Environmental Consultants & Contractors

SCS ENGINEERS

September 26, 2018 File No. 25215120.01

Mr. Larry Konopacki Stafford Rosenbaum, LLP 222 West Washington Avenue, Suite 900 Madison, WI 53701-1784

Subject: Review of Nonmetallic Mine Operator's License Application

Northern Sands Wisconsin, LLC, Town of Howard, Chippewa County, Wisconsin

Dear Mr. Konopacki:

SCS Engineers (SCS) has reviewed the nonmetallic mining operator's license application prepared by Northern Sands Wisconsin, LLC for compliance with the Town of Howard's Ordinance, Chapter 17-Nonmetalic Mine Operator's Licenses (hereafter the Ordinance). We have identified areas where clarification and additional information is needed in order to meet the intent of the Ordinance. We suggest that if the Town decides to approve the application, the approval is granted subject to conditions that will address the additional information needs. Recommended conditions are outlined in the attached report.

Thank you for the opportunity to provide environmental services to the Town of Howard. Please contact us at 608.224.2830 with any questions or comments.

Sincerely,

Betty J. Socha, PhD, PG

Senior Project Manager/Hydrogeologist

SCS Engineers

Leslie Busse, PE

Senior Project Manager/Engineer

SCS Engineers

LAB/BJS/Imh/SCC

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Review of Nonmetallic Mine Operator's License Application

Northern Sands Wisconsin, LLC Town of Howard Chippewa County, Wisconsin

Prepared for:

Town of Howard Chippewa County, Wisconsin

SCS ENGINEERS

25215120.01 | September 26, 2018

2830 Dairy Drive Madison, WI 53718-6751 608-224-2830

Table of Contents

ction	Page
oduction	1
Permits	1
Condition #1	2
Design and Operations	2
Condition #2	3
Groundwater Quality and Quantity & Impacts to Surface Water	4
Condition #3a	
Condition #3b	7
Application Submittal	7
Condition #4	8
nmary of Recommendations/Conditions	9
Condition #1 - Permits	9
Condition #2 - Engineering Plans	9
Condition #3a - Groundwater Monitoring PlanPlan	9
Condition #3b - Phase 1 Groundwater Monitoring Plan Implementation	10
Condition #4 - Resource Inventory Maps	10
	Condition #1

Appendices

Appendix A List of Documents Reviewed by SCS

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INTRODUCTION

SCS Engineers (SCS) has reviewed the nonmetallic mining operator's license application prepared by Northern Sands Wisconsin, LLC (NSW) for compliance with the Town of Howard's Ordinance, Chapter 17-Nonmetallic Mine Operator's Licenses (hereafter the Ordinance). During our review, we identified potential deficiencies of the application in meeting the Ordinance, or areas where clarification and additional information is needed in order to meet the intent of the Ordinance. SCS provides recommendations for addressing the following major components of the Ordinance requirements:

- Demonstration of compliance with required permits and approvals.
- Engineering plans for control of surface water, dust control, screening, conveyance methods, and other designs and operations elements.
- Monitoring and protection of groundwater quality, quantity, and impacts to surface water.
- Resource inventory maps and figures in the license application submittal.

SCS recommends that if the Town decides to approve the license application, that the approval be contingent upon conditions being met as outlined in the following sections.

1 PERMITS

The Ordinance outlines requirements for demonstration of compliance with required permits and approvals (Section 17.07(1)(d)). Clarification is needed in regard to the status of permitting as follows:

Blasting Permit – A blasting permit must be acquired before blasting can occur. The license application states that blasting is not required as the sandstone is highly friable. However, typically there is local variability of hardness within the sandstone, and during our meeting with NSW, Mr. Gapinske indicated that they may at some point during the life of the mine need to blast the sandstone.

Federal, State, Local Permits – NSW provides a list of all potential regulatory requirements in Table 3 of the license application, but they do not clarify those that actually apply to their proposed operations and a list of the permits associated with the regulations. A detailed list of permits that apply to them with the follow-up actions and schedule would be very helpful, and is needed to demonstrate that the required permits and approvals are being obtained.

The following is a list of permits or plans referenced in the NSW permit application. These and others (resulting from the regulations in Table 3) should be in place prior to start of operations.

