Shelby Crushed Stone, Inc.

Medina Mine

MLF# 80346

Town of Shelby, Orleans County, New York

Mined Land Reclamation Permit Modification

April 3, 2023

Prepared for:	New York State Department of Environmental Conservation
Submitted by:	Mr. Thomas Biamonte Shelby Crushed Stone, Inc.
Prepared by:	Strategic Mining Solutions LLC brian@miningstrategy.com

Brian Milliman
Strategic Mining Solutions

strategic mining solutions
brian@miningstrategy.com

TABLE OF CONTENTS

IN APPENDIX

IN POCKETS

Mining Plan Map dated August 16, 2019
Reclamation Plan Map dated August 16, 2019

Environmental Assessment Form

Marl Berm Construction Specification

1.0 INTRODUCTION

The following Mining Permit Modification for the Shelby Crushed Stone, Inc. Medina Mine (Mined Land File #80346) is submitted as required by the New York State Mined Land Reclamation Law and rules and regulations promulgated thereunder.

The Medina Mine is located south of Blair Road in the Town of Shelby, Orleans County, New York as shown on the Regional Location Map on page 2 and the Location Map on page 3. The site is in a rural area bounded by woodlands, wetlands and agricultural fields to the south, east and west and by Blair Road to the north. Access to the current quarry property is from Blair Road via an existing access road.

Shelby Crushed Stone proposes to modify their Media Mine Mined Land Reclamation Permit to add 15+/- acres of land to the currently approved Life of Mine area to the south for purposes of excavation. The expansion proposal will impact approximately 8.7 acres of state and federal jurisdictional wetland and 6.1 acres of state regulated 100-foot adjacent area. The location of the proposed expansion area was selected to minimize impacts to the higher quality mature forested wetland on the site and instead focus on the lower quality emergent marsh which is heavily dominated by invasive species. The outer limits of the proposed expanded mine area have been designed to ensure that the expanded mine will not impact the existing hydrology of the wetland to remain.

No other changes to the mine are proposed.

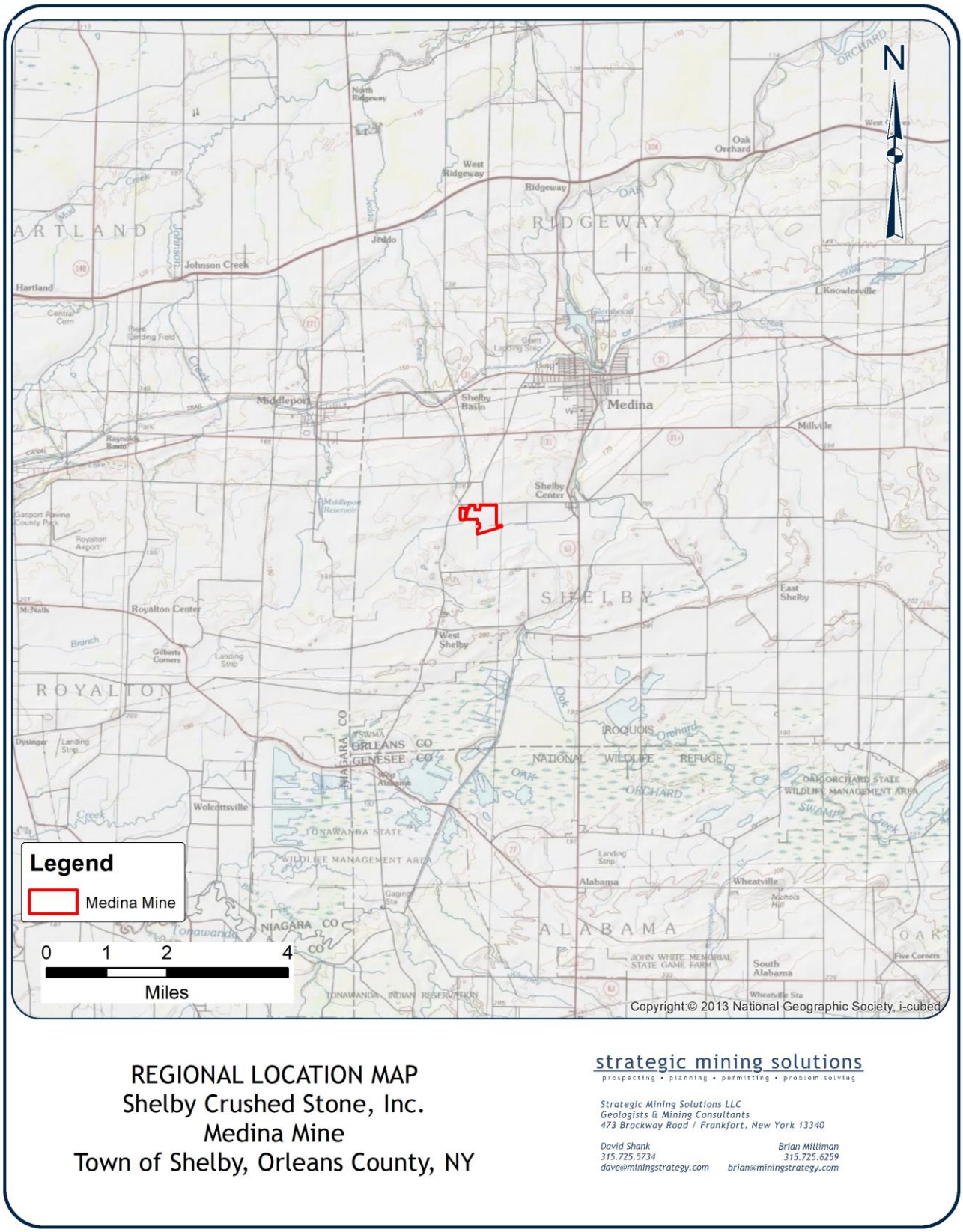
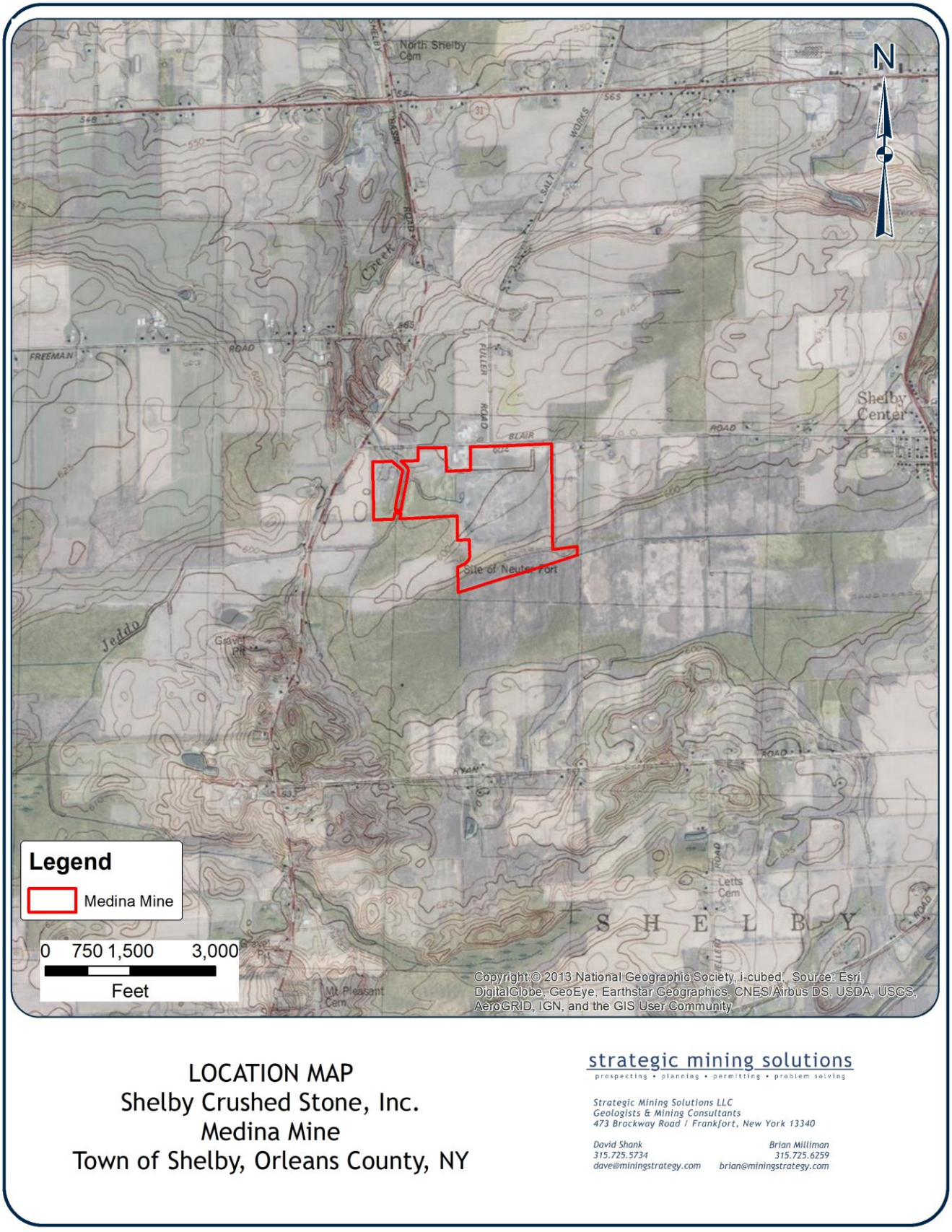


