

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

July 27, 2012

To: Joseph Health, Esq. (Cover Letter Only)
Diane Carlton, NYSDEC, Region 7 (1 PDF)
Holly Sammon, Onondaga County Public Library (1 bound)
Samuel Sage, Atlantic States Legal Foundation (1 bound)
Cara Burton, Solvay Public Library (1 bound)

Re: Letter of Transmittal –Wastebeds 1-8 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:

- Wastebeds 1-8 Integrated IRM SWPPP Town of Geddes, Onondaga County, New York; April 26, 2012.

Sincerely,

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

Enc.

cc: Ellen Hahn (NYSDEC)
Tracy Smith (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



Joe Martens
Commissioner

June 27, 2012

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

Re: Wastebeds 1-8 Integrated IRM SWPPP

Dear Mr. McAuliffe:

The New York State Department of Environmental Conservation has reviewed the "Stormwater Pollution Prevention Plan Wastebeds 1-8 Integrated IRM" (SWPPP) dated April 2011. Based on our review, the SWPPP is approved. If you have any questions, please contact me at 518-402-9796.

Sincerely,

Tracy A. Smith

ecc: J. Gregg, NYSDEC
H. Kuhl
T. Joyal, Esq.
G. Laccetti, NYSDOH
F. Kirshner
R. Quail, NYSDEC

R. Nunes, USEPA
J. Shenandoah
A. Lowry
C. Waterman
D. Crawford, OBG
M. Spera, AECOM

M. Sergott, NYSDOH
J. Heath, Esq.
T. Biel, NYSDEC
D. Hesler, NYSDEC
E. Hahn, NYSDEC



April 26, 2012

Ms. Ellen Hahn

New York State Department of Environmental Conservation
615 Erie Blvd., West
Syracuse, NY 13204-2400

RE: Wastebeds 1-8 Integrated IRM SWPPP
Town of Geddes, Onondaga County, New York
Order on Consent: Index # D-7-0002-02-08
FILE: 1163/47228

Dear Ms. Hahn:

The proposed project, described below, will be performed in substantive compliance with the New York State Department of Environmental Conservation (NYSDEC) State Pollutant Discharge Elimination System (SPDES) General Permit for Stormwater Discharges Associated with Construction Activities GP-0-10-001 (Permit No. GP-0-10-001). The "basic" SWPPP prepared by O'Brien & Gere and DuLac Engineering, Inc., P.C., on behalf of Honeywell International, Inc. (Honeywell), is enclosed for your review.

The Wastebeds 1-8 Site is located in the Town of Geddes, Onondaga County, New York, and is the subject of a Remedial Investigation and Feasibility Study being conducted by Honeywell pursuant to an Order on Consent (Index # D7-0002-02-08) between Honeywell and the NYSDEC. An Integrated Interim Remedial Measure (IRM) for the portion of the Wastebeds 1-8 Site¹ illustrated on Figure 1 was developed to mitigate groundwater and seep discharges from the Site to Ninemile Creek (NMC) and Onondaga Lake and erosion of Solvay waste along the Site's Onondaga Lake Shoreline. The Integrated IRM 95% Remedial Design (O'Brien & Gere 2012) has been submitted to NYSDEC under separate cover.

In addition, the Geddes Brook/Ninemile Creek Operable Unit (OU) #1 Restoration Project is in the design phase. Portions of that project will be adjacent to the Wastebeds 1-8 Site. Accordingly, this SWPPP will be amended as necessary to address certain relevant components of that project when design is approved by the NYSDEC and will be submitted to the NYSDEC for review.

The Integrated IRM represents a significant ecological enhancement project that will improve the quality of the Onondaga Lake watershed by improving the quality of stormwater runoff from the Site. Key elements proposed for those areas illustrated on Figure 1 include:

- placement of clean material and establishment of native vegetation over a portion of the Site to stabilize the substrate and improve the ecological values and services provided by both existing and proposed Site upland and wetland habitat
- installation of groundwater and seep collection facilities that will route impacted water to treatment facilities prior to discharge to Onondaga Lake. Seep collection facilities will also contribute to slope stabilization
- use of structural and bioengineered facilities to stabilize portions of the Site that are historically subject to erosion
- restoration of Middle Ditch A including removal of accumulated sediment and precipitate
- installation of permanent stormwater management facilities with the following objectives:

¹ The Integrated IRM involves only a portion of the Site; the balance of the Site will be addressed as part of the final remedy.

