



Baboosic Lake Association

Amherst & Merrimack NH

Baboosic Lake Storm water Improvement Project

Photo Documentation

Prepared by Greg Gendron, Baboosic Lake Assoc.

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Site #5 upper, Greenwood Road, Recommendations:

- Install riprap armoring to slow runoff from running down the paved section of roadway directly into catch basin or down the gravel roadway.
- Install plunge pool prior to catch basins to store runoff and settle out TSS and nutrients prior to discharge into the drainage swale and lake.

Site #5 upper, pre-construction:



Photo 1, site #5 prior to construction, taken by CEI

Site #5 upper, plunge pool construction:



Photos 2-5: site #5 upper- riprap plunge pool during construction, taken by CEI.

Site #5, post-construction of the riprap plunge pool



Photo 6: site #5 upper riprap plunge pool post construction, taken by CEI.

Site #5 lower, Greenwood Road, Recommendations:

- **Install riprap armoring to slow runoff from running down the gravel roadway and to prevent scour of the drainage ditch.**

Site #5 lower, pre-construction:



Photo 7, site #5 lower prior to construction, taken by CEI

Site #5 lower, riprap swale construction:



Photos 8-11: site #5 riprap swale during construction, taken by CEI.

Site #5 lower, post-construction of the riprap swale



Photo 12: site #5 lower riprap swale post construction, taken by CEI.

Site #6, Lakeside Road, Recommendations:

- **Remove existing paved area around catch basin.**
- **Install riprap armoring to slow runoff and groundwater from running down the steep slope and over the gravel roadway.**
- **Install vegetation and swale to stabilize area and treat runoff for TSS and nutrients prior to discharge into drainage system that discharges into the lake.**

Site #6, pre-construction:



Photo 13, site #6 prior to construction, taken by CEI

Site #6 pavement removal, re-vegetation construction:



Photos 14-15: site #6 re-vegetation and swale during construction, taken by CEI.

Site #6, post-construction of the re-vegetated parking area and swale



Photo 16: site #6 post construction, taken by CEI.

Site #7, Jebb Road, Recommendations:

- **Install plunge pool prior to outfall pipes and roadway culverts to store runoff and settle out TSS and nutrients prior to discharge into the lake.**
- **Stabilize headwall and roadway shoulder to prevent erosion**

Site #7, pre-construction:



Photo 17, site #7 prior to construction, taken by CEI

Site #7, plunge pool construction:





Photos 18-23: site #7- plunge pool during construction, taken by CEI.

Site #7, post-construction of the plunge pool



Photo 24: site #7 riprap plunge pool post construction, taken by CEI.

Site #8, Lakeside Road, Recommendations:

- **Install crushed stone infiltration trench to promote infiltration of stormwater runoff from slopes adjacent to the gravel roadway**
- **Install riprap lined forebay to store runoff from the gravel roadway and settle out TSS prior to discharge into a raingarden.**
- **Install raingarden with subsurface crushed stone storage area to promote infiltration of stormwater**
- **Install mulch, filtering materials and plants in rain garden to remove nutrients and other pollutants prior to discharge into the lake**

Site #8, pre-construction:



Photo 25, site #8 prior to construction, taken by CEI

Site #8, rain garden construction:



Photos 26-29: site #8- rain garden during construction, taken by CEI.

Site #8, post-construction of the rain garden



Photo 30: site #8 riprap forebay and raingarden post construction, taken by CEI.

Site #10, N. Jebb Road, Recommendations:

- **Install riprap lined forebay to store runoff from the paved roadway and settle out TSS prior to discharge into a raingarden.**
- **Install raingarden with subsurface crushed stone storage area to promote infiltration of stormwater**
- **Install mulch, filtering materials and plants in rain garden to remove nutrients and other pollutants prior to discharge into the lake**

Site #10, pre-construction:



Photo 31, site #10 prior to construction, taken by Geosyntec

Site #10, rain garden construction:



Photos 32-37: site #10- rain garden during construction, taken by CEI.

Site #10, post-construction of the rain garden



Photo 38: site #10, riprap forebay and raingarden post construction, taken by CEI.

Site #10B, N. Jebb Road, Recommendations:

- **Install riprap lined forebay to store runoff from the paved roadway and settle out TSS prior to discharge into a raingarden.**
- **Install raingarden with subsurface crushed stone storage area to promote infiltration of stormwater**
- **Install mulch, filtering materials and plants in rain garden to remove nutrients and other pollutants prior to discharge into the lake**

Site #10B, pre-construction:



Photo 39, site #10B prior to construction, taken by CEI

Site #10B, rain garden construction:





Photos 40-45: site #10B- rain garden during construction, taken by CEI.

