Application #:	
Date:	
Project Name:	

Page 1 of 2

Town of Florida Planning Board Application to the Planning Board

A completed Application must be filed at least ten (10) days prior to the meeting at which it is to be considered by the Planning Board, including all applicable attached information.

Applicant: Borrego Solar	Property Owner: Martin J. Milano
Address: 55 Technology Drive	(if different)
. 2441055	Address: 1292 Route 300
Lowell MA 01851	Newburgh NY 12550
Phone: ((315) 378-9576	
Professional Que Communication of the Profession of	Othory
Advisor: GHD Consulting Services Inc	Other:(if appropriate, please specify)
Address:285 Delaware Avenue	
Buffalo NY 14202	Address:
Phone: ((716)362-8879	Phone: ()
1) Property Location: Address: 153 YMCA Road	
	CA Road near intersection of Bean Hill Road
Zoning District:'A' Agricutural	
Tax Parcel ID# (SBL):102-1-19	32
2) Type of Application (please check appropri Major Subdivision/ Minor Subdivision Major Site Plan Minor Site Plan Special Permit	\$500 \$100 \$500 \$100 \$100
Lot Line Adjustment	\$100
3) Project Description: Single 4.3 MW wind to roadway and utilities For each type of application a checklist detailing	the required information has been ettacked. The second
are only intellect to be a guide to the applica	Int. for specifics on submission requirements
etc., the applicant should lefer to the	applicable Town Ordinance (Zoning, Subdivision, etc.), and
orace Law (SLQN, Ag & Warkers, etc).	1 .
Applicant Signature:	Date:
	Date.

Application #:	
Date:	
Project Name:	

For Office I	Use Onl	V
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Total Amount received: \$		
Check # (s)/Date:		
Received By:		
Zoning Enforcement Officer's certification that application i Regulations.	s complete and in conform	nance with Zoning
(Zoning Enforcement Officer)		
For Planning Board Use Only	eller omforder delegateliser eller vittil der freihe fan de de freih en de de freih eller eller eller eller el	····
The Planning Board held a Public Hearing on (year) in consideration of this application.	(day) of	(date),
The application is hereby:		
☐ Approved☐ Approved with modifications☐ Disapproved		
Modifications and comments:		
Chairman, Town of Florida Planning Board		
Date		

Full Environmental Assessment Form Part 1 - Project and Setting

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 1 is 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 Sponassistance.)	nsorship. ("Funding" includes grants, loans, tax	relief, and any other	forms of financial
Government Entity	If Yes: Identify Agency and Approval(s) Required	Application (Actual or p	
a. City Counsel, Town Board, ☐ Yes ☐ No or Village Board of Trustees			
b. City, Town or Village ☐ Yes ☐ No Planning Board or Commission			
c. City, Town or ☐ Yes ☐ No Village Zoning Board of Appeals			
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	or the waterfront area of a Designated Inland Wa	terway?	□ Yes □ No
ii. Is the project site located in a communityiii. Is the project site within a Coastal Erosion	with an approved Local Waterfront Revitalizati Hazard Area?	on Program?	□ Yes □ No □ Yes □ No
C. Planning and Zoning			
C.1. Planning and zoning actions.			
only approval(s) which must be granted to enal • If Yes, complete sections C, F and G.	mendment of a plan, local law, ordinance, rule of the proposed action to proceed? In plete all remaining sections and questions in Page 1.	-	□ Yes □ No
C.2. Adopted land use plans.	· · · · · · · · · · · · · · · · · · ·		
a. Do any municipally- adopted (city, town, vil where the proposed action would be located?		include the site	□ Yes □ No
If Yes, does the comprehensive plan include spewould be located?		oposed action	□ Yes □ No
b. Is the site of the proposed action within any l Brownfield Opportunity Area (BOA); design or other?) If Yes, identify the plan(s):	ocal or regional special planning district (for ex ated State or Federal heritage area; watershed m		□ Yes □ No
c. Is the proposed action located wholly or part	ially within an area listed in an adopted municip	al open space plan,	□ Yes □ No
or an adopted municipal farmland protection 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. If Yes, what is the zoning classification(s) including any applicable overlay district?	□ Yes □ No
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 components)?	l, include all
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? i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles square feet)? % Units:	☐ Yes ☐ No , 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?iii. Number of lots proposed?	□ Yes □ No
iv. Minimum and maximum proposed lot sizes? Minimum Maximum	
 e. Will the proposed action be constructed in multiple phases? i. If No, anticipated period of construction: months ii. If Yes: 	□ Yes □ No
 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 progred determine timing or duration of future phases: 	

