

**Appendix A**

401 Water Quality Certificate and  
Modification

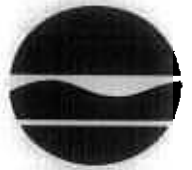
ARCADIS

**Excavation and Fill Permit and  
Part 401 WQC**

October 25, 2007

**New York State Department of Environmental Conservation  
Division of Environmental Permits, 4<sup>th</sup> Floor**

625 Broadway, Albany, New York 12233-1750  
Phone: (518) 402-9167 • FAX: (518) 402-9168  
Website: [www.dec.state.ny.us](http://www.dec.state.ny.us)



Denise M. Sheehan  
Commissioner

October 25, 2007

James Morgan  
Niagara Mohawk Power Corporation  
300 Erie Boulevard West  
Syracuse, New York 13202-4201

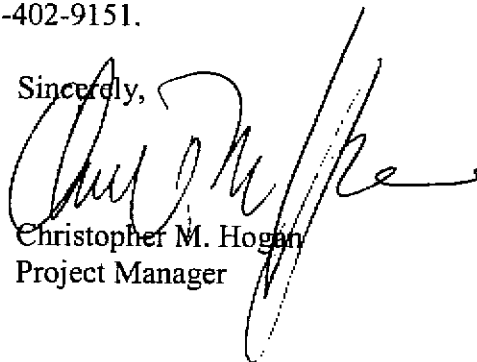
RE: Cohoes Fire Training Area – Remedial Action - Section 401 Water Quality  
Certification & Article 15: Excavation & Fill

Dear Mr. Stoffle:

In conformance with the requirements of the State Uniform Procedures Act, Article 70 of the Environmental Conservation Law and its implementing regulations 6 NYCRR Part 621 (Uniform Procedures), enclosed is the Section 401 Water Quality Certification and Excavation and Fill permit for the remedial work to be completed at the fire training area in Cohoes.

Please read all terms and conditions carefully. If you have any questions regarding the certification please contact me at 518-402-9151.

Sincerely,



Christopher M. Hogan  
Project Manager

cc: via e-mail:  
A. Geisendorfer – Reg. 4  
W. Little  
W. Clarke  
K. Kemp, Brookfield  
R. Wingert  
J. Brussel

## PERMIT

### Under the Environmental Conservation Law (ECL)

#### Permittee and Facility Information

**Permit Issued To:**

NIAGARA MOHAWK POWER  
CORPORATION  
300 ERIE BLVD WEST  
SYRACUSE, NY 13202-4201  
(315) 592-0112

**Facility:**

COHOES FIRE TRAINING AREA  
  
CRESCENT RD  
COHOES, NY

**Facility Location:** in COLONIE in ALBANY COUNTY **Village:** Cohoes

**Facility Principal Reference Point:** NYTM-E: 605.047 NYTM-N: 4739.013

Latitude: 42°47'47.2" Longitude: 73°42'55.6"

**Project Location:** Crescent Rd, immediately above the School Street Hydro gatehouse/power canal

**Authorized Activity:** Excavate approximately 100 cubic yards of PCB contaminated sediment from the Mohawk River in conjunction with the remediation of a former fire training area. The remediation is being conducted in accordance with the Remedial Design, which was prepared in accordance with an existing consent order (Index No. A4-0416-003).

#### Permit Authorizations

**Excavation & Fill in Navigable Waters - Under Article 15, Title 5**

Permit ID 4-0126-00656/00001

New Permit

Effective Date: 10/25/2007

Expiration Date: 10/25/2008

**Water Quality Certification - Under Section 401 - Clean Water Act**

Permit ID 4-0126-00656/00002

New Permit

Effective Date: 10/25/2007

Expiration Date: 10/25/2008

#### NYSDEC Approval

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, and all conditions included as part of this permit.

Permit Administrator: WILLIAM R ADRIANCE, Chief Permit Administrator

Address: NYSDEC HEADQUARTERS  
625 BROADWAY  
ALBANY, NY 12233

Authorized Signature: William R. Adriance

Date 10/25/07

#### Permit Components





## NATURAL RESOURCE PERMIT CONDITIONS

### WATER QUALITY CERTIFICATION SPECIFIC CONDITION

GENERAL CONDITIONS, APPLY TO ALL AUTHORIZED PERMITS

### NOTIFICATION OF OTHER PERMITTEE OBLIGATIONS

<b>NATURAL RESOURCE PERMIT CONDITIONS - Apply to the Following Permits: EXCAVATION &amp; FILL IN NAVIGABLE WATERS; WATER QUALITY CERTIFICATION</b>
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**1. Conformance With Plans** All activities authorized by this permit must be in strict conformance with the approved plans submitted by the applicant or applicant's agent as part of the permit application. Such approved plans were prepared by ARCADIS Of New York, Inc. (See details in following condition.).

**2. Conformance with Plans (continued)** All work must be completed in accordance with the following approved plans:

- Remedial Design, prepared by Arcadis of New York, LLC, dated October 2007 (cover letter from James Morgan, National Grid, dated October 19, 2007.)
- Letter from James Morgan, National Grid, dated September 10, 2007 to Christine Delorier, US Army Corps of Engineers regarding Former Fire Training Area at the School Street Hydroelectric Station.

### PRE-CONSTRUCTION REQUIREMENTS

**3. Management of Dredge Spoils** All dredged material shall be disposed of in accordance with the Final Remedial Design, referenced in Paragraph 1 and 2 (Conformance with plans) and approved by the Department on October 22, 2007.

**4. Notification of the Commencement of Work** The permittee shall submit a Notice of Intent to Commence Work to Christopher Hogan and Allan Geisendorfer via e-mail (cmhogan@gw.dec.state.ny.us and angeisen@gw.dec.state.ny.us) at least 72 hours in advance of the time of commencement of work and shall also provide e-mail notification of the completion of work.

### DREDGING

**5. Environmental Bucket** Dredging shall be conducted using a closed environmental bucket in conjunction with the installation of turbidity barriers. Dredging equipment shall be operated in a manner that minimizes the in-stream resuspension of sediments. Dredging operations shall not cause an increase in turbidity that results in a substantial visible contrast to natural conditions or the deposition of sediment outside the limits of the installed turbidity barriers.

**6. Surface Water Monitoring** Surface water monitoring of turbidity shall be conducted to confirm the effectiveness of the turbidity barriers. In-water monitoring of turbidity shall be conducted at least 100 feet upstream and 500 feet downstream of the dredging operation, hourly. Dredging activities will be modified (slowed or halted) or other engineering controls will be implemented if the downstream turbidity exceeds the upstream turbidity by 10 NTU. NYSDEC shall be notified via e-mail



(cmhogan@gw.dec.state.ny.us) that dredging was slowed or halted, which specific adjustments were made and when dredging activities were resumed.

**7. Water Column Sampling** Two water column samples for TSS and PCB will be collected daily during sediment removal. Depth integrated samples shall be collected at multiple locations at least 100 feet upstream of the dredging and/or outside of the dredge plume. Upstream samples shall combined as a composite. Depth integrated samples shall be collected at multiple locations approximately 500 feet downstream of the dredging. Downstream samples shall be combined as a composite.

**8. PCB Analysis** PCB analysis shall be conducted using EPA Method 508. The detection/reporting limit for PCB analysis shall be 65 ppt. or less. All laboratory analyses required by this permit must be conducted by a laboratory certified by the New York State Department of Health Environmental Laboratory Approval Program (ELAP) .

**9. Water Column Sample Data Review - Halting Dredging** When downstream turbidity exceeds upstream turbidity by more than 10 NTU, samples shall be collected for PCB analysis four times per day until the downstream turbidity no longer exceeds the upstream turbidity by more than 10 NTU. The first two samples collected will be analyzed for PCB concentration and the rest of the samples shall be archived. If PCB concentrations exceed 90 ppt in the first two samples, then archived samples will be analyzed. Water column samples shall be analyzed on a 24 hour turnaround basis or as quickly as can be achieved by the certified laboratory. Un-verified sample results shall be reported to DEC as soon as the information is available from the laboratory.

**10. City of Cohoes Water Intake** If, for any reason, the water supply intake for the City of Cohoes cannot be kept closed during the dredging, then dredging shall be halted. Prior to the resumption of dredging, the applicant shall coordinate with the Maureen Schuck of the NYSDOH.

**11. Precautions Against Contamination of Waters** All necessary precautions shall be taken to preclude contamination of any wetland or waterway by suspended solids, sediments, fuels, solvents, lubricants, epoxy coatings, paints, concrete, leachate or any other environmentally deleterious materials associated with the project.

**12. State May Require Site Restoration** If upon the expiration or revocation of this permit, the project hereby authorized has not been completed, the applicant shall, without expense to the State, and to such extent and in such time and manner as the Department of Environmental Conservation may require, remove all or any portion of the uncompleted structure or fill and restore the site to its former condition. No claim shall be made against the State of New York on account of any such removal or alteration.

**13. State May Order Removal or Alteration of Work** If future operations by the State of New York require an alteration in the position of the structure or work herein authorized, or if, in the opinion of the Department of Environmental Conservation it shall cause unreasonable obstruction to the free navigation of said waters or flood flows or endanger the health, safety or welfare of the people of the State, or cause loss or destruction of the natural resources of the State, the owner may be ordered by the Department to remove or alter the structural work, obstructions, or hazards caused thereby without expense to the State, and if, upon the expiration or revocation of this permit, the structure, fill, excavation, or other modification of the watercourse hereby authorized shall not be completed, the owners, shall, without expense to the State, and to such extent and in such time and manner as the Department of Environmental Conservation may require, remove all or any portion of the uncompleted structure or fill and restore to its former condition the navigable and flood capacity of the watercourse. No claim shall



be made against the State of New York on account of any such removal or alteration.

**14. No Interference With Navigation** There shall be no unreasonable interference with navigation by the work herein authorized.

**15. State Not Liable for Damage** The State of New York shall in no case be liable for any damage or injury to the structure or work herein authorized which may be caused by or result from future operations undertaken by the State for the conservation or improvement of navigation, or for other purposes, and no claim or right to compensation shall accrue from any such damage.

#### **POST-CONSTRUCTION REQUIREMENTS**

**16. Remedial Action Summary Report** The Remedial Action Summary Report required by the Consent Order and described in the approved Final Remedial Design shall be provided to the Department within 60 days of completion of the remedial activities. Copies of the report shall be provided to Allan Geisendorfer, NYSDEC - Region 4, Division of Environmental Remediation and Christopher Hogan, NYSDEC - Central Office, Division of Environmental Permits. Reports can be provided via e-mail if electronic copies of the complete are available.