- » treat Site runoff to provide erosion and sediment control during construction and a means of permanent post-construction stormwater treatment that improves the quality of stormwater discharged to Onondaga Lake, NMC, and the mitigation wetlands that will be constructed as part of the Integrated IRM
- » manage the water quality volume and convey stormwater runoff from the upper portion of the Site in a controlled manner that reduces potential impact to the Integrated IRM.

The Integrated IRM is described in the NYSDEC's *Response Action Document* (RAD) (NYSDEC 2011). Construction of the following major remedial components, collectively referred to as the "Integrated IRM", are expected to commence in June 2012 and are anticipated to be completed according to the following general sequence and duration:

Ninemile Creek Shoreline - June 2012 through August 2013

- clearing, grubbing, and staging area installation
- install groundwater collection trench and seep collection apron
- install stormwater facilities
- perform vegetative restoration
- install access path and forcemain
- install pump station, electrical, and controls

Ditch A - June 2012 through March 2013

Middle Ditch A

- sediment removal
- install gravel substrate and check dams
- restore vegetation on ditch banks above limits of gravel
- clean culverts and drainage structures located within the ditch and complete closed circuit television (CCTV) imagery

Lower Ditch A

- culvert extension
- sediment removal, LLDPE liner installation, substrate placement, and restoration

Upper Ditch A

- clean and rehabilitate culvert leading to NMC

Northern Shoreline - January 2013 through December 2013

- install access path and groundwater collection trench
- perform steep cliff stabilization
- install stormwater facilities
- perform vegetative restoration
- install forcemain
- install pump station, electrical, and controls

Eastern Shoreline - June 2012 through December 2014

- install groundwater collection trench, access paths, seep collection facilities, stormwater facilities, and forcemain

- install pump station, electrical, and controls
- install vegetative cover
- perform vegetative restoration

Mitigation Wetlands – January 2014 through December 2014

- install wetlands water management structures/pipes
- construct wetlands subgrade and berm
- install liner system, wetlands substrate and topsoil
- establish vegetation within mitigation wetlands

This “basic” SWPPP was prepared since the Integrated IRM involves ecological enhancements that are expected to decrease stormwater runoff from the Site under developed conditions; no impervious surface area (*i.e.*, buildings, pavement) is proposed. Construction activities for the Project will be conducted in accordance with the Design Drawings and Technical Specifications prepared by O’Brien & Gere and the information included within this SWPPP.

The Design Drawings include information on the proposed location, details, and descriptions of erosion and sediment control facilities to be installed to control erosion and minimize sedimentation. In addition to standard erosion and sediment control facilities, such as silt fence and stone check dams, the design includes approximately 280,000 square feet (sf) (6.5 acres) of construction path stabilization on the proposed access paths and 200,000 sf (4.6 acres) of slope protection via the proposed seep aprons.

While generally not required for ecological enhancement projects, the drawings also provide details of permanent stormwater management facilities that will be installed consistent with the design standards of the New York State Stormwater Design Manual (NYSDEC 2010). Calculations that were performed to size the wet swales and associated appurtenances are included as Attachment 3.

Erosion and sediment control facilities will be installed and maintained at the Site for the duration of the Project until these areas are stabilized in substantive compliance with Permit No. GP-0-10-001. The permanent stormwater management facilities will be maintained in place after construction is complete.

While the amount of area disturbed at one time will be limited to the extent practicable, compliance with the Order on Consent requires that greater than 5 acres of land be disturbed at one time. Therefore, on behalf of Honeywell, we request NYSDEC’s approval to disturb more than 5 acres during construction activities associated with the Integrated IRM.

Should you have any questions or require additional information, please contact Kyle Buelow, CPESC/CPSWQ or me at your earliest convenience.

Very truly yours,
O'BRIEN & GERE ENGINEERS, INC.



Douglas M. Crawford, P.E.
Vice President

- Attachment 1 SPDES Notice of Intent
- Attachment 2 Erosion and Sediment Control Specification
- Attachment 3 Facility Sizing Calculations and Design Criteria
- Attachment 4 Pre-Construction Requirements
- Attachment 5 Inspection Forms
- Attachment 6 Contract Documents (bound separately)
- Attachment 7 SPDES Notice of Termination

