. Employees are aware of the location of the listing and follow the outlined procedure in a spill response situation.
- b. Plant personnel respond immediately to a spill situation to mitigate effects and isolate/control source of spill. Operations are immediately shut down when necessary to redirect on-site resources and manpower in spill response.
- c. Company contact personnel and emergency phone numbers are posted in the repair trailer to provide operators with immediate access to company support. Contact with Dick Bakken is established as soon as possible after the spill so that proper reporting requirements can be met.

D. Selection of Plant Sites

- a. Environmental impacts in equipment and work areas are considered prior to set up in any location.
- b. Whenever possible, processing equipment is located in a pit or quarry that provides natural, on site containment of storm water runoff, and ample protection for sensitive ground water supplies.
- c. In locations where there is increased environmental sensitivity because of proximity to receiving waters, lack of natural containment, or other critical factors, berms or diking will be constructed that will contain runoff or protect a potential spill from releasing into the ground water in the immediate equipment area.

E. Petroleum Product Storage

- a. All fuel tanks shall have drip pans or absorbent material available for nozzle storage between refuelings. Tanks and hoses are inspected daily for integrity and any problems are corrected.
- b. Lubricants and grease are stored in the repair or service trailer until needed. The storage area is secured at end of each operating cycle.
- c. Drip pans and contaminated absorbent material are replaced at the end of each work shift and at the onset of precipitation to eliminate ground water and surface water exposure to petroleum products. Containers are located in the service trailer for storage of used absorbents and other cleanup materials.
- d. Used oil and grease from equipment service and repair is stored inside the plant service trailer until collected for off-site disposal.

F. Repair and Maintenance

- a. Engines and gearboxes will be inspected and fully serviced as needed during the off-season to eliminate leaking seals, fuel lines, and gaskets. Leaks that develop during operation are contained by drip pans, absorbents, or other acceptable means, until company maintenance personnel repair the problem. In cases where continued operation may cause uncontrollable fluid losses, plant operations will cease until the problem is corrected.
- b. Plant employees are instructed in proper lubrication procedures for plant equipment. Manufacturers specifications are followed to eliminate over-fills of gearboxes and crankcases. Greasing of bearings and wear surfaces is carefully monitored to eliminate unnecessary grease contact with the ground. Overflow from bearings is collected and disposed of with contaminated absorbent material.

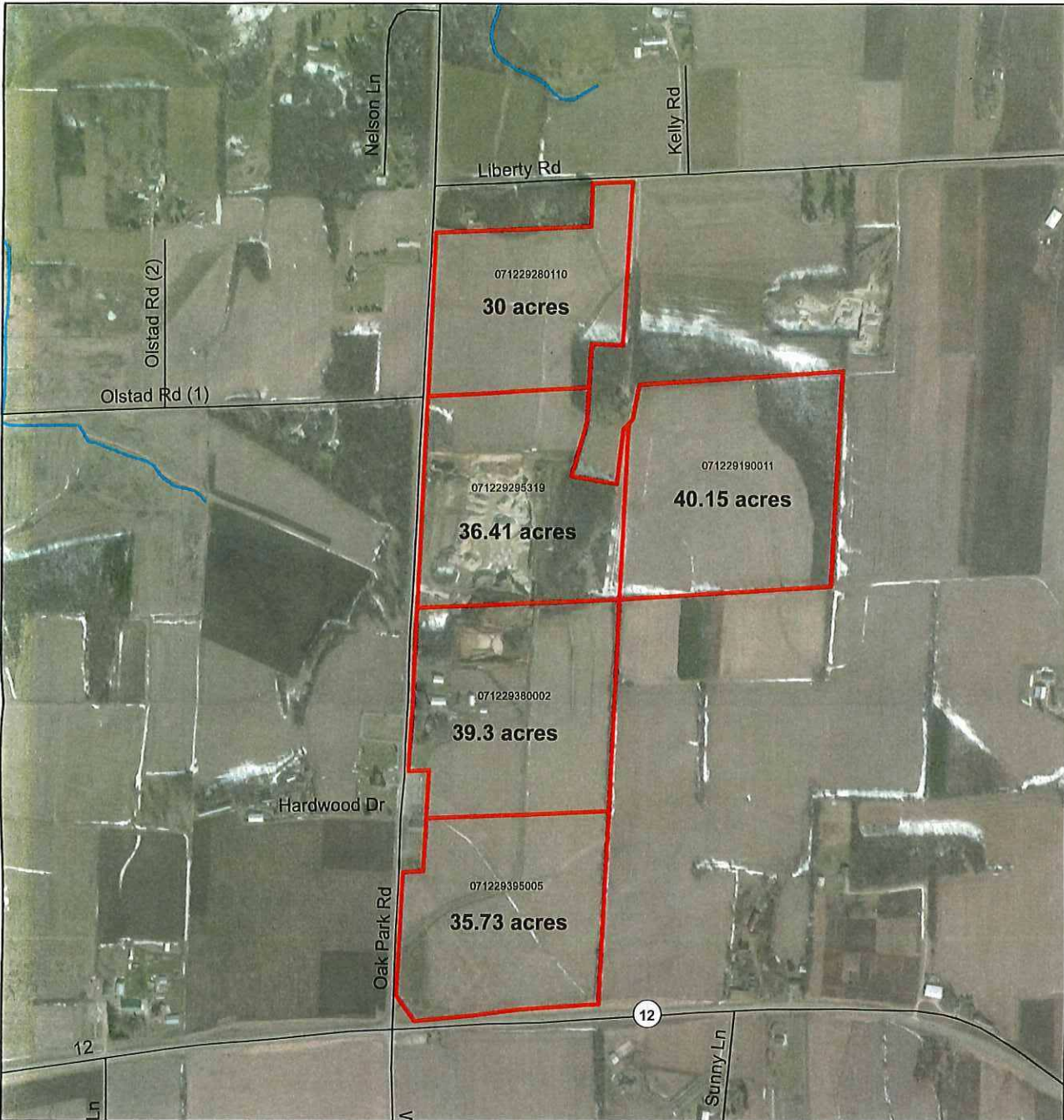
- c. Routine engine oil changes are done with adequate absorbent material to provide for drips and spills associated with maintenance operations. Waste oil is stored in spill proof containers until picked up for off-site disposal.
- d. Any leaks that develop during the course of operation may, at the foreman's discretion, be contained with drip pans or petroleum absorbent material, as long as plant operation ceases prior to a storm event and containment vessels are cleaned and free of petroleum to prevent contact with ground water or storm water.
- e. Repair and maintenance procedures are conducted in the shop, service trailer or outside with adequate containment for degreasing and cleaning. Petroleum absorbent material is available as needed to supplement containment.

