# Honeywell

Honeywell 301 Plainfield Road Suite 330 Syracuse, NY 13212 315-552-9700 315-552-9780 Fax

October 10, 2013

Harry Warner, NYSDEC, Region 7 (1 bound) To: Holly Sammon, Onondaga County Public Library (1 bound) Samuel Sage, Atlantic States Legal Foundation (1 bound) Cara Burton, Solvay Public Library (1 bound) Mary Ann Coogan, Camillus Town Hall (1 bound) Moon Library, SUNY ESF (1 bound) Diane Carlton, NYSDEC, Region 7 (1 PDF) Joseph J. Heath, Esq., Onondaga Nation (1 bound) Chris Fitch, Communications (cov ltr – email)

Re: Letter of Transmittal - Onondaga Lake Repository Addition

The below document has been approved by the New York State Department of Environmental Conservation (NYSDEC) and is enclosed for your document holdings:

Onondaga Lake SCA/SCA WTP SWPPP Modification dated September 2013 •

Sincerely,

John P. Metholite by CCC

John P. McAuliffe, P.E. Program Director, Syracuse

Enc.

cc: Tim Larson - NYSDEC

New York State Department of Environmental Conservation Division of Environmental Remediation Remedial Bureau D, 12th Floor 625 Broadway, Albany, New York 12233-7013 Phone: (518) 402-9676 • Fax: (518) 402-9020 Website: www.dec.ny.gov



September 24, 2013

Mr. John P. McAuliffe, P.E. Program Director, Syracuse Honeywell 301 Plainfield Road, Suite 330 Syracuse, NY 13212

Re: Onondaga Lake SCA/SCA WTP SWPPP Modification Request, Dated September 12, 2013

Dear Mr. McAuliffe:

We have received and reviewed your Onondaga Lake SCA/SCA WTP SWPPP Modification Request, which was the subject of your September 12, 2013 letter to my attention, and find that the modification request is acceptable and therefore approved. This approval addresses the fact the West Basin is not necessary for SCA SWPPP purposes but it does not approve the West Basin for use to store treated water from the SCA WTP during a Metro shutdown of the SCA WTP. A proposed operations plan for the use of the West Basin during a Metro shutdown of the SCA WTP must be submitted for review and must be approved prior to use of the West Basin for temporary storage of treated water from the SCA WTP. Please see that copies of approved SWPPP modification, along with this approval letter, are transmitted to the document repositories selected for this site.

Sincere Timothy J. Larson, F.E.

Project Manager

ec: B. Israel, Esq, - Arnold & Porter R. Nunes - USEPA, NYC M. Sergott - NYSDOH, Albnay J. Heath, Esq. T. Joyal, Esq. J. Shenandoah B. White - O'Brien & Gere

J. Gregg - NYSDEC

- J. Davis NYSDOL, Albany
- J. Deming NYSDOH, Albnay
- F. Kirschner
- C. Waterman
- A. Lowry
- M. McDonald Honeywell

Honeywell 301 Plainfield Road Suite 330 Syracuse, NY 13212 315-552-9700 315-552-9780 Fax

September 12, 2013

Mr. Tim Larson, Project Manager New York State Department of Environmental Conservation Division of Environmental Remediation 625 Broadway, 12th Floor Albany, NY 12233-7013

# **RE: Honeywell SCA/SCA WTP SWPPP**

FILE: 1163/45613

Dear Mr. Larson:

Periodic temporary shutdowns by the Metropolitan Syracuse Wastewater Treatment Plant (Metro) in accordance with the Wet Weather Operating Plan have necessitated temporary stoppage of dredging and Sediment Consolidation Area (SCA) Water Treatment Plant (WTP) operations until the shutdown is complete and the Metro system capacity restored. These interruptions impact productivity, continuity, and efficiency of the dredging project. In response, Honeywell proposes to increase up-time of the WTP and dredging operations during Metro shutdowns through utilization of the existing west basin for temporary storage of WTP effluent. This modification would improve the ability to maintain overall project schedule and meet the goals and objectives of the Onondaga Lake remediation project.

Honeywell requests that the New York State Department of Environmental Conservation (NYSDEC) approve the proposed modification. Facilities will be constructed consistent with the State Pollutant Discharge Elimination System (SPDES) General Permit for Stormwater Discharges from Construction Activities.