### **WATER QUALITY CERTIFICATION SPECIFIC CONDITIONS**

**1. Water Quality Certification** The NYS Department of Environmental Conservation hereby certifies that the subject project will not contravene effluent limitations or other limitations or standards under Sections 301, 302, 303, 306 and 307 of the Clean Water Act of 1977 (PL 95-217) provided that all of the conditions listed herein are met.

### **GENERAL CONDITIONS - Apply to ALL Authorized Permits:**

**1. Facility Inspection by The Department** The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71- 0301 and SAPA 401(3).

The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

**2. Relationship of this Permit to Other Department Orders and Determinations** Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

**3. Applications For Permit Renewals, Modifications or Transfers** The permittee must submit a separate written application to the Department for permit renewal, modification or transfer of this



permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing. Submission of applications for permit renewal, modification or transfer are to be submitted to:

Chief Permit Administrator  
NYSDEC HEADQUARTERS  
625 BROADWAY  
ALBANY, NY 12233

**4. Submission of Renewal Application** The permittee must submit a renewal application at least 30 days before permit expiration for the following permit authorizations: Excavation & Fill in Navigable Waters, Water Quality Certification.

**5. Permit Modifications, Suspensions and Revocations by the Department** The Department reserves the right to modify, suspend or revoke this permit. The grounds for modification, suspension or revocation include:

- a. materially false or inaccurate statements in the permit application or supporting papers;
- b. failure by the permittee to comply with any terms or conditions of the permit;
- c. exceeding the scope of the project as described in the permit application;
- d. newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;
- e. noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

**6. Permit Transfer** Permits are transferrable unless specifically prohibited by statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

#### **NOTIFICATION OF OTHER PERMITTEE OBLIGATIONS**

**Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification**

The permittee, excepting state or federal agencies, expressly agrees to indemnify and hold harmless the Department of Environmental Conservation of the State of New York, its representatives, employees, and agents ("DEC") for all claims, suits, actions, and damages, to the extent attributable to the permittee's acts or omissions in connection with the permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in compliance with the terms and conditions of the permit. This indemnification does not extend to any claims, suits, actions, or damages to the extent attributable to DEC's own negligent or intentional acts or omissions, or to any claims, suits, or actions naming the DEC and arising under Article 78 of the New York Civil Practice Laws and Rules or any citizen suit or civil rights provision under federal or state laws.

**Item B: Permittee's Contractors to Comply with Permit**



The permittee is responsible for informing its independent contractors, employees, agents and assigns of their responsibility to comply with this permit, including all special conditions while acting as the permittee's agent with respect to the permitted activities, and such persons shall be subject to the same sanctions for violations of the Environmental Conservation Law as those prescribed for the permittee.

**Item C: Permittee Responsible for Obtaining Other Required Permits**

The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-way that may be required to carry out the activities that are authorized by this permit.

**Item D: No Right to Trespass or Interfere with Riparian Rights**

This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.

ARCADIS

**Modification to Excavation and  
Fill Permit and Part 401 WQC**

January 28, 2008

**New York State Department of Environmental Conservation**  
**Division of Environmental Permits, 4<sup>th</sup> Floor**  
625 Broadway, Albany, New York 12233-1750  
**Phone:** (518) 402-9167 • **FAX:** (518) 402-9168  
**Website:** [www.dec.ny.gov](http://www.dec.ny.gov)



Alexander B. Grannis  
Commissioner

January 28, 2008

James F. Morgan  
Lead Senior Environmental Engineer  
National Grid  
Environmental Department  
300 Erie Boulevard West  
Syracuse, NY 13202

**RE: Modification: Excavation and Fill Permit (DEC#: 4-0126-00656) and Part 401: Water Quality Certificate (DEC#: 4-0126-00656/00001); Cohoes Fire Training Area.**

Dear Mr. Morgan:

Pursuant to 6 NYCRR Part 621 (Uniform Procedures) the Department hereby modifies the Excavation and Fill Permit and Part 401: Water Quality Certification for the above referenced project to allow the use of a conventional bucket instead of the environmental bucket specified by Special Condition #5 of the Certification. The modification is the result of an e-mail request by John Brussel, P.E., Arcadis, dated January 25, 2008. Mr. Brussel indicated in the request that due to the nature of the sediment in the nearshore area the environmental bucket is only able to remove less than .1 cubic yards of sediment in each excavation attempt. The conventional bucket will allow a more efficient means to excavate the contaminated sediment.

As indicated above the conventional bucket may be employed provided the following conditions are adhered to during the dredging;

- a) PCB analysis (USEPA Method 608) must be conducted with a 24 hour turnaround time and the Department must receive a copy of the laboratory results.
- b) Dredging with the conventional bucket must be conducted in a manner that minimizes the resuspension of sediment.
- c) If there is a violation of permit conditions, either the turbidity limit or the water quality standard for PCB, then dredging shall be halted and additional containment methods shall be employed.

Please contact Christopher Hogan at 518-402-9151 if you have any questions regarding the modification.

Sincerely,

A handwritten signature in black ink, appearing to read "John J. Ferguson", with a long horizontal flourish extending to the right.

John J. Ferguson  
Deputy Chief Permit Administrator

cc: R. Wingert  
J. Brussel  
C. O'Neil



**Appendix B**

Relevant Project Correspondence

**APPENDIX B  
SUMMARY OF RELEVANT PROJECT CORRESPONDENCE**

**REMEDIAL ACTION SUMMARY REPORT  
BROOKFIELD POWER, INC. (FORMER NATIONAL GRID)  
SCHOOL STREET HYDROELECTRIC STATION  
COHOES, NEW YORK**

<b>Date</b>	<b>Title of Correspondence</b>
8/7/07	Letter to the NYSDEC: RD/RA Pre-Construction Activities Work Plan
8/13/07	Letter from the NYSDEC: Approval of RD/RA Pre-Construction Activities Work Plan
9/27/07	Letter to the NYSDEC: RD/RA Pre-Construction Activities Summary Report
10/12/07	Letter from the NYSDEC: Acknowledgement of RD/RA Pre-Construction Activities Summary Report
10/22/07	Letter from the NYSDEC: Approval of the Remedial Design
11/6/07	E-mail correspondence to the NYSDEC & NYSDOH: Pre-construction meeting and remediation project schedule
11/9/07	Letter from the United States Army Corp of Engineers: 45-Day Response to Nationwide Permit verification request
11/13/07	E-mail correspondence to the NYSDEC: Pre-construction meeting schedule
11/26/07	E-mail correspondence to the NYSDEC: Notification of a change in flow conditions in the Mohawk River and need for Remedial Design Modification
12/7/07	E-mail correspondence & Letter to the NYSDEC/NYSDOH: Remedial Design Modification
12/12/07	Letter from the NYSDEC: Approval of Remedial Design Modification
12/18/07	E-mail correspondence to the NYSDEC: Notification of gate closure step test results and next steps
12/27/07	E-mail correspondence to the NYSDEC: Updated remediation project schedule
1/2/08	E-mail correspondence to the NYSDEC: Updated remediation project schedule
1/3/08	E-mail correspondence to the NYSDEC: Weather-related schedule delay
1/18/08	E-mail correspondence from the NYSDEC: Site visit during dredging
1/21/08	E-mail correspondence to the NYSDEC & NYSDOH: Weather-related delay to turbidity barrier/flow diversion structures deployment

7/16/2008

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**REMEDIAL ACTION SUMMARY REPORT  
BROOKFIELD POWER, INC. (FORMER NATIONAL GRID)  
SCHOOL STREET HYDROELECTRIC STATION  
COHOES, NEW YORK**

<b>Date</b>	<b>Title of Correspondence</b>
1/22/08	E-mail correspondence to the NYSDEC & NYSDOH: Progress update
1/25/08	E-mail correspondence to the NYSDEC: Request for approval to change to a conventional dredging bucket
1/25/08	E-mail correspondence to the NYSDEC, NYSDOH, & ACHD: Surface water analytical results for 1/23/08 monitoring event
1/25/08	E-mail correspondence to the NYSDOH: City of Cohoes intake gate closure, Preliminary PCB surface water analytical results for 1/24/08 monitoring event
1/28/08	E-mail correspondence to the NYSDEC: Progress update, difficulties with environmental dredging bucket
1/28/08	E-mail correspondence to the NYSDEC, NYSDOH, & ACHD: Surface water analytical results for 1/24/08 monitoring event
1/28/08	E-mail correspondence from the NYSDEC: 401 WQC Modification
1/28/08	E-mail correspondence to the NYSDEC, NYSDOH, & ACHD: Updated schedule for dredging
1/28/08	E-mail correspondence to the NYSDEC, NYSDOH, & ACHD: Surface water analytical results for 1/25/08 monitoring event
1/29/08	E-mail correspondence to the NYSDEC, NYSDOH, & ACHD: Success with conventional dredging bucket
1/30/08	E-mail correspondence to the NYSDEC, NYSDOH, & ACHD: Surface water analytical results for 1/29/08 monitoring event
1/31/08	E-mail correspondence to the NYSDEC, NYSDOH, & ACHD: Surface water analytical results for 1/30/08 monitoring event
2/1/08	E-mail correspondence to the NYSDEC, NYSDOH, & ACHD: Surface water analytical results for 1/31/08 monitoring event
2/4/08	E-mail correspondence to the NYSDEC, NYSDOH, & ACHD: Surface water analytical results for 2/1/08 (morning) monitoring event
2/5/08	E-mail correspondence to the NYSDEC, NYSDOH, & ACHD: Surface water analytical results for 2/1/08 (afternoon) through 2/4/08 monitoring events
2/6/08	E-mail correspondence to the NYSDEC, NYSDOH, & ACHD: Surface water analytical results for 2/5/08 monitoring event
2/7/08	E-mail correspondence to the NYSDEC, NYSDOH, & ACHD: Surface water analytical results for 2/6/08 monitoring event

7/16/2008

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SUMMARY OF RELEVANT PROJECT CORRESPONDENCE**

**REMEDIAL ACTION SUMMARY REPORT  
BROOKFIELD POWER, INC. (FORMER NATIONAL GRID)  
SCHOOL STREET HYDROELECTRIC STATION  
COHOES, NEW YORK**