- WDNR Construction Site Storm water Discharge Permit
- Fugitive Dust Control Plan (Wisconsin Department of Natural Resources [WDNR] Air Emission permit)
- High Capacity Well Permit (WDNR)
- Water Conservation Plan (Chippewa County)
- Wisconsin Pollutant Discharge Elimination System (WPDES) General Permit
- Storm Water Pollution Prevention Plan
- Spill Response Plan

Clarification of permit requirements is needed. If the Town decides to approve the license application, SCS recommends that the approval be contingent upon the following condition:

Condition #1

NSW shall submit to the Town a list of required permits, with the status of application for each permit, contact information for the permit approval, and a schedule of application submittal and anticipated review times and approval dates. NSW shall provide written confirmation to the Town that all required permits and plans are in place prior to commencement of mining operations.

2 DESIGN AND OPERATIONS

An intent of the Ordinance is to minimize or prevent adverse impacts from mine design and operations. The final design for the mining operations has not been completed and methods for control of surface water, screening design, conveyance methods, and other designs and operations elements are not included in the license application. Following are our comments regarding specific design and operations topics for which additional information is needed in order to assess and possibly minimize potential impacts to public safety and wellbeing:

Off-Site Trucking Routes – NSW states that there will be no off-site trucking. If that changes over time, the trucking routes should be evaluated with the Town.

Sand Conveyance – Design of conveyance methods is not yet complete. The application states that material transport will be via mechanical or fluidized conveyor with no specific information given.

Surface Water Runoff and Compliance with NR 216 and 151 – NSW will hire outside parties for design and installation of surface water management systems. These designs, as well as the Storm Water Pollution Prevention Plan and WPDES General Permit, should be provided.

Screening – NSW will screen the operations by creating berms, maintaining setbacks, and through elevation differences. No design is in place for the berms. This should be completed with line of sight figures and provided to the Town.

Night Lighting – NSW states they will comply with the ordinance requirements. However, the berms NSW intends to construct to aid in control of night lighting are not designed. That design should be done and reviewed.

Off-Site Noise – NSW states they will monitor and keep the noise level below 60 decibels as required by the ordinance. However, there is no mention of a contingency plan stating what they will do if noise exceeds the limit. Some additional methods to maintain/reduce noise include mufflers on mining equipment, and proper ongoing maintenance of all equipment/machinery.

Dust Control and Air Monitoring – The ordinance requires use of all relevant dust control methods outlined in NR 415.075. Only wetting of the on-site gravel roads is noted in the NSW application under this section of the ordinance. Other measures recommended in NR 415.075 include use of maximum speed of 10 mph, covering of trucks, wet drilling, wet conveyance, etc.

In other parts of the permit application, NSW states additional measures that will aid in controlling dust, including: stockpiled topsoil and berms will be stabilized, material transport will be via mechanical or fluidized conveyor, the dry plant is enclosed in a building with negative pressure dust handling and bag filter, access driveways will be paved 100 feet from the town road and will be swept as needed, and there will be no off-site trucking. A Dust Control Plan is required prior to construction.

NSW will monitor for total suspended particles (TSP) per the ordinance and will provide the appropriate reports. NSW states they will not exceed the limits for TSP but they do not give a contingency plan or additional best management practices (BMPs) they could employ if exceedances occur. They do not say that the process causing the exceedance will be shut down until the issue can be rectified.

Hours of Operation – NSW has included in the license application a request to operate the processing plant on a 24-hour basis. If the exception for hours of operating for the processing and equipment maintenance is not acceptable to the Town, require that the Ordinance be followed.

Additional design and operational information addressing the information gaps identified above is needed. If the Town decides to approve the license application, SCS recommends that the approval be contingent upon the following condition:

Condition #2

NSW shall submit to the Town detailed engineering plans for:

- Design and installation of surface water management system, to document compliance with Section 17.07(2)(a)
- Design of process flow and conveyance systems, as required for the application under Section 17.06(3)(b)
- Design of berms for screening of operations and line of sight figures, showing compliance with Section 17.07(2)(d)
- Design of berms for control of lighting, showing compliance with Section 17.07(2)(g)
- Contingency Plan stating the plan in the event that noise exceeds 60 decibels, to maintain compliance with Section 17.07(2)(h)
- Dust Control Plan and Contingency Plan listing BMPs to employ if exceedances occur, to maintain compliance with Section 17.07(2)(i)

If some elements, such as berms, are designed on a phase-by-phase basis, NSW shall submit updated plans prior to commencement of construction of each phase. If any of the design changes during the life of the mining activities, NSW shall submit revised information to the Town prior to implementation of the design change.

