

Reed & Reed, Inc.

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Letter of Transmittal

To: Jessica Bouchard
NHDES - Water Division
PO Box 95
29 Hazen Drive
Concord, NH 03302
Ph: 603-271-3501 Fax: 603-271-6683

Transmittal #: 102
Date: 7/2/2019
Job: 532 Antrim Wind Project

Subject: Antrim Box Culvert Remediation - Spring Monitoring Report

- WE ARE SENDING YOU**
- | | |
|--|---|
| <input checked="" type="checkbox"/> Attached | <input type="checkbox"/> Under separate cover via None the following items: |
| <input type="checkbox"/> Shop drawings | <input type="checkbox"/> Prints |
| <input type="checkbox"/> Copy of letter | <input type="checkbox"/> Change order |
| | <input type="checkbox"/> Plans |
| | <input type="checkbox"/> Samples |
| | <input type="checkbox"/> Specifications |
| | <input type="checkbox"/> Other |

Document Type	Copies	Date	No.	Description
	0	7/2/19		Box Culvert Spring Monitoring Report

THESE ARE TRANSMITTED as checked below:

- | | | |
|--|---|---|
| <input type="checkbox"/> For approval | <input type="checkbox"/> Approved as submitted | <input type="checkbox"/> Resubmit ___ copies for approval |
| <input checked="" type="checkbox"/> For your use | <input type="checkbox"/> Approved as noted | <input type="checkbox"/> Submit ___ copies for distribution |
| <input type="checkbox"/> As requested | <input type="checkbox"/> Returned for corrections | <input type="checkbox"/> Return ___ corrected prints |
| <input type="checkbox"/> For review and comment | <input type="checkbox"/> Other | |
| <input type="checkbox"/> FOR BIDS DUE | <input type="checkbox"/> PRINTS RETURNED AFTER LOAN TO US | |

Remarks:

Copy To: Jeff Nelson (TransAlta)

From: Dustin Littlefield (Reed & Reed, Inc.)

Signature: _____

Antrim NH Wind

Spring 2019 Monitoring of SD-4 Box Culvert

Updated 6/28/2019

In follow-up to the restoration of the streambed at SD-4 box culvert, DES requested monitoring throughout the Spring of 2019. In addition to the 3rd Party SWPPP Inspections conducted for the whole site which encompassed the box culvert, Sargent Corporation specifically monitored the box culvert, documenting its condition and stability with weekly photos and comments. The box culvert performed well, and the streambed has returned to a natural appearance. Photos and comments from the Spring 2019 monitoring are below.

March 15, 2019:

Tim Blais: Snow covered, no visible flow but can hear water running.



Antrim NH Wind

Spring 2019 Monitoring of SD-4 Box Culvert

Updated 6/28/2019

March 20, 2019

Tim Blais: No changes this week. Can here water running under ice and snow. Water visible in stream 50' downstream from bridge in the woods. Water flowing in stream bed is clear.



Antrim NH Wind

Spring 2019 Monitoring of SD-4 Box Culvert

Updated 6/28/2019

March 27, 2019

Mark Wright: water is clear.



April 2, 2019:

Mark Wright: Water is clear, still frozen under bridge.



Antrim NH Wind

Spring 2019 Monitoring of SD-4 Box Culvert

Updated 6/28/2019

April 10, 2019:

Mark Wright: Water running clear. Lower third of bridge still frozen.



April 16, 2019:

Mark Wright: Water clear. Ice almost gone. No scour.



April 23, 2019:



April 25, 2019:



May 1, 2019:

Mark Wright: Stream bed looks natural.



May 7, 2019:



Antrim NH Wind

Spring 2019 Monitoring of SD-4 Box Culvert

Updated 6/28/2019

May 14, 2019:

Mark Wright: Water is running clear. Stream looking natural after 1/2-inch rainstorm.



May 20, 2019:

Mark Wright: Bridge 4 is stable.



Antrim NH Wind

Spring 2019 Monitoring of SD-4 Box Culvert

Updated 6/28/2019

May 28, 2019:

Mark Wright: The grass is starting to grow.



June 6, 2019:

Mark Wright: Almost 2 inches of rain overnight.



Antrim NH Wind

Spring 2019 Monitoring of SD-4 Box Culvert

Updated 6/28/2019

June 25, 2019:

Interior photos



Next pages:

Supplemental actions undertaken June 27, 2019 in response to comments by DES in e-mail of June 24, 2019.

PROJECT:	Antrim Wind Park	DATE:	6-27-19
JOB NO:	37403	WEATHER:	Sunny
CLIENT:	Reed & Reed	TEMPERATURE:	80°F
CONTRACTOR:	Sargent Corporation	WIND:	5mph
PROJ. MANAGER:	Kevin Burns	PRECIPITATION:	

CONSTRUCTION REPORT

GENERAL CONTRACTOR PRESENT

Name of Contractor	Personnel
<input checked="" type="checkbox"/> Reed & Reed	

SUBCONTRACTORS PRESENT

Time	Name / Representing	Remarks
×	Mark Wright, Sargent Corp.	

Q.A. FIELD PERSONNEL PRESENT

Name / Representing	Remarks
<input checked="" type="checkbox"/> Jason Millett, Sargent Corporation.	

REGULATORY AGENCY PERSONNEL

Time	Name / Representing	Remarks

CONSTRUCTION ACTIVITIES:

- Sargent Corporation conducted the following:
- Cleaned up gravel from above the headwalls
 - Pulled back slopes above headwall and stabilized to prevent gravel or any material from falling into stream
 - Added large boulders to stabilize road and slope on outlet side above the headwall to avoid any future issues
 - Removed stump grindings from headwall and outlet slope to ensure none fall into stream

**ANTRIM WIND PROJECT
ANTRIM, NEW HAMPSHIRE**



Photo No. 1

Photo Date:
June 27, 2019

Site Location:
Box Culvert Inlet,
Antrim Wind
Park, NH

Description:
Cleaned up loose
gravel and
compacted along
headwall/deck of
box culvert.

Photo By:
JMM



Photo No. 2

Photo Date:
June 27, 2019

Site Location:
Box Culvert Inlet,
Antrim Wind
Park, NH

Description: Pulled
back top of slope
and filled in voids
around boulders
with smaller rip rap
to avoid any
erosion.

Photo By:
JMM

**ANTRIM WIND PROJECT
ANTRIM, NEW HAMPSHIRE**



Photo No. 3

Photo Date:
June 27, 2019

Site Location:
Box Culvert
Outlet, Antrim
Wind Park, NH

Description: Placed
large boulders to
stabilize slope and
roadway and pulled
top of slope back
above headwall and
compacted gravel
and smaller rip rap.

Photo By:
JMM



Photo No. 4

Photo Date:
June 27, 2019

Site Location:
Box Culvert
Outlet, Antrim
Wind Park, NH

Description:
Cleaned up stump
grindings and lose
material above
headwall and slope
around boulders
that had potential of
falling into stream

Photo By:
JMM