	t include new resid				□ Yes □ No
If Yes, show num	bers of units propo				
	One Family	Two Family	Three Family	Multiple Family (four or more)	
Initial Phase					
At completion					
of all phases				- -	
D 4	1 1 1		1	1	- 77 - 77
	osed action include	new non-residentia	al construction (inclu	iding expansions)?	□ Yes □ No
If Yes,	of structures				
ii Dimensions (in feet) of largest p	ronosed structure	height:	width; andlength	
iii. Approximate	extent of building s	space to be heated	or cooled:	square feet	
				I result in the impoundment of any	□ Yes □ No
				agoon or other storage?	□ Tes □ No
If Yes,	s creation of a water	suppry, reservoir,	, pond, lake, waste ia	igoon of other storage:	
	impoundment:				
ii. If a water imp	impoundment:oundment, the prince	cipal source of the	water:	☐ Ground water ☐ Surface water stream	s □ Other specify:
iii. If other than w	vater, identify the ty	pe of impounded/o	contained liquids and	d their source.	
iv. Approximate	size of the proposed	d impoundment.	Volume:	million gallons; surface area:	acres
v. Dimensions o	f the proposed dam	or impounding str	ucture:	height; length	
				ructure (e.g., earth fill, rock, wood, conc	rete):
D.2. Project Op	erations				
			ning on Anadaina da	i	D Vas D Na
				uring construction, operations, or both? or foundations where all excavated	□ Yes □ No
materials will r		mon, grading or in	stanation of utilities	or foundations where all excavated	
If Yes:	cmam onsite)				
	rnose of the excava	tion or dredging?			
				be removed from the site?	-
	at duration of time?				
				ged, and plans to use, manage or dispose	of them.
iv. Will there be	onsite dewatering of	or processing of ex	cavated materials?		□ Yes □ No
v What is the to	ital area to be dredg	ed or excavated?		acres	
vi What is the m	aximum area to be	worked at any one	time?	acres	
		•		feet	
	vation require blast		7 drod5m5	1000	□ Yes □ No
		<u> </u>			
				crease in size of, or encroachment	□ Yes □ No
•	ng wetland, waterb	ody, shoreline, bea	ch or adjacent area?		
If Yes:	.1 1 . 1 . 1	1.1 11.	CC 4 1 /1		
				vater index number, wetland map number	
description):					

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placemalteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in sq.	
iii. Will the proposed action cause or result in disturbance to bottom sediments? If Yes, describe:	Yes □ No
<i>iv</i> . Will the proposed action cause or result in the destruction or removal of aquatic vegetation? If Yes:	□ Yes □ No
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:	
. Will the proposed action use, or create a new demand for water?	□ Yes □ No
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
Yes:	
Name of district or service area:	
Does the existing public water supply have capacity to serve the proposal? Let be a principle of the principle of 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? Will be a considered with the project site?	□ Yes □ No
ii. Will line extension within an existing district be necessary to supply the project? Yes:	□ Yes □ No
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:	□ Yes □ No
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.
. Will the proposed action generate liquid wastes?	□ Yes □ No
Yes:	
i. Total anticipated liquid waste generation per day: gallons/day	11 . 1
ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe a approximate volumes or proportions of each):	
approximate volumes of proportions of each).	
i. Will the proposed action use any existing public wastewater treatment facilities? If Yes:	□ Yes □ No
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 speci	fying 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	□ Yes □ No
sources (i.e. thenes, pipes, swales, curbs, guiters of other concentrated flows of stormwater) of non-point source (i.e. sheet flow) during construction or post construction?	
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 pr 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
<i>iv.</i> 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	□ Yes □ No
combustion, waste incineration, or other processes or operations?	
If Yes, identify: i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)	
i. Woone sources during project operations (e.g., neavy equipment, freet of derivery 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,	□ Yes □ No
or Federal Clean Air Act Title IV or Title V Permit?	
If Yes:	
i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet	\square Yes \square No
ambient air quality standards for all or some parts of the year)	
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 ₂ O)	
•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 (included landfills, composting facilities)? If Yes:		□ Yes □ No
i. Estimate methane generation in tons/year (metric):ii. Describe any methane capture, control or elimination me electricity, flaring):	easures included in project design (e.g., combustion to go	enerate heat or
i. Will the proposed action result in the release of air polluta quarry or landfill operations? If Yes: Describe operations and nature of emissions (e.g., die action).		□ Yes □ No
 j. Will the proposed action result in a substantial increase in new demand for transportation facilities or services? If Yes: i. When is the peak traffic expected (Check all that apply): □ Randomly between hours of	: □ Morning □ Evening □ Weekend	□ Yes □ No
 iii. Parking spaces: Existing	g? sting roads, creation of new roads or change in existing available within ½ mile of the proposed site? ortation or accommodations for use of hybrid, electric	Yes No
 k. Will the proposed action (for commercial or industrial profor energy? If Yes: i. Estimate annual electricity demand during operation of the project other): iii. Anticipated sources/suppliers of electricity for the project other): iiii. Will the proposed action require a new, or an upgrade, to 	the proposed action:tet (e.g., on-site renewable, via grid/l	□ Yes □ No ocal utility, or □ Yes □ No
Hours of operation. Answer all items which apply. i. During Construction: Monday - Friday: Saturday: Sunday: Holidays:	 ii. During Operations: Monday - Friday:	

m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction,	□ Yes □ No
operation, or both? If yes:	
i. Provide details including sources, time of day and duration:	
	