Figure 1. Regional Location Map



LOCATION MAP
Shelby Crushed Stone, Inc.
Medina Mine
Town of Shelby, Orleans County, NY

strategic mining solutions
prospecting • planning • permitting • problem solving

Strategic Mining Solutions LLC
Geologists & Mining Consultants
473 Brockway Road / Frankfort, New York 13340

David Shank
315.725.5734
dave@miningstrategy.com

Brian Milliman
315.725.6259
brian@miningstrategy.com

Figure 2. Location Map

2.0 MINING PLAN

2.1 EXISTING OPERATION

The Shelby Crushed Stone Medina Mine is located south of Blair Road in the Town of Shelby, Orleans County, New York as shown on the Regional Location Map on page 2 and the Location Map on page 3. The site is in a rural area bounded by woodlands, wetlands and agricultural fields to the south, east and west and by Blair Road to the north. Access to the current quarry property is from Blair Road via an existing access road.

Shelby Crushed Stone, Inc. is currently approved to mine dolostone from a 105.9-acre[1] Life of Mine area situated on lands owned by Shelby Crushed Stone, Inc.

The existing mine and expansion area were surveyed on June 21, 2019 using an Ashtech PM200 RTK (real-time kinematic) GPS survey instrument and an eBee autonomous drone. The PM200 is a survey grade instrument that utilizes data from land-based NYSDOT survey elevation reference stations (CORS-Continuously Operating Reference Stations) to provide real-time correction to the satellite GPS to achieve centimeter scale accuracy. The eBee is a fully autonomous drone that captures high-resolution aerial photos that, when combined with GPS surveyed ground control, generates highly accurate 3D models. A follow up GPS survey was conducted on August 16, 2019.

The updated maps in the Appendix were created in CAD using:

- Property line survey maps of Lands of Shelby Crushed Stone and Archaeologically Sensitive Area provided McIntosh & McIntosh, PC,
- Drone survey orthophotos and 3D surface data for local topography and features
- Orleans County 2015 Orthophotos for surrounding features and
- The Orleans County LiDAR data set for the surrounding topography.

[1] Acreage based on approved setbacks from the updated property line information provided by McIntosh & McIntosh, PC, copies included in Appendix F of the DEIS.

2.2 PROPOSED MODIFICATION TO OPERATION

Shelby Crushed Stone proposes to modify their Media Mine Mined Land Reclamation Permit to add 15+/- acres of land to the currently approved Life of Mine area to the south for purposes of excavation. The expansion proposal will impact approximately 8.7 acres of state and federal jurisdictional wetland and 6.1 acres of state regulated 100-foot adjacent area. The location of the proposed expansion area was selected to minimize impacts to the higher quality mature forested wetland on the site and instead focus on the lower quality emergent marsh which is heavily dominated by invasive species. The outer limits of the proposed expanded mine area have been designed to ensure that the expanded mine will not impact the existing hydrology of the wetland to remain.

No other changes to the mine are proposed.

2.2.1 Mining Method

The existing mine is a surface consolidated dolostone mine. No changes to the method or manner of mining are proposed.

2.2.2 Mining Sequence

Mining within the 15+/-acre proposed modification will be conducted using standard consolidated excavation techniques. Mining within the expansion area will progress in a general north to south direction.

Prior to stripping activities in the expansion area, a marl perimeter berm will be constructed along the inside edge of the southern half of the expansion area. The berm will be constructed to prevent the wetland to the south from draining into the quarry during periods when the wetland floods, typically in the spring. The location and extent of the perimeter berm is shown on the Mining Plan Map included in the Appendix; berm construction details are included in the Appendix and are summarized below:

Marl Berm Construction

The work zone will be marked out with stakes prior to ground disturbance. Silt fencing will be installed along the southern limit of construction, between the berm location and the wetland outside of the expansion area. Any salable lumber in the berm construction area will be selectively removed prior to stripping activities. A bulldozer or equivalent will remove non-salable lumber and brush in the berm construction area. Stumps from logging and clearing will be placed in temporary stockpiles within the Life of Mine for later reclamation purposes. Small trees, branches and brush from clearing will be chip-mulched and used for mulch in reclamation activities. Topsoil and subsoil in areas on which fill is to be placed

will be stripped (approximately 1-foot) to the virgin marl. The berm will be constructed of marl placed in continuous 6 to 9-inch layers over the entire length of the fill. Each layer will be compacted after placement by routing earth-moving equipment or a compactor over the marl fill until the compaction rate is equal or greater than 90% of the existing virgin marl. The berm will be constructed to an elevation at least 3 feet above the existing grade and will be continuous and smoothly graded. Vegetation will be established immediately after construction by placing a minimum of 6 inches of topsoil on the berm prior to seeding and mulching. All areas to be seeded will be disked or otherwise loosened and raked to remove surface irregularities and any objectionable material. Soil will be limed and fertilized at an appropriate rate based on the results of a soil fertility test. Seed mixture and application rates will be similar to those previously approved for the existing mine. All affected land will be vegetated with a "conservation" seed mixture at a rate of 60 pounds per acre and tracked in with a bulldozer. The perimeter berm will be mulched with small grain straw at a rate of 1.5 tons per acre or, alternatively, erosion control matting will be used to maintain moisture and reduce erosion.