G. Use of Available Resources

- a. Housekeeping supplies, including drip pans and absorbent materials, are kept on inventory in the repair trailer at all times. All plant personnel have access to these materials, and are instructed in their use. Additional booms or pads are available upon request.
- b. All plant personnel are available to respond to petroleum spills as needed. Other resources may be mobilized to mitigate the effects of a petroleum release, such as subcontractors, additional equipment, or additional personnel.
- c. If necessary, plant loading equipment may be used to construct temporary berms or place aggregates for absorbing free flowing liquids. Loading equipment can also be used for backfilling or removing impacted soils or aggregates.

H. Construction of Containment

- a. When a plant must be placed in an area where additional containment is needed because of the amount of fines being produced; field employees may elect to construct berms or temporary basins for collection and control of contaminated water. Necessity of construction is based on slope of plant site, area drained, soil type, and proximity to receiving waters. Other influences may be considered on a site-specific basis as needed to fulfill the purpose of the plan.
- b. Water collected in on-site-basins is routinely inspected by field personnel for evidence of petroleum sheen or odor. If no evidence of contamination is apparent, the water may be released by gravity flow or by pumping. Release of water must be done in a manner that will not induce erosion or release water with high sediment loadings into receiving waters. Water collected in on-site basins that shows evidence of petroleum contamination is pumped into disposal tanks for transport to approved facilities.
- c. Erosion control measures outside of plant and equipment work areas may be identified by field personnel. In these situations, company officials should be notified, so that site-specific BMP's can be implemented.