<i>ii.</i> 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? If yes:	□ Yes □ No
i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:	
<i>ii.</i> 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)	□ Yes □ No
or chemical products 185 gallons in above ground storage or any amount in underground storage?	
If Yes:	
i. Product(s) to be stored	
iii. Generally, describe the proposed storage facilities:	
q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides,	□ Yes □ No
insecticides) during construction or operation?	
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	□ Yes □ No
of solid waste (excluding hazardous materials)? If Yes:	
<i>i.</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:	
Construction.	
Operation:	
iii. Proposed disposal methods/facilities for solid waste generated on-site:	
Construction:	
Operation:	

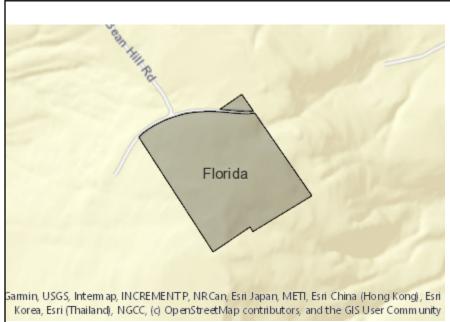
	nanagement facility?	□ Yes □ No		
other disposal activities): ii. Anticipated rate of disposal/processing:				
ombustion/thermal treatm	ent. or			
reatment	ioni, or			
cial generation, treatment	, storage, or disposal of hazard	ous □ Yes □ No		
generated, handled or ma	naged at facility:			
azardous wastes or constit	tuents:			
	us constituents:			
		□ Yes □ No		
wastes which will not be so	ent to a hazardous waste facilit	y:		
ential (suburban) Ru				
Current	Acrossa After	Changa		
Current Acreage	Acreage After Project Completion	Change (Acres +/-)		
		_		
		_		
		_		
		_		
		_		
		_		
		_		
		_		
	ombustion/thermal treatment			

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? If Yes, i. Identify Facilities:	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? If Yes: i. Identify Facilities: Does the project site contain an existing dam? if Yes: i. Dimensions of the dam and impoundment: i. Dam height: i. Dam height: i. Dam length: i. Dam length: i. Dam length: ii. Dam serving hazard classification: iii. Provide date and summarize results of last inspection: iii. Provide date and summarize results of last inspection: iii. Provide date and summarize results of last inspection: iii. Provide date and summarize results of last inspection: iii. Describe the location of the project site relative to the boundaries of the solid waste management facility: iii. 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: iii. Describe waste(s) handled and waste management activities, including approximate time when activities occurred: iii. Describe waste(s) handled and waste management activities, including approximate time when activities occurred: iii. Describe waste(s) handled and waste management activities, including approximate time when activities occurred: iii. Posteribe waste(s) handled and waste management activities, including approximate time when activities occurred: iii. Posteribe waste(s) handled and waste management activities, including approximate time when activities occurred: iii. Posteribe waste(s) handled and waste management activities, including approximate time when activities occurred: iii. Posteribe waste(s) handled and waste management activities, including approximate time when activities occurred: iii. Is supportion of the site don the NYSDEC Spills Incidents database or Environmental Site or law and provide Database? iii. If site has been subject of RCRA corrective activities, descr		
day care centers, or group homes) within 1500 feet of the project site? If Yes: i. Identify Facilities:	day care centers, or group homes) within 1500 feet of the project site? If Yes, I. Identify Facilities:	c. Is the project site presently used by members of the community for public recreation? i. If Yes: explain:	□ Yes □ No
e. Does the project site contain an existing dam? If Yes: i. Dimensions of the dam and impoundment: • Dam height: • Dam height: • Dam length: • Surface area: • Volume impounded: iii. Drive existing hazard classification: iii. Provide date and summarize results of last inspection: iii. Provide date and summarize results of last inspection: iii. Provide date and summarize results of last inspection: iii. Provide date and summarize results of last inspection: iii. Provide date and summarize results of last inspection: iii. Provide date and summarize results of last inspection: iii. Provide date and summarize results of last inspection: iii. Provide date and summarize results of last inspection: iii. Provide date and summarize results of last inspection: iii. Provide date and summarize results of last inspection: iii. Describe the project site adjoin property which is now, or was at one time, used as a solid waste management facility? iii. Describe the location of the project site relative to the boundaries of the solid waste management facility: iiii. Describe any development constraints due to the prior solid waste activities: iiii. Describe any development constraints due to the prior solid waste activities: iiii. Describe waste(s) handled and waste management activities, including approximate time when activities occurred: iii. Describe waste(s) handled and waste management activities, including approximate time when activities occurred: iii. Describe waste(s) handled and waste management activities, including approximate time when activities occurred: iii. Provide Describe waste(s) handled and waste management activities, including approximate time when activities occurred: iii. Is supportion of the site listed on the NYSDEC Spills Incidents database or Environmental Site or have any waste of the proposed site? If Yes: i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site or have any waste of the proposed site? If Site has been subject	E. Does the project site contain an existing dam? If Yes: i. Dimensions of the dam and impoundment: • Dam height: • Dam height: • Dam length: • Surface area: • Volume impounded: iii. Dam's existing hazard classification: iii. Provide date and summarize results of last inspection: iii. Provide date and summarize results of last inspection: iii. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility; If Yes: i. Has the project site adjoin property which is now, or was at one time, used as a solid waste management facility? If Yes: i. Has the facility been formally closed? • If yes, cite sources/documentation: iii. Describe the location of the project site relative to the boundaries of the solid waste management facility: iiii. 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? 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? 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 = Spills Incidents database Provide DEC ID number(s): No Height and such a property within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? No Hyes, provide DEC ID number(s):	If Yes,	□ Yes □ No
If Yes: i. Dimensions of the dam and impoundment: • Dam height: • Dam length: • Dam length: • Surface area: • Volume impounded: iii. Provide date and summarize results of last inspection: iiii. Provide date and summarize results of last inspection: iii. Provide date and summarize results of last inspection: iii. Provide date and summarize results of last inspection: iii. Provide date and summarize results of last inspection: iii. Provide date and summarize results of last inspection: iii. Provide date and summarize results of last inspection: iii. Provide date and summarize results of last inspection: iii. Provide date and summarize results of last inspection: iii. Provide date and summarize results of last inspection: iii. Provide date and summarize results of last inspection: iii. Provide date and summarize results of last inspection: iii. Provide date and summarize results of last inspection: iii. Provide date and summarize results of last inspection: iii. 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? If Yes: i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred: if Yes: i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred: if Yes: i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site. Yes No Remediation database? Check all that apply: Yes = Spills Incidents database Provide DEC ID number(s): Yes No Remediation database? Provide DEC ID number(s): Yes No Remediation database? Provide DEC ID number(s): Yes No Remediation databas	If Yes: i. Dimensions of the dam and impoundment: • Dam height: • Dam length: • Dam length: • Surface area: • Volume impounded: ii. Dam's existing hazard classification: iii. Provide date and summarize results of last inspection: iii. Provide date and summarize results of last inspection: iii. Provide date and summarize results of last inspection: iii. Provide date and summarize results of last inspection: iii. Provide date and summarize results of last inspection: iii. Bas the project site edjoin property which is now, or was at one time, used as a solid waste management facility? iii. Has the facility been formally closed? • If yes, cite sources/documentation: iii. Describe the location of the project site relative to the boundaries of the solid waste management facility: iiii. 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? If Yes: i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred: ii. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site yes – Spills Incidents database Provide DEC ID number(s): yes – Spills Incidents database Provide DEC ID number(s): yes – No property within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? yes provide DEC ID number(s):	t. identify Pacifices.	
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If yes, provide DEC ID number(s):	If yes, provide DEC ID number(s):	ii. If site has been subject of RCRA corrective activities, describe control measures:	
			□ Yes □ No

