

Site Inspection Documentation Form
Lake Delavan Highlands Association (LDHA) – South Inlet Channel
Town of Delavan, Wisconsin

| | | | |
|------------------------|--|-------------------------|-----------------------------|
| Inspector Name: | <u>Brian Valleskey</u> | Inspection Date: | <u>6/6/2022</u> |
| Company Name: | <u>Geosyntec Consultants</u> | Weather: | <u>Overcast, 71 degrees</u> |
| Address: | <u>10600 N. Port</u> <u>Washington Rd #100</u> <u>Mequon, WI 53092</u> | Time: | <u>11:30AM</u> |
| Phone Number: | <u>(262) 377-9828</u> | | |

A. General: Contractor not on site. One small backhoe on site with miscellaneous implements. Sawcutting performed at various planned locations on North and South Channel Drive at Poplar and Central Blvd. Various site clearing and vegetative removal performed along South Channel Drive south and along both inlet embankments.

B. Soil Erosion & Sediment Control (SESC): Site SESC measures are generally lacking and not in conformance with plans and specifications (see attached photo log).

- Plans and specifications dictate that all site erosion control measures need to be installed properly and functioning prior to site disturbance.
- Perimeter control is either absent or installed improperly.
- Incorrect staking pattern on wattles
- Placed wattles are generally located atop stone rather than in contact with soil.
- Place wattles are not secured (trenched) per the detail
- No silt fence was located per the plan
- Sediment tracked atop roadways and onto private drives

The contractor was called on 6/7/2022 as a courtesy to bring site into compliance. Voice mail was left.

GEOSYNTEC CONSULTANTS
Photographic Record



Client: Lake Delavan Highlands Association (LDHA)

Project Number: MOW5540

Site Name: LDHA Inlet Channel

Site Location: LDHA Inlet Channel

Photograph 1

Date: 6 June 2022

Direction: W

Comments:



Perimeter control lacking or nonexistent. All SESC measures are to be installed prior to the commencement of construction per the plans.

Photograph 2

Date: 6 June 2022

Direction: S

Comments:



No perimeter controls

Photograph 3

Date: 6 June 2022

Direction: SW

Comments:



Perimeter controls not installed atop rock and not in contact with soil or at grade

Photograph 4

Date: 6 June 2022

Direction: E

Comments:



North embankment – North Channel Drive with no perimeter controls

Photograph
5

Date: 6
June 2022

Direction:
E

Comments:



North Channel Drive – sediment tracking on roads

Photograph
6

Date: 6
June 2022

Direction:
W

Comments:



Sawcut asphalt

Photograph
7

Date: 26
June 2002

Direction:
E

Comments
:



Apparent topsoil placement with no perimeter control or cover

Photograph
8

Date: 26
June 2020

Direction:
N

Comments
:



Placed perimeter control atop stone and improperly staked

Site Inspection Documentation Form
Lake Delavan Highlands Association (LDHA) – South Inlet Channel
Town of Delavan, Wisconsin

| | | | |
|------------------------|--|-------------------------|---------------------------------|
| Inspector Name: | <u>Brian Valleskey</u> | Inspection Date: | <u>6/21/2022</u> |
| Company Name: | <u>Geosyntec Consultants</u> | Weather: | <u>Mostly Sunny, 72 degrees</u> |
| Address: | <u>10600 N. Port</u> <u>Washington Rd #100</u> <u>Mequon, WI 53092</u> | Time: | <u>6:30AM</u> |
| Phone Number: | <u>(262) 377-9828</u> | | |

- A. General:** Contractor not on site. No machinery on site. Replacement drainpipe and end sections located along western ditch line of Poplar Road. Reinforced mesh and soil nails appear to have been installed. Slope SESC measures have been installed and cover crop has begun to emerge below the temporary blanket.
- B. Soil Erosion & Sediment Control (SESC):** SESC perimeter controls still generally lacking. Improper staking pattern and location as control remain atop stone. Amount of stone removed along embankment appears inconsistent. The threat of sediment erosion issues is somewhat lessened with the placement of slope SESC blanket and emerging grasses.

Appropriate cover still needed atop the reinforced mesh. This is assumed to be ongoing to finalize the slope stabilization.

GEOSYNTEC CONSULTANTS
Photographic Record



Client: Lake Delavan Highlands Association (LDHA)

Project Number: MOW5540

Site Name: LDHA Inlet Channel

Site Location: LDHA Inlet Channel

Photograph 1

Date: 21 June 2022

Direction: W

Comments:



Slope stabilized with temporary contact blanket and cover crop emerging. Perimeter control still lacking.

Photograph 2

Date: 21 June 2022

Direction: S

Comments:



Variable bank clearing, contact blanket in place.

Photograph 3

Date: 21 June 2022

Direction: SW

Comments:



Transition area from standard slope grade to reinforced mesh and soil nails in southwest corner of inlet channel.