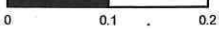


Aerial Photograph
 Oak Park Quarry LLC
 3522 Oak Park Road
 Deerfield, WI 53531

181.59 acres

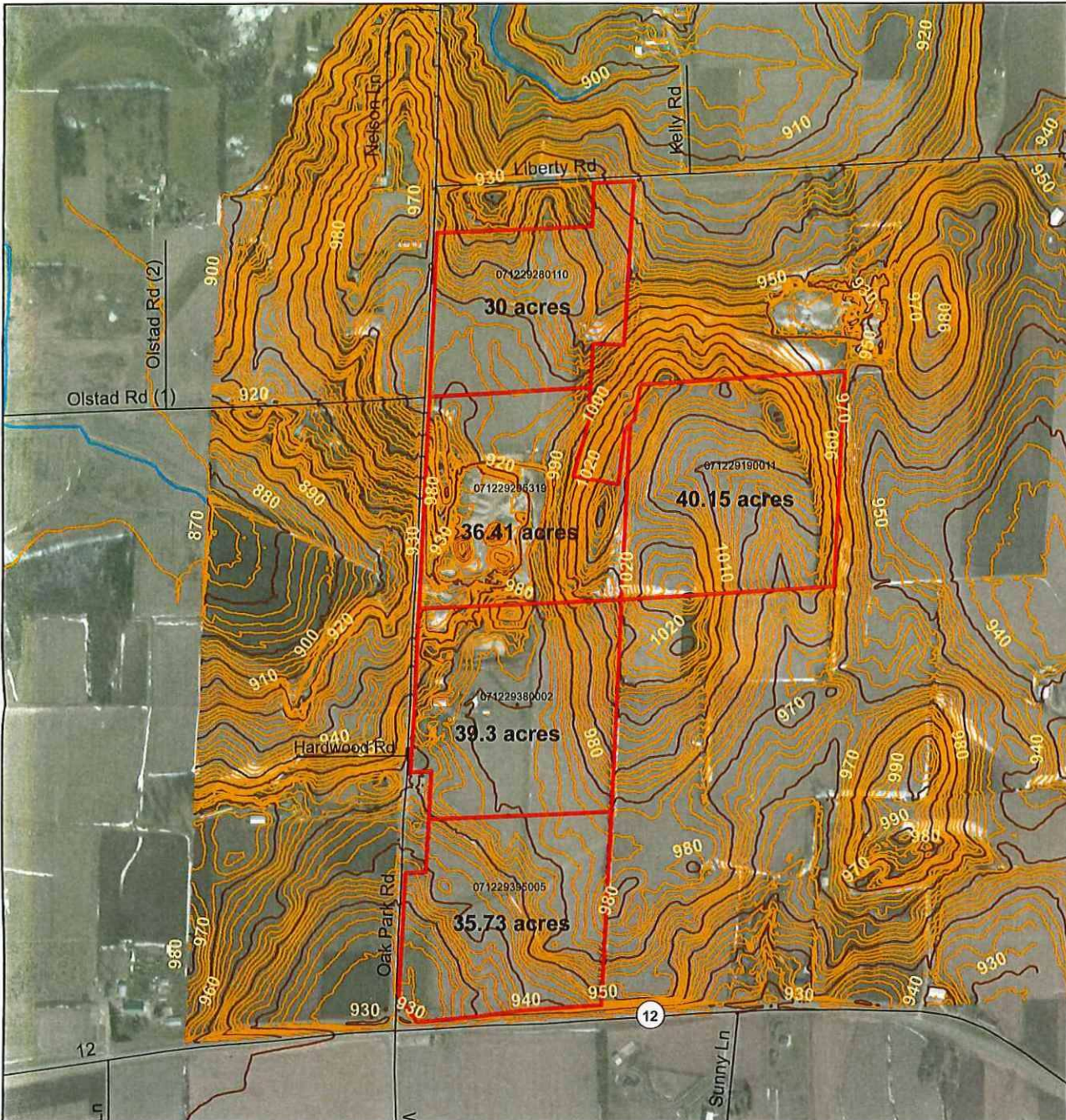


Scale in Miles



Scale is approximate and is not based upon legally recorded or surveyed data.

Source: Property Boundary, Zoning & Contours - Dane County GIS 2018; Hydrology - W/DNR, 2015; Road Centerline - W/DOT, 2018; Soils - NRCS, unknown date; Basemap - Esri, 2018



Area Topography
 Oak Park Quarry LLC
 3522 Oak Park Road
 Deerfield, WI 53531

181.59 acres

Contour Interval = 2'



Scale in Miles

0 0.1 0.2

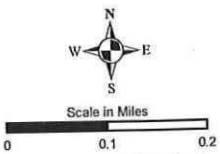
Scale is approximate and is not based upon legally recorded or surveyed data.

Source: Property Boundary, Zoning & Contours - Dane County GIS 2018; Hydrology - WDNR, 2015; Road Centerline - WDOT, 2018; Soils - NRCS, unknown date; Basemap - Esri, 2018