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 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	
	D.V. D.N.
g. Are there any unique geologic features on the project site? If Yes, describe:	□ Yes □ No
1 200, 400011001	
h. Surface water features.	
i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers,	□ Yes □ No
ponds or lakes)?	
ii. Do any wetlands or other waterbodies adjoin the project site?	\square Yes \square No
If Yes to either <i>i</i> or <i>ii</i> , 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,	□ Yes □ No
state or local agency? iv. For each identified regulated wetland and waterbody on the project site, provide the following information	on.
• Streams: Name Classification	
 Lakes or Ponds: Name Classification 	
Wetlands: Name Approximate Size Wetland No. (if regulated by DEC)	e
• Wetland No. (if regulated by DEC)	□ Yes □ No
waterbodies?	- 1 c s - 110
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
1. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer?	□ Yes □ No
If Yes: i. Name of aquifer:	
6. I raine of aquiter.	

m. Identify the predominant wildlife species that occupy or use the project site:	
n. Does the project site contain a designated significant natural community? If Yes: i. Describe the habitat/community (composition, function, and basis for designation):	□ Yes □ No
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 specific species and listing (endangered or threatened): 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? If yes, give a brief description of how the proposed action may affect that use:	□ Yes □ No
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? If Yes, provide county plus district name/number:	□ Yes □ No
b. Are agricultural lands consisting of highly productive soils present? i. If Yes: acreage(s) on project site? ii. Source(s) of soil rating(s):	□ Yes □ No
The second secon	
 c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? If Yes: i. Nature of the natural landmark: □ Biological Community □ Geological Feature 	□ Yes □ No
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? If Yes: i. CEA name:	□ Yes □ No
ii. Basis for designation:	

e. Does the project site contain, or is it substantially contiguous to, a building, arch which is listed on the National or State Register of Historic Places, or that has be Office of Parks, Recreation and Historic Preservation to be eligible for listing on If Yes: i. Nature of historic/archaeological resource: Archaeological Site Historic Name: iii. Brief description of attributes on which listing is based:	een determined by the Commissioner of the NYS
f. Is the project site, or any portion of it, located in or adjacent to an area designate archaeological sites on the NY State Historic Preservation Office (SHPO) archae	
g. Have additional archaeological or historic site(s) or resources been identified on 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 accessenic or aesthetic resource? If Yes: i. Identify resource: ii. Nature of, or basis for, designation (e.g., established highway overlook, state or etc.):	
etc.): miles.	
 i. Is the project site located within a designated river corridor under the Wild, Sce Program 6 NYCRR 666? If Yes: i. Identify the name of the river and its designation: 	
ii. Is the activity consistent with development restrictions contained in 6NYCRR	
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 p measures which you propose to avoid or minimize them.	proposal, please describe those impacts plus any
G. Verification I certify that the information provided is true to the best of my knowledge.	
Applicant/Sponsor Name Date	
2,2.	