After the marl perimeter berm has been constructed any salable lumber in the expansion area will be selectively removed prior to stripping activities. A bulldozer or equivalent will remove non-salable lumber and brush. Stumps from logging and clearing will be placed in temporary stockpiles within the Life of Mine for later reclamation purposes. Small trees, branches and brush from clearing will be chip-mulched and used for mulch in reclamation activities. Topsoil, subsoil and overburden will be removed in advance of mineral excavation using bulldozer or equivalent. Stripped materials will be stored in berms or stockpiles within the Life of Mine area. Berms will be constructed using topsoil to cover less viable overburden and subsoil.

Mining within the expansion area will be worked in two levels, similar to the existing quarry, with an upper face height of approximately 40 feet and a lower face height of approximately 20 feet.

2.2.3 Blasting

Blasting at the Medina Mine is well established and has been done at regular intervals during the past 30+ years. It is used to loosen stone in order to crush it into stone products and agricultural lime. No changes are proposed to the currently approved extraction methods.

2.2.4 Grading, Setbacks and Mine Floor

Mining will continue to the limits and depths indicated on the Reclamation Plan Map. Minimum setbacks of 25 feet will be maintained from all external property boundaries in the modification areas.

2.2.5 Processing

Blasted stone will continue to be excavated by front end loader and truck-hauled to the processing plant. No change to the processing method or location is proposed as part of this modification.

2.2.6 Haulageways

No change to the existing plans for haulage of materials, internal or external to the project area are proposed with this modification. All highway trucks will continue to use Fuller Road for access.

3.0 METHODS FOR PREVENTING ENVIRONMENTAL IMPACT, POLLUTION AND SOIL EROSION

3.1 DRAINAGE AND SOIL EROSION

Drainage within the expansion area will remain internal as a result of the modification proposal. The site's quarry opening is well below ground level and bowl-like. The perimeter of the quarry is bermed or the quarry faces are adjacent to the Life of Mine limits or are backfilled and revegetated. The office-shop area, plant and stockpile area, haul roads and adjacent areas are essentially at grade and sloping toward the quarry opening. Much of the precipitation from the above makes its way into the quarry opening by sheet flow, rill wash and rivulets. The remainder either evaporates and/or percolates into the fissures and joints of the underlying bedrock. Precipitation also falls directly into the quarry opening. The precipitation flowing into and falling directly into the quarry opening collects there and either percolates into the quarry floor, drains to retention-settling ponds, and/or evaporates. Clarified water from the ponds drains to sumps in the quarry floor where it is pumped up to a bermed drainage ditch at grade and flows by gravity to another sediment clarifying basin adjacent to Jeddo Creek. Overflow from that basin is discharged to the creek from permitted Outfall #01.

Subsurface and surface drainage within the proposed expansion area would mimic that of the currently approved quarry. Accordingly, no change in drainage patterns are anticipated.

During activities such as overburden removal and perimeter berm construction the affected areas will be monitored on a regular basis for potential offsite siltation. Stormwater discharge will be prevented by the use industry standard erosion and sedimentation controls such as staked hale bales, silt socks or silt fences wherever necessary.

3.2 DUST

No increased impact from the creation of dust over and above that which has existed in the past and which is presently permitted is anticipated.

The following methods will continue to be used to control dust from mining activities:

- Wooded buffers and perimeter berms surround the site.
- The excavation area will continue to be surrounded by perimeter faces. Since the most activity at a mine occurs at the bottom of the faces, the faces help screen

the activity from the wind, reducing the wind velocity and reducing the potential for dust generation. The faces also help contain any fugitive dust to the site.

- Water will continue to be applied to haul roads, processing equipment and stockpiles as necessary.

- In addition, all conditions in the existing Mined Land Reclamation Permit and approved Mined Land-Use Plan pertaining to dust suppression will continue to be followed.

3.3 TRAFFIC

There will be no change in the truck traffic generated by the modification of the existing quarry. No change to the access is proposed and no increase in the traffic volume will occur as a result of this modification.

3.4 BLASTING

Blasting at the Medina Mine is well established and has been done at regular intervals during the past 30+ years. It is used to loosen stone in order to crush it into stone products and agricultural lime. No changes are proposed to the currently approved blasting methods and blasting will not occur closer to nearby residents than is currently approved as a result of the proposed modification.

Blasting will continue to follow the construction season schedule, generally once per week (Monday through Friday) between the hours of 9AM to 3PM. No blasting will take place on legal holidays, weekends or during periods of adverse weather conditions and ordinarily not during the winter months of December through February.

Shelby Crushed Stone monitors and records all blasts from the closest receptor's yard and will continue to do so. Blasting records are maintained and will continue to be available upon request.

3.5 NOISE

Potential offsite impacts from noise resulting from mining activities will not occur as a result of this modification proposal for the following reasons:

- No change in the method or manner of mining is proposed as part of this modification.

- The expansion area is screened from all sides due to factors such as distance to potential receptors, natural topography, dense tree growth and the perimeter berms that surround the existing operation.

- The expansion area is further removed from nearby receptors than the existing active mine areas.
- Almost all mining activity occurs on the mine floor, effectively using the existing mine faces and perimeter berms as noise barriers.

3.6 VISUAL IMPACTS

The potential for visual impacts will not increase as a result of this modification for the following reasons:

- The expansion area is screened from all sides due to factors such as distance to potential receptors, natural topography, dense tree growth and the perimeter berms that surround the existing operation.
- The expansion area is further removed from nearby receptors than the existing active mine areas.
- Almost all mining activity occurs on the mine floor, thereby minimizing the screening effect of the mine faces.

3.7 GROUND WATER

A Hydrogeologic Evaluation was conducted by Alpha Geoscience (Alpha) to assess the potential impacts of the mine expansion on ground water and the wetland to the south. A copy of the full report is included as Appendix E of the DEIS.

As part of the Hydrogeologic Evaluation, Alpha reviewed historic aerial photos, soil mapping and data, existing monitoring well data, core hole data as well as data collected from two new test pits and two well points in the vicinity of the expansion area.

The Hydrogeologic Evaluation determined that there are two water table conditions in the vicinity of the expansion area:

1. A perched water table which is a seasonal, semi-perched, water table condition that develops on the underlying clayey silt and silty clay layers during the winter and spring and
2. The ground water table, separate from the perched water table, which generally stays within the bedrock.

Alpha determined that mining in the existing quarry and expansion area will cause some temporary local ground water table depression in the bedrock aquifer, up to as much as 10 feet at the quarry face. The ground water table drawdown is temporary while the quarry is actively dewatering and there will be no drawdown when pumping has ceased

after the quarry is reclaimed as open water. Using the ground water drawdown impacts currently associated with the quarry as a model, Alpha determined that the lateral extent of the ground water table drawdown in the expansion area will be approximately 280 feet, with the vast majority of the drawdown occurring within 150 feet of the quarry. The limited drawdown in the fractured bedrock aquifer associated with the expansion area will not have any impact on the bedrock wells at nearby residences as the expansion area is further removed from nearby wells then the existing active quarry faces.

3.8 WETLANDS

3.8.1 Mitigation of Impacted Wetlands

The proposed expansion will impact approximately 8.7 acres of state and federally regulated wetland and approximately 6.1 acres of state regulated 100-foot adjacent area, but which will involve no stream impacts. This represents a loss of approximately 1.7% of the total wetland area (502 acres), as defined by the presence of Palms Muck. The proposed expansion area is designed to minimize impacts on wetland hydrology and the higher quality mature forested wetland on the site and instead focus on the lower quality emergent marsh which is heavily dominated by invasive species.