3 GROUNDWATER QUALITY AND QUANTITY & IMPACTS TO SURFACE WATER

The groundwater monitoring program for the mine is not regulated or reviewed by the WDNR. The Chippewa County Reclamation Plan has requirements for groundwater monitoring that establishes the actual groundwater elevation at the mine site and for monitoring changes to the groundwater elevation and chemistry through time. These are also requirements of the Town's Ordinance and are needed to protect the public from damages to groundwater quality and quantity.

The Reclamation Plan stipulates that the mine floor and excavation limits will be no lower than 1025 feet MSL and that a minimum 10-foot separation distance between the mine floor and regional water table be maintained at all times. The 10-foot separation is critical to prevent impacts to groundwater quality. Risks to groundwater depend on how close the mining operations are to the water table. Risks include potential leaks and spills of fuels, lubricant oils, flocculants, and other chemicals. Removal of soil and rock above the water table removes the materials that naturally filter the water, and creates a potential pathway for chemicals and bacteria to reach the groundwater. Groundwater chemistry maybe affected by removal of overburden materials, causing metals like arsenic, lead, iron, and manganese to dissolve at higher concentrations. Removal of large quantities of groundwater has the potential to lower the water table such that private wells do not supply enough water, and surface water bodies are lowered or dry up.

The groundwater monitoring program outlined in the license application does not provide enough information to address these concerns related to potential impacts from the mining operation.

Following are comments regarding the groundwater monitoring plan implemented or proposed to be implemented by NSW:

Installed Monitoring Wells – NSW has installed four water table monitoring wells in Phase 1. NSW states in the license application "Phase 1 groundwater flow is coincident with the surface topography represented by the apparent divide transecting the processing/transload area. More groundwater observation locations and ongoing recording will track....direction and elevation fluctuations." Per the Chippewa County Non-Metallic Mining permit (NMM permit), a minimum of seven wells are required to be installed prior to mining. Three additional wells were installed in June 2018 (after the license application was submitted to the Town). Information from all seven wells is needed in order to evaluate the adequacy of the monitoring program relative to the requirements of the Ordinance.

Groundwater Divide – Based on the water table contours on the WG&NHS Chippewa County map, the four Phase 1 monitoring wells are located in the area of a groundwater divide. The wells are on the order of a half mile apart. The spacing of the wells is not optimal for defining the position of the groundwater divide. Because of the divide, more wells are needed to estimate the flow direction in Phase 1.

Geologic Logs – There is no information provided regarding the geologic stratigraphic unit or units monitored by the monitoring wells as no geologic logs were provided by NSW. A geologist was not on site to document the well installation or log the borehole geology. The well screens need to be placed in the appropriate strata or the water level measurements and water quality data are of limited use.

Piezometers – There are no piezometers to provide information about the vertical component of groundwater flow.

Monitoring Plan – Per the NMM permit, the monitoring plan is to be prepared by a Professional Engineer (PE) or Professional Geologist (PG). No information about the plan or the preparer was provided in the license application. Upon SCS's request, a copy of the plan was provided. The plan provided only approximate well locations on a very small scale map, and mention of drilling method and well construction. No information was given regarding field documentation, geologic logging, well development, etc.

Laboratory Certification – The laboratory that performed the analysis of the groundwater samples collected from the monitoring wells did not have Wisconsin certification to perform analysis for all of the parameters analyzed.

Groundwater Level in Mining Area – All the monitoring wells are designated as "Life of Mine" wells and as such are located outside the actual area to be mined. To accurately determine the elevation of the mine floor, monitoring wells (to monitor groundwater level only) need to be installed within the area to be mined.

High Capacity Well – NSW plans to install a high capacity well in the Mt. Simon aquifer and conduct a pumping test to determine the effect of pumping on the shallower bedrock aquifer. The credentials for the PE or PG designing the pumping test should be provided along with the conceptual design of the pumping test including depth and location of wells in the monitoring array, test duration, pumping rates, etc.