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.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:Mohawk Valley Heritage Corridor E.1.h. [DEC Spills or Remediation Site - Digital mapping data are not available or are incomplete. Refer to EAF Workbook. E.1.h.i [DEC Spills or Remediation Site - Digital mapping data are not available or are incomplete. Refer to EAF Workbook. E.1.h.ii [DEC Spills or Remediation Site - Digital mapping data are not available or are incomplete. Refer to EAF Workbook. E.1.h.ii [DEC Spills or Remediation Site - Digital mapping data are not available or are incomplete. Refer to EAF Workbook. E.1.h.ii [Within 2,000' of DEC Remediation Site - Workbook. E.2.g [Unique Geologic Features] No E.2.h.ii [Surface Water Features] No E.2.h.ii [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.v [Impaired Water Bodies] No E.2.h.v [Impaired Water Bodies] No E.2.i. [Floodway] No E.2.i. [Floodway] No E.2.i. [Floodway] No E.2.i. [Gouyear Floodplain] No E.2.l. [Aquifers] Yes E.2.l. [Aquifer Names] Principal Aquifer	B.i.i [Coastal or Waterfront 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] E.1.h [DEC Spills or Remediation Site - Potential Contamination History] E.1.h.i [DEC Spills or Remediation Site - Initiated] Digital mapping data are not available or are incomplete. Refer to EAF Workbook. Digital mapping data are not available or are incomplete. Refer to EAF Workbook. Digital mapping data are not available or are incomplete. Refer to EAF Workbook. Digital mapping data are not available or are incomplete. Refer to EAF Workbook. Digital mapping data are not available or are incomplete. Refer to EAF Workbook. Digital mapping data are not available or are incomplete. Refer to EAF Workbook. Digital mapping data are not available or are incomplete. Refer to EAF Workbook. Digital mapping data are not available or are incomplete. Refer to EAF Workbook. No Site] No E.2.g [Unique Geologic Features] No E.2.h.iii [Surface Water Features] Yes Digital mapping data are not available or are incomplete. Refer to EAF Workbook. No E.2.h.iii [Surface Water Features] No E.2.h.iii [Surface Water Features] Yes Digital mapping data are not available or are incomplete. Refer to EAF Workbook. No E.2.h.iii [Surface Water Features] No E.2.h.iii [Surface Water Features] Yes Digital mapping data are not available or are incomplete. Refer to EAF Workbook. No E.2.h.iii [Surface Water Features] No E.2.h.iii [Surface Water Features] No E.2.h.iii [Surface Water Features] No E.2.h.iii [Surface Water Bodies] No E.2.i. [Floodway] No E.2.i. [Floodway] No E.2.i. [Floodway] No E.2.k. [500 Year Floodplain] No E.2.l. [Aquifers] Principal Aquifer		
Refer to EAF Workbook. C.2.b. [Special Planning District - Name] E.1.h [DEC Spills or Remediation Site - Potential Contamination History] E.1.h. [DEC Spills or Remediation Site - Workbook. E.1.h.i [DEC Spills or Remediation Site - Listed] E.1.h.i [DEC Spills or Remediation Site - Workbook. E.1.h.i [DEC Spills or Remediation Site - Listed] E.1.h.i [DEC Spills or Remediation Site - Workbook. E.1.h.ii [Within 2,000' of DEC Remediation Database] E.1.h.ii [Within 2,000' of DEC Remediation Site] E.2.g [Unique Geologic Features] No E.2.h.ii [Surface Water Features] E.2.h.iii [Surface Water Features] Yes E.2.h.iii [Surface Water Features] No E.2.h.ii [Impaired Water Bodies] No E.2.i. [Floodway] No E.2.i. [Floodway] No E.2.k. [500 Year Floodplain] No E.2.l. [Aquifer Names] Principal Aquifer	B.i.ii [Local Waterfront Revitalization Area]	No
E.1.h [DEC Spills or Remediation Site - Potential Contamination History] E.1.h.i [DEC Spills or Remediation Site - Listed] E.1.h.ii [Within 2,000' of DEC Remediation No E.2.g [Unique Geologic Features] No E.2.h.ii [Surface Water Features] Yes E.2.h.ii [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.v [Impaired Water Bodies] No E.2.i. [Floodway] No E.2.i. [500 Year Floodplain] No E.2.l. [Aquifers] Yes Principal Aquifer	C.2.b. [Special Planning District]	
Potential Contamination History] 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 - Workbook. E.1.h.ii [DEC Spills or Remediation Database] Digital mapping data are not available or are incomplete. Refer to EAF Workbook. Digital mapping data are not available or are incomplete. Refer to EAF Workbook. No 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 - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook. E.2.h.v [Impaired Water Bodies] No E.2.i. [Floodway] No E.2.i. [Floodyay] No E.2.i. [500 Year Floodplain] No E.2.l. [Aquifers] Yes E.2.l. [Aquifer Names] Principal Aquifer	C.2.b. [Special Planning District - Name]	NYS Heritage Areas:Mohawk Valley Heritage Corridor
Listed] 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.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.v [Impaired Water Bodies] No E.2.i. [Floodway] No E.2.j. [100 Year Floodplain] No E.2.k. [500 Year Floodplain] No E.2.l. [Aquifers] Yes E.2.l. [Aquifer Names] Principal Aquifer	E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	
Environmental Site Remediation Database] E.1.h.iii [Within 2,000' of DEC Remediation Site] E.2.g [Unique Geologic Features] No E.2.h.i [Surface Water Features] E.2.h.ii [Surface Water Features] E.2.h.iii [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.v [Impaired Water Bodies] No E.2.i. [Floodway] No E.2.j. [100 Year Floodplain] No E.2.k. [500 Year Floodplain] No E.2.l. [Aquifers] Principal Aquifer	E.1.h.i [DEC Spills or Remediation Site - Listed]	
Site] E.2.g [Unique Geologic Features] No E.2.h.i [Surface Water Features] No 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.v [Impaired Water Bodies] No E.2.i. [Floodway] No E.2.i. [100 Year Floodplain] No E.2.k. [500 Year Floodplain] No E.2.l. [Aquifers] Yes E.2.l. [Aquifer Names]	E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	
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E.2.I. [Aquifer Names] Principal Aquifer	E.2.k. [500 Year Floodplain]	No
	E.2.I. [Aquifers]	Yes
E.2.n. [Natural Communities] No	E.2.I. [Aquifer Names]	Principal Aquifer
	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]	MONT003
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]	No
E.3.i. [Designated River Corridor]	No