To mitigate the impacts to these wetland areas Shelby Crushed Stone is proposing to create wetlands at another off-site location. The proposed wetland mitigation would be comprised of approximately 24.5 acres of mixed shallow emergent marsh and hardwood swamp wetland and 2 acres of wetland preservation in order to replace the wetland impacted in kind. In addition, the Applicant is proposing the creation of 12.4 acres of upland adjacent area tree plantings adjacent to the newly created wetland in order to mitigate the impact of 6.1± acres of regulated upland adjacent area at the Medina Mine.

Specific details regarding wetland resources, impacts to wetlands and the mitigation proposal are covered in the Article 24 and Section 404 Permit Application prepared by Earth Dimensions, Inc.

3.8.2 Potential for Impacts to Remaining Wetland

Other than the physical removal of wetland by mining, the Hydrogeologic Evaluation prepared by Alpha Geoscience, included as Appendix E of the DEIS, determined that no significant hydrogeologic impact to the remaining wetland is anticipated as a result of the mine expansion for the following reasons:

1. No change in the source of water to the wetlands. The primary source of water in the wetland is from direct precipitation and additional contribution comes from surface water ponding in the ditches and wetland due to beaver dam(s) downstream in the primary ditch. Water in the primary ditch will continue to naturally back up into the feeder ditches and low areas of the wetland south of the primary ditch as it has done for decades. This will not change as a result of the mine expansion.

2. No Change to the perched water table condition. The wetland area is underlain by a seasonal, semi-perched, water table that will not change as a result of the mine expansion. This condition develops on the underlying clayey silt and silty clay layers during the winter and spring. The semi-perched water table is drawn down by evapotranspiration and slow percolation during the summer and fall. The clayey silt layer beneath the wetland will remain and continue to retard infiltration to the bedrock during the seasonal wet periods. The rate of infiltration to the subsurface will not change as a result of the expansion; consequently, the length of time that the wetland remains wet at the surface will not change as a result of the expansion.

3. A berm will be constructed to prevent drainage of the wetland. A marl perimeter berm will be constructed along the inside edge of the southern half of the expansion area prior to stripping activities in the expansion area. The berm will be constructed to prevent the wetland to the south from draining into the quarry during wet periods, typically in the spring. The location and extent of the perimeter berm is shown on the Mining Plan Map included in the Appendix; berm construction details are included in the Appendix and are summarized in Section 2.2.2.

4.0 RECLAMATION PLAN

No change to the currently approved reclamation objective is proposed as part of this modification.

4.1 LAND-USE OBJECTIVE

A total of 120.9 acres will be affected by mining and then reclaimed over the life of the mine. The mine site, including the modification area, will be reclaimed as two ponded areas. Both pond's surface elevations are estimated to be approximately 587 to 590 feet above mean sea level. The final floor elevation is estimated to be approximately 538 feet in both areas.

Once mining has ceased and the mined areas fill with water they will be stocked with fish from a private commercial hatchery as recommended by their experts.

4.2 SCREENING AND SAFETY CONSIDERATIONS

Vegetated berms will be left in place along the northern perimeter of the mine site. Conspicuous prominent "Danger, Sharp Drop Off" signs, or MSHA specified, will be placed along the top of the berms. A reasonable separation between the toe of the permanent barrier berm and the crest of the adjacent quarry face will be left for safety access purposes.

The haul road and ramp leading from the Jeddo Creek crossing will remain as safety and emergency pond exits. Additional safety pond exit ramps will be constructed as shown on the Reclamation Plan Map. All ramps and openings will be marked with the appropriate signage.

4.3 RECLAMATION METHOD

4.3.1 Final Grading and Revegetation

The mine will be worked in a two-lift configuration, varying depending on the topography. The final face locations are shown on the Reclamation Plan Map. The tows of all temporary and permanent faces will be a minimum distance of 25 feet plus one and one quarter times the face height from all property boundaries in accordance with 6 NYCRR Park 422.2.c.3c.iii.

The final faces of the upper mine level will be stabilized by pre-splitting controlled blasting, scaling or equivalent. The entire lower level will be below water when final pumping ceases and stabilization will not be necessary.

The portions of the of the mine that will be revegetated are the topsoil covered permanent perimeter barrier berms, any scarified temporary at grade haul roads, any grade level stockpile bases, and land adjacent to the permanent access road and stream crossing. They will be revegetated by hydro seeding, hand or machine seeded, or equivalent; then mulched with the chip-mulched and hay as needed. A tracked bulldozer (blade up) will travel back and forth across the barrier berms' side slopes to stabilize the mulch and seed, and elsewhere if needed.

Grass seed for revegetation will consist of commercial grades of this biodiverse polyculture mix for biomass production and wildlife habitat:

Ernst Conservation Seeds
8884 Mercer Pike
Meadville, PA 16335
(800) 873-3321 Fax (814) 336-5191
www.ernstseed.com

Date: April 04, 2023

Biodiverse Polyculture Mix for Biomass Production & Wildlife Habitat - ERNMX-115

	Botanical Name	Common Name	Price/Lb
36.00 %	*Andropogon gerardii, 'Niagara'*	Big Bluestem, 'Niagara'	14.40
20.00 %	*Panicum virgatum, 'RC Chippewa'*	Switchgrass, 'RC Chippewa'	19.20
18.20 %	*Panicum virgatum, 'Cave-In-Rock'*	Switchgrass, 'Cave-In-Rock'	14.40
18.20 %	*Panicum virgatum, 'Shawnee'*	Switchgrass, 'Shawnee'	14.40
3.00 %	*Chamaecrista fasciculata, PA Ecotype*	Partridge Pea, PA Ecotype	9.48
2.00 %	*Heliopsis helianthoides, PA Ecotype*	Oxeye Sunflower, PA Ecotype	35.71
1.60 %	*Desmodium canadense, PA Ecotype*	Showy Ticktrefoil, PA Ecotype	50.88
0.80 %	*Senna hebecarpa, VA & WV Ecotype*	Wild Senna, VA & WV Ecotype	29.42
0.20 %	*Asclepias syriaca*	Common Milkweed	107.91
100.00 %		**Mix Price/Lb PLS:**	**$16.53**

Seeding Rate: 10 PLS lb per acre 30 lbs/acre of a cover crop. For a cover crop use either grain oats (1 Jan to 31 Jul) or grain rye (1 Aug to 31 Dec).

Biomass; Uplands & Meadows; Wildlife Habitat & Food Plots - Herbaceous Perennial

The Biodiverse Polyculture Mix for Biomass Production is a warm season grass mix for biomass production with legumes to provide nitrogen to the grass. The flowers in this mix support pollinators including monarch butterflies. Mix formulations are subject to change without notice depending upon availability of existing and new products. While the formula may change, the guiding philosophy and function of the mix will not.

This will enhance the habitat for nectar-needing biota (monarch butterfly, honeybee, etc.) and will promote species diversity.

Mulching will be applied for 100%+/- coverage, without any bare spots, at a rate of approximately 2000 lbs/acre, more or less for chip-mulch.

An economical commercial seed mix may be used for seeding temporary stockpiles planned to be used within the next one to two permit terms.

Exposed ledge rock would not be covered nor revegetated for the reasons cited above.

4.3.2 Haulageways

Except for the permanent access roads and ramps, temporary haulroads will be mined out during the final stages of mining, or be covered by the pond and so reclaimed. Any temporary haulroads at grade will be scarified, covered with 6 inches of available topsoil, seeded as mulched as described above.

4.3.3 Disposal of Stockpiles and Removal of Equipment

Surplus topsoil and overburden materials not used for permanent perimeter berms will be used for reclamation.

Aggregate stockpiles will be removed prior to final reclamation.

