

Inspection Report for North Sturbridge Road Solar Facility

NPDES ID No.: MAR10031G

Inspection Date: 07/28/2021

General Information					
Weather conditions during inspection	72* F, Partly Cloudy	Inspection start time	4:40 PM	Inspection end time	5:05 PM
Inspector Name, Title & Contact Information	Jonathan Niro, Environmental Scientist (BETA Group, Inc.) jniro@beta-inc.com (774)-573-9694				
Present Phase of Construction	Phase 1. NOTE: The access road and stabilized construction entrance has been established pursuant to the Phase 1 scope of work. However, the entirety of the Site has been cleared of trees. No grubbing/stumping has occurred other than that required to establish the Site entrance access road.				
Inspection Location	North Sturbridge Road Solar Facility – Entirety of Site (0 North Sturbridge Road, Charlton, MA 01507)				
Inspection Frequency <i>(Note: you may be subject to different inspection frequencies in different areas of the site. Check all that apply)</i>					
Standard Frequency:					
<input type="checkbox"/> Every 7 days					
<input checked="" type="checkbox"/> Every 14 days and within 24 hours of a 0.25" rain or the occurrence of runoff from snowmelt sufficient to cause a discharge					
Increased Frequency:					
<input type="checkbox"/> Every 7 days and within 24 hours of a 0.25" rain (for areas of sites discharging to sediment or nutrient-impaired waters or to waters designated as Tier 2, Tier 2.5, or Tier 3)					
Reduced Frequency:					
<input type="checkbox"/> Twice during first month, no more than 14 calendar days apart; then once per month after first month; (for stabilized areas)					
<input type="checkbox"/> Twice during first month, no more than 14 calendar days apart; then once more within 24 hours of a 0.25" rain (for stabilized areas on "linear construction sites")					
<input type="checkbox"/> Once per month and within 24 hours of a 0.25" rain (for arid, semi-arid, or drought-stricken areas during seasonally dry periods or during drought)					
<input type="checkbox"/> Once per month (for frozen conditions where earth-disturbing activities are being conducted)					
Was this inspection triggered by a 0.25" storm event? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
If yes, how did you determined whether a 0.25" storm event has occurred?					
<input type="checkbox"/> Rain gauge on site <input checked="" type="checkbox"/> Weather station representative of site. Specify weather station source: WORNWS (Worcester)					
Total rainfall amount that triggered the inspection (inches): 0.49"					
Was this inspection triggered by the occurrence of runoff from snowmelt sufficient to cause a discharge? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					

Unsafe Conditions for Inspection

Did you determine that any portion of your site was unsafe for inspection per CGP Part 4.1.5? Yes No

If "yes", complete the following:

- Describe the conditions that prevented you from conducting the inspection in this location: **N/A**
- Location where conditions were found: **N/A**

Condition and Effectiveness of Erosion and Sediment (E&S) Controls (CGP Part 2.2)

Type/Location of E&S Control [insert additional rows if applicable]	Maintenance Needed?*	Corrective Action Required?*	Date on Which Maintenance or Corrective Action First Identified?	Notes
1. Silt Fence and Straw Wattles	Yes	Yes	7/22/2021	An erosion control breach was observed along the northern erosion control line, at the western corner of Phase 1. Approximately 10' of straw wattles were upheaved and siltation fencing was damaged. Stormwater and sediment were discharged through apparent erosion channels from the Site to a point approximately 50' upgradient of a Vegetated Wetland. In addition, siltation fencing is in need of staples at a number of locations throughout the Site. Discharge has not encroached closer to the Vegetated Wetland since the 7/22/2021 inspection.
2. Stabilized Construction Entrance (Site Entrance – Access Road)	Yes	Yes	7/22/2021	Ruts have formed within the construction track out pad at the entrance to the Site and should be smoothed out.
3. Stump and Soil Stockpile Area	Yes	Yes	7/22/2021	The portion of the access road in the vicinity of the north side of the soil stockpile area is in need of stabilization while there is a cessation of work at the Site. Uncontrolled runoff from this access road likely contributed to the issue raised in Item #1.
4. Dust Controls	N/A	N/A		
5. Jute Mesh (Steep Slopes)	N/A	N/A		
6. Temporary Seeding	N/A	N/A		
7. Topsoil Re-Use	N/A	N/A		
8. Storm Drain Inlets (North Brookfield Road)	N/A	N/A		

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9. Temporary Drainage Swales (Throughout Site)	N/A	N/A		
10. Temporary Sediment Basins (Throughout Site)	N/A	N/A		

Condition and Effectiveness of Pollution Prevention (P2) Practices (CGP Part 2.3)				
Type/Location of P2 Practices [insert additional rows if applicable]	Maintenance Needed?*	Corrective Action Required?*	Date on Which Maintenance or Corrective Action First Identified?	Notes
1. Equipment Refueling Staging Area	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	[Enter date]	
2. Hydraulic Lines Staging/Work Areas	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	[Enter date]	
3. Equipment Maintenance Staging Area	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	[Enter date]	
4. Sanitary Toilets Staging Area	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	[Enter date]	
5. Vehicle Accident Entire Site	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	[Enter date]	
6. Dumpsters Staging Area	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	[Enter date]	
7. Solar Panel Installation Staging/Work Areas	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	[Enter date]	
8. Concrete Washout	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	[Enter date]	