Decommissioning Plan

153 YMCA Road Wind Energy Project, Town of Florida, Montgomery County, NY

Borrego Solar

July 21, 2021

GHD 337

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Project manager	Camie Jarrell
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Project number	11227527

Document status

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S3		Mel Gates	Camie Jarrell	Camie hall			
S4			Camie Jarrell	Camie hall	David Britton	Dain Britton	7/21/2021

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1. 153 YMCA Road Wind Project

1.1 Purpose of this report

This report summarizes the specific project components that will be removed, the costs associated with their removal and, where applicable, their associated salvage value. This report also provides overall unit costs (per turbine) for decommissioning the 153 YMCA Road Wind Project (Project).

1.2 Scope and limitations

This report: has been prepared by GHD for Borrego Solar and may only be used and relied on by Borrego Solar for the purpose agreed between GHD and Borrego Solar as set out in our Master Services Agreement.

GHD otherwise disclaims responsibility to any person other than Borrego Solar arising in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

1.3 System Description

The proposed Project is a wind energy facility located in the township of Florida, Montgomery County, New York. In general, the Project facilities will be comprised of one wind turbine, overhead and underground electrical collection system, access road, and associated facilities.

1.4 Decommissioning Sequence

Should the Project be decommissioned, the following facilities would require removal and the associated disposal of materials and equipment:

- Wind turbines
- Foundations
- Access roads
- Overhead and underground electrical system

2. Wind Turbines

2.1 Wind Turbine Decommissioning

Properly maintained wind turbines typically have a life expectancy of 20 to 25 years. At the end of the Project life, depending on market conditions and project viability, the wind turbines may be "re-powered" or upgraded with more efficient turbines and equipment. However, if not upgraded, or if the turbines are non-operational for an extended period of time (such that there is no expectation of their returning to operation), they will need to be decommissioned.

For the basis of this estimate, a Vestas Model V150, 4.3 MW turbine with a height of 105 meters (344 feet) was used for the calculation of unit weights for the salvage values of the equipment and materials. The turbine, along with the tower and associated components, will have resulting salvage values after decommissioning and removal of the units.

The major components of the wind turbines (tower, nacelle, hub and blades) are modular items that allow for ease of construction and disassembly during decommissioning or replacement. The tower is comprised of approximately 260 tons (236 metric tons) of painted steel structure. The hub is comprised of approximately 35 tons (31.7 metric tons) of cast iron/steel. Both the tower and the hub have the potential to be salvaged for scrap value. The nacelle has an overall unit weight of approximately 120 tons (108.5 metric tons) and is constructed of a combination of steel, copper, composite materials, and various other materials. Portions of the components within the nacelle and generators, along with overhead aluminum wires, have the potential to be salvaged for scrap value.