Baseline Hydrologic Inventory – Per the NMM permit requirement and as stated in the March 13, 2018, review letter from Chippewa County, NSW is required to provide a baseline hydrologic inventory by October 1, 2018. The Ordinance also requires that NSW provide a hydrologic inventory map showing the location of seeps, springs, wetlands, and surface water within the mine and adjacent properties, and that NSW identify and depict on the map streams with beds and banks. This submittal should use a base map with adequate scale and detail to allow field location and identification of the mapped features, and be based on available resources and field data to verify the information.

Wetland Delineation – Per the NMM permit requirement and as stated in the March 13, 2018, review letter from Chippewa County, NSW is required to provide a delineation of all wetlands in Phase 1. The wetland delineation report was provided to the County on July 22, 2018, and has not been yet reviewed by the County or WDNR.

To meet the provisions for groundwater management and protection in the Ordinance, site-specific data are needed to determine the depth to groundwater and the directions of groundwater flow. The groundwater information provided in the license application is inadequate relative to the Town's requirements for groundwater monitoring and the stipulation that the floor of the mine be at a minimum 10 feet above the water table.

The generalized water table map in the license application is based on the 1988 Chippewa County map prepared by the Wisconsin Geological & Natural History. This map shows dashed contour lines and question marks, which indicates a lack of groundwater elevation data for the area of Chippewa County in which the mine site is located. The water table map in the license application is a small portion of a regional generalized map and should not be used as the basis for evaluating the groundwater flow pattern at the mine site.

The mine is located on a surface water divide. Groundwater elevations are needed to determine the position of the groundwater divides and establish groundwater flow directions so that groundwater can be monitored to evaluate impacts to quality associated with mining activities.

In summary, although some groundwater evaluation has been performed, the groundwater information provided in the application and the proposed groundwater monitoring plan are not adequate to evaluate compliance with the Ordinance regarding potential off-site impacts related to groundwater quality, groundwater quantity, surface water base flow, and surface water use (Section 17.07(3)(a-d)).

Additional groundwater information addressing the information gaps identified above is needed. If the Town decides to approve the license application, SCS recommends that the approval be contingent upon the following conditions:

Condition #3a

NSW shall submit to the Town a detailed plan for groundwater monitoring and well installation that includes:

- Determining the depth to groundwater and the directions of groundwater flow including the vertical components of flow in the area of the mine.
- Evaluating groundwater quality in the sandstone unit being mined and in the aquifer being used for water supply.
- Defining the position of the groundwater divide.
- Determining the elevation of the water table in the areas to be excavated.

The plan must be prepared by or under the direct supervision of a Wisconsin Professional Geologist who is a hydrogeologist as defined by the Wisconsin Administrative Code NR 712.02¹.

The following are the minimal recommended components of the plan:

- Documentation for the wells installed to date including fully completed well construction diagrams, well development forms, and geologic boring logs.
- An evaluation of the placement of existing monitoring wells for evaluation of groundwater impacts from the mining activities. Identify which wells are upgradient and which wells are downgradient of areas to be excavated and sand processing areas.
- Groundwater contour maps based on the high and low water levels measured at the seven existing monitoring wells and elevations of springs, seepage areas, and streams and intermittent streams, and surface topography. Show the location of areas to be excavated, the process areas, and private wells at a scale of no less than 1" = 1,000 feet.
- Geologic cross-sections showing major geologic units, monitoring wells locations and screened intervals, the position of the water table, the location of nearby private wells and their construction, the proposed limits of excavation, and the location of process areas. Show locations of the cross sections on a map that also shows the

Review of Nonmetallic Mine Operator's License Application

been licensed in accordance with the provisions in ch. GHSS 3, Wis. Adm. Code.