# **PROJECT STATUS**

The construction and operation activities described in the 2011 Stormwater Pollution Prevention Plan (SWPPP)<sup>1</sup> have progressed such that Phase 1 and Phase 2 of the SCA have been constructed and received dredge spoils. As indicated on Figure 1, fill operations were conducted to maintain a perimeter channel between the sediment-filled geotextile tubes and the SCA berm to allow for equipment access. This perimeter channel will be maintained as profiled on Figure 2 throughout operations and provides approximately 4.2 million gallons (MG) of temporary stormwater storage capacity (see Attachment 1).

The 2011 SWPPP included the use of the east and west basins for stormwater detention during a 100-year, 24-hour storm event, managing runoff from the following lined areas:

- 25-acre Phase 1 SCA
- 22-acre Phase 2 SCA
- 4.0-acre east basin

<sup>1</sup> The SWPPP was approved by the NYSDEC on April 29, 2011.

Mr. Tim Larson September 12, 2010 Page 2

- 2.3-acre west basin
- 16-acre lined Phase 3 SCA (if conditions indicated that the additional area was needed)

Based on current operations, Phase 3 of the SCA will not be needed and is not scheduled for construction. To this end, management of stormwater runoff from this 16-acre area will not be required.

# PROPOSED PROJECT MODIFICATION AND SUPPORT DATA

Honeywell proposes to utilize the west basin, dedicated to stormwater detention in the 2011 SWPPP, for temporary storage of treated WTP effluent during Metro shutdowns. The data presented herein represents current conditions within the SCA and demonstrates that there is sufficient storage capacity for stormwater and geotube effluent without utilizing the west basin. The following data are summarized in Tables in this section:

- 1) the contributing volume of stormwater associated with the 100-year 24-hr storm event and geotube effluent that requires detention within the SCA facilities Table 1
- 2) the storage capacity that is available within the system to store stormwater and geotube effluent excluding the west basin Table 2

# CONTRIBUTING VOLUME REQUIRING STORAGE

The stormwater runoff volumes<sup>2</sup> for the project areas that are hydrologically connected to the SCA and associated basins are summarized in Table 1. These volumes were included in the 2011 SWPPP and remain representative of current site conditions.

Table 1. Contributing Volume Requiring Storage

Gallons	Notes
6,636,507 <sup>1</sup>	5.2 inches of rainfall over 47 acres
1,687,500 <sup>2</sup>	Assumes 3 days for tubes to dewater
324,765 <sup>1</sup>	5.2 inches of rainfall over 2.3 acres
564,770 <sup>1</sup>	5.2 inches of rainfall over 4 acres
9,213,542 gal	
	Gallons 6,636,507 <sup>1</sup> 1,687,500 <sup>2</sup> 324,765 <sup>1</sup> 564,770 <sup>1</sup> 9,213,542 gal

Presented in Appendix I of the 2011 SWPPP

<sup>2</sup> Presented in Section 2.12 of Appendix L of the 2011 SWPPP

<sup>2</sup> Calculated using Hydraflow Hydrograph Extension for AutoCAD Civil 3D 2008 software which utilizes U.S. Department of Agriculture Natural Resource Conservation Service (USDA NRCS) TR-55 and TR-20 methodologies

Mr. Tim Larson September 12, 2010 Page 3

# **STORAGE VOLUME AVAILABLE – CURRENT CONDITIONS**

Appendix L of the 2011 SWPPP includes calculations that demonstrate the capacity of project facilities to temporarily store the runoff volumes associated with the 100-year 24-hr storm event. The storage volume capacity calculations from Appendix L have been modified to reflect current conditions (approximately 100% of their water storage capacities) and exclude the west basin. These conditions are summarized in Table 2.

# Table 2. Storage Volume Available - Current Conditions

Area	Gallons	Notes
Phase 1 & 2 Gravel Layer	4,650,000 <sup>1</sup>	40% pore space within 12-inches of gravel
SCA Perimeter Channel	4,225,903 <sup>2</sup>	See Figure 2 for typical cross section
East Basin	1,809,732 <sup>3</sup>	East Basin operates at 53% capacity
Total Storage Volume Available	10,685,635 gal	
SURPLUS CAPACITY AVAILABLE	1,472,093 gal	

The volume presented in Section 2.13 of Appendix L of the 2011 SWPPP was based on a 24-inch gravel layer. That volume has been reduced by one-half since a 12-inch gravel layer was installed.