cc: Mr. Tracy A. Smith NYSDEC (2 copies, 1 CD)
Mr. John McAuliffe Honeywell (1 copy, 1 CD)
Mr. Robert Nunes USEPA (1 copy, 2 CDs)
Mr. Harry Warner NYSDEC Region 7 (1 copy, 1 CD)
Mr. Steven Bates NYSDOH (1 copy, 1 CD)
Mr. Geoffrey Laccetti NYSDOH (ec ltr only)
Margaret A. Sheen, Esq. NYSDEC, Region 7 (ec ltr only)
Argie Cirillo, Esq. USEPA (ec ltr only)
Brian D. Israel, Esq. Arnold & Porter (ec ltr only)
Mr. David Coburn O.C. Office of the Environment (1 copy, 1 CD)
Joseph J. Heath, Esq. Onondaga Nation (ec ltr only)
Thane Joyal, Esq. Onondaga Nation (CD)
Mr. Fred Kirschner AESE, Inc. (CD)
Ms. Jeanne Shenandoah Onondaga Nation (1 copy and ec ltr)
Ms. Heidi Kuhl Onondaga Nation (1 copy)
Mr. Curtis Waterman Onondaga Nation (1 copy)
Ms. Alma Lowry Onondaga Nation (ec ltr only)
Mr. Michael Spera AECOM (1 copy, 1 CD)
Mr. David Scheuing AECOM (1 copy, 1 CD)
Mr. William Hague Honeywell (ec ltr only)
Mr. Steve Miller Parsons (CD/ec ltr)
Mr. Donald Lake DuLac Engineering (1 copy)
Mr. Brian White O'Brien & Gere (ec ltr only)
Mr. Bradley Kubiak O'Brien & Gere (ec ltr only)
Mr. Douglas M. Crawford O'Brien & Gere (ec ltr only)
Mr. Christopher C. Calkins O'Brien & Gere (ec ltr only)

STORMWATER POLLUTION PREVENTION PLAN

**Wastebeds 1-8 Integrated IRM
Town of Geddes
Onondaga County, New York**

Honeywell

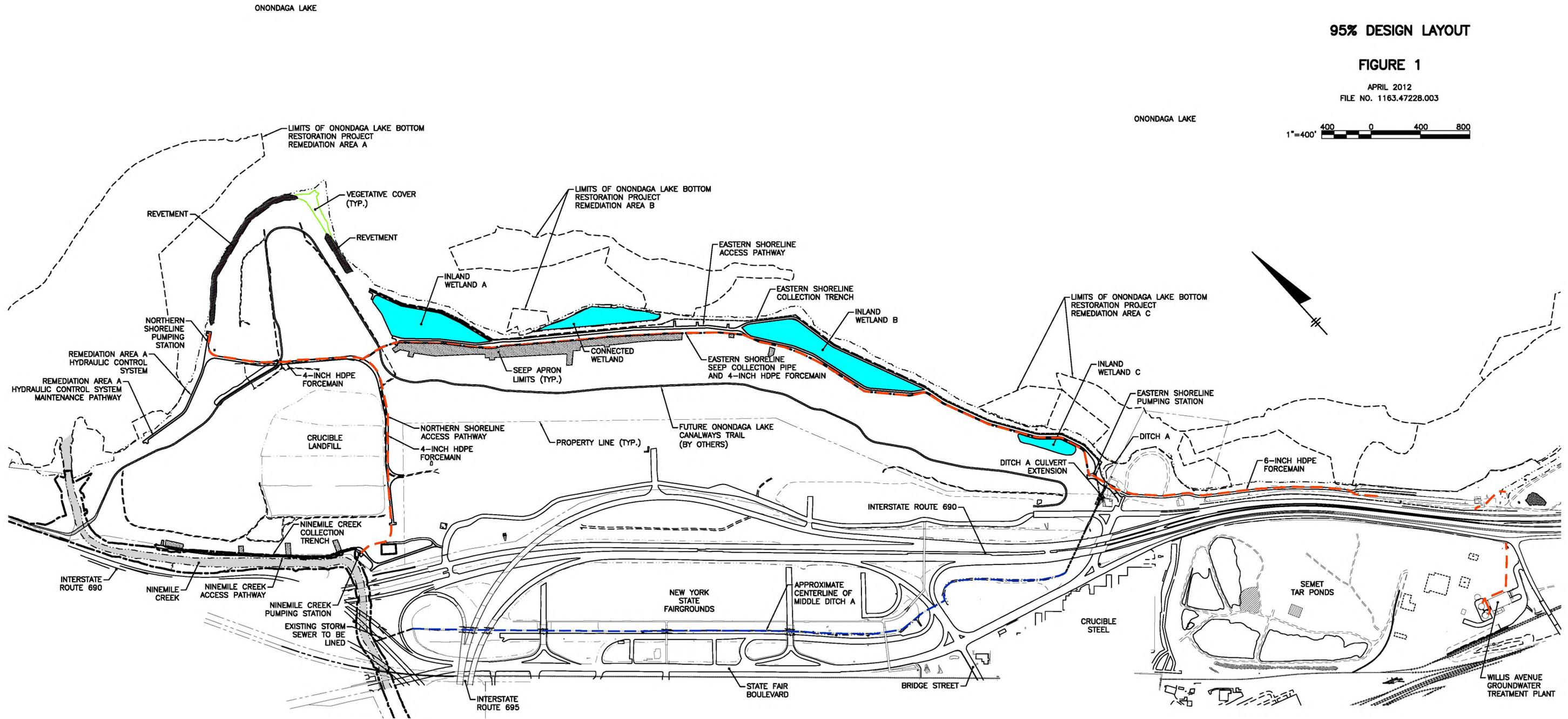
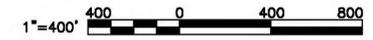
April 2012