Stumps that will be removed during logging and clearing operations and temporarily stockpiled, will be placed on the mine floor, weighted to keep them in place, and become fish habitat within the proposed pond.

All fixed and portable equipment will be removed prior to final reclamation.

All personal property will be removed and any refuse such as trash will be collected, removed and disposed of properly prior to final reclamation.

4.4 RECLAMATION SCHEDULE

Concurrent reclamation of the items above will be done in all areas where it can be practically and effectively accomplished.

All disturbed areas and areas to be mined during the permit term will be covered by a reclamation bond as required by the NYS Mined Land Reclamation Law. The bond will not be released until the NYSDEC Mined Land Specialist is satisfied that the reclaimed areas have met the requirements.

Final reclamation will begin immediately upon completion of mining activities. NYSDEC will be notified of completion of mining and reclamation activities for Department approval.

APPENDIX

MINING PLAN MAP

Medina Mine

NYSDEC Mine ID: 80346

Shelby Crushed Stone, Inc.

Town of Shelby, Orleans County, New York

Prepared by:

strategic mining solutions
prospecting • planning • permitting • problem solving

Strategic Mining Solutions LLC
Geologists & Mining Consultants
473 Brockway Road / Frankfort, New York 13340

David Shank
315.725.5734
dave@miningstrategy.com

Brian Milliman
315.725.6259
brian@miningstrategy.com

Details:

Date: August 17, 2016
Horizontal Scale: 1" = 200'
Datum: Mean Sea Level
USGS Quad: Medina 7.5'
Contour Interval: 2 feet
Drafted by: Milliman

REVISIONS

Date	Description	By
11/6/18	Add Expansion Area	BTM
6/21/19	Survey Update	BTM
8/16/19	Survey Update	BTM
10/4/19	Add Monitoring Data	BTM

LEGEND

- Property Line
- Life of Mine Boundary
- 10' Contour Line
- 2' Contour Line
- Stream/Edge of Water
- Structure
- Unpaved Road
- Paved Road
- Wetland

SCALE

1" = 200'

200 0 200 400 600 800

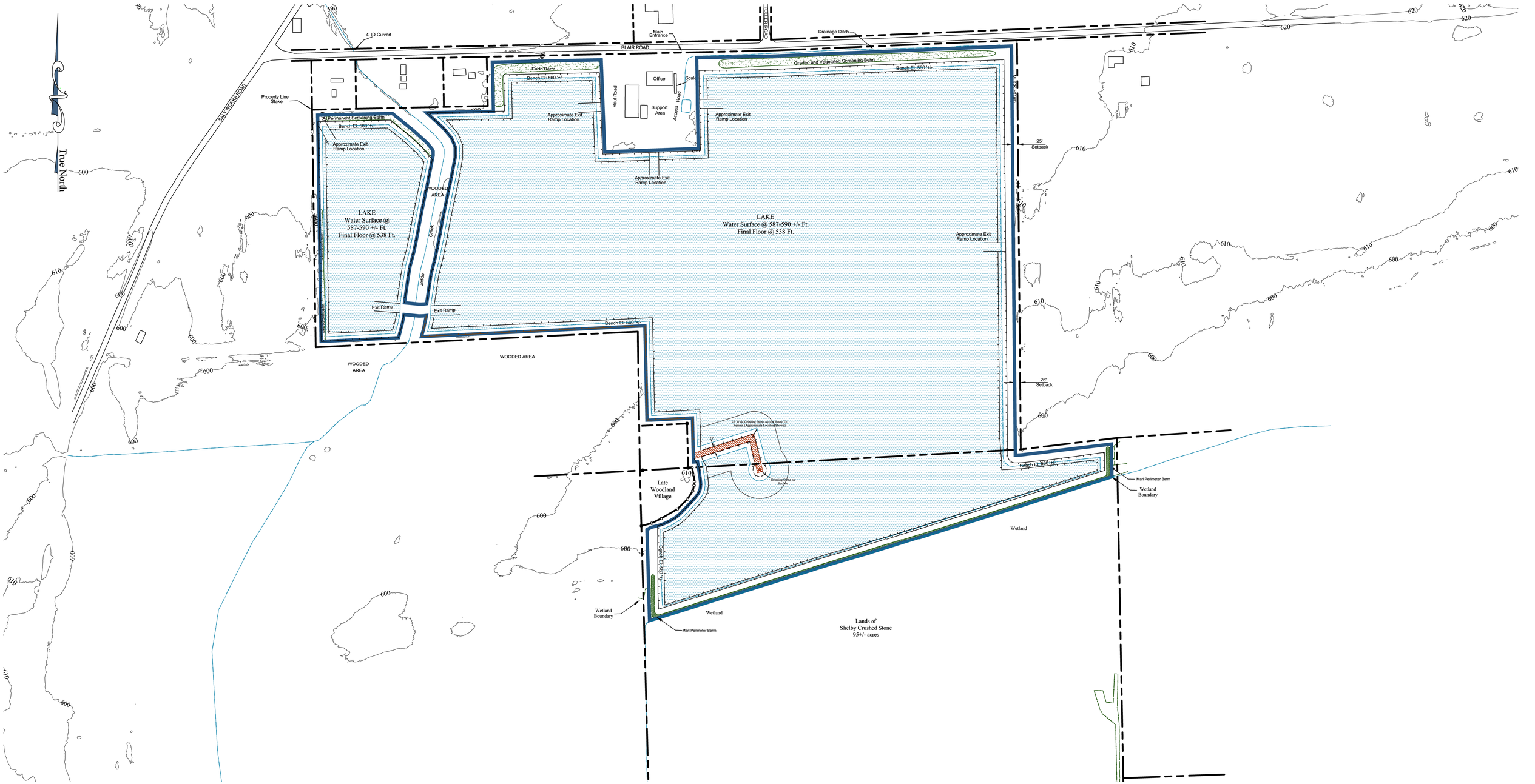
NOTES

Base Maps & Background Information

- Mining Plan Map prepared by Griggs-Lang Consulting Geologists, last updated June 9, 2014.
- Extended elevation contours (2 foot) derived from LiDAR dataset provided through NYSGIS Clearinghouse available at http://www.orthos.dhses.ny.gov/.
- Certain map features digitized from digital high resolution aerial orthophotos provided from the National Aerial Imagery Program (NAIP) and the NYSGIS Clearinghouse.
- Property lines updated from Map of Part of Lots-15, 16, & 29, TWP.-14, R.-4, Holland Purchase by McIntosh & McIntosh, PC, last revised 12/19/13.
- Limits of Shelby Fort Site and buffer area location updated from Survey of Part of Lot-15, TWP-14, Holland Purchase. By McIntosh & McIntosh, P.C. dated August 21, 2018.

ACREAGE SUMMARY

- Total Acreage Currently Affected by Mining Activities: 99.9+/- acres
- Lands Currently Affected By Mining Activities To Be Reclaimed During The 2018-2023 Permit Term 5.4+/- acres
- Lands Approved As Reclaimed By NYSDEC: 5.8+/- acres
- Additional Lands To Be Affected During The 2018-2023 Permit Term: 15+/- acres
- Total Lands To Be Affected by Mining Activities During The 2018-2023 Permit Term: 114.9+/- acres
- Current Life of Mine Area: 105.9+/- acres
- Lands Proposed To Be Added To The Life of Mine Area: 15+/- acres



RECLAMATION PLAN MAP

Medina Mine

NYSDEC Mine ID: 80346

Shelby Crushed Stone, Inc.