Scrap metal prices historically fluctuate with existing market conditions. The current salvage value for scrap #1 heavy melt steel (HMS) is approximately \$446.00 per US ton. Salvage values for #3 copper materials (CU 88 percent to 90 percent) currently average \$7,080 per US ton (\$3.55/lb.). Salvage values for aluminum wire currently average \$1.04 per pound. The salvage unit values for scrap steel, copper and aluminum are estimated based on current commodity prices. The commodity market prices used in the above estimate were obtained from Scrap Monster and various other sources, in July 2021 (July 2021 prices).

For the purpose of this decommissioning plan, it is assumed that the tower and nacelle will yield approximately 70 percent steel materials of which 75 percent of the available steel materials are adequate to process for salvage. Since the hub assembly is a cast iron/steel manufactured unit, it is anticipated that the hub assembly will yield 100 percent salvageable metallic materials. Copper salvage estimates were derived by assuming 10 percent of the total nacelle weight consists of copper bearing materials. Overhead aluminum power transmission wires would be salvaged. Since the construction of the rotor/blades are predominantly non-metallic materials (fiberglass reinforced epoxy and carbon fibers), no salvageable value for the rotor/blades were used in the decommissioning cost estimate. This is considered a conservative salvage estimate.

Based on the design of the wind farm incorporating one turbine, the total estimated steel salvage value for the tower, nacelle and hub assembly is estimated to be approximately \$100,350. The total estimated copper salvage value is estimated to be approximately \$85,000. The total estimated aluminum salvage value is estimated to be approximately \$130.

Petroleum, oils and/or lubricants (POL) contained in the wind turbine nacelle would require the removal and off-Site disposal during wind turbine decommissioning. Using currently estimated disposal costs, the costs anticipated for removal of POL from the nacelle and associated hauling fees to an approved off-Site disposal location, would be approximately \$1,000.00 for each wind turbine.

Based upon the anticipated total labor and equipment cost, including mobilization and demobilization, the estimated cost for dismantling of the turbines is outlined below. The cost estimate is based upon a two-day dismantling effort per turbine and included costs for a lift crane, secondary crane, mobilization, demobilization, and associated labor costs. The estimate includes the costs associated with the transport of the turbine components from the Site to a recycling facility.

Table 2.1 Wind Turbine Decommissioning

Turbine Decommissioning	Unit Cost	Unit
Mobilization to Site – Assume 1 day	\$31,000	Per Turbine
Turbine Removal/Dismantling	\$47,600	Per Turbine
Load/Transport Turbine Parts for Recycling	\$38,100	Per Turbine
Removal/Disposal of POL	\$1,000	Per Turbine
Total Estimated Cost for Turbine Removal	\$117,700	Total

3. Wind Turbine Foundations

3.1 Wind Turbine Foundation Decommissioning

The target removal depth of the foundation is required to be a minimum of 3 feet below grade for foundations located in non-agricultural lands and a minimum of 4 feet below grade for foundations located in active agricultural lands. For the purpose of this estimate, all foundations were calculated for removal to a depth of 4 feet to prevent interference with future farming activities. The estimated cost of removing each foundation includes the costs associated with mobilization, demolition, backfill and disposal of material, and final site restoration as shown in Table 3.1.

Table 3.1 Wind Turbine Foundation Decommissioning

Turbine Foundation Decommissioning	Unit Cost	Unit
Mobilization to Site – Assume 1 day	\$9,300	Per Foundation
Concrete Demolition – Assume 3 days per Foundation	\$12,600	Per Foundation
Disposal of Materials – Assume 1 day per Foundation	\$12,600	Per Foundation
Total Estimated Cost for Foundation Removal	\$34,500	Total

3.2 Wind Turbine Grounding System

The grounding system for each wind turbine consists of a grounding ring of copper cable that runs in a circle around the edge of the foundation near the foundation bottom. This ring connects several copper grounding rods driven into the ground around the perimeter of the foundation. A typical foundation is constructed so that the bottom of the spread footer is approximately 10 to 12 feet below grade (a typical depth used for example purposes only). The copper grounding ring would be approximately 12 feet below grade and the grounding rods would be installed so that their highest point is also 12 feet below grade. Because all of these components are more than 4 feet below grade, removal will not be required. Additionally, there is no recognizable benefit to removing these components. For these reasons, removal of the wind turbine grounding system is not part of this decommissioning plan.

4. Access Roads

4.1 Typical Access Road Construction Details

Based on preliminary data, a total of approximately 3,800 square yards of access road is included under this Project. The access road is approximately 1,700 feet long, 20 feet wide and 13 inches thick constructed of stone.

Typical access roads are constructed of a layer of geotechnical fabric and a final compacted course of gravel 13 inches in thickness. The actual details of construction have not been finalized at the time of this report and may be modified during final design of the Project.