¹ Per NR 712.02 Hydrogeologist means a person who is licensed as a hydrologist or registered as a geologist with the department of safety and professional services, and is a graduate of an accredited institution of higher education and who has successfully completed 30 semester hours or 45 quarter hours of course work in geology. At least 6 semester hours or 9 quarter hours of the geology course work shall be hydrogeology, geohydrology or groundwater geology. This person shall also have acquired, through education and field experience, the ability to direct the drilling of borings and the installation and development of wells, describe and classify geologic samples, and evaluate and interpret geologic and hydrogeologic data. Note: The term registered geologist means a Professional Geologist that has been licensed in accordance with the provisions in ch. GHSS 2, Wis. Adm. Code and the term licensed hydrologist means a Professional Hydrologist that has

- location of areas to be excavated, the process areas, and private wells at a scale of no less than 1" = 1,000 feet.
- Proposed locations for water table wells in areas to be mined (minimum of 3 wells per phase to allow triangulation for groundwater flow direction).
- Proposed location for piezometers adjacent water table wells in areas to be mined (minimum of 1 piezometer per phase).
- Proposed locations for water table sentinel wells downgradient of each phase and downgradient of the process areas, as needed in addition to the seven current wells.
- Tabulated groundwater elevation and depth to water for the seven monitoring wells since their installation and a discussion of observed trends in groundwater fluctuations.
- Tabulated groundwater quality data from the seven monitoring wells and a discussion of general water quality.
- Well construction forms for private wells within 200 feet of the mine property, and a discussion of the geologic units used as the local aquifer.

Condition #3b

NSW shall implement the detailed plan for groundwater monitoring and well installation for wells installed in Phase 1, and shall submit a groundwater monitoring report documenting the work. The additional Phase 1 wells shall be installed following the Town's approval of the plan. The additional wells installed in Phase 1 for the monitoring program shall include:

- Three water table wells and a piezometer in the area to be mined.
- Wells downgradient of the process area and downgradient of the area to be mined.

4 APPLICATION SUBMITTAL

The actual license application submittal needs to be adequate to allow evaluation of compliance with the Ordinance's intent. Existing site information such as the location of water supply wells, surface water bodies, wetlands, and buildings and other structures is required in the license application. The Ordinance requires that these resources be inventoried within certain distances from the mine boundary. Following are general comments regarding the maps and figures submitted by NSW in the license application:

- Figures are not clear and do not seem to provide information they claim to present.
- Scales are not accurate on all figures, and scales and legends are missing on several figures.
- The scale of many of the figures is too small to adequately depict the required information.
- The topographic map used for most of the figures lacks detail and clarity, reducing the usefulness of the figure.
- Certified survey maps are required by the Ordinance and have not been provided in the license application.

Because of issues with the map scale, clarity of the base map or map legend, several of the maps do not adequately provide the required information.

These items were discussed with NSW and some revisions to the figures and maps have been made, including the map showing the location of private wells. Per SCS's request, NSW also provided a list of well owners' names and addresses that correspond to the numbered locations on the figure. Ideally the updated figure is at a large enough scale, and has a base map with adequate detail to identify the private well location in the field. This and other revisions to the maps and figures will facilitate evaluation of compliance with the Ordinance.

Corrected figures addressing these issues are needed. If the Town decides to approve the license application, SCS recommends that the approval be contingent upon the following condition:

Condition #4

NSW shall revise the maps and figures to have accurate scales and legends and clearly depict the needed information, and shall submit the revised versions to the Town with a corresponding application narrative revised as appropriate. Prior to commencement of any mining or construction activity, Certified Survey Maps for the properties shall be provided to the Town.

SUMMARY OF RECOMMENDATIONS/CONDITIONS

SCS Engineers recommends that if the Town of Howard decides to approve the Northern Sands Wisconsin, LLC license application, the approval be granted subject to conditions that will address the additional information needs. SCS suggests the requirement that the conditions be met by March 1, 2019, and at least 60 days prior to commencement of any mining or construction activity to allow review of the required submittals.

The recommended conditions are as follows:

Condition #1 - Permits

NSW shall submit to the Town a list of required permits, with the status of application for each permit, contact information for the permit approval, and a schedule of application submittal and anticipated review times and approval dates. NSW shall provide written confirmation to the Town that all required permits and plans are in place prior to commencement of mining operations.

Condition #2 - Engineering Plans

NSW shall submit to the Town detailed engineering plans for:

- Design and installation of surface water management system, to document compliance with Section 17.07(2)(a)
- Design of process flow and conveyance systems, as required for the application under Section 17.06(3)(b)
- Design of berms for screening of operations and line of sight figures, showing compliance with Section 17.07(2)(d)
- Design of berms for control of lighting, showing compliance with Section 17.07(2)(g)
- Contingency Plan stating the plan in the event that noise exceeds 60 decibels, to maintain compliance with Section 17.07(2)(h)
- Dust Control Plan and Contingency Plan listing BMPs to employ if exceedances occur, to maintain compliance with Section 17.07(2)(i)

If some elements, such as berms, are designed on a phase-by-phase basis, NSW shall submit updated plans prior to commencement of construction of each phase. If any of the design changes during the life of the mining activities, NSW shall submit revised information to the Town prior to implementation of the design change.