Town of Shelby, Orleans County, New York

Prepared by:

strategic mining solutions
prospecting • planning • permitting • problem solving

Strategic Mining Solutions LLC
Geologists & Mining Consultants
473 Brockway Road / Frankfort, New York 13340

David Shank
315.725.5734
dave@miningstrategy.com

Brian Milliman
315.725.6259
brian@miningstrategy.com

Details:

Date: August 17, 2016
Horizontal Scale: 1" = 200'
Datum: Mean Sea Level
USGS Quad: Medina 7.5'
Contour Interval: 10 feet
Drafted by: Milliman

REVISIONS

Date	Description	By
11/6/18	Add Expansion Area	BTM
6/21/19	Survey Update	BTM
8/16/19	Survey Update	BTM
11/12/19	Update Quarry Face	BTM

LEGEND

- Property Line
- Life of Mine Boundary
- 10' Contour Line
- Stream/Edge of Water
- Structure
- Unpaved Road
- Paved Road
- Wetland

SCALE

1" = 200'

200 0 200 400 600 800

NOTES

Base Maps & Background Information

- Mining Plan Map prepared by Griggs-Lang Consulting Geologists, last updated June 9, 2014.
- Extended elevation contours (2 foot) derived from LiDAR dataset provided through NYSGIS Clearinghouse available at http://www.orthos.dhses.ny.gov/.
- Certain map features digitized from digital high resolution aerial orthophotos provided from the National Aerial Imagery Program (NAIP) and the NYSGIS Clearinghouse.
- Property lines updated from Map of Part of Lots-15, 16, & 29, TWP.-14, R.-4, Holland Purchase by McIntosh & McIntosh, PC, last revised 12/19/13.
- Limits of Shelby Fort Site and buffer area location updated from Survey of Part of Lot-15, TWP-14, Holland Purchase. By McIntosh & McIntosh, P.C. dated August 21, 2018.

ACREAGE SUMMARY

Life of Mine Area To Be Reclaimed: 120.9+/- acres

APPENDIX A

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1is accurate and complete.

A. Project and Applicant/Sponsor Information.

Name of Action or Project:		
Project Location (describe, and attach a general location map):		
Brief Description of Proposed Action (include purpose or need):		
Name of Applicant/Sponsor:	Telephone: E-Mail:	
Address:		
City/PO:	State:	Zip Code:
Project Contact (if not same as sponsor; give name and title/role):	Telephone: E-Mail:	
Address:		
City/PO:	State:	Zip Code:
Property Owner (if not same as sponsor):	Telephone: E-Mail:	
Address:		
City/PO:	State:	Zip Code:

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. ("Funding" includes grants, loans, tax relief, and any other forms of financial assistance.)

Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Counsel, Town Board, or Village Board of Trustees □ Yes □ No		
b. City, Town or Village Planning Board or Commission □ Yes □ No		
c. City, Town or Village Zoning Board of Appeals □ Yes □ No		
d. Other local agencies □ Yes □ No		
e. County agencies □ Yes □ No		
f. Regional agencies □ Yes □ No		
g. State agencies □ Yes □ No		
h. Federal agencies □ Yes □ No		

i. Coastal Resources.

i. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? □ Yes □ No

ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program? □ Yes □ No

iii. Is the project site within a Coastal Erosion Hazard Area? □ Yes □ No

C. Planning and Zoning

C.1. Planning and zoning actions.

Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? □ Yes □ No

- **If Yes,** complete sections C, F and G.
- **If No,** proceed to question C.2 and complete all remaining sections and questions in Part 1

C.2. Adopted land use plans.

a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? □ Yes □ No

If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? □ Yes □ No

b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway; Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) □ Yes □ No

If Yes, identify the plan(s):

_____

_____

_____

c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? □ Yes □ No

If Yes, identify the plan(s):

_____

_____

_____

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. □ Yes □ No
If Yes, what is the zoning classification(s) including any applicable overlay district?

_____
_____

b. Is the use permitted or allowed by a special or conditional use permit? □ Yes □ No

c. Is a zoning change requested as part of the proposed action? □ Yes □ No
If Yes,
i. What is the proposed new zoning for the site? _____

C.4. Existing community services.

a. In what school district is the project site located? _____

b. What police or other public protection forces serve the project site?

_____

c. Which fire protection and emergency medical services serve the project site?

_____

d. What parks serve the project site?

_____
_____

D. Project Details

D.1. Proposed and Potential Development

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)?

_____

b. a. Total acreage of the site of the proposed action? _____ acres
b. Total acreage to be physically disturbed? _____ acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? _____ acres

c. Is the proposed action an expansion of an existing project or use? □ Yes □ No
i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % _____ Units: _____

d. Is the proposed action a subdivision, or does it include a subdivision? □ Yes □ No
If Yes,
i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)

_____
ii. Is a cluster/conservation layout proposed? □ Yes □ No
iii. Number of lots proposed? _____
iv. Minimum and maximum proposed lot sizes? Minimum _____ Maximum _____

e. Will the proposed action be constructed in multiple phases? □ Yes □ No
i. If No, anticipated period of construction: _____ months
ii. If Yes:

- Total number of phases anticipated _____
- Anticipated commencement date of phase 1 (including demolition) _____ month _____ year
- Anticipated completion date of final phase _____ month _____year
- Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases: _____

_____
_____

f. Does the project include new residential uses? □ Yes □ No
If Yes, show numbers of units proposed.

	One Family	Two Family	Three Family	Multiple Family (four or more)
Initial Phase	_____	_____	_____	_____
At completion of all phases	_____	_____	_____	_____

g. Does the proposed action include new non-residential construction (including expansions)? □ Yes □ No
If Yes,
i. Total number of structures _____
ii. Dimensions (in feet) of largest proposed structure: _____height; _____width; and _____ length
iii. Approximate extent of building space to be heated or cooled: _____ square feet

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? □ Yes □ No
If Yes,
i. Purpose of the impoundment: _____
ii. If a water impoundment, the principal source of the water: □ Ground water □ Surface water streams □ Other specify:
_____
iii. If other than water, identify the type of impounded/contained liquids and their source.
_____
iv. Approximate size of the proposed impoundment. Volume: _____ million gallons; surface area: _____ acres
v. Dimensions of the proposed dam or impounding structure: _____ height; _____ length
vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete):
_____

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite) □ Yes □ No
If Yes:
i .What is the purpose of the excavation or dredging? _____
ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?
- Volume (specify tons or cubic yards): _____
- Over what duration of time? _____

iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them.
_____
_____
i*v.* Will there be onsite dewatering or processing of excavated materials? □ Yes □ No
If yes, describe. _____
_____
v. What is the total area to be dredged or excavated? _____acres
vi. What is the maximum area to be worked at any one time? _____ acres
vii. What would be the maximum depth of excavation or dredging? _____ feet
viii. Will the excavation require blasting? □ Yes □ No
ix. Summarize site reclamation goals and plan: _____
_____
_____

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? □ Yes □ No
If Yes:
i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): _____
_____

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:

_____

_____

_____

_____

iii. Will the proposed action cause or result in disturbance to bottom sediments? Yes □ No

If Yes, describe: _____

iv. Will the proposed action cause or result in the destruction or removal of aquatic vegetation? □ Yes □ No

If Yes:

- acres of aquatic vegetation proposed to be removed: _____
- expected acreage of aquatic vegetation remaining after project completion:_____
- purpose of proposed removal (e.g. beach clearing, invasive species control, boat access): _____