<b>Date</b>	<b>Title of Correspondence</b>
2/8/08	E-mail correspondence to the NYSDEC, NYSDOH, & ACHD: Surface water analytical results for 2/7/08 monitoring event
3/19/08	E-mail correspondence to the NYSDEC: Project status update
5/29/08	E-mail correspondence to the NYSDEC: Project status update
7/9/08	E-mail correspondence to the NYSDEC: Project status update

7/16/2008

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ARCADIS

**8/7/2007**

**Letter to the NYSDEC**

RD/RA Pre-Construction Activities  
Work Plan

August 7, 2007

Mr. Allan Geisendorfer, P.E.  
Project Manager  
New York State Department of Environmental Conservation  
Region 4  
1130 North Westcott Road  
Schenectady, New York 12306

Re: Brookfield Power, Inc.  
(Former National Grid)  
School Street Hydroelectric Station  
Cohoes, New York  
NYSDEC Site No. 401044  
RD/RA Pre-Construction Activities

Dear Mr. Geisendorfer:

Pursuant to your July 24, 2007 telephone conference call with Mr. Ray Wingert, P.E. of Brookfield Power, Inc. (Brookfield) and Mr. John C. Brussel, P.E. of ARCADIS of New York, Inc. (ARCADIS BBL), this letter describes various remedial design/remedial action (RD/RA) activities to be performed on an expedited basis ("pre-construction activities") at the Brookfield Power, Inc. (former National Grid) School Street Hydroelectric Station in Cohoes, New York. The proposed pre-construction activities will be performed to support completion of the final remedy, the removal of approximately 100 cubic yards (CY) of impacted nearshore sediment within the Mohawk River east of the former fire training area, during October 2007.

The pre-construction activities will be performed concurrently with New York State Department of Environmental Conservation (NYSDEC) review of the RD Work Plan, which is scheduled to be submitted to the NYSDEC on or before August 17, 2007 (pending NYSDEC issuance of the Record of Decision [ROD] this week). Based on the results of the pre-construction activities, the proposed limits of sediment to be removed as part of the RA will be adjusted, as needed. The proposed pre-construction activities include:

- Performing pre-removal survey activities to provide various survey/control data needed for the RA;
- Implementing sediment probing and sampling to verify previous sediment conditions as required by the NYSDEC under Section 8 of the ROD; and
- Collecting in-situ waste characterization samples to evaluate disposal requirements for sediment to be removed during the RA.

Details of proposed pre-construction activities are presented below, followed by a discussion of the schedule for performing the expedited activities.

#### **Proposed Pre-Construction Work Activities**

The proposed pre-construction surveying, sediment probing, verification sediment sampling, and in-situ waste characterization sampling activities are discussed below.

### Proposed Surveying Activities

Survey activities to be performed as a pre-construction activity in the nearshore area include:

- Re-establishing the transect lines established during the Preliminary Site Assessment (PSA) and Remedial Investigation (RI). Flagged wooden stakes will be used to document the end-point of each transect along the shoreline;
- Field-identifying each location where pre-construction sediment probing and sampling will be performed, as discussed below. Coordinates derived from Figure 1 will be used to identify each location;
- Determine the sediment surface elevation at each sediment probing/sampling location. The locations and elevations will be recorded for later reference. Selected locations will serve as control points to be revisited following implementation of the RA to confirm that sediment is removed to the target depths; and
- Identify the boundaries of the proposed sediment removal area. The boundaries will be marked using stakes and/or anchored buoys, as appropriate.

The surveying activities will be performed using conventional land surveying techniques and/or high-end global positioning system (GPS) methods.

### Proposed Sediment Probing

Sediment probing will be performed to determine the sediment thickness at four re-visited sediment transect lines established during the PSA and RI, which each extend through the proposed removal area (sediment transect lines T-1 through T-4). Sediment probing will be also conducted along new transect lines to be established downstream and upstream of the proposed removal area (sediment transect lines T-0 and T-4A, respectively). Sediment probing will be completed along each transect at distances of approximately 8 feet, 15 feet, and 22 feet from the eastern shoreline. Field personnel will record the water depth, sediment depth, and sediment composition at each probing location. The transect lines and proposed probing locations are shown on Figure 1.

### Proposed Verification Sediment Sampling

Sediment core samples will be collected at each sediment probing location described above. In addition, sediment core samples will be collected at the upstream and downstream limits of the proposed removal area (at sampling locations V-US and V-DS, respectively). Core samples will be collected by driving 2- or 3-inch diameter Lexan<sup>®</sup> tubing into the sediment until refusal. Based on sediment probing conducted as part of the PSA, sediment depths within the proposed removal area range from approximately 0.2 feet to 2.7 feet. Each core will be segmented into various intervals, depending on sampling location, as described below.

- *Cores Obtained from Sampling Locations At or Outside the Horizontal Limits of the Proposed Sediment Removal Area:* Each of these cores will be segmented into a surface sample (0.0 to 0.5 feet) and one or more subsurface samples (e.g., 1.0 to 1.5 feet, 2.0 to 2.5 feet, etc.), depending on the sediment thickness at the sampling location. The surface sediment sample from each sampling location along the horizontal limits of the proposed sediment removal area (sampling locations V1-2, V2-2, V3-2, V4-2, V-US, and

V-DS, as shown on Figure 1) will be submitted for laboratory analysis for polychlorinated biphenyls (PCBs) using United States Environmental Protection Agency (USEPA) SW-846 Method 8082. The remaining surface and subsurface sediment samples from the locations at and outside the horizontal limits of the proposed sediment removal area will be submitted to the laboratory for extraction, followed by archive of the extract for potential future analysis (if needed, within allowable holding times).

- *Cores Obtained from Sampling Locations Within the Horizontal Limits of the Proposed Sediment Removal Area:* Each of these cores will be segmented into an upper interval, consistent with the interval of sediment to be removed (e.g., 0.0 to 1.0 feet or 0.0 to 1.5 feet, to be composited into a waste characterization sample as discussed below) and underlying 0.5 foot intervals (to be used for potential verification purposes, if needed). Based on the results of the previous sediment probing and considering the proposed sediment removal limits shown on Figure 1, bedrock would likely be exposed over most of the removal area following dredging, except around sampling location V4-1. Depending on the findings of the proposed sediment probing activities, sediment removal may be extended to the depth of bedrock throughout the entire dredging area. This would eliminate the need for vertical delineation sampling at selected locations within the removal area (such as at sampling location V4-1 where approximately 2 feet of sediment was previously encountered) and would potentially streamline implementation of the remedy. Accordingly, sediment core samples collected from the 0.5-foot interval directly below the proposed removal depth within the dredging area (such as at sampling location V4-1) will be submitted for laboratory analysis for PCBs, only if dredging will not extend to bedrock at each location.

Proposed sampling intervals and analyses are summarized in Table 1. As discussed during the July 24, 2007 telephone conference call, additional/verification sediment sampling further downstream from the nearshore area (within the power canal) is not proposed because sediment within the power canal will be completely removed in 2008 as part of construction activities to deepen the canal by up to 5 feet. The material generated by the construction activities will be managed by Brookfield pursuant to the 401 Water Quality Certification issued by the NYSDEC on October 10, 2006.

#### Proposed In-Situ Waste Characterization Sampling

In-situ waste characterization sampling will be performed to evaluate disposal requirements for the nearshore sediment to be removed during the RA. One composite sample will be formed from the sediment recovered at each proposed sediment probing/core sampling location within the proposed removal area (using the portion of sediment recovered to the proposed removal depth), including locations V1-1, V2-1, V3-1, and V4-1, as shown on Figure 1. The composite sample will be submitted for laboratory analysis for PCBs, Toxicity Characteristic Leaching Procedure (TCLP) volatile organic compounds (VOCs), TCLP semi-volatile organic compounds (SVOCs), TCLP metals, ignitability, corrosivity, and reactivity using the USEPA methods identified in the table below.

Analytical Parameters	Analytical Method
PCBs	USEPA SW-846 Method 8082
TCLP VOCs	USEPA SW-846 Method 1311/8260
TCLP SVOCs	USEPA SW-846 Method 1311/8270
TCLP Metals	USEPA SW-846 Method 1311/6010/7470
Ignitability	USEPA SW-846 Method 1020A
Corrosivity	USEPA SW-846 Method 9040B
Reactivity	USEPA SW-846 Method 7.3.3.2 and 7.3.4.2

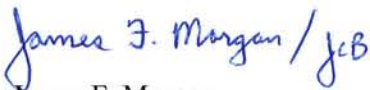


**Schedule**

The pre-construction activities are currently scheduled for the week of August 13, 2007. Samples will be submitted for laboratory analysis on an expedited turnaround with preliminary results due the week of August 20, 2007. This will allow time for analysis of archived samples, if necessary, within allowable holding times (and without impacting the anticipated start of sediment removal activities in October). Analytical results will be tabulated and provided to the NYSDEC two weeks after receipt of the final analytical results (including results of archived samples which are subsequently analyzed, if any).

If you have any questions or require additional information, please feel free to contact me at (315) 428-3101.

Sincerely,

Handwritten signature of James F. Morgan in blue ink, with the initials 'JFB' at the end.