Condition #3a - Groundwater Monitoring Plan

NSW shall submit to the Town a detailed plan for groundwater monitoring and well installation that includes:

- Determining the depth to groundwater and the directions of groundwater flow including the vertical components of flow in the area of the mine.
- Evaluating groundwater quality in the sandstone unit being mined and in the aquifer being used for water supply.
- Defining the position of the groundwater divide.
- Determining the elevation of the water table in the areas to be excavated.

The plan must be prepared by or under the direct supervision of a Wisconsin Professional Geologist who is a hydrogeologist as defined by the Wisconsin Administrative Code NR 712.02 and include the minimal components recommended by the Town's engineering consultant.

Condition #3b - Phase 1 Groundwater Monitoring Plan Implementation

NSW shall implement the detailed plan for groundwater monitoring and well installation for wells installed in Phase 1, and shall submit a groundwater monitoring report documenting the work. The additional Phase 1 wells shall be installed following the Town's approval of the plan. The additional wells installed in the Phase 1 monitoring program shall include:

- Three water table wells and a piezometer in the area to be mined.
- Wells downgradient of the process area and downgradient of the area to be mined.

Condition #4 - Resource Inventory Maps

NSW shall revise the maps and figures to have accurate scales and legends and clearly depict the needed information, and shall submit the revised versions to the Town with a corresponding application narrative revised as appropriate. Prior to commencement of any mining or construction activity, Certified Survey Maps for the properties shall be provided to the Town.

Appendix A List of Documents Reviewed by SCS

LIST OF DOCUMENTS REVIEWED BY SCS

SCS reviewed the following documents in conjunction with the:

- 2018, May 24, Town of Howard, Chapter 17, Nonmetallic Mine Operator's License, License Application submitted by Northern Sands Wisconsin, LLC.
- 2018, July 22, Wetland Delineation Report, Northern Sands Wisconsin LLC, Northern Sands Wisconsin Phase 1 Mine, Town of Howard, Chippewa County, Wisconsin; prepared by Ann M. Key, WDNR Professionally Assured Wetland Delineator, Wetland & Waterways, LLC.
- 2018, June 26, Round 2 Groundwater Monitoring Wells, Northern Sands Wisconsin LLC; letter signed by Dr. J. Brian Mahoney, PhD, PG, Precision GeoSolutions LLC.
- 2018, March 13, Review of benchmark report required by Permit #2015-01; letter to Northern Sands Wisconsin, LLC, from Chippewa County Conservation and Forest Management, Engineering, Christien W. Huppert, PE.
- 2017, December 14, Northern Sands Wisconsin Mine Reclamation Plan Supplement, prepared by Weslie Engineering Group (unsigned) for Northern Sands Wisconsin, LLC.
- 2016, August 8, Nonmetallic Mining Reclamation Administrative Permit Amendment, Northern Sands, LLC, Operator, Permit #2015-01, Chippewa County, Wisconsin.
- 2016, February 4, Nonmetallic Mining Reclamation Permit Addendum, Northern Sands, LLC, Operator, Permit #2015-01, Chippewa County, Wisconsin.
- 2015, November 18, Nonmetallic Mining Reclamation Permit, Northern Sands, LLC, Operator, Permit #2015-01. Chippewa County, Wisconsin.
- 2015, November 10, Addendum to the Reclamation Plan for the Northern Sands Albertville Valley Non-Metallic Mine, Howard Township, Chippewa County, Wisconsin; prepared for the Red Flint Group, LLC, by Applied Ecological Services (unsigned), Brodhead, Wisconsin.
- 2015, June 17, Howard Township Properties; Nonmetallic Mine Reclamation Plan, Northern Sands, LLC, Howard Township, Chippewa County, Wisconsin; prepared by Summit Envirosolutions, Inc., St. Paul, Minnesota, contact John Dustman.