Area Soils
 Oak Park Quarry LLC
 3622 Oak Park Road
 Deerfield, WI 53531

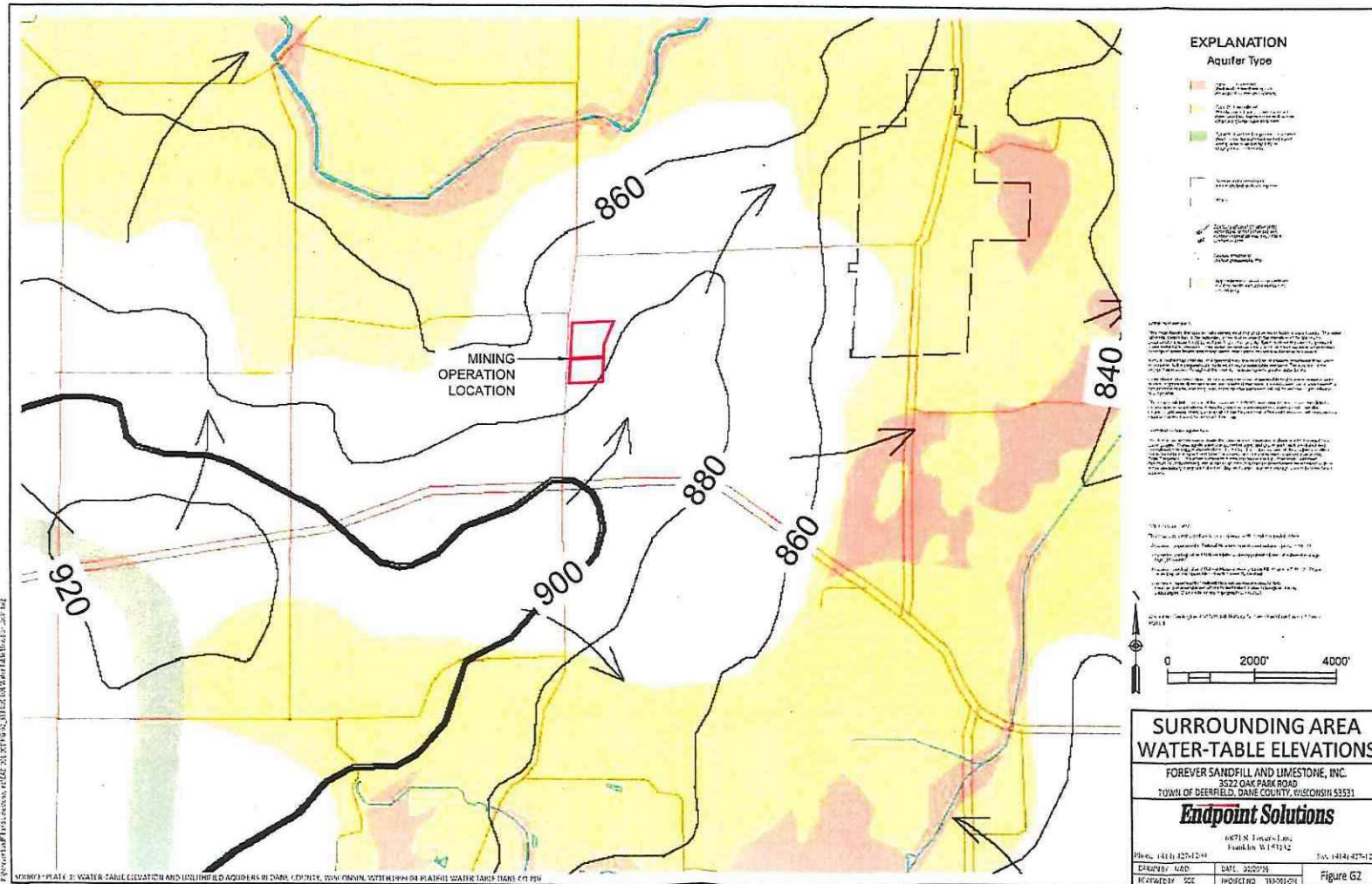
181.59 acres



Scale is approximate and is not based upon legally recorded or surveyed data.

 Section Boundary

Source: Property Boundary & Zoning - Dane County GIS, 2018;
 Hydrology - WDNR, 2015; Road Centerline - WDOT, 2018;
 Soils - NRCS, unknown date; Basemap - Esri, 2018



Forever Sandfill and Limestone, Inc. 3522 Oak Park Road, Deerfield, WI 53521
 Endpoint Solutions 1871 S. Tower Lane, Franklin, WI 53142
 Phone: (414) 927-1210 Fax: (414) 927-1211