James F. Morgan  
Lead Senior Environmental Engineer

cc: Ray Wingert, P.E., Brookfield Power, Inc.  
Ken Kemp, P.E., Brookfield Power, Inc.  
Thomas Uncher, Brookfield Power, Inc.  
Michael C. Jones, ARCADIS BBL  
John C. Brussel, P.E., ARCADIS BBL

**TABLE 1  
PROPOSED SEDIMENT SAMPLING PLAN**

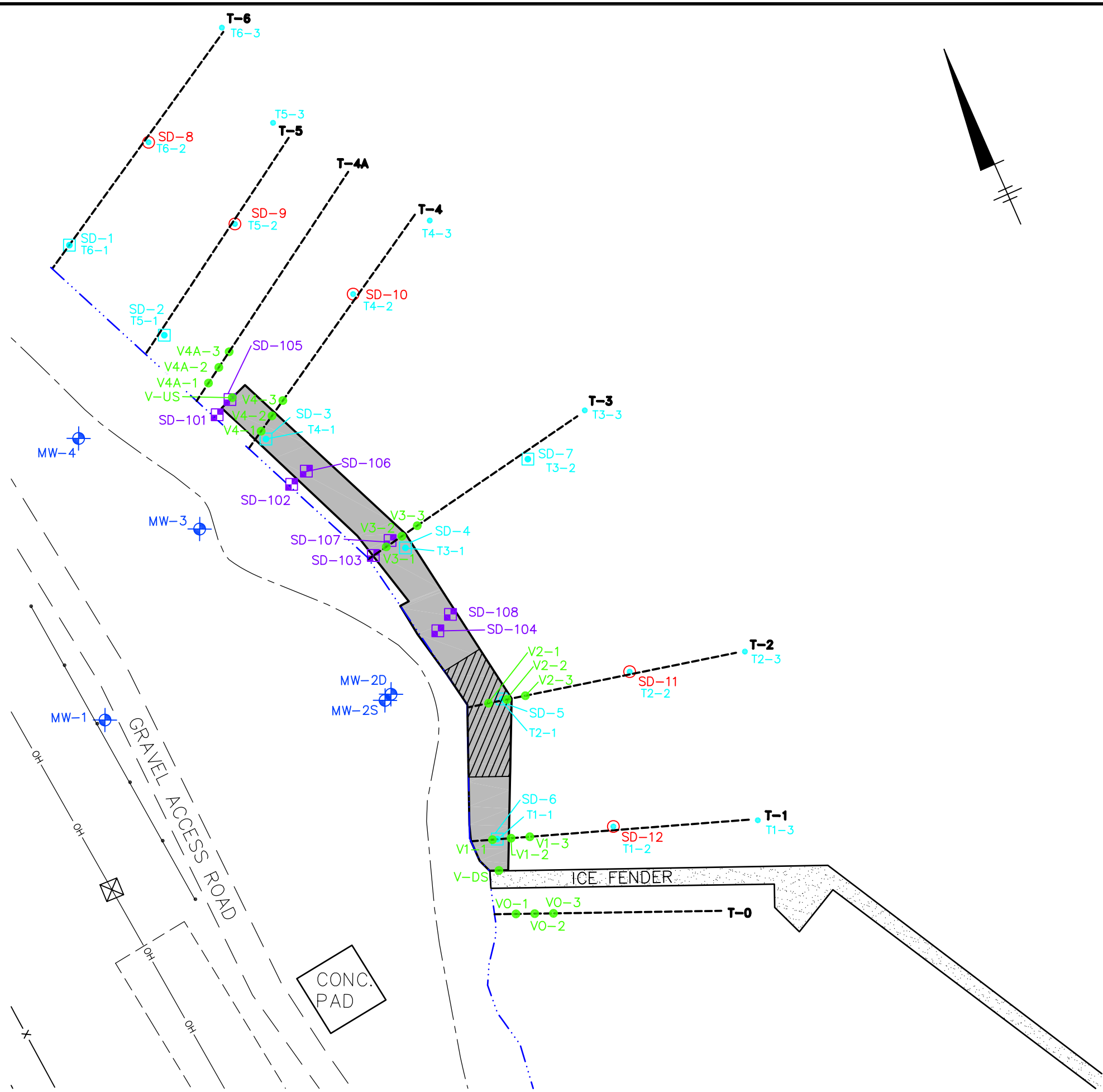
**PRE-REMOVAL VERIFICATION SEDIMENT SAMPLING  
BROOKFIELD POWER, INC. (FORMER NATIONAL GRID)  
SCHOOL STREET HYDROELECTRIC STATION  
COHOES, NEW YORK**

Sampling Location	Approximate Distance from Shoreline	Nearby Previous Sampling Location	Approximate Previous Total Sediment Depth	Maximum Previous PCB Analytical Result (ppm)	Sampling Interval			
					(0-0.5')	(0.5-1.0')	(1.0-1.5')	(2.0-2.5')
V-US	8'	SD-105	2.7'	<0.04 (2.2-2.7')	PCBs	NA	Archive	Archive
V-DS	8'	NA	NA	NA	PCBs	NA	Archive	Archive
Transect 0								
V0-1	8'	NA	NA	NA	Archive	NA	Archive	Archive
V0-2	15'	NA	NA	NA	Archive	NA	Archive	Archive
V0-3	22'	NA	NA	NA	Archive	NA	Archive	Archive
Transect 1								
V1-1	8'	SD-6	0.7'	1.6 (0-0.7')	Waste Characterization*		Bedrock	
V1-2	15'	NA	NA	NA	PCBs	NA		
V1-3	22'	NA	NA	NA	Archive	NA		
Transect 2								
V2-1	8'	SD-5	1.5'	1.9 (0-0.5')	Waste Characterization*			Bedrock
V2-2	15'	NA	NA	NA	PCBs	NA	Archive	
V2-3	22'	NA	NA	NA	Archive	NA	Archive	
Transect 3								
V3-1	8'	SD-107	0.2'	6.1 (0-0.5')	Waste Characterization*		Bedrock	
V3-2	15'	SD-4	1.0'	3.0 (0-0.5')	PCBs	NA		
V3-3	22'	NA	NA	NA	Archive	NA		
Transect 4								
V4-1	8'	SD-3	2.0'	7.3 (0-0.5')	Waste Characterization*		PCBs	Bedrock
V4-2	15'	NA	NA	NA	PCBs	NA	Archive	
V4-3	22'	NA	NA	NA	Archive	NA	Archive	
Transect 4A								
V4A-1	8'	NA	NA	NA	Archive	NA	Archive	Archive
V4A-2	15'	NA	NA	NA	Archive	NA	Archive	Archive
V4A-3	22'	NA	NA	NA	Archive	NA	Archive	Archive

**Notes:**

1. PCBs = Sample will be submitted to TestAmerica of Shelton, Connecticut for analysis for polychlorinated biphenyls (PCBs) using United States Environmental Protection Agency (USEPA) SW-846 Method 8082.
2. Archive = Sample will be submitted to TestAmerica for extraction and then archive of the sample extract (for potential future analysis, if needed).
3. Waste Characterization\* = Discrete samples from each of these locations (four locations total) will be composited into one in-situ waste characterization sample and submitted to TestAmerica for analysis for the following:
  - PCBs using USEPA SW-846 Method 8082;
  - Toxicity Characteristic Leaching Procedure (TCLP) volatile organic compounds (VOCs) using USEPA SW-846 Method 1311/8260;
  - TCLP semi-volatile organic compounds (SVOCs) using USEPA SW-846 Method 1311/8270;
  - TCLP Metals using USEPA SW-846 Method 1311/6010/7471;
  - Ignitability using USEPA SW-846 Method 1010;
  - Corrosivity using USEPA SW-846 Method 9045C;
  - Reactive Cyanide using USEPA SW-846 Method 7.3.3; and
  - Reactive Sulfide using USEPA SW-846 Method 7.3.4.
4. Bedrock = Sediment was not encountered at this depth during previous probing activities and sediment is not expected to be encountered at this depth during this probing/sampling event.
5. NA = Not applicable.

SYR-85-RCB KLS WLU L: ON=\*, OFF=REF  
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XREFS: 36643X01  
36643X00  
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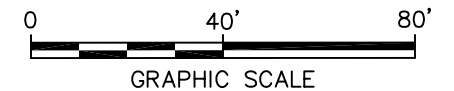



#### LEGEND:

- VO-1 ● PROPOSED PRE-DREDGING VERIFICATION SAMPLING LOCATION
- T-2----- SEDIMENT TRANSECT LINE
- SD-101■ EXISTING IRM SEDIMENT SAMPLING LOCATION (9/02)
- SD-8 ○ EXISTING RI/FS SURFACE SEDIMENT AND SEDIMENT CORE SAMPLING LOCATION (10/00 & 12/00)
- SD-6 □ EXISTING PSA SURFACE SEDIMENT AND SEDIMENT CORE SAMPLING LOCATION (11/99)
- MW-3 ⊕ EXISTING MONITORING WELL LOCATION
- PROPOSED EXTENT OF SEDIMENT REMOVAL TO A DEPTH OF 1 FOOT
- ▨ PROPOSED LIMITS OF SEDIMENT REMOVAL TO A DEPTH OF 1.5 FEET
- SHORELINE
- TOP OF BANK
- x—x— FENCE
- OH— OVERHEAD HIGH VOLTAGE ELECTRIC LINE

#### NOTES:

1. BASE MAP DEVELOPED FROM SITE SURVEY COMPLETED BY NIAGARA MOHAWK, A NATIONAL GRID COMPANY (NIAGARA MOHAWK) (AS PRESENTED ON THE NIAGARA MOHAWK DRAWING ENTITLED "SCHOOL STREET DEVELOPMENT SAMPLING LOCATIONS, INDEX NO. 2.0-S12-M5, DRAWING NO. B-33591-E, DATED APRIL 1999, LATEST REVISION MARCH 2001, AT A SCALE OF 1"=60'). LOCATION OF ICE FENDER, TOP OF BANK, AND HIGH VOLTAGE LINE ARE FROM SURVEY ACTIVITIES COMPLETED BY BLASLAND, BOUCK & LEE, INC. (BBL) DURING NOVEMBER 1999.
2. MONITORING WELL LOCATIONS MW-1 THROUGH MW-3 WERE SURVEYED BY NIAGARA MOHAWK. MONITORING WELL LOCATION MW-4, WAS SURVEYED BY BBL.
3. SEDIMENT SAMPLING LOCATIONS ARE BASED ON FIELD MEASUREMENTS AND ARE APPROXIMATE.



BROOKFIELD POWER FORMER NATIONAL GRID SCHOOL ST. HYDROELECTRIC STATION - COHOES, NY PRE-MOBILIZATION ACTIVITIES	
<b>PROPOSED PRE-DREDGING VERIFICATION SAMPLING LOCATIONS</b>	
	FIGURE <b>1</b>

ARCADIS

**8/13/2007**

**Letter from the NYSDEC**

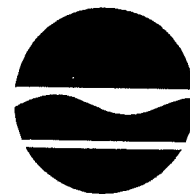
Approval of RD/RA Pre-  
Construction Activities Work Plan

**27New York State Department of Environmental Conservation  
Office of Environmental Quality, Region 4**

1130 North Westcott Road, Schenectady, New York 12306-2014

Phone: (518) 357-2045 • FAX: (518) 357-2398

Website: www.dec.ny.gov



Alexander B. Grannis  
Commissioner

August 13, 2007

James T. Morgan  
Lead Senior Environmental Engineer  
National Grid  
Environmental Department  
300 Erie Boulevard West  
Syracuse, NY 13202

**Re: Site #401044  
School Street  
Former Fire Training Facility  
Cohoes (C), Albany County**

Dear Jim:

I'm pleased to notify you that the ROD has been approved. Thanks to John Brussel and you for your efforts in this project. Formal distribution will follow shortly.