Site #10B, post-construction of the rain garden



Photo 46: site #10B, riprap forebay and raingarden post construction, taken by CEI.

Site #12, Lakeside Road, Recommendations:

- **Install riprap lined forebay to store runoff from the gravel roadway and settle out TSS prior to discharge into a vegetated swale.**
- **Install vegetated swale prior to catch basin and roadway culverts to store runoff and settle out TSS and nutrients prior to discharge into the lake.**
- **Stabilize roadway shoulder to prevent erosion**

Site #12, pre-construction:



Photo 47, site #12 prior to construction, taken by CEI

Site #12, vegetated swale construction:



Photos 48-49: site #12- vegetated swale during construction, taken by CEI.

Site #12, post-construction of the vegetated swale



Photo 50: site #12 vegetated swale post construction, taken by CEI.

Site #14A, Miriam Road, Recommendations:

- Install riprap lined plunge pool to store runoff from the gravel roadway and settle out TSS prior to discharge into a vegetated swale.
- Install vegetated swale with stone check dams to store runoff and settle out TSS and nutrients prior to discharge into the lake.
- Stabilize roadway shoulder to prevent erosion

Site #14A, pre-construction:



Photo 51, site #14A prior to construction, taken by CEI

Site #14A, plunge pool and vegetated swale construction:



Photos 52-55: site #14A- vegetated swale during construction, taken by CEI.

Site #14A, post-construction of the plunge pool and vegetated swale



Photo 56: site #14A vegetated swale post construction, taken by CEI.

Site #14B, Arnold Road, Recommendations:

- **Install riprap lined forebay to store runoff from the paved and gravel roadways and to settle out TSS prior to discharge into a raingarden.**
- **Install raingarden with subsurface crushed stone storage area to promote infiltration of stormwater**
- **Install mulch, filtering materials and plants in rain garden to remove nutrients and other pollutants prior to discharge into the lake**

Site #14B, pre-construction:



Photo 57, site #14B prior to construction, taken by CEI

Site #14B, rain garden construction:



Photos 58-59: site #14B- rain garden during construction, taken by CEI.

Site #14B, post-construction of the rain garden



Photo 60: site #14B, riprap forebay and raingarden post construction, taken by CEI.

Site #14C, Carter Road, Recommendations:

- **Install riprap lined forebay to store runoff from the paved roadway and to settle out TSS prior to discharge into a raingarden.**
- **Install raingarden with subsurface crushed stone storage area to promote infiltration of stormwater**
- **Install mulch, filtering materials and plants in rain garden to remove nutrients and other pollutants prior to discharge into the lake**

Site #14C, pre-construction:



Photo 61, site #14C prior to construction, taken by CEI

Site #14C, rain garden construction:



Photos 62-63: site #14C- rain garden during construction, taken by CEI.

Site #14C, post-construction of the rain garden



Photo 64: site #14C, riprap forebay & raingarden post construction, taken by CEI.

Site #16, Shore Road, Recommendations:

- **Install riprap lined forebay to store runoff from the paved roadway and to settle out TSS prior to discharge into a raingarden.**
- **Install raingarden with subsurface crushed stone storage area to promote infiltration of stormwater**
- **Install mulch, filtering materials and plants in rain garden to remove nutrients and other pollutants prior to discharge into the lake**

Site #16, pre-construction:



Photo 65, site #16 prior to construction, taken by CEI

Site #16, rain garden construction:



Photos 66-67: site #16- rain garden during construction, taken by CEI.

Site #16, post-construction of the rain garden



Photo 68: site #16, riprap forebay and raingarden post construction, taken by CEI.

Site #16A, Shore Road, Recommendations:

- **Install riprap lined forebay to store runoff from the paved roadway and to settle out TSS prior to discharge into a raingarden.**
- **Install raingarden with subsurface crushed stone storage area to promote infiltration of stormwater**
- **Install mulch, filtering materials and plants in rain garden to remove nutrients and other pollutants prior to discharge into the lake**

Site #16A, pre-construction:



Photo 69, site #16A prior to construction, taken by CEI

Site #16A, rain garden construction:



Photos 70-71: site #16A- rain garden during construction, taken by CEI.

Site #16A, post-construction of the rain garden



Photo 72: site #16A, raingarden post construction, taken by CEI.

Site #16B, Longa Road, Recommendations:

- **Install plunge pool prior to outfall pipes and roadway culverts to store runoff and settle out TSS and nutrients prior to discharge into the lake.**

Site #16B, pre-construction:



Photo 73, site #16B prior to construction, taken by CEI

Site #16B, plunge pool construction:



Photos 74-75: site #16B - plunge pool during construction, taken by CEI.

Site #16B, post-construction of the plunge pool



Photo 76: site #16B riprap plunge pool post construction, taken by CEI.