MINING OPERATION LOCATION



Site Topography
 Oak Park Quarry LLC
 3522 Oak Park Road
 Deerfield, WI 53531



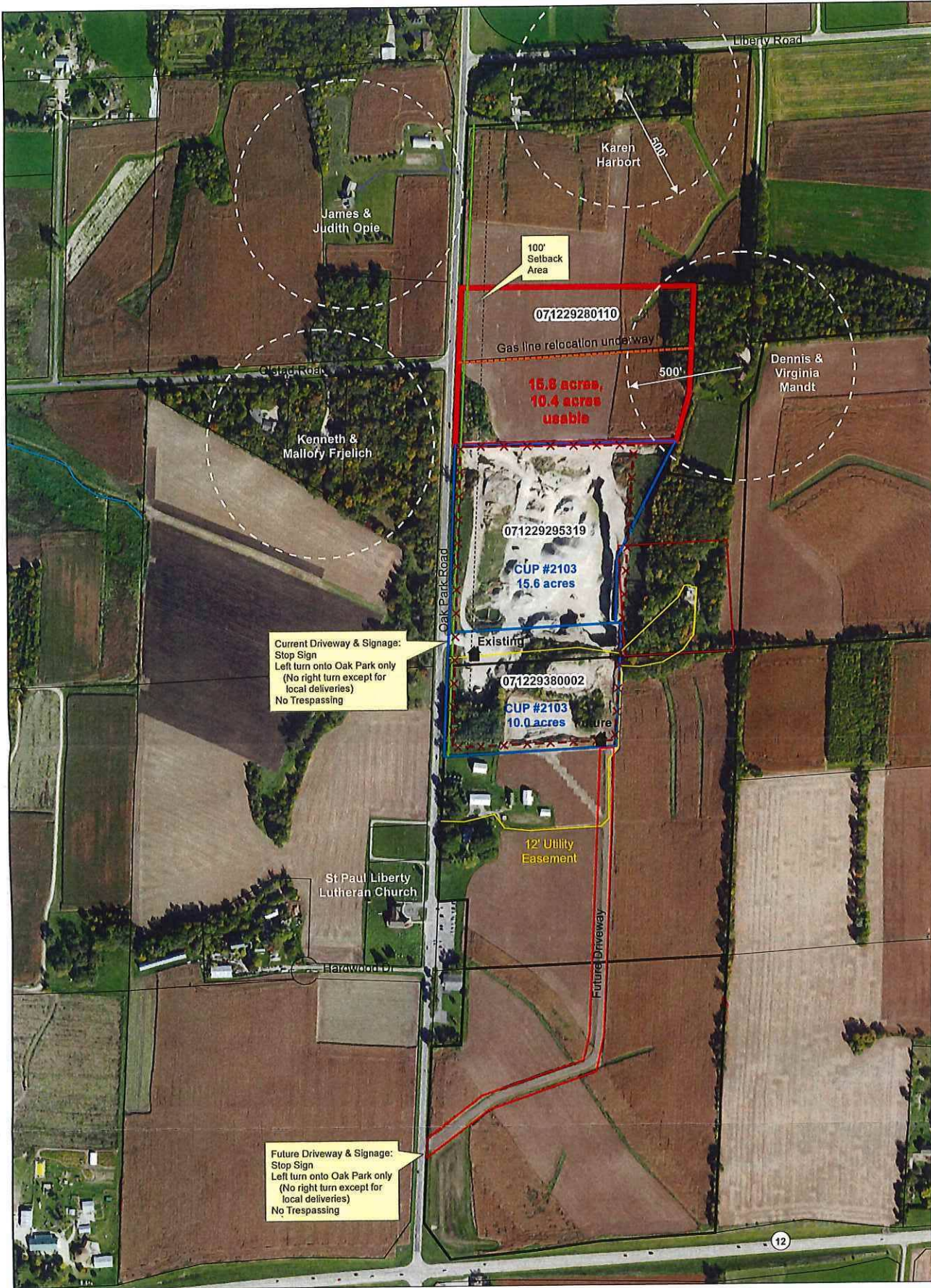
Scale in Feet
 0 100 200 300

Scale is approximate and is not based upon legally recorded or surveyed data.

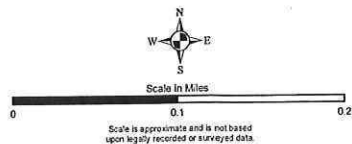
- Scale House
- 100' Setback
- 10' Contour Interval
- Current Fence
- Berm
- Existing CUP Boundary

Source: Parcels, Contours - Dane County GIS, 2018;
 Road Right of Way - WDDOT, 2018; Orthophotograph - NAIP, 2014

The data in this map was obtained from multiple sources and agencies. This information is provided with the understanding that it is not guaranteed to be current, correct or complete and assumes no responsibility for the accuracy of this map or its use or misuse. The map is intended for use as a general reference only.



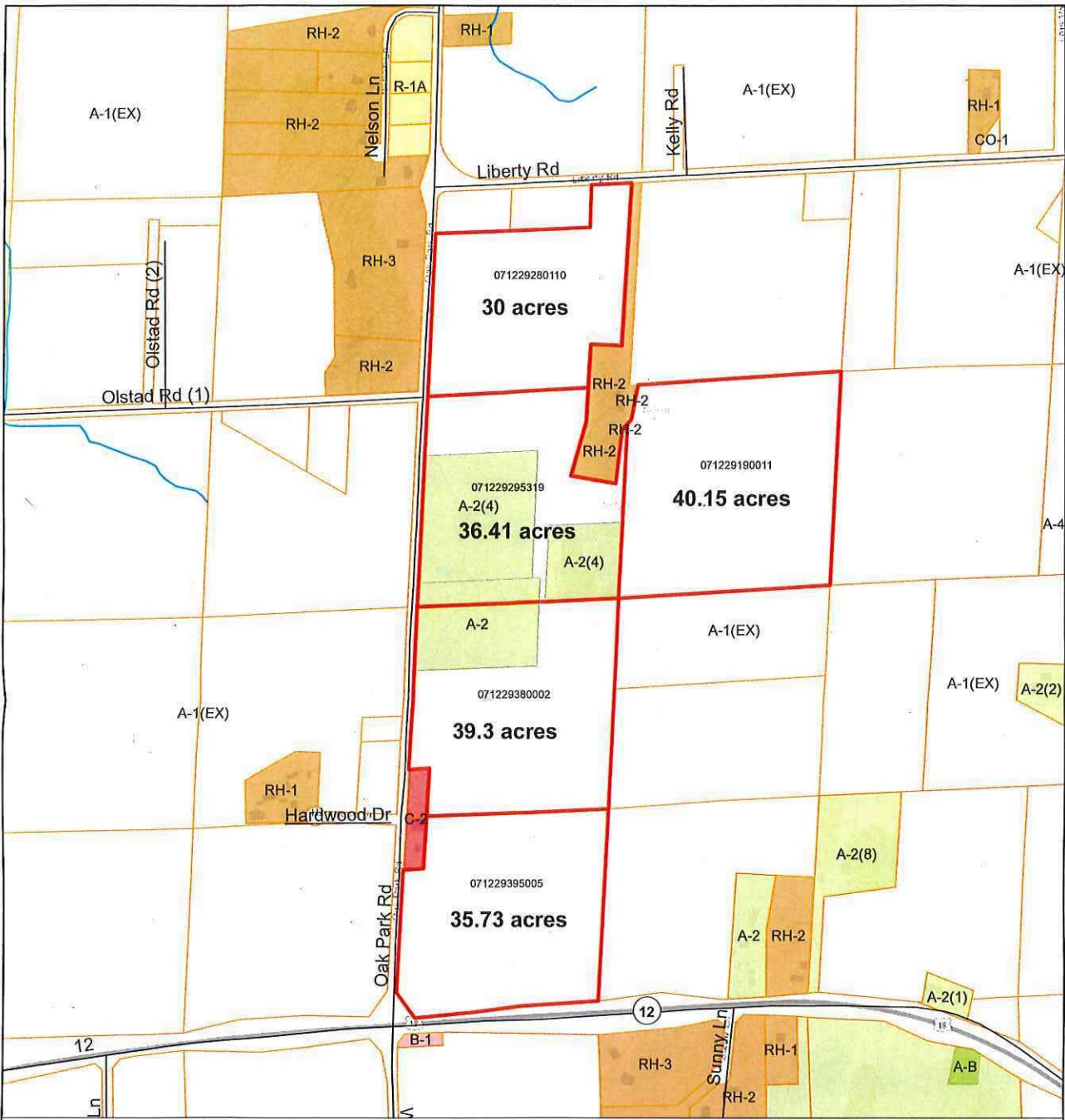
Operations Plan
 Oak Park Quarry LLC
 3522 Oak Park Road
 Deerfield, WI 53531