I've reviewed the RD/RA Pre-construction work plan dated 8/7/2007. This work plan is designed to confirm the presence and any redistribution of the PCB sediment prior to removal. The work plan includes reverification of the previously identified area as well as transects upstream and downstream of this area. The work plan also indicates that sediment removal may be performed to bedrock in most of this area. The work plan is approved. Field work is anticipated to begin on Tuesday, August 14, 2007.

Sincerely,

Allan N. Geisendorfer, P.E.  
Regional Spill Engineer  
Region IV

AG:lg\Letter.Nationalgrid.081307.wpd.

cc: John Brussel, Arcadis ✓  
Honorable John McDonald, Mayor, City of Cohoes  
M. Schuck, NYSDOH  
R. Groves, NYSDOH

ecc: Chris O'Neill/Dan Lightsey, DEC  
E. Belmore, DEC  
R. Cozzy, DEC

ARCADIS

**9/27/2007**

**Letter to the NYSDEC**

RD/RA Pre-Construction Activities  
Summary Report

September 27, 2007

Mr. Allan Geisendorfer, P.E.  
Project Manager  
New York State Department of Environmental Conservation  
Region 4  
1130 North Westcott Road  
Schenectady, New York 12306

Re: Brookfield Power, Inc.  
(Former National Grid)  
School Street Hydroelectric Station  
Cohoes, New York  
NYSDEC Site No. 401044  
RD/RA Pre-Construction Activities Summary

Dear Mr. Geisendorfer:

This letter summarizes the results obtained for expedited remedial design/remedial action (RD/RA) activities ("pre-construction activities") recently performed at the Brookfield Power, Inc. (former National Grid) School Street Hydroelectric Station in Cohoes, New York (the "Site"). The pre-construction activities were implemented by ARCADIS of New York, Inc. (ARCADIS BBL) during the week of August 13, 2007. The activities were performed to support completion of the final remedy, the removal of approximately 100 cubic yards (CY) of certain nearshore sediment within the Mohawk River east of the former fire training area, during October 2007. The pre-construction activities included:

- Performing pre-removal survey activities to provide various survey/control data needed for the RA;
- Implementing sediment probing and sampling to verify previous sediment conditions as required by the New York State Department of Environmental Conservation (NYSDEC) under Section 8 of the Record of Decision (ROD) for the Site; and
- Collecting in-situ waste characterization samples to evaluate disposal requirements for sediment to be removed during the RA.

The pre-construction activities were performed in accordance with the work plan contained in a letter from National Grid to the New York State Department of Environmental Conservation (NYSDEC) dated August 7, 2007 (the "Work Plan"). NYSDEC approval of the Work Plan was provided in a letter dated August 13, 2007.

Based on the results of the pre-construction activities as summarized in this letter, no changes are needed to the sediment removal limits proposed in the Remedial Design, which was submitted to the NYSDEC on August 29, 2007.

Work performed as part of the pre-construction activities is summarized below, followed by the results of the activities.

## **PRE-CONSTRUCTION ACTIVITIES**

Work performed as part of the pre-construction activities, including surveying, sediment probing, verification sediment sampling, and in-situ waste characterization sampling, is summarized below.

### **Surveying**

Surveying activities performed as a pre-construction activity in the nearshore area included:

- Re-establishing the transect lines established during the Preliminary Site Assessment (PSA) and Remedial Investigation (RI). Flagged wooden stakes were used to document the end-point of each transect along the shoreline;
- Field-identifying each pre-construction sediment probing and sampling location using survey field equipment and coordinates obtained from the map included in the Work Plan;
- Determining the sediment surface elevation at each sediment probing/sampling location. The locations and elevations were recorded for reference during the planned sediment removal activities. Selected locations will serve as control points to be revisited following implementation of the RA to confirm that sediment is removed to the target depths; and
- Identifying and staking the boundaries of the proposed sediment removal area.

The surveying activities were performed using conventional land surveying techniques.

### **Sediment Probing**

Sediment probing was performed to determine the sediment thickness along four re-visited sediment transect lines established during the PSA and RI, which each extend through the proposed removal area (sediment transect lines T-1 through T-4, as shown on Figure 1). Sediment probing was also performed to determine the sediment thickness along new transect lines established downstream and upstream of the proposed removal area (sediment transect lines T-0 and T-4A, respectively – also shown on Figure 1).

Sediment probing was completed on or near each transect line at distances of approximately 8 feet, 15 feet, and 22 feet from the eastern shoreline. The sediment probing locations along transect T-1 were moved slightly off the transect line (upstream) because floating woody debris prevented access along the line. Probing at each location was performed using a 0.5-inch diameter hollow steel rod equipped with an end cap. The water depth and sediment depth measured at each probing location were documented in the field notebook.

### **Verification Sediment Sampling**

Sediment core samples were collected at each sediment probing location where measurable sediment was identified. In addition, a sediment core sample was collected at the upstream limit of the proposed removal area, at sampling location V-US. Sample collection was attempted at sampling location V-DS (as proposed in the Work Plan); however, floating woody debris (including large tree trunks, branches, etc.), which was trapped on the upstream side of the ice fender, prevented access to the river bottom in the vicinity of sampling location V-DS.



At each location (except V0-1 and V3-1), core samples were collected by driving 2-inch diameter Lexan<sup>®</sup> tubing into the sediment until refusal. At locations V0-1 and V3-1 (where only 0.2 to 0.3 feet of sediment was encountered and could not be recovered using the Lexan<sup>®</sup> tubing), a stainless steel hand auger was used for sample collection. Each sediment core was visually characterized and segmented into various intervals, depending on sampling location, as described below.

- *Cores Obtained from Sampling Locations At or Outside the Horizontal Limits of the Proposed Sediment Removal Area:* Each of these cores was segmented into a surface sample (from 0.0 feet to up to 0.5 feet) and one or more subsurface samples (e.g., 1.0 to 1.5 feet, 2.0 to 3.0 feet, etc.), depending on the sediment thickness at the sampling location. The surface sediment sample from each sampling location along the horizontal limits of the proposed sediment removal area (sampling locations V1-2, V2-2, V3-2, V4-2, and V-US, as shown on Figure 1) was submitted for laboratory analysis for polychlorinated biphenyls (PCBs) using United States Environmental Protection Agency (USEPA) SW-846 Method 8082 and for total organic carbon (TOC) using the Lloyd Kahn method. The remaining surface and subsurface sediment samples from the locations at and outside the horizontal limits of the proposed sediment removal area were submitted to the laboratory for PCB extraction, followed by archive of the extract for potential future analysis (if needed, within allowable holding times).
- *Cores Obtained from Sampling Locations Within the Horizontal Limits of the Proposed Sediment Removal Area:* Each of these cores was segmented into an interval consistent with the interval of sediment to be removed at the sample location as part of the upcoming RA. The sediment from each location was later composited into a waste characterization sample, as discussed below. At one location (location V4-1), where the thickness of sediment encountered was greater than the proposed removal depth, a sample from the 0.5 foot interval below the proposed removal depth (i.e., from 1 foot below the sediment surface to the depth of the underlying bedrock at 1.5 feet below the sediment surface) was submitted to the laboratory for PCB extraction, followed by archive of the extract. The sample extract was later analyzed for PCBs to provide data for verification purposes in the event that sediment removal in the vicinity of sampling location V4-1 is not extended to bedrock.

An analytical sample summary, which identifies the analyses performed on each verification sediment sample, is included in Table 1.

### **In-Situ Waste Characterization Sampling**

In-situ waste characterization sampling was performed to evaluate disposal requirements for the nearshore sediment to be removed during the RA. One composite sample (sample SED-WC-1) was formed using sediment recovered at each sampling location within the proposed sediment removal area (using only the portion of the sediment recovered to the proposed removal depth at each location). Sediment from locations V1-1 (0-0.8'), V2-1 (0-0.5'), V3-1 (0-0.2'), and V4-1 (0-1') was used to form the composite sample.

The composite sample was submitted for laboratory analysis for PCBs and toxicity characteristics [Toxicity Characteristic Leaching Procedure (TCLP) volatile organic compounds (VOCs), TCLP semi-volatile organic compounds (SVOCs), TCLP metals, ignitability, corrosivity, and reactivity] using the USEPA methods identified in the table below.

<b>Analytical Parameters</b>	<b>Analytical Method</b>
PCBs	USEPA SW-846 Method 8082
TCLP VOCs	USEPA SW-846 Method 1311/8260
TCLP SVOCs	USEPA SW-846 Method 1311/8270
TCLP Metals	USEPA SW-846 Method 1311/6010/7470
Ignitability	USEPA SW-846 Method 1020A
Corrosivity	USEPA SW-846 Method 9040B
Reactivity	USEPA SW-846 Method 7.3.3.2 and 7.3.4.2

## **PRE-CONSTRUCTION SEDIMENT SAMPLING RESULTS**

The results of the August 2007 pre-construction field activities, including results obtained for the sediment probing/visual characterization and analytical results obtained for the laboratory analysis of the verification and waste characterization sediment samples, are summarized below.

### **Sediment Probing and Visual Characterization Results**

Results obtained for sediment probing activities performed in the nearshore area during August 2007 are summarized in Table 2. Visual characterization information for each sediment sample collected during August 2007 is presented in Table 3.

The results obtained for the August 2007 sediment probing appear to be generally consistent with the results obtained for the PSA and RI sediment probing performed 7 to 8 years earlier (in 1999 and 2000). There continues to be approximately 0.2 feet to >3 feet of sediment (overlying shale bedrock) approximately 15 feet from the shoreline, and lesser amounts of sediment closer to the shoreline. Sediment depths from the PSA/RI and the August 2007 sampling events are compared in Table 4 (refer to the depth information in the 4<sup>th</sup> and 7<sup>th</sup> columns).

Visual characterization of the sediment samples recovered in August 2007 indicates that sediment in the nearshore area continues to be a mix of sand, silt, and gravel. However, more organic material was encountered at Transect T-1 during August 2007 than during the PSA or RI (related to the accumulated of woody material trapped by the ice fender).