95% DESIGN LAYOUT

FIGURE 1

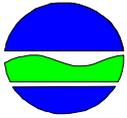
APRIL 2012
FILE NO. 1163.47228.003



OVERALL PLAN
SCALE: 1"=400'

Attachment 1
SPDES Notice of Intent

NOTICE OF INTENT



**New York State Department of Environmental Conservation
 Division of Water
 625 Broadway, 4th Floor
 Albany, New York 12233-3505**

NYR
 (for DEC use only)

Stormwater Discharges Associated with Construction Activity Under State Pollutant Discharge Elimination System (SPDES) General Permit # GP-0-10-001
 All sections must be completed unless otherwise noted. Failure to complete all items may result in this form being returned to you, thereby delaying your coverage under this General Permit. Applicants must read and understand the conditions of the permit and prepare a Stormwater Pollution Prevention Plan prior to submitting this NOI. Applicants are responsible for identifying and obtaining other DEC permits that may be required.

- IMPORTANT -
RETURN THIS FORM TO THE ADDRESS ABOVE
OWNER/OPERATOR MUST SIGN FORM

Owner/Operator Information

Owner/Operator (Company Name/Private Owner Name/Municipality Name)

Owner/Operator Contact Person Last Name (NOT CONSULTANT)

Owner/Operator Contact Person First Name

Owner/Operator Mailing Address

City

State Zip -

Phone (Owner/Operator) - - Fax (Owner/Operator) - -

Email (Owner/Operator)

FED TAX ID - (not required for individuals)

10. Is this a phased project?

Yes No

11. Enter the planned start and end dates of the disturbance

Start Date

/ /

End Date

/ /

12. Identify the nearest, natural, surface waterbody(ies) to which construction site runoff will discharge.

Name

12a. Type of waterbody identified in Question 12?

- Wetland / State Jurisdiction On Site (Answer 12b)
- Wetland / State Jurisdiction Off Site
- Wetland / Federal Jurisdiction On Site (Answer 12b)
- Wetland / Federal Jurisdiction Off Site
- Stream / Creek On Site
- Stream / Creek Off Site
- River On Site
- River Off Site
- Lake On Site
- Lake Off Site
- Other Type On Site
- Other Type Off Site

12b. How was the wetland identified?

- Regulatory Map
- Delineated by Consultant
- Delineated by Army Corps of Engineers
- Other (identify)

13. Has the surface waterbody(ies) in question 12 been identified as a 303(d) segment in Appendix E of GP-0-10-001?

Yes No

14. Is this project located in one of the Watersheds identified in Appendix C of GP-0-10-001?

Yes No

15. Is the project located in one of the watershed areas associated with AA and AA-S classified waters? **If no, skip question 16.**

Yes No

30. Provide the total water quality volume required and the total provided for the site.

WQv Required
 . acre-feet

WQv Provided
 . acre-feet

31. Provide the following Unified Stormwater Sizing Criteria for the site.

Total Channel Protection Storage Volume (CPv) - Extended detention of post-developed 1 year, 24 hour storm event

CPv Required
 . acre-feet

CPv Provided
 . acre-feet

31a. The need to provide for channel protection has been waived because:

- Site discharges directly to fourth order stream or larger

Total Overbank Flood Control Criteria (Qp) - Peak discharge rate for the 10 year storm

Pre-Development
 . CFS

Post-development
 . CFS

Total Extreme Flood Control Criteria (Qf) - Peak discharge rate for the 100 year storm

Pre-Development
 . CFS

Post-development
 . CFS

31b. The need to provide for flood control has been waived because:

- Site discharges directly to fourth order stream or larger
- Downstream analysis reveals that flood control is not required

IMPORTANT: For questions 31 and 32, impervious area should be calculated considering the project site and all offsite areas that drain to the post-construction stormwater management practice(s). (Total Drainage Area = Project Site + Offsite areas)