_____

- proposed method of plant removal: _____
- if chemical/herbicide treatment will be used, specify product(s): _____

v. Describe any proposed reclamation/mitigation following disturbance: _____

_____

c. Will the proposed action use, or create a new demand for water? □ Yes □ No

If Yes:

i. Total anticipated water usage/demand per day: _____ gallons/day

ii. Will the proposed action obtain water from an existing public water supply? □ Yes □ No

If Yes:

- Name of district or service area: _____
- Does the existing public water supply have capacity to serve the proposal? ☐ Yes ☐ No
- Is the project site in the existing district? ☐ Yes ☐ No
- Is expansion of the district needed? ☐ Yes ☐ No
- Do existing lines serve the project site? ☐ Yes ☐ No

iii. Will line extension within an existing district be necessary to supply the project? □ Yes □ No

If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____

_____

- Source(s) of supply for the district: _____

iv. Is a new water supply district or service area proposed to be formed to serve the project site? □ Yes □ No

If, Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- Proposed source(s) of supply for new district: _____

v. If a public water supply will not be used, describe plans to provide water supply for the project: _____

_____

vi. If water supply will be from wells (public or private), what is the maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? □ Yes □ No

If Yes:

i. Total anticipated liquid waste generation per day: _____ gallons/day

ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each): _____

_____

_____

iii. Will the proposed action use any existing public wastewater treatment facilities? □ Yes □ No

If Yes:

- Name of wastewater treatment plant to be used: _____
- Name of district: _____
- Does the existing wastewater treatment plant have capacity to serve the project? □ Yes □ No
- Is the project site in the existing district? □ Yes □ No
- Is expansion of the district needed? □ Yes □ No

- Do existing sewer lines serve the project site? □ Yes □ No
- Will a line extension within an existing district be necessary to serve the project? □ Yes □ No

  If Yes:
  - Describe extensions or capacity expansions proposed to serve this project: _____

  _____

  _____

iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? □ Yes □ No

If Yes:
- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- What is the receiving water for the wastewater discharge? _____

v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge or describe subsurface disposal plans):

_____

_____

vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____

_____

_____

e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? □ Yes □ No

If Yes:

i. How much impervious surface will the project create in relation to total size of project parcel?

_____ Square feet or _____ acres (impervious surface)

_____ Square feet or _____ acres (parcel size)

ii. Describe types of new point sources. _____

_____

iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?

_____

_____

- If to surface waters, identify receiving water bodies or wetlands: _____

  _____

  _____
- Will stormwater runoff flow to adjacent properties? □ Yes □ No

iv. Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? □ Yes □ No

f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? □ Yes □ No

If Yes, identify:

i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)

_____

ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)

_____

iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)

_____

g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? □ Yes □ No

If Yes:

i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) □ Yes □ No

ii. In addition to emissions as calculated in the application, the project will generate:
- _____Tons/year (short tons) of Carbon Dioxide (CO_2)
- _____Tons/year (short tons) of Nitrous Oxide (N_2O)
- _____Tons/year (short tons) of Perfluorocarbons (PFCs)
- _____Tons/year (short tons) of Sulfur Hexafluoride (SF_6)
- _____Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflourocarbons (HFCs)
- _____Tons/year (short tons) of Hazardous Air Pollutants (HAPs)

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? ☐ Yes ☐ No

If Yes:

i. Estimate methane generation in tons/year (metric): _____

ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____

_____

i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? ☐ Yes ☐ No

If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust):

_____

_____

j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? ☐ Yes ☐ No

If Yes:

i. When is the peak traffic expected (Check all that apply): ☐ Morning ☐ Evening ☐Weekend

☐ Randomly between hours of _____ to _____.

ii. For commercial activities only, projected number of truck trips/day and type (e.g., semi trailers and dump trucks): _____

_____

iii. Parking spaces: Existing _____ Proposed _____ Net increase/decrease _____

iv. Does the proposed action include any shared use parking? Yes No

v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe:

_____

vi. Are public/private transportation service(s) or facilities available within ½ mile of the proposed site? ☐ Yes ☐ No

vii Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? ☐ Yes ☐ No

viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? ☐ Yes ☐ No

k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? ☐ Yes ☐ No

If Yes:

i. Estimate annual electricity demand during operation of the proposed action: _____

_____

ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other):

_____

iii. Will the proposed action require a new, or an upgrade, to an existing substation? ☐ Yes ☐ No

l. Hours of operation. Answer all items which apply.

i. During Construction:

- Monday - Friday: _____
- Saturday: _____
- Sunday: _____
- Holidays: _____

ii. During Operations:

- Monday - Friday: _____
- Saturday: _____
- Sunday: _____
- Holidays: _____

m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? □ Yes □ No

If yes:

i. Provide details including sources, time of day and duration:

_____

_____

ii. Will the proposed action remove existing natural barriers that could act as a noise barrier or screen? □ Yes □ No

Describe: _____

_____

n. Will the proposed action have outdoor lighting? □ Yes □ No

If yes:

i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:

_____

_____

ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? □ Yes □ No

Describe: _____

_____

o. Does the proposed action have the potential to produce odors for more than one hour per day? □ Yes □ No

If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures: _____

_____

_____

p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? □ Yes □ No

If Yes:

i. Product(s) to be stored _____

ii. Volume(s) _____ per unit time _____ (e.g., month, year)

iii. Generally, describe the proposed storage facilities:_____

_____

q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? □ Yes □ No

If Yes:

i. Describe proposed treatment(s):

_____

_____

_____

_____

ii. Will the proposed action use Integrated Pest Management Practices? □ Yes □ No

r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? □ Yes □ No

If Yes:

i. Describe any solid waste(s) to be generated during construction or operation of the facility:

- Construction: _____ tons per _____ (unit of time)
- Operation : _____ tons per _____ (unit of time)

ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:

- Construction: _____

  _____
- Operation: _____

  _____

iii. Proposed disposal methods/facilities for solid waste generated on-site:

- Construction: _____

  _____
- Operation: _____

  _____

s. Does the proposed action include construction or modification of a solid waste management facility? □ Yes □ No

If Yes:

i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): _____

ii. Anticipated rate of disposal/processing:

- _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
- _____ Tons/hour, if combustion or thermal treatment

iii. If landfill, anticipated site life: _____ years

t. Will the proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? □ Yes □ No

If Yes:

i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

_____

_____

ii. Generally describe processes or activities involving hazardous wastes or constituents: _____

_____

_____

iii. Specify amount to be handled or generated _____ tons/month

iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

_____

_____

v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? □ Yes □ No

If Yes: provide name and location of facility: _____

_____

If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility:

_____

_____

E. Site and Setting of Proposed Action

E.1. Land uses on and surrounding the project site

a. Existing land uses.

i. Check all uses that occur on, adjoining and near the project site.

□ Urban □ Industrial □ Commercial □ Residential (suburban) □ Rural (non-farm)

□ Forest □ Agriculture □ Aquatic □ Other (specify): _____

ii. If mix of uses, generally describe:

_____

_____

b. Land uses and covertypes on the project site.