- 100' Setback
- Berm
- Future Driveway
- Existing CUP Boundary
- Proposed CUP Boundary
- Scale
- Gas Line
- X-X Current Fence
- Utility Easement
- Tower Area

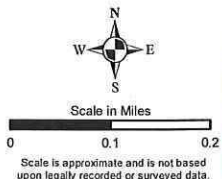
Source: Parcels - Dane County GIS, 2018; Hydrology - WDNR, 2015; Road Centerline - WIDOT, 2018; Orthophotograph - NAI, 2018

The data in this map was obtained from multiple sources and agencies. This information is provided with the understanding that it is not guaranteed to be current, correct or complete and assumes no responsibility for the accuracy of this map or its use. The map is intended for use as a general reference only.



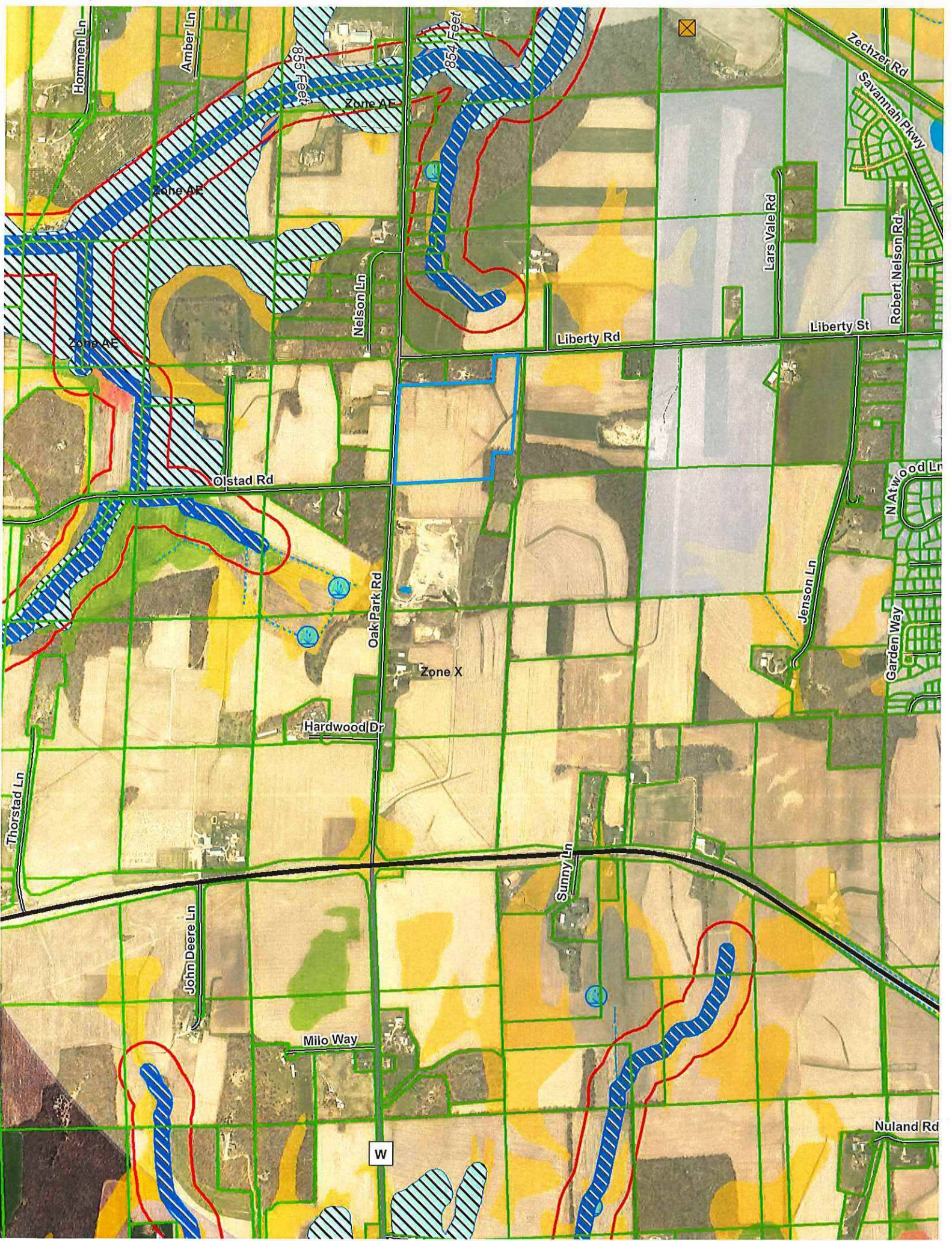
Parcels & Zoning
 Oak Park Quarry LLC
 3522 Oak Park Road
 Deerfield, WI 53531