32. Pre-Construction Impervious Area - As a percent of the Total Drainage Area enter the percentage of the existing impervious areas before construction begins. %

33. Post-Construction Impervious Area - As a percent of the Total Drainage Area, enter the percentage of the future impervious areas that will be created/remain on the site after completion of construction. %

34. Indicate the total number of post-construction stormwater management practices to be installed/constructed.

35. Provide the total number of stormwater discharge points from the site. (include discharges to either surface waters or to separate storm sewer systems)

36. Identify other DEC permits that are required for this project.

DEC Permits

- Air Pollution Control
- Navigable Waters Protection / Article 15
- Coastal Erosion
- Water Quality Certificate
- Hazardous Waste
- Dam Safety
- Long Island Wells
- Water Supply
- Mined Land Reclamation
- Freshwater Wetlands/Article 24
- Other SPDES
- Tidal Wetlands
- Solid Waste
- Wild, Scenic and Recreational Rivers
- None
- Stream Bed or Bank Protection / Article 15

Other

C O N S E N T O R D E R D 7 0 0 0 2 0 2 0 8

37. Does this project require a US Army Corps of Engineers Wetland Permit? Yes No
 If Yes, Indicate Size of Impact.

38. Is this project subject to the requirements of a regulated, traditional land use control MS4? Yes No
 (If No, skip question 39)

39. Has the "MS4 SWPPP Acceptance" form been signed by the principal executive officer or ranking elected official and submitted along with this NOI? Yes No

40. If this NOI is being submitted for the purpose of continuing coverage under a general permit for stormwater runoff from construction activities, please indicate the former SPDES number assigned.

N Y R

Owner/Operator Certification

I have read or been advised of the permit conditions and believe that I understand them. I also understand that, under the terms of the permit, there may be reporting requirements. I hereby certify that this document and the corresponding documents were prepared under my direction or supervision. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further understand that coverage under the general permit will be identified in the acknowledgment that I will receive as a result of submitting this NOI and can be as long as sixty (60) business days as provided for in the general permit. I also understand that, by submitting this NOI, I am acknowledging that the SWPPP has been developed and will be implemented as the first element of construction, and agreeing to comply with all the terms and conditions of the general permit for which this NOI is being submitted.

Print First Name

J O H N

MI

P

Print Last Name

M C A U L I F F E

Owner/Operator Signature

John P. McAuliffe by CCC

Date

04 / 25 / 2012

Attachment 2
Erosion and Sediment
Control Specification

SECTION 02570 - EROSION AND SEDIMENT CONTROL

02570 – 1 GENERAL

This Section includes temporary erosion and sediment control measures intended to minimize erosion of soils and sedimentation of lands and waters adjacent to or affected by the proposed Wastebeds 1-8 Integrated IRM Project.

02570 – 1.01 REFERENCES

All work will be performed in substantive compliance with the New York State Department of Environmental Conservation (NYSDEC) State Pollutant Discharge Elimination System (SPDES) General Permit for Stormwater Discharges from Construction Activities (Permit No. GP-0-10-001). Materials and installation will be in accordance with the latest revisions of the following codes, standards, and specifications:

1. NYSDEC Standards and Specifications for Erosion and Sediment Control. (NYSDEC 2005).
2. New York State Stormwater Management Design Manual (the design Manual) prepared by the Center for Watershed Protection for the NYSDEC (2010).

Approval from the NYSDEC will be received prior to disturbance of more than 5 acres at one time.

02570 – 1.02 SUBMITTALS

Submit shop drawings of silt fence and vegetative seed mixes to the Engineer.

02570 – 2 MATERIALS

02570 – 2.01 GENERAL

Provide all necessary supervision, labor, equipment and materials needed to perform the specified work. Materials will include silt fence, vegetation, stone, erosion control fabric, and other manufactured products to reduce erosion and control sedimentation.

02570 – 2.02 SILT FENCE

Posts will be steel (either T or U type) or 2-inch square hardwood with 10-foot spacing. Wire fence backing will be woven wire, 14.5 gauge, with 6-inch maximum mesh opening.

Geotextile filter cloth sizing will be as recommended by the manufacturer. The material will have a minimum tensile strength of 120 pounds (test procedure ASTM D1682).

02570 – 2.03 STABILIZED CONSTRUCTION ENTRANCE

Stone used for stabilized construction entrances will be a minimum of 2-inch stone. Equivalent material (*i.e.*, reclaimed concrete) may be used with approval from the Engineer.

Geotextile bedding will consist of Mirafi 500X.

Overall dimensions and installation notes are as shown on the Contract Drawings.