### **Sediment Analytical Results**

Analytical results obtained from the laboratory analysis of the verification sediment samples for PCBs and total organic carbon (TOC) are presented in Tables 4 and 5, respectively. Analytical results for the waste characterization sediment sample for PCBs, TCLP VOCs, TCLP SVOCs, TCLP metals, ignitability, corrosivity, and reactivity are presented in Table 6. The laboratory analytical data report (Form 1 results) are included in Attachment A. The verification and waste characterization sediment analytical results are summarized below.

#### **Verification Sediment Analytical Results**

PCBs were not detected above laboratory detection limits in three of the six verification sediment samples collected approximately 15 feet from the shoreline (i.e., at the horizontal limits of the proposed sediment removal area). PCB concentrations identified in the remaining three verification sediment samples collected approximately 15 feet from the shoreline were 0.14 parts per million (ppm) (at location V2-2), 0.15 ppm (at

location V-US), and 0.5 ppm (at location V3-2). The PCB concentrations identified at these locations are consistent with the expected background concentration range for the area. TOC concentrations in the verification sediment samples ranged from 15,700 ppm to 73,100 ppm.

Based on the PCB sediment analytical results for the samples collected 15 feet from the shoreline, analysis of the archived sediment samples collected further from the shoreline was not performed.

#### Waste Characterization Sediment Analytical Results

PCBs were detected in the composite waste characterization sediment sample collected from within the limits of the proposed sediment removal area at a concentration of 0.25 ppm. This concentration is lower than the concentrations identified for the individual samples collected from this area as part of previous sampling activities, but is not unexpected given the sample compositing that was performed.

Based on the analytical results obtained from the laboratory analysis of the waste characterization sediment sample for toxicity characteristics, the nearshore sediment to be removed as part of the RA does not exhibit any characteristics of a Resource Conservation and Recovery Act (RCRA) hazardous waste.

#### SUMMARY AND CONCLUSION

Based on the results of the pre-construction verification sediment sampling activities as summarized above, existing conditions in the nearshore area are generally consistent with those documented during the previous investigations. Accordingly, no changes to the sediment removal limits proposed in the Remedial Design are needed. In addition, based on the results of the in-situ waste characterization sampling as summarized above, the sediment to be removed as part of the upcoming remedial activities will be manifested for offsite disposal as a non-hazardous waste.

In accordance with the Remedial Design, the verification sediment analytical results will be validated and included in the Remedial Action Summary Report to be prepared following completion of the sediment removal activities.

Please feel free to call the undersigned at (315) 428-3101 or Mr. John C. Brussel, P.E. of ARCADIS BBL if you have any questions or require additional information.

Sincerely,

Handwritten signature of James F. Morgan in blue ink, with the initials 'MSH' written at the end.

James F. Morgan  
Lead Senior Environmental Engineer

cc: Ray Wingert, P.E., Brookfield Power, Inc.  
Ken Kemp, P.E., Brookfield Power, Inc.  
Thomas Uncher, Brookfield Power, Inc.  
Michael C. Jones, ARCADIS BBL  
John C. Brussel, P.E., ARCADIS BBL

## Tables

**TABLE 1  
ANALYTICAL SAMPLE SUMMARY**

**PRE-CONSTRUCTION NEARSHORE SEDIMENT SAMPLING  
BROOKFIELD POWER, INC.  
(FORMER NATIONAL GRID)  
SCHOOL STREET HYDROELECTRIC STATION  
COHOES, NEW YORK**

Sample ID	Sample Interval	Date Sampled	SDG#	Analyses		
				PCBs	TOC	RCRA Waste Characteristics
Pre-Construction Verification Sediment Samples						
V0-1 (0-0.3)	0-0.3'	8/16/07	--	H	H	--
V1-2 (0-0.5)	0-0.5'	8/16/07	K084	✓	✓	--
V1-2 (1-1.5)	1-1.5'	8/16/07	--	H	H	--
V1-3 (0-0.5)	0-0.5'	8/16/07	--	H	H	--
V2-2 (0-0.5)	0-0.5'	8/16/07	K084	✓	✓	--
V2-3 (0-0.5)	0-0.5'	8/16/07	--	H	H	--
V3-2 (0-0.5)	0-0.5'	8/16/07	K084	✓	✓	--
V3-3 (0-0.5)	0-0.5'	8/15/07	--	H	H	--
V3-3 (1-1.5)	1-1.5'	8/15/07	--	H	H	--
V4-1 (1-1.5)	1-1.5'	8/15/07	K084	H/✓	H/✓	--
V4-2 (0-0.5)	1-1.5'	8/15/07	K084	✓	✓	--
DUP-1 [V4-2 (0-0.5)]	0-0.5'	8/15/07	K084	✓	✓	--
V4-3 (0-0.5)	0-0.5'	8/15/07	--	H	H	--
V4-3 (1-1.5)	1-1.5'	8/15/07	--	H	H	--
V4A-1 (0-0.5)	0-0.5'	8/15/07	--	H	H	--
V4A-1 (1-1.5)	1-1.5'	8/15/07	--	H	H	--
V4A-1 (2-3)	2-3'	8/15/07	--	H	H	--
V4A-1 (3-3.8)	3-3.8'	8/15/07	--	H	H	--
V4A-2 (0-0.5)	0-0.5'	8/15/07	--	H	H	--
V4A-2 (1-1.5)	1-1.5'	8/15/07	--	H	H	--
V4A-2 (2-3)	2-3'	8/15/07	--	H	H	--
V4A-2 (3-3.9)	3-3.9'	8/15/07	--	H	H	--
V4A-3 (0-0.5)	0-0.5'	8/15/07	--	H	H	--
V4A-3 (1-1.5)	1-1.5'	8/15/07	--	H	H	--
V-US (0-0.5)	0-0.5'	8/15/07	K084	✓	✓	--
V-US (1-1.5)	1-1.5'	8/15/07	--	H	H	--
V-US (2-3)	2-3'	8/15/07	--	H	H	--
V-US (3-4)	3-4'	8/15/07	--	H	H	--
Pre-Construction In-situ Waste Characterization Sample						
SED-WC-1	See Note 3	8/16/07	K084	✓	--	✓

**Notes:**

- Samples collected by ARCADIS BBL on the dates indicated.
- Sample designations indicate the following:
  - V = Verification sediment sample.
  - WC = Waste characterization sediment sample.
  - DUP = Blind field duplicate sample.
- The pre-construction in-situ waste characterization sample was a composite formed from sediment collect at four discrete sampling locations, including V1-1 (0-0.8), V2-1(0-0.5), V3-1 (0-0.2), and V4-1 (0-1).
- SDG = Sample Delivery Group.
- Sample analysis was performed by TestAmerica of Edison, New Jersey using methods identified below, which are referenced in the New York State Department of Environmental Conservation (NYSDEC) 2005 Analytical Services Protocol (ASP).
  - Verification sediment samples were analyzed for:
    - PCBs = Polychlorinated biphenyls using United States Environmental Protection Agency (USEPA) SW-846 Method 8082.
    - TOC = Total organic carbon using the Lloyd Kahn method.
  - The waste characterization sample was analyzed for PCBs (USEPA SW-846 Method 8082) and Resource Conservation and Recovery Act (RCRA) Waste Characteristics, as follows:
    - Toxicity Characteristic Leaching Procedure (TCLP) volatile organic compounds (VOCs) using USEPA SW-846 Method 1311/8260.
    - TCLP semi-volatile organic compounds (SVOCs) using USEPA SW-846 Method 1311/8270.
    - TCLP metals using USEPA SW-846 Method 1311/6010/7470.
    - Ignitability using USEPA SW-846 Method 1010.
    - Corrosivity using USEPA SW-846 Method 9045C.
    - Reactive cyanide using USEPA SW-846 Method 7.3.3.
    - Reactive sulfide using USEPA SW-846 Method 7.3.4.
- A check-mark ( ✓ ) indicates analysis was performed on the sample.
- H = Indicates the sample was held for possible analysis.

**TABLE 2  
VERIFICATION SEDIMENT PROBING RESULTS**

**PRE-CONSTRUCTION NEARSHORE SEDIMENT SAMPLING  
BROOKFIELD POWER, INC.  
(FORMER NATIONAL GRID)  
SCHOOL STREET HYDROELECTRIC STATION  
COHOES, NEW YORK**

<b>Transect/Location</b>	<b>Water Depth (feet)</b>	<b>Sediment Depth (feet)</b>
<b>Transect T0</b>		
V0-1	5.5	0.3-1.0
V0-2	7.5	0.2
V0-3	8.3	0.2
<b>Transect T1</b>		
V1-1	2.0	2.0
V1-2	3.0	1.3
V1-3	5.3	0.9
<b>Transect T2</b>		
V2-1	2.6	2.2
V2-2	4.7	1.6
V2-3	6.4	1.5
<b>Transect T3</b>		
V3-1	1.0	0.1
V3-2	2.9	0.2
V3-3	5.0	0.6
<b>Transect T4</b>		
V4-1	1.2	2.1
V4-2	2.9	3.0
V4-3	5.6	2.6
<b>Transect T4A</b>		
V4A-1	0.4	5.1
V-US*	1.1	6.4
V4A-2	1.7	6.0
V4A-3	4.8	3.3

**Notes:**

1. Pre-construction sediment probing was conducted by ARCADIS BBL during August 2007
2. Sediment probing locations were accessed by boat or wading
3. Sediment probing was conducted using a 0.5-inch diameter hollow steel rod equipped with an end cap
4. Sediment probing locations were surveyed by ARCADIS BBL.
5. \* V-US is located at the proposed upstream limit of the sediment removal approximately 10 feet from the shoreline and 10 feet downstream from Transect 4A.