*** Note:** The permit differentiates between conditions requiring routine maintenance, and those requiring corrective action. The permit requires maintenance in order to keep controls in effective operating condition. Corrective actions are triggered only for specific conditions, which include: 1) A stormwater control needs repair or replacement (beyond routine maintenance) if it is not operating as intended; 2) A stormwater control necessary to comply with the permit was never installed or was installed incorrectly; 3) You become aware that the stormwater controls you have installed and are maintaining are not effective enough for the discharge to meet applicable water quality standards or applicable requirements in Part 3.1; 4) One of the prohibited discharges in Part 1.3 is occurring or has occurred; or 5) EPA requires corrective actions as a result of a permit violation found during an inspection carried out under Part 4.8. If a condition on your site requires a corrective action, you must also fill out a corrective action form found at <https://www.epa.gov/npdes/stormwater-discharges-construction-activities#resources>. See Part 5 of the permit for more information.

Stabilization of Exposed Soil (CGP Part 2.2.14)

Stabilization Area [insert additional rows if applicable]	Stabilization Method	Have You Initiated Stabilization?	Notes
1. Access road leading to stockpile area	Straw mulch or hydroseed	<input checked="" type="checkbox"/> Yes [Enter date] <input type="checkbox"/> No	The access road leading to the stockpile area is in need of stabilization if there is a cessation of work at the Site. The access road is contributing stormwater discharge to an area where erosion controls were breached. The contractor indicated that stabilization by smoothing out soils and seeding or spreading mulch would occur on 7/30/2021.
2. Access road along northern portion of the Site	Straw mulch or hydroseed	<input checked="" type="checkbox"/> Yes [Enter date] <input type="checkbox"/> No	The informal access road along the northern portion of the Site is in need of stabilization if there is a cessation of work at the Site. Erosion gullies are beginning to form upgradient of this access road. Erosion is currently confined to the limits of work. The contractor indicated that stabilization by smoothing out soils and seeding or spreading mulch would occur on 7/30/2021.

Description of Discharges (CGP Part 4.6.6)

Was a stormwater discharge or other discharge occurring from any part of your site at the time of the inspection? Yes No

If "yes", provide the following information for each point of discharge:

Discharge Location [insert additional discharge locations if applicable]	Observations
1. Northern erosion control line, at the western corner of Phase 1	<p>Describe the discharge: Sediment-laden stormwater discharge due to an erosion control breach.</p> <p>At points of discharge and the channels and banks of surface waters in the immediate vicinity, are there any visible signs of erosion and/or sediment accumulation that can be attributed to your discharge? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If yes, describe what you see, specify the location(s) where these conditions were found, and indicate whether modification, maintenance, or corrective action is needed to resolve the issue: Approximately 10' of straw wattles were upheaved and siltation fencing was damaged. Stormwater and sediment were discharged through apparent erosion channels from the Site to a point approximately 50' upgradient of a Vegetated Wetland. All erosion channels outside of the limits of work should be stabilized with a native seed mix and all sediment should be properly disposed of using hand methods. The straw wattles and siltation fencing should be replaced/reset. In addition, it is recommended that a length of 18" diameter compost filter tube (or 2 rows of 12" compost filter tube) be installed at the location of the breach due to the likelihood of this area receiving significant stormwater runoff. Once this corrective action is implemented, it will be monitored for efficacy.</p>

This issue was originally observed on 7/22/2021. Discharge has not encroached closer to the Vegetated Wetland than what was observed at the 7/22/2021 inspection. The contractor is beginning erosion control repairs, hand-removal of sediment, and stabilization of erosion outside of the limits of work on 7/30/2021.

Contractor or Subcontractor Signature and Certification


"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature of Contractor or Subcontractor: _____ Date: _____

Printed Name and Affiliation: _____

Operator Signature and Certification

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature of Operator or "Duly Authorized Representative": _____  _____ Date: 7/28/2021

Printed Name and Affiliation: Jonathan Niro (BETA Group, Inc.) _____

Photo 1



View of the stabilized construction entrance—facing west.

Photo 2



View of the erosion control breach—facing northwest.

PHOTOGRAPHIC DOCUMENTATION

North Sturbridge Road Solar Facility

Charlton, Massachusetts

Photographs Documented 07.28.2021

Photo 3



View erosion gullies beginning to form upgradient of the informal northern access road—facing northwest.

Photo 4



View of erosion within the access road to the north of the stockpile area—facing north.

PHOTOGRAPHIC DOCUMENTATION

North Sturbridge Road Solar Facility

Charlton, Massachusetts

Photographs Documented 07.28.2021