4.2 Access Road Decommissioning

The decommissioning of the access road will involve the removal and transportation of the aggregate materials off site for separating the salvageable aggregate material. It is possible the local township may accept this material without processing for their use; however, for the purpose of this report, it is assumed that all materials will be removed and hauled to a reprocessing site within a 20-mile round-trip distance of the wind turbine. The decommissioning procedure will also include the removal and proper disposal of the geotextile fabric. It is assumed that a large amount of the

geotextile will be removed along with the aggregate and sorted at the off-site processing area to be disposed of in a nearby landfill. The estimate of access road decommissioning costs considers the current cost of hauling and excavation. The following unit price costs were used in the preparation of this estimate:

- Geotextile fabric removal (\$0.25 per square yard)
- Geotextile fabric disposal (\$150.00 per cubic yard)
- Gravel aggregate removal and hauling (\$17.90 per cubic yard)

The salvage value of the access road materials is based upon the following assumptions:

- 75 percent of the aggregate will be salvaged for reuse as aggregate base course gravel.
- Remaining material (25 percent) is suitable for general fill in non-structural fill areas.

Assuming the materials would be stockpiled at the process site and sold by the processor at a later date, the salvage values are as follows:

- Reprocessed aggregate to be used as base course (\$8.00 per cubic yard)
- Remaining aggregate and sand to be used as general fill (\$2.50 per cubic yard)

The only scenario that could offer a lesser cost to remove and salvage the aggregate would be disposal at a nearby site that needed inert fill. For the purposes of this estimate, no consideration has been given to this option since no suitable site has been identified for disposal of the material. The estimated costs for access road removal and disposal are presented in the Table 4.1.

Table 4.1 Access Road Decommissioning

Access Road Removal	Quantity	Unit Cost	Total Cost
Gravel Course Access and Utility Road Removed (CY)	1,385 CY	\$17.90 /CY	\$24,790
Geotextile Fabric Removal	3,800 SY	\$0.25/SY	\$950
Geotextile Fabric Disposal	3 CY ±	\$150.00/CY	\$450
Total			\$26,190
Use			\$26,200

Table 4.2 presents the estimated salvage values obtained from the removal (reclaimed) of aggregate materials.

Table 4.2 Aggregate Salvage Values Removed

Removed Aggregate Salvage Values	Quantity	Unit Salvage Value	Total Salvage Value
Gravel Aggregate Course (reused) (CY)	1,050 CY	\$8.00/CY	\$8,400
Aggregate (reprocessed as general fill) (CY)	335 CY	\$2.50/CY	\$838
Total			\$9,238
Use			\$9,300

5. Crane Pads

The crane pad will be constructed of gravel materials similar to the access road in the previous section and therefore, the quantities for decommissioning have been included above. All work for removal shall be conducted at the same time during decommissioning.

6. Overhead and Underground Electric

6.1 Wires and Poles Typical Installation

Power collection wires will be installed in a combination of underground and overhead on poles. Overhead will be removed during decommissioning, but because underground components are installed a minimum 4 feet below grade in agricultural areas, removal will not be required.

6.2 Overhead Wires and Poles Decommissioning

As a part of decommissioning of this project, all overhead wires will be removed and salvaged as necessary. Power poles will be cut off and removed off site for disposal or potential salvage during decommissioning of the project. For the purposes of this report, associated wire salvage values have not been included as they are negligible, and no salvage value was included for removed poles. The labor and equipment cost for the removal of poles and wires is estimated at \$5,000.

7. Earthwork and Topsoil Restoration

Once all the aboveground improvements and access roads are removed, the remaining work to complete the decommissioning of the site will consist of backfilling and grading the disturbed areas including the turbine foundation site and access roads. It is assumed that some existing materials and topsoil will be available at the site and reused on the site for restoration. It is estimated that approximately 1,350 cubic yards of material will be imported from off-site sources to supplement the fill available on the site for final site restoration. The estimated decommissioning cost for earthwork restoration is presented in Table 7.1.

Table 7.1 Earthwork and Topsoil Restoration

Description	Quantity (CY)	Cost (per CY)	Total Cost
Earthwork Fill Materials	1,350	\$13	\$17,550
Topsoil Materials	250	\$18	\$4,500
Total			\$22,050
Use			\$22,100

8. Summary of Decommissioning Costs

This estimate was developed using the various cost resources listed below:

- R.S. Means
- GHD historical data
- Vendor quotes (where applicable)
- Current/historic commodity prices
- Estimator judgment

The following is a summary of the total cost of decommissioning the turbine:

Decommissioning Costs – 1 Each Vestas Model V150, 4.3 MW Wind Turbine	
Turbine Removal (included removal/disposal of POL in nacelle)	\$117,700
Turbine Foundation Removal	\$34,500
Access Road Removal	\$26,200
Electrical Removal	\$5,000
Earthwork and Topsoil Restoration	\$22,100
Total Decommissioning Costs	\$205,500
Salvage Value – Wind Turbine	
Steel Salvage Value	\$100,350
Copper Salvage Value	\$85,000
Aluminum Salvage Value	\$130
Aggregate Salvage Value	\$9,300
Total Salvage Value	(\$194,780)
Salvage Value Net Decommissioning Costs	
Total Value	\$10,720
Value per Turbine Use	\$11,000



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