**TABLE 3**  
**SEDIMENT SAMPLE VISUAL CHARACTERIZATION RESULTS**  
**PRE-CONSTRUCTION NEARSHORE SEDIMENT SAMPLING**  
**BROOKFIELD POWER, INC.**  
**(FORMER NATIONAL GRID)**  
**SCHOOL STREET HYDROELECTRIC STATION**  
**COHOES, NEW YORK**

Sample ID/ Depth Interval	Description
<b>V0-1</b>	
0-0.3'	Gray-brown fine-to-coarse GRAVEL & ORGANICS (twigs, vegetation, water chestnuts), trace silt and fine sand (collected with hand auger)
<b>V1-1</b>	
0-0.8'	Dark gray-brown, ORGANICS (twigs-wood-water chestnuts-shells), little Silt, trace fine sand
<b>V1-2</b>	
0.0-0.5'	Dark gray-brown, ORGANICS (shells-water chestnuts-twigs-wood-vegetation)
0.5-1.0'	Same as above
1.0-1.5'	Dark gray-brown, very loose SILT and ORGANICS (twigs-wood-vegetation)
<b>V1-3</b>	
0.0-0.5'	Dark gray-brown, ORGANICS (twigs-wood-water chestnuts-shells), little Silt, trace fine sand
<b>V2-1</b>	
0.0-0.5'	Dark gray-brown, silty fine-to-medium GRAVEL, little fine Sand, trace organics (wood-vegetation-zebra muscles)
<b>V2-2</b>	
0.0-0.5'	Dark gray-brown, fine-to-medium GRAVEL, little Sand and Silt, trace organics (vegetation)
<b>V2-3</b>	
0.0-0.5'	Dark gray-brown, silty fine SAND, little fine-to-medium Gravel and Organics (wood-vegetation-zebra muscles)
<b>V3-1</b>	
0.0-0.2	Dark gray-brown, fine-to-medium GRAVEL, little Silt and fine Sand (collected with hand auger)
<b>V3-2</b>	
0.0-0.5'	Dark gray-brown, fine-to-medium GRAVEL, little Silt and fine Sand, and little organics (zebra muscles and vegetation)
<b>V3-3</b>	
0.0-0.5'	Dark gray-brown, fine-to-medium GRAVEL, little fine Sand and organics (zebra muscles and vegetation)
0.5-1.0'	Same as above
1.0-1.5'	Dark gray-brown, fine-to-medium GRAVEL, trace fine sand and silt
<b>V4-1</b>	
0.0-1.0'	Dark gray-brown, fine SAND, trace silt and organics (shells)
1.0-1.5'	Dark gray-brown, fine SAND, little Silt, trace fine-to-medium gravel
<b>V4-2</b>	
0.0-0.5'	Dark gray-brown, loose SILT, trace fine sand
0.5-1.0'	Same as above
1.0-1.5'	Dark gray-brown, silty fine SAND, little Organics (wood)
<b>V4-3</b>	
0.0-0.5'	Dark gray-brown, loose SILT, trace very fine sand and organics (shells and twigs)
0.5-1.0'	Same as above
1.0-1.5'	Dark gray-brown, fine SAND, little Silt, trace organics (shells)
<b>V-US</b>	
0.0-0.5'	Dark gray-brown, sandy SILT, trace organics (shells)
0.5-1.0'	Same as above
1.0-1.5'	Dark gray-brown, silty fine SAND, trace organics (shells and twigs)
1.5-2.0'	Same as above
2.0-3.0	Dark gray-brown, silty fine SAND, trace fine gravel, trace organics (shells and twigs)
3.0-4.0'	Dark gray-brown, silty fine SAND, trace fine gravel

**TABLE 3**  
**SEDIMENT SAMPLE VISUAL CHARACTERIZATION RESULTS**  
**PRE-CONSTRUCTION NEARSHORE SEDIMENT SAMPLING**  
**BROOKFIELD POWER, INC.**  
**(FORMER NATIONAL GRID)**  
**SCHOOL STREET HYDROELECTRIC STATION**  
**COHOES, NEW YORK**

Sample ID/ Depth Interval	Description
<b>V4A-1</b>	
0.0-0.5'	Dark gray-brown, silty fine SAND, trace fine-to-medium gravel.
0.5-1.0'	Same as above
1.0-1.5'	Same as above
1.5-2.0'	Same as above
2.0-3.0'	Dark gray-brown, silty fine SAND, trace fine gravel, trace organics (shells)
3.0-3.75'	Same as above
<b>V4A-2</b>	
0.0-0.5	Dark gray-brown, silty fine SAND, trace organics (wood-shells)
0.5-1.0'	Same as above
1.0-1.5'	Dark gray-brown, fine SAND, little Silt, trace organics (shells)
1.5-2.0'	Same as above
2.0-3.0'	Dark gray-brown, silty fine SAND, trace organics (shells)
3.0-3.9'	Same as above
<b>V4A-3</b>	
0.0-0.5'	Dark gray-brown, loose SILT, trace very fine sand and organics (twigs)
0.5-1.0'	Same as above
1.0-1.5'	Dark gray-brown, silty fine SAND, trace organics (twigs-vegetation)

**Notes:**

1. Pre-construction sediment probing was conducted by ARCADIS BBL during August 2007.
2. Samples were collected by driving 2-inch diameter Lexan tubing through the sediment until refusal, except where noted.



**TABLE 4**  
**NEARSHORE VERIFICATION SEDIMENT ANALYTICAL RESULTS FOR PCBs (ppm)**

**PRE-CONSTRUCTION NEARSHORE SEDIMENT SAMPLING**  
**BROOKFIELD POWER, INC.**  
**(FORMER NATIONAL GRID)**  
**SCHOOL STREET HYDROELECTRIC STATION**  
**COHOES, NEW YORK**

Sampling Location	Approximate Distance from Shoreline	Nearby Previous Sampling Location	Approximate Previous Total Sediment Depth	Maximum Previous PCB Analytical Result (ppm) & Corresponding Depth	Approximate New Total Sediment Depth Based on:		New PCB Analytical Results (ppm)					
					Coring Depth	Sample Recovery	(0-0.5')	(0.5-1.0')	(1.0-1.5')	(2.0-3.0')	(3.0-4.0')	
V-US	8'	SD-105	2.7'	<0.04 (2.2-2.7')	6.0'	4.0'	0.15	--	Archive	Archive	Archive	
V-DS	8'	NA	NA	NA	Obstructed		Accumulated floating woody debris prevented sample collection					
Transect 0												
V0-1	8'	NA	NA	NA	0.3'	0.3'	Archive	Bedrock				
V0-2	15'	NA	NA	NA	0.0'	0.0'						
V0-3	22'	NA	NA	NA	0.0'	0.0'						
Transect 1												
V1-1	8'	SD-6	0.7'	1.6 (0-0.7')	2.0'	1.0'	Waste Characterization*		Bedrock			
V1-2	15'	NA	NA	NA	2.0'	1.8'	<0.21	--				Archive
V1-3	22'	NA	NA	NA	0.9'	0.8'	Archive	--				
Transect 2												
V2-1	8'	SD-5	1.5'	1.9 (0-0.5')	1.0'	0.7'	Waste Character-ization*	Bedrock				
V2-2	15'	NA	NA	NA	1.6'	1.0'	0.14					--
V2-3	22'	NA	NA	NA	1.0'	0.8'	Archive					--
Transect 3												
V3-1	8'	SD-107	0.2'	6.1 (0-0.5')	0.2'	0.2'	Waste Character-ization*	Bedrock				
V3-2	15'	SD-4	1.0'	3.0 (0-0.5')	0.7'	0.6'	0.5					--
V3-3	22'	NA	NA	NA	1.6'	1.2'	Archive					--
Transect 4												
V4-1	8'	SD-3	2.0'	7.3 (0-0.5')	2.3'	1.8'	Waste Characterization*		<0.093	Bedrock		
V4-2	15'	NA	NA	NA	2.0'	1.9'	<0.11 [<0.1]	--	Archive			
V4-3	22'	NA	NA	NA	2.1'	1.8'	Archive	--	Archive			
Transect 4A												
V4A-1	8'	NA	NA	NA	4.9'	3.7'	Archive	--	Archive	Archive	Archive	
V4A-2	15'	NA	NA	NA	5.7'	4.0'	Archive	--	Archive	Archive	Archive	
V4A-3	22'	NA	NA	NA	3.3'	2.2'	Archive	--	Archive	Bedrock		

**TABLE 4**  
**NEARSHORE VERIFICATION SEDIMENT ANALYTICAL RESULTS FOR PCBs (ppm)**

**PRE-CONSTRUCTION NEARSHORE SEDIMENT SAMPLING**  
**BROOKFIELD POWER, INC.**  
**(FORMER NATIONAL GRID)**  
**SCHOOL STREET HYDROELECTRIC STATION**  
**COHOES, NEW YORK**

**Notes:**

1. All sediment samples were collected by ARCADIS BBL.
2. Previous sampling locations are from the sediment sampling performed as part of the Preliminary Site Assessment (PSA) in 1999 or the interim remedial measure (IRM) performed in 2002.
3. The approximate previous total sediment depth is based on sample recovery at the PSA and IRM sediment sampling locations.
4. Laboratory analysis for polychlorinated biphenyls (PCBs) was performed using United States Environmental Protection Agency (USEPA) SW-846 Method 8082.
5. PCB analytical results are reported in parts per million (ppm), which is equivalent to milligrams per kilogram (mg/kg).
6. Aroclor 1260 was the only Aroclor detected in the above-identified PSA, IRM, and pre-construction PCB sediment samples.
7. < = No Aroclors were identified above the reported laboratory detection limit.
8. All reported depths are in feet.
9. Duplicate PCB sample result (for sample V4-1 (1.0-1.5') is shown in brackets [ ].
10. **Bedrock** = Sediment was not encountered at this depth during this probing/sampling event.
11. **Archive** = Sample was submitted to TestAmerica for extraction and then archive of the sample extract (for potential future analysis, if needed).
12. \* - Pre-construction in-situ waste characterization sample was composited from four discrete sediment sampling locations: V1-1 (0-0.5), V2-1(0-0.5), V3-1 (0-0.2), and analyzed for PCBs, Toxicity Characteristic Leaching Procedure (TCLP) volatile organic compounds (VOCs), TCLP semi-volatile organic compounds (SVOCs), TCLP metals, ignitability, corrosivity, and reactivity (**refer to Table 6 for waste characterization analytical results**).
13. -- = No sample collected.

**TABLE 5**  
**NEARSHORE VERIFICATION SEDIMENT ANALYTICAL RESULTS FOR TOC (ppm)**

**PRE-CONSTRUCTION NEARSHORE SEDIMENT SAMPLING**  
**BROOKFIELD POWER, INC.**  
**(FORMER NATIONAL GRID)**  
**SCHOOL STREET HYDROELECTRIC STATION**  
**COHOES, NEW YORK**

<b>Sampling Location</b>	<b>TOC Concentration (ppm)</b>
V1-2 (0-0.5)	73,100
V2-2 (0-0.5)	25,800
V3-2 (0-0.5)	15,900
V4-1 (1-1.5)	15,700
V4-2 (0-0.5)	23,900
DUP-1 [V4-2 (0-0.5)]	24,700
V-US (0-0.5)	21,200

**Notes:**

1. Sediment samples were collected by ARCADIS BBL during August 2007.
2. Samples were analyzed by TestAmerica of Edison, New Jersey for total organic carbon (TOC) using the Lloyd Kahn method.
3. Results are reported in parts per million (ppm), which is equivalent to milligrams per kilogram (mg/kg).