181.59 acres



- | | |
|---|------------------------|
| A-1 or A-1EX Agricultural | R-1; R-1A; R-2; R-3 |
| A-2; A-2(1); A-2(2); A-2(4); A-2(8); A-3 Agricultural | RH-1; RH-2; RH-3; RH-4 |
| A-B Agricultural Business | Other |
| B-1 Local Business | |
| C-2 Heavy Commercial | |
| | CO-1 Conservancy |

Source: Property Boundary, Zoning & Contours - Dane County GIS 2018; Hydrology - WDNR, 2015; Road Centerline - WIDOT, 2018; Soils - NRCS, unknown date; Basemap - Esri, 2018





Oak Park Rd

Hardwood Dr

071229395005
OAK PARK QUARRY LLC

12 & 18

Sunny Ln

John Deere Ln

W

Olsfald Rd

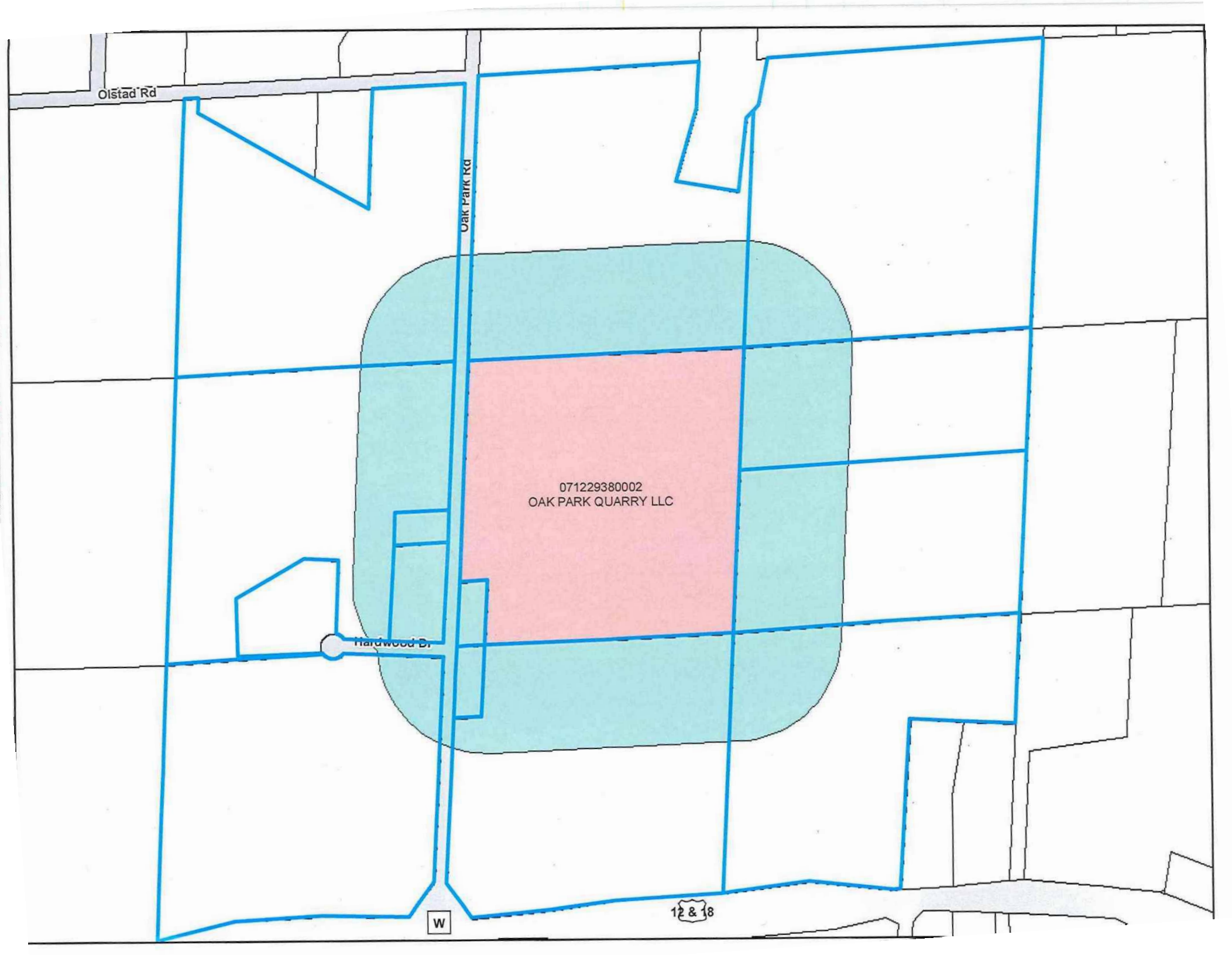
Oak Park Rd

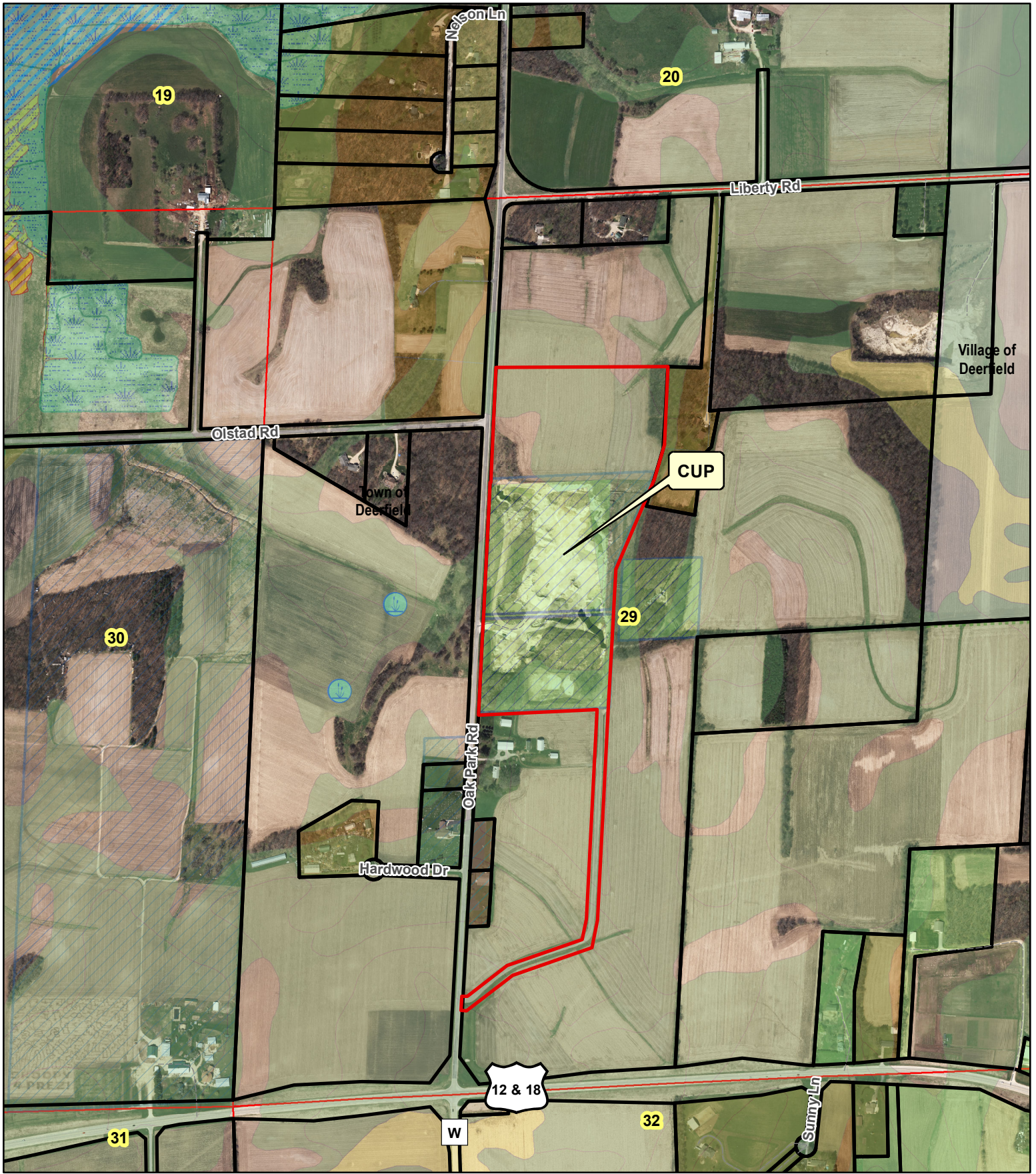
071229380002
OAK PARK QUARRY LLC

Hardwood Dr

W





12 & 18

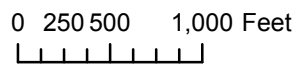




Legend

Wetland > 2 Acres Significant Soils

-  Wetland
-  Floodplain
-  Class 1
-  Class 2



CUP 02449
OAK PARK QUARRY LLC