02570 – 2.04 TEMPORARY VEGETATION

See Section 3.02.

02570 – 2.05 STONE CHECK DAMS

Stone will be NYSDOT Item 620.02 and 620.03 as specified or equivalent. Fabric will be Mirafi 140N or approved equal.

02570 – 2.06 CONSTRUCTION ROAD STABILIZATION

Access roads shall be installed with the materials specified on the Contract Drawings prior to use.

02570 – 2.07 DUST CONTROL

Measures may include water application or mulching but will not include use of chemical additives.

02570 – 2.08 PORTABLE SEDIMENT TANK

Filter bags by U.S. Fabric or equivalent shall be used.

02570 – 2.09 STORM DRAIN INLET PROTECTION

Stone will be NYSDOT Item 623.11 crushed gravel placed over filter fabric.

02570 – 2.10 OUTLET PROTECTION

Outlets to the wetland mitigation areas shall be protected with ShoreMax™ Soft Revetment Scour Protection Mat from North American Green or equivalent.

02570 – 2.11 TEMPORARY WATER INFLATED DAM

Temporary water inflated dams shall be 4-ft high from Aqua-Barrier or equivalent.

02570 – 3 CONSTRUCTION DETAILS

02570 – 3.01 SEQUENCE

A temporary stabilized construction entrance will be installed in the ingress and egress locations. If needed, vehicles/equipment will be washed on the entrance prior to leaving the site. Periodic top dressing of the entrance will be performed as necessary as material accumulates to prevent tracking of material onto off-site roads.

Silt fencing will be installed along toes of embankments, on downstream portions of the site perimeter, and around spoil piles and stockpiles. Double layers of silt fence will be installed adjacent on slopes in excess of 15% and adjacent to streams, wetlands, and Onondaga Lake.

Staging/laydown areas for vehicles and construction equipment will be located on stabilized portions of the site. If necessary, vehicles and equipment will be washed down in stabilized areas prior to exiting the site.

Construction road stabilization shall be installed along proposed access roads.

Swales will be installed to intercept stormwater from leaving the site and will be maintained as grading operations occur during construction. The swales will then be replaced by the permanent stormwater management facilities (*i.e.*, wet swales).

Temporary stone check dams will be placed in swales to prevent erosion, reduce flow velocities, and promote sedimentation. The check dams will be installed at intervals such that the crest of the downstream dam is at the elevation of the toe of the upstream dam. Maintenance will include inspection, cleaning and/or replacement of stone.

Rock outlet and scour protection will be installed at inlet and outlet ends of culverts to prevent erosion and scour through energy dissipation.

Additional erosion and sediment control (ESC) facilities will be installed as shown on the Contract Drawings. These facilities will remain in place until construction activities are completed and the site is stabilized.

The site will be cleared and grubbed within the limits of work only. Cleared vegetation, soil, and other debris will be stockpiled in approved areas for disposal at an approved location. Chipped vegetation may be spread across the planting area as long as the depth of material does not exceed two inches in any location.

Stockpiled and exposed soil will be stabilized, topsoiled, seeded, and mulched in accordance with the Contract Documents. Chipped vegetation may be used as mulch.

Upon stabilization of the site and approval of final site inspection, temporary ESC measures will be removed.

02570 – 3.02 TEMPORARY STABILIZATION

The Project approach includes planting the Project area with permanent vegetation as soon as practicable. In the event of unforeseen Project delays (*i.e.*, longer than the time frames in Permit No. GP-0-10-001), areas will be temporarily stabilized with the following measures:

1. Spread fertilizers, additives, etc. into soil by approved methods.
2. The seed will not be more than two years old. Germination tests of the seed proposed to be used will be made not more than six months prior to seeding operations. The seed mixture may be varied to suit special conditions of soil peculiar to the areas to be seeded. Seed that has become wet, moldy, or otherwise damaged in transit or storage will not be acceptable.
3. Temporary seed will be applied as follows: oats at a rate of 45 pounds per acre and white clover at a rate of 5 pounds per acre. If performed between October 1 and March 31, winter wheat will also be applied at a rate of 10 pounds per acre. Spread seed by hand or approved sowing equipment.
4. After sowing has been completed, apply mulch evenly over the entire seeded area at a rate of 2 tons per acre.

02570 – 3.03 PERMANENT STABILIZATION

Permanent stabilization measures will be initiated pursuant to the New York State Standards and Specifications for Erosion and Sediment Control (NYSDEC 2005) as soon as practicable. For portions of the site where soil disturbance activities have permanently ceased, stabilization measures must be implemented within 7 days of the conclusion of activities. This requirement does not apply if the installation of stabilization measures is precluded by snow cover or frozen ground conditions; however, measures will be implemented as soon as practicable.