Land use or Covertype	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces			
• Forested			
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)			
• Agricultural (includes active orchards, field, greenhouse etc.)			
• Surface water features (lakes, ponds, streams, rivers, etc.)			
• Wetlands (freshwater or tidal)			
• Non-vegetated (bare rock, earth or fill)			
• Other Describe: _____ _____			

c. Is the project site presently used by members of the community for public recreation? □ Yes □ No

i. If Yes: explain: _____

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? □ Yes □ No

If Yes,

i. Identify Facilities:

_____

_____

e. Does the project site contain an existing dam? □ Yes □ No

If Yes:

i. Dimensions of the dam and impoundment:

- Dam height: _____ feet
- Dam length: _____ feet
- Surface area: _____ acres
- Volume impounded: _____ gallons OR acre-feet

ii. Dam's existing hazard classification: _____

iii. Provide date and summarize results of last inspection:

_____

_____

f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? □ Yes □ No

If Yes:

i. Has the facility been formally closed? □ Yes □ No

- If yes, cite sources/documentation: _____

ii. Describe the location of the project site relative to the boundaries of the solid waste management facility:

_____

_____

iii. Describe any development constraints due to the prior solid waste activities: _____

_____

g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? □ Yes □ No

If Yes:

i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred:

_____

_____

h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? □ Yes □ No

If Yes:

i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: □ Yes □ No

□ Yes – Spills Incidents database Provide DEC ID number(s): _____

□ Yes – Environmental Site Remediation database Provide DEC ID number(s): _____

□ Neither database

ii. If site has been subject of RCRA corrective activities, describe control measures:_____

_____

_____

iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? □ Yes □ No

If yes, provide DEC ID number(s): _____

iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):

_____

_____

v. Is the project site subject to an institutional control limiting property uses? □ Yes □ No

- If yes, DEC site ID number: _____
- Describe the type of institutional control (e.g., deed restriction or easement): _____
- Describe any use limitations: _____
- Describe any engineering controls: _____
- Will the project affect the institutional or engineering controls in place? □ Yes □ No
- Explain: _____

_____

_____

E.2. Natural Resources On or Near Project Site

a. What is the average depth to bedrock on the project site? _____ feet

b. Are there bedrock outcroppings on the project site? □ Yes □ No
If Yes, what proportion of the site is comprised of bedrock outcroppings? _____%

c. Predominant soil type(s) present on project site: _____ _____%
_____ _____%
_____ _____%

d. What is the average depth to the water table on the project site? Average: _____ feet

e. Drainage status of project site soils: □ Well Drained: _____% of site
□ Moderately Well Drained: _____% of site
□ Poorly Drained _____% of site

f. Approximate proportion of proposed action site with slopes: □ 0-10%: _____% of site
□ 10-15%: _____% of site
□ 15% or greater: _____% of site

g. Are there any unique geologic features on the project site? □ Yes □ No
If Yes, describe: _____

_____

h. Surface water features.

i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? □ Yes □ No

ii. Do any wetlands or other waterbodies adjoin the project site? □ Yes □ No

If Yes to either *i* or *ii*, continue. If No, skip to E.2.i.

iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? □ Yes □ No

iv. For each identified regulated wetland and waterbody on the project site, provide the following information:

- Streams: Name _____ Classification _____
- Lakes or Ponds: Name _____ Classification _____
- Wetlands: Name _____ Approximate Size _____
- Wetland No. (if regulated by DEC) _____

v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? □ Yes □ No

If yes, name of impaired water body/bodies and basis for listing as impaired: _____

_____

i. Is the project site in a designated Floodway? □ Yes □ No

j. Is the project site in the 100-year Floodplain? □ Yes □ No

k. Is the project site in the 500-year Floodplain? □ Yes □ No

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? □ Yes □ No
If Yes:

i. Name of aquifer: _____

m. Identify the predominant wildlife species that occupy or use the project site: _____

_____ _____ _____

_____ _____ _____

n. Does the project site contain a designated significant natural community? □ Yes □ No

If Yes:

i. Describe the habitat/community (composition, function, and basis for designation): _____

_____

ii. Source(s) of description or evaluation: _____

iii. Extent of community/habitat:

- Currently: _____ acres
- Following completion of project as proposed: _____ acres
- Gain or loss (indicate + or -): _____ acres

o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? □ Yes □ No

If Yes:

i. Species and listing (endangered or threatened):_____

_____

_____

p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? □ Yes □ No

If Yes:

i. Species and listing:_____

_____

q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? □ Yes □ No

If yes, give a brief description of how the proposed action may affect that use: _____

_____

E.3. Designated Public Resources On or Near Project Site

a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? □ Yes □ No

If Yes, provide county plus district name/number: _____

b. Are agricultural lands consisting of highly productive soils present? □ Yes □ No

i. If Yes: acreage(s) on project site? _____

ii. Source(s) of soil rating(s): _____

c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? □ Yes □ No

If Yes:

i. Nature of the natural landmark: □ Biological Community □ Geological Feature

ii. Provide brief description of landmark, including values behind designation and approximate size/extent: _____

_____

_____

d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? □ Yes □ No

If Yes:

i. CEA name: _____

ii. Basis for designation: _____

iii. Designating agency and date: _____

e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places? ☐ Yes ☐ No

If Yes:

i. Nature of historic/archaeological resource: ☐ Archaeological Site ☐ Historic Building or District

ii. Name: _____

iii. Brief description of attributes on which listing is based:

_____

f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory? ☐ Yes ☐ No

g. Have additional archaeological or historic site(s) or resources been identified on the project site? ☐ Yes ☐ No

If Yes:

i. Describe possible resource(s): _____

ii. Basis for identification: _____

h. Is the project site within fives miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource? ☐ Yes ☐ No

If Yes:

i. Identify resource: _____

ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): _____

iii. Distance between project and resource: _____ miles.

i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666? ☐ Yes ☐ No

If Yes:

i. Identify the name of the river and its designation: _____

ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666? ☐ Yes ☐ No

F. Additional Information

Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification

I certify that the information provided is true to the best of my knowledge.

Applicant/Sponsor Name _____ Date_____

Signature_____ Title_____

EAF Mapper Summary Report

Monday, July 01, 2019 11:11 AM

Disclaimer: The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in order to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.

B.i.i [Coastal or Waterfront Area]	No
B.i.ii [Local Waterfront Revitalization Area]	No
C.2.b. [Special Planning District]	Yes - Digital mapping data are not available for all Special Planning Districts. Refer to EAF Workbook.
C.2.b. [Special Planning District - Name]	NYS Heritage Areas:West Erie Canal Corridor
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Listed]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.iii [Within 2,000' of DEC Remediation Site]	No
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	Yes
E.2.h.ii [Surface Water Features]	Yes
E.2.h.iii [Surface Water Features]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
E.2.h.iv [Surface Water Features - Stream Name]	847-683
E.2.h.iv [Surface Water Features - Stream Classification]	C
E.2.h.iv [Surface Water Features - Wetlands Name]	Federal Waters, NYS Wetland
E.2.h.iv [Surface Water Features - Wetlands Size]	NYS Wetland (in acres):361.3
E.2.h.iv [Surface Water Features - DEC Wetlands Number]	MD-9

E.2.h.v [Impaired Water Bodies]	No
E.2.i. [Floodway]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.2.j. [100 Year Floodplain]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.2.k. [500 Year Floodplain]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.2.l. [Aquifers]	No
E.2.n. [Natural Communities]	No
E.2.o. [Endangered or Threatened Species]	No
E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	Yes
E.3.a. [Agricultural District]	ORLEcn1
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National or State Register of Historic Places or State Eligible Sites]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.3.f. [Archeological Sites]	Yes
E.3.i. [Designated River Corridor]	No

The appendices for this document can be found in the appropriate DEIS appendix as indicated below:

Appendix A	Pertinent Correspondence
Appendix B	Final Scoping Document
Appendix C	Mined Land-Use Plan
Appendix D	Wetland Paperwork
Appendix E	Hydrogeologic Assessment Paperwork
Appendix F	Archaeological Paperwork