Photograph
4

Date: 21
June 2022

Direction:
E

Comments:



Inlet channel view east

Photograph
5

Date: 21
June 2022

Direction:
S

Comments
:



Replacement pipe and end sections along Poplar Drive

Photograph
6

Date: 21
June 2022

Direction:
E

Comments
:



Close up of reinforced mesh and soil nails

Photograph
7

Date: 21
June 2002

Direction:
N

Comments:



Stormwater inlet/ditch check SESC controls in place at Mulberry

Photograph
8

Date: 21
June 2020

Direction:
E

Comments:



Temporary Erosion control blanket

Site Inspection Documentation Form
Lake Delavan Highlands Association (LDHA) – South Inlet Channel
Town of Delavan, Wisconsin

| | | | |
|------------------------|--|-------------------------|--|
| Inspector Name: | <u>Brian Valleskey</u> | Inspection Date: | <u>7/11/2022, 7/12/2022</u> |
| Company Name: | <u>Geosyntec Consultants</u> | Weather: | <u>Mostly Sunny, 72 degrees</u> |
| Address: | <u>10600 N. Port</u> <u>Washington Rd #100</u> <u>Mequon, WI 53092</u> | Time: | <u>10:30AM (7/11), 5:30AM</u> <u>(7/12)</u> |
| Phone Number: | <u>(262) 377-9828</u> | | |

Geosyntec visited the site on 7/11/22 and 7/12/22. On 7/11 heavy construction traffic was on site with multiple machines preparing the road foundation. Additionally, contractor was on site with water truck irrigating cover vegetation along the channel embankment. On 7/12 no construction activity or staff was observed on site.

- A. General: Contractor has made significant progress on slope stabilization and drainage improvements.
- B. Soil Erosion & Sediment Control (SESC): SESC perimeter controls still do not generally follow the details or specifications on the drawings, however, substantial cover vegetation has been established.
- C. Both cross culverts located at the intersection of South Channel Drive and Mulberry Ave are considerably blocked by sediment and unmaintained perimeter control. Both cross culverts would be significantly hampered with conveyance limitations during rain events.
- D. The eastern culvert located at the intersection of South Channel Drive and Mulberry Ave measured 12” diameter rather than the 15” diameter culvert indicated on the plans.
- E. All culvert material appears to be HDPE rather than Corrugated Metal Pipe (CMP) culverts on the plans. This should be acceptable.
- F. In speaking with the resident of 3902 North Channel Drive there was a concern that the contractor was to sawcut the concrete driveway to grade with newly laid asphalt. The cut was jagged and not flush or “clean”.
- G. Several of the cross culverts should be cleaned and void of sediment.
- H. New storm structures had already gathered significant sediment and should be cleaned out.
- I. No transition riprap has been placed on the upstream end of the western cross culvert at the intersection of South Channel Drive and Mulberry Ave.

GEOSYNTEC CONSULTANTS
Photographic Record



Client: Lake Delavan Highlands Association (LDHA)

Project Number: MOW5540

Site Name: LDHA Inlet Channel

Site Location: LDHA Inlet Channel

Photograph 1

Date: 12 July 2022

Direction: W

Comments:



Cover vegetation taking shape

Photograph 2

Date: 12 July 2022

Direction: S

Comments:



Cover vegetation along South Channel Drive

Photograph 3

Date: 12 July 2022

Direction: SW

Comments:



Blanket and cover over reinforced mesh area. Cover vegetation beginning to establish

Photograph
4

Date: 12
July 2022

Direction: E

Comments:



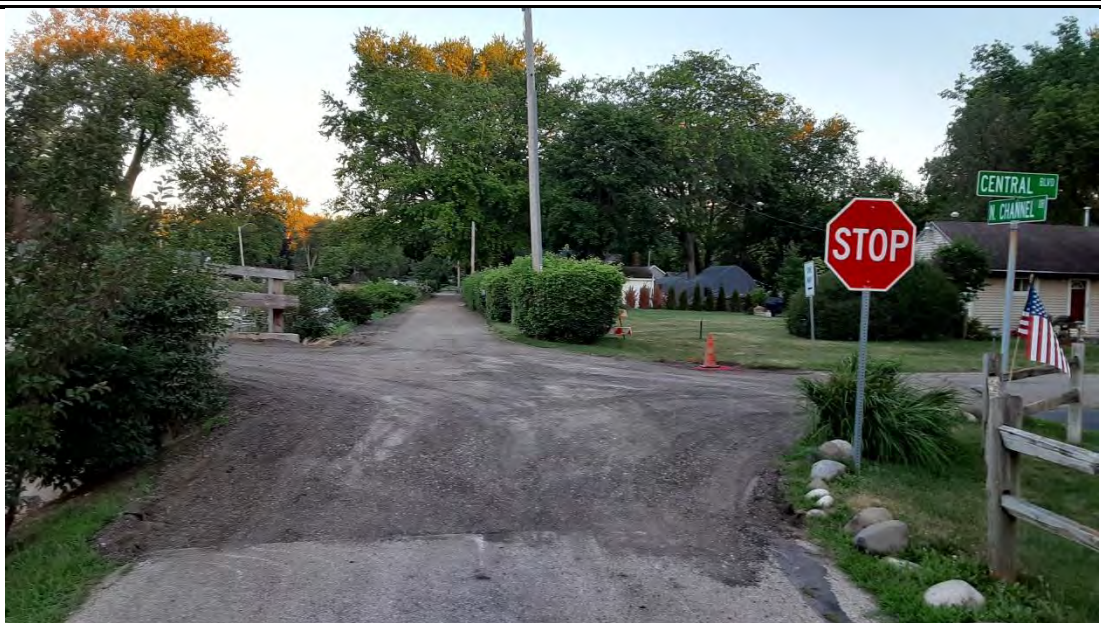
Inlet channel view east

Photograph
5

Date: 12
July 2022

Direction:
N

Comments:



