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ADDENDUM 1

Volume Calculation Package Addendum

Beech and Bonaparte

engineering p.c.

an affiliate of Geosyntec Consultants

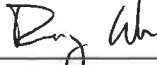
CALCULATION PACKAGE COVER SHEET

Client: Honeywell **Project:** Onondaga Lake SCA Final Cover Design **Project/Proposal #:** GD5497


TITLE OF COMPUTATIONS

VOLUME CALCULATION PACKAGE ADDENDUM


COMPUTATIONS BY:

	Signature 	02/26/16
	Printed Name and Title Ray Wu Senior Staff Engineer	DATE

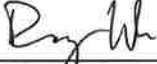
ASSUMPTIONS AND PROCEDURES CHECKED BY:

	Signature 	02/26/16
	Printed Name and Title Sowmya Bulusu, P.E. Senior Engineer	DATE



COMPUTATIONS CHECKED BY:

	Signature 	02/26/16
	Printed Name and Title Sowmya Bulusu, P.E. Senior Engineer	DATE

COMPUTATIONS BACKCHECKED BY:

	Signature 	02/26/16
	Printed Name and Title Ray Wu Senior Staff Engineer	DATE

APPROVED BY:

	Signature 	05/04/16
	Printed Name and Title Jay Beech, Ph.D., P.E. Senior Principal 	DATE



APPROVAL NOTES:

REVISIONS (Number and initial all revisions)

NO.	SHEET	DATE	BY	CHECKED BY	APPROVAL
_____	_____	_____	_____	_____	_____
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Written by: Ray Wu Date: 02/26/2016 Reviewed by: Sowmya Bulusu / Jay Beech Date: 02/26/2016

Client: **Honeywell** Project: **Onondaga Lake SCA Final Cover Design** Project/ Proposal No.: **GD5497** Task No.: **03**

VOLUME CALCULATION PACKAGE ADDENDUM

The purpose of this addendum is to update the proposed SCA final cover system originally presented in the NYSDEC approved calculation package titled “*Volume Calculations for SCA Final Cover Design*” [Beech and Bonaparte, 2015], referred to herein as the Volume Package.

The Volume Package had indicated that the geocomposite drainage layer would only be used on the side slopes of the main deck. This addendum clarifies that the geocomposite drainage layer will be installed over the entire SCA cover area (i.e., top deck, main deck, and side slopes of both decks). Additionally, a geotextile cushion layer will be installed over the entire leveling layer surface. Therefore, Figures 1A and 1B, as shown below, have been updated to show that the SCA final cover system consists of the following layers¹:

- Leveling layer consisting of soil fill, with variable thickness as needed to establish design grades;
- Geotextile cushion layer;
- Linear low-density polyethylene (LLDPE) geomembrane;
- Geocomposite drainage layer;
- 18-inch thick protective soil layer; and
- 6-inch thick vegetative soil layer.

This clarification does not impact the soil volume calculations presented in the Volume Package.

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REFERENCES

Beech and Bonaparte. "Appendix A-2: *Volume Calculations for SCA Final Cover*," Onondaga Lake SCA Final Cover Design, dated April 2015.

Written by: Ray Wu Date: 02/26/2016 Reviewed by: Sowmya Bulusu / Jay Beech Date: 02/26/2016

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Figures

Written by: Ray Wu Date: 02/26/2016 Reviewed by: Sowmya Bulusu / Jay Beech Date: 02/26/2016

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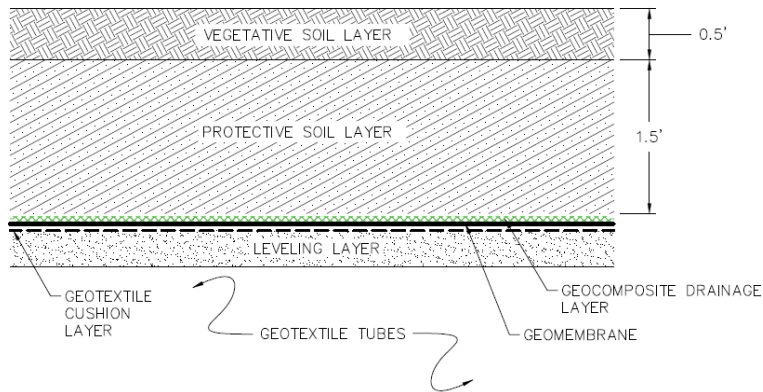


Figure 1A: SCA Final Cover for Gently Sloping Areas on the Top and Main Decks

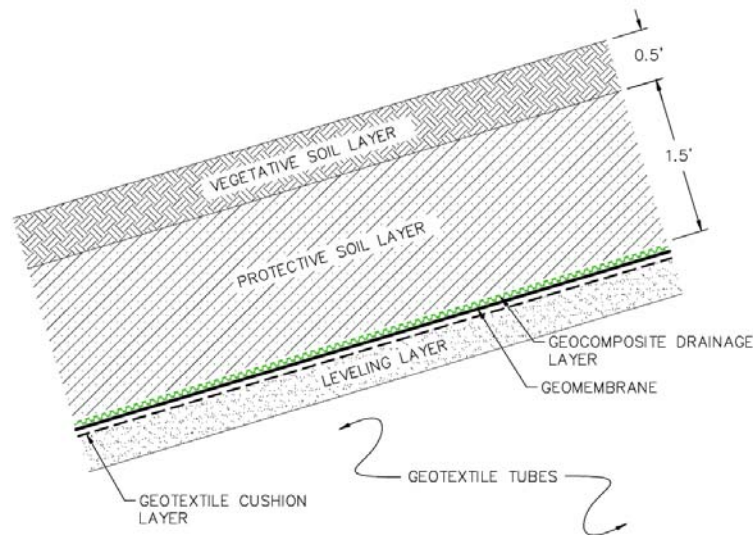


Figure 1B: SCA Final Cover for Top and Main Deck Side Slopes