Project-specific permanent stabilization measures are provided in Section 02580.

02570 – 3.04 WATER MANAGEMENT PLAN

Means and methods of construction phase water management are provided in the Construction Work Plan.

02570 - 3.05 ADDITIONAL STORMWATER CONTROLS

Listed below is a description of additional controls and measures that will be implemented at the site to minimize sediment transport.

Proper precautions will be taken so soil does not spill or is tracked onto adjacent roadways during earthwork. Soil will be removed as soon as practicable so that it does not enter surface and subsurface drainage systems.

Dust control measures will be provided before dust migrates off-site. Measures may include water application or mulching but will not include use of chemical additives.

Planting materials will be properly stored and/or contained.

Trench plugs will be used in utility trenches as needed to prevent conveyance and discharge of sediment to adjacent water bodies.

Chemicals (*e.g.* fertilizers, herbicides) with spill potential will have appropriate secondary containment.

02570 – 3.06 MAINTENANCE

Construction period operation and maintenance:

1. Clean, repair and/or replace silt fences, inlet protection, construction entrances, swales and rip-rap aprons as necessary.
2. Remove sediment from sediment traps when it has accumulated to one half the design capacity.
3. Clean and/or sweep affected roadways daily, or more frequently if otherwise required by the Owner's representative.
4. Observe equipment and vehicles within the work area, particularly for identification of vehicles leaking petroleum products that could enter stormwater drainage facilities.
5. Stabilized construction entrances and construction access roads will be resurfaced as necessary.
6. Remove debris and litter on a weekly basis or more frequently if necessary.

Post-construction operation and maintenance:

1. Vegetation within the Project area will be monitored and maintained. Dead vegetation will be replaced as necessary to maintain a minimum ground coverage of 80%.
2. Areas will be maintained and/or reseeded or stabilized to protect against erosion.
3. Sloughing or erosion of embankments will be repaired.
4. Inspect swales and rip-rap aprons annually. Remove and dispose of trees, brush, obstructions and other foreign objects to prevent interference with proper facility function.
5. Inspect and clean stormwater management facilities as necessary to maintain full flow capacity. Remove sediment and other debris as needed.

02570 – 3.07 INSPECTION DURING CONSTRUCTION

General

The Owner will be responsible to provide a qualified inspector¹ to inspect the proposed erosion and sediment control measures and disturbed areas of the construction site for compliance with the SWPPP until the site is stabilized. The qualified inspector will conduct at least two site inspections every seven calendar days. There will be a minimum of two full calendar days between inspections. A typical Inspection Report Form for conducting the inspections is included in the SWPPP.

The inspection report will include the inspector's name, date, findings of the inspections, notes, and actions taken to repair/replace defective control measures. A site map indicating locations of areas of concern and drainage pathways will be included. Based on the results of the inspection, the pollution prevention measures identified herein will be revised and implemented as appropriate within one business day and completed within seven calendar days following the date of the inspection. Deficiencies noted during any inspection will be corrected within 24 hours of the inspection. Further mitigation measures will be taken if warranted. Each inspection report is to remain on file at the site as part of the SWPPP until the site is stabilized and the SPDES Notice of Termination (NOT) is submitted to the NYSDEC.

Prior to construction identify at least one trained contractor² that will be responsible for implementation of the SWPPP and inspection of the erosion and sediment controls in accordance with the New York State Standards and Specifications for Erosion and Sediment Control (NYSDEC 2005). At least one trained contractor will be on site on a daily basis while soil disturbance activities are being performed.

Temporary Construction Shutdown (Winter Conditions)

When soil-disturbing activities have been temporarily suspended (*e.g.*, winter shutdown) and temporary stabilization measures have been applied to disturbed areas, the Owner may cease the periodic inspections by the trained contractor. However, the qualified inspector must perform a site inspection at least once every 30 calendar days. The Owner will notify the NYSDEC in writing prior to reducing the inspection frequencies. The Owner will resume inspections by the trained contractor and qualified inspector in accordance with this Section as soon as soil disturbance activities resume.

02570 – 3.08 NON-STORMWATER DISCHARGES

The Contractor will be responsible for identifying areas at the site dedicated for construction vehicle transit

¹ Qualified inspector means a person that is knowledgeable in the principles and practices of erosion and sediment control, such as a licensed Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), Registered Landscape Architect, or other NYSDEC endorsed individual(s). It can also mean someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided that person has training in the principles and practices of erosion and sediment control. Training in the principles and practices of erosion and sediment control means that the individual working under the direct supervision of the licensed Professional Engineer or Registered Landscape Architect has received four hours of NYSDEC endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other NYSDEC endorsed entity. After receiving the initial training, the individual working under the direct supervision of the licensed Professional Engineer or Registered Landscape Architect shall receive four hours of training every three years.