- 2 Supporting calculations provided in Attachment 1
- 3 The east basin operating volume is maintained at or below 100 inches which equates to the 1.8 MG storage volume capacity.

These calculations indicate that there is a surplus of water storage capacity within the existing system excluding the west basin. The operating water elevation within the east basin will be maintained at or below a water depth of 100 inches to provide the required storage capacity.

#### **SUMMARY**

Honeywell requests that the NYSDEC approve of storage of WTP effluent in the west basin during temporary Metro shutdowns on or before September 20, 2013 to allow for timely implementation. The information contained herein illustrates that there is a surplus of water storage capacity within the system excluding the west basin. Therefore, the west basin capacity is not required for stormwater and geotube effluent storage and could be utilized for storage of WTP effluent.

Please contact me with any questions. Your continued cooperation on this project is appreciated.

Sincerely,

John D. Mitulife by ccc

John P. McAuliffe, P.E. Program Director, Syracuse Mr. Tim Larson September 12, 2010 Page 4

Cc:

Robert Edwards Robert Nunes Mark Sergott **Geoffrey Laccetti** Ellen Hahn Sandy Lizlovs **Richard Mustico** Mary Jane Peachey Joseph J. Heath, Esq Thane Joyal, Esq Fred Kirschner Jeanne Shenandoah Curtis Waterman Alma Lowry Brian D. Israel, Esq Argie Cirillo, Esq Margaret A. Sheen, Esq Bob Rule Larry Somer Paul Blue Tom Abrams Kyle Buelow Paul Schultz Brian White

NYSDEC, Albany USEPA NYSDOH NYSDOH NYSDEC, Region 7 NYSDEC, Region 7 NYSDEC, Albany NYSDEC, Region 7 **Onondaga** Nation Syracuse AESE, Inc. **Onondaga** Nation HETF Syracuse Arnold & Porter USEPA NYSDEC, Region 7 demaximis Honeywell Parsons Parsons O'Brien & Gere O'Brien & Gere O'Brien & Gere





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Attachment 1

# Parsons 301 Plainfield Road Suite 350 Syracuse, New York 13212

Surface Report	Client: Honeywell		
Project Drawing: P:\Honeywel Technical Categories\10.1 CAD GEOTECH DESIGN\CIVL\Par Moat\444853-000-C-235 AND Report Date: 9/9/2013 PM	esign\10 <b>Project Description:</b> VIL- <b>Onondaga Lake</b> gs- <b>Sediment</b> <b>Management Design</b> <b>Prepared by:</b> J. Sivalia		
Linear Units: US Survey Foot	Area Units: Square Foot	Volume Units: Cubic Yard	
Surface: SCA Perimeter Chan Description: SCA Perimeter Cha	n <b>el</b> annel Volume Tin Surface		
Area 2D: 149679.685	Area 3D: 150766.3	329	
Elevation Max: 8.247	evation Max: 8.247 Elevation Min: -0.720		
Iumber of Points: 746Number of Triangles: 1160			
Volume Surface: SCA Perimeter Characteristics SCA Perimeter Characteristics and the second se	<b>ter Channel</b> annel Volume Tin Surface		
Volume Cut: 3.534	Volume Fill: 20923.504	Volume Total: 20919.970	
Compare Surface: Moat-1 Base Surface: Composite			

Remarks:

- 1. Composite Surface was developed from SCA gravel drainage layer, Low Permeability Soil Layer and North Berm As-Built data.
- 2. Moat-1 Surface is the Perimeter Channel located between the SCA Berms and the first row of bags at water elevation level 433.0 feet.
- 3. Perimeter Storage capacity is based on computer generated earthworks volume calculations.
- 4. The Volume Fill listed above was used to determine channel capacity, Cut Volume was not considered in the final calculation.
- 5. Calculations are based on Tin Surface volume calculations generated by Autodesk Civil 3D, 2012 version.

Volume in Gallons:

- 1. Conversion factor 1 cubic yard of water equals 201.974 gallons of water (Gallons U.S. Liquid).
- 2. Total Fill Volume 20923 cubic yards of water is equal to 4,225,903 gallons of water.