Typical view of road base foundation prepped for paving

Photograph
6

Date: 12
July 2022

Direction:
E

Comments:



Closeup of a reinforced section, covered for vegetation establishment

Photograph
7

Date: 12
July 2022

Direction:
N

Comments:



Replaced pipe section beneath South Channel Drive. SESC measures need addressing.
See comment C on Site Inspection 7/11, 7/12

Photograph 8

Date: 12 July 2022

Direction: NA

Comments:



Newly installed pipe end section, sediment should be cleaned out, see comment G on Site Inspection 7/11, 7/12.

Site Inspection Documentation Form
Lake Delavan Highlands Association (LDHA) – South Inlet Channel
Town of Delavan, Wisconsin

| | | | |
|------------------------|--|-------------------------|---------------------------------|
| Inspector Name: | <u>Brian Valleskey</u> | Inspection Date: | <u>7/26/2022</u> |
| Company Name: | <u>Geosyntec Consultants</u> | Weather: | <u>Mostly Sunny, 66 degrees</u> |
| Address: | <u>10600 N. Port Washington Rd #100 Mequon, WI 53092</u> | Time: | <u>6:30AM</u> |
| Phone Number: | <u>(262) 377-9828</u> | | |

Geosyntec visited the site on 7/26/2022. No construction activity or staff was observed on site. Paving appears to be at or near completion. Cover vegetation has sufficient coverage to begin conversion to native plantings. Drainage features along the south side of S Channel Drive need to be completed.

- A. General: Contractor has made significant progress on slope stabilization and drainage improvements.
- B. Soil Erosion & Sediment Control (SESC): SESC perimeter controls should be corrected as per previous reports and remain in place through native vegetation establishment.
- C. Both cross culverts located at the intersection of South Channel Drive and Mulberry Ave continue to be an issue. Contractor should address as they are an impediment to flow and have potential to clog.
- D. No transition riprap has been placed on the upstream end of the western cross culvert at the intersection of South Channel Drive and Mulberry Ave.
- E. Paving appears sufficient however the contractor should make an effort to clean up the work area. Sediment laden roads can wash into the channel. The placed transitional soil along N Channel Drive along the shoulder should be seeded and blanketed. It is unclear to Geosyntec if this was a negotiated item between LDHA and the contractor. As noted the transitional soil is currently in a position to wash into the channel.
- F. Drainage structures and conveyance features along the south side of S Channel Drive should be brought to completion and stabilized with seed and blanket.
- G. The placement of the asphalt swale to the inlet structure appears misaligned. LDHA should also observe during rainfall to confirm runoff enters the structure as designed.
- H. Once the contractor places the native vegetation, all seed and plug tag information should be collected and routed to the Town of Delavan to verify for grant reimbursement.

GEOSYNTEC CONSULTANTS
Photographic Record



Client: Lake Delavan Highlands Association (LDHA)

Project Number: MOW5540

Site Name: LDHA Inlet Channel

Site Location: LDHA Inlet Channel

Photograph 1

Date: 26 July 2022

Direction: W

Comments:



Cover vegetation in place, section stabilized

Photograph 2

Date: 26 July 2022

Direction: S

Comments:



Cover vegetation along South Channel Drive, installed culverts, cover vegetation sufficient

Photograph 3

Date: 26 July 2022

Direction: SW

Comments:



Blanket and cover over reinforced mesh area. Continue to monitor establishment of vegetation.

Photograph
4

Date: 26
July 2022

Direction: E

Comments:



Inlet channel view east, continue to monitor vegetative growth in shaded zones

Photograph
5

Date: 26
July 2022

Direction:
N

Comments:



Road paving completed, typical connection at N Channel Drive and bridge at Central Blvd

Photograph
6

Date: 26
July 2022

Direction:
E

Comments:



Closeup of a reinforced section, continue to monitor vegetation

Photograph
7

Date: 26
July 2022

Direction:
N

Comments
:



Culverts at Mulberry and S Channel Drive. SESC measures need to be maintained to ensure culverts do not clog. Current measures are not secured.

Photograph
8

Date: 26
July 2022

Direction:
W, NW

Comments
:



Roads are laden with dusty sediment. The roads should be cleaned to avoid runoff directly into channel

Photograph
9

Date: 26
July 2022

Direction:
W

Comments
:



Apparent grade transition soil should be stabilized with seed and blanket.