² Trained contractor means an employee from the contracting (construction) company that has received four hours of NYSDEC endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other NYSDEC endorsed entity. After receiving the initial training, the trained contractor shall receive four hours of training every three years. It can also mean an employee from the contracting (construction) company that meets the qualified inspector qualifications (*e.g.* licensed Professional Engineer, CPESC, Registered Landscape Architect, or someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided they have received four hours of NYSDEC endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other NYSDEC endorsed entity). The trained contractor will be responsible for the day to day implementation of the SWPPP.

or equipment staging which will be monitored and where runoff can be controlled.

Cleaning water for construction vehicles and activities will occur in designated staging/laydown areas. Chemicals and detergents will not be used.

Water used for dust control measures will be applied using proper quantities and equipment to avoid runoff to the extent practicable. No chemical additives will be used.

02570 – 3.09 SPILL PREVENTION

The following spill prevention measures will be performed:

- Materials with potential for spillage, stored on-site, will be stored in a neat, orderly manner in their appropriate containers and in secondary containment.
- Products will be kept in their original containers with the original manufacturer's label.
- Substances will not be mixed with one another unless recommended by the substance manufacturer.
- Whenever possible, product will be used up or packages resealed before proper disposal of contents and containers off site.
- Manufacturers' recommendations for proper use and disposal will be followed.
- Inspection will be made for proper use and disposal of materials.
- On-site vehicles will be monitored for leaks and receive regular preventative maintenance to reduce the chance of leakage of petroleum products. Petroleum products will be stored in closed containers which are clearly labeled. Used oils will be disposed of properly.
- Materials will be brought on-site in the minimum quantities required to limit on-site storage.
- Refueling of vehicles and equipment will occur a minimum of 50-feet from streams and wetlands.

02570 – 3.10 SPILL CONTROL PRACTICES

Spills of petroleum, toxins, or hazardous material will be reported to the appropriate State or local government agencies. Spills will be cleaned up immediately after discovery.

Manufacturers' recommended methods for spill cleanup will be clearly posted and site personnel will be made aware of the procedures and the location of the information and cleanup supplies.

Materials and equipment necessary for spill cleanup will be kept in an on-site material storage area. Equipment and materials will include but not be limited to shovels, rags, gloves, goggles, spill control materials, sand, sawdust, and trash containers specifically for this purpose.

The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance.

A spill report will be completed and will include a description of the spill, what caused it, and the corrective measures taken.

02570 – 3.11 CERTIFICATIONS

Contractor Certification - Each Contractor involved in soil disturbance shall understand and sign a form (see Attachment 3) containing the following certification statement:

"I hereby certify that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions identified by the qualified inspector during a site inspection. I also understand that the Owner or operator must comply with the terms and conditions of the New York State Pollutant Discharge Elimination System (SPDES) General Permit for Stormwater Discharges from Construction Activities and that

it is unlawful for any person to cause or contribute to a violation of water quality standards. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings. I also certify, that I have received a copy of the SWPPP and will retain a copy of such SWPPP on-site during construction.”

Prior to construction the Owner will identify at least one qualified inspector who shall understand and sign a form (see Attachment 3) containing the following certification statement:

“I hereby certify that I meet the criteria set forth in the General Permit to conduct site inspections for this Project and that the appropriate erosion and sediment controls described in the SWPPP and as described in the Pre-construction Site Assessment Checklist have been adequately installed or implemented, ensuring the overall preparedness of this site for the commencement of construction.”

02570 – 3.12 NOTICE OF INTENT/TERMINATION

Honeywell will be responsible for submitting the completed and signed SPDES Notice of Intent (NOI) to the NYSDEC prior to initiation of construction activities. The SPDES NOT will be completed and submitted by Honeywell to the NYSDEC upon completion of construction and stabilization of the Project area.

Attachment 3

Facility Sizing Calculations

Attachment 3-1 Drainage Area Figures

Attachment 3-2 Water Quality Volume Calculations

Attachment 3-3 Outlet Structure Orifice Sizing Calculations

Attachment 3-4 Wet Swale Stage Storage Volume Calculations

Attachment 3-5 Stage-Discharge Calculations

Attachment 3-6 SCS TR-55 Time of Concentration Computations Report