**TABLE 6**  
**NEARSHORE SEDIMENT WASTE CHARACTERIZATION ANALYTICAL RESULTS**

**PRE-CONSTRUCTION NEARSHORE SEDIMENT SAMPLING**  
**BROOKFIELD POWER, INC.**  
**(FORMER NATIONAL GRID)**  
**SCHOOL STREET HYDROELECTRIC STATION**  
**COHOES, NEW YORK**

Constituent	Regulatory Level for Hazardous Waste	SED-WC-1
<b>PCBs (ppm)</b>		
PCBs	50	0.26
<b>TCLP VOCs (ppm)</b>		
1,1-Dichloroethene	0.7	<0.002
1,2-Dichloroethane	0.5	<0.002
2-Butanone	200	<0.005
Benzene	0.5	<0.001
Carbon Tetrachloride	0.5	<0.002
Chlorobenzene	100	<0.005
Chloroform	6.0	<0.005
Tetrachloroethene	0.7	<0.001
Trichloroethene	0.5	<0.001
Vinyl Chloride	0.2	<0.005
<b>TCLP SVOCs (ppm)</b>		
1,4-Dichlorobenzene	7.5	<0.04
2-Methylphenol (o-Cresol)	200.0	<0.04
2,4-Dinitrotoluene	0.13	<0.008
2,4,5-Trichlorophenol	400	<0.04
2,4,6-Trichlorophenol	2.0	<0.04
3- & 4-Methylphenol (m- & p-Cresol)	200.0	<0.04
Hexachlorobenzene	0.13	<0.004
Hexachlorobutadiene	0.5	<0.008
Hexachloroethane	3.0	<0.004
Nitrobenzene	2.0	<0.004
Pentachlorophenol	100	<0.12
Pyridine	5.0	<0.04
<b>TCLP Metals (ppm)</b>		
Arsenic	5.0	<0.016
Barium	100	0.61 B
Cadmium	1.0	<0.002
Chromium	5.0	<0.008
Lead	5.0	0.02 B
Mercury	0.2	<0.0001
Selenium	1.0	<0.021
Silver	5.0	<0.007
<b>Other Hazardous Waste Characteristic Information</b>		
Corrosivity (S.U.)	*	7.89
Ignitability	NEG	NEG
Reactivity Cyanide (ppm)	**	< 25
Reactivity Sulfide (ppm)	**	< 20

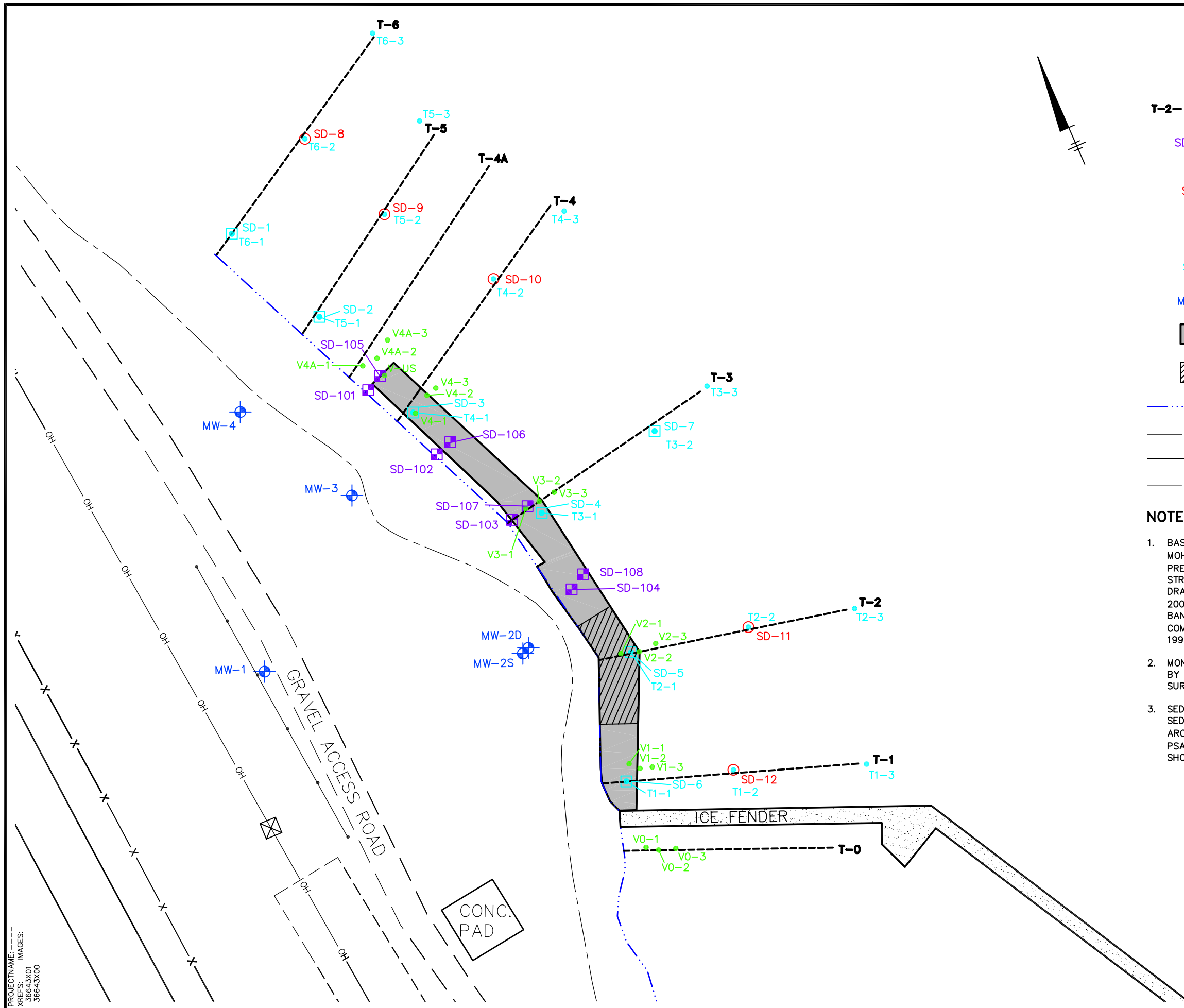
**TABLE 6**  
**NEARSHORE SEDIMENT WASTE CHARACTERIZATION ANALYTICAL RESULTS**

**PRE-CONSTRUCTION NEARSHORE SEDIMENT SAMPLING**  
**BROOKFIELD POWER, INC.**  
**(FORMER NATIONAL GRID)**  
**SCHOOL STREET HYDROELECTRIC STATION**  
**COHOES, NEW YORK**

**Notes:**

1. Sample SED-WC-1 was collected by ARCADIS BBL on August 16, 2007 and is a composite of sediment from four discrete sampling locations: V1-1 (0-0.5), V2-1(0-0.5), V3-1 (0-0.2), and V4-1 (0-1).
2. Sample was analyzed by TestAmerica of Edison, New Jersey for the following constituents using methods as referenced in the New York State Department of Environmental Conservation (NYSDEC) 2005 Analytical Services Protocol (ASP):
  - PCBs = Polychlorinated biphenyls using USEPA SW-846 Method 8082.
  - Toxicity Characteristic Leaching Procedure (TCLP) volatile organic compounds (VOCs) using USEPA SW-846 Method 1311/8260.
  - TCLP semi-volatile organic compounds (SVOCs) using USEPA SW-846 Method 1311/8270.
  - TCLP Metals using USEPA SW-846 Method 1311/6010/7470.
  - Ignitability using USEPA SW-846 Method 1010.
  - Corrosivity using USEPA SW-846 Method 9045C.
  - Reactive Cyanide using USEPA SW-846 Method 7.3.3.
  - Reactive Sulfide using USEPA SW-846 Method 7.3.4.
3. ppm = parts per million.
4. < = Constituent was not identified at a concentration exceeding the reported laboratory detection limit.
5. B = Reported value is less than the reporting limit but greater than the instrument detection limit.
6. \* = Sample is corrosive if pH is less than or equal to 2 or greater than or equal to 12.5 S.U.
7. NEG - Sample is not ignitable if it does not ignite at less than 140°F.
8. \*\* = Sample which does not exceed the USEPA action level of 250 mg cyanide/kg waste and/or 500 mg sulfide/kg waste in accordance with SW-846, is not reactive.
9. Regulatory levels for a toxicity characteristic are from 40 CFR Part 261.24 and 6 NYCRR Part 371.3.

**Figure**

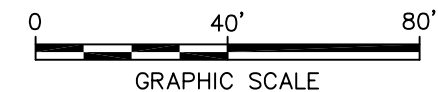


## LEGEND:

- VO-1 • PRE-DREDGING VERIFICATION SAMPLING/PROBING LOCATION
- T-2----- SEDIMENT TRANSECT LINE
- SD-101 ■ EXISTING IRM SEDIMENT SAMPLING LOCATION (9/02)
- SD-8 ○ EXISTING RI/FS SURFACE SEDIMENT AND SEDIMENT CORE SAMPLING LOCATION (10/00 & 12/00)
- T4-3 • SEDIMENT PROBING LOCATION (11/99)
- SD-6 ■ EXISTING PSA SURFACE SEDIMENT AND SEDIMENT CORE SAMPLING LOCATION (11/99)
- MW-3 • EXISTING MONITORING WELL LOCATION
- PROPOSED EXTENT OF SEDIMENT REMOVAL TO A DEPTH OF 1 FOOT
- ▨ PROPOSED LIMITS OF SEDIMENT REMOVAL TO A DEPTH OF 1.5 FEET
- SHORELINE
- TOP OF BANK
- X ----- FENCE
- OH ----- OVERHEAD HIGH VOLTAGE ELECTRIC LINE

## NOTES:

1. BASE MAP DEVELOPED FROM SITE SURVEY COMPLETED BY NIAGARA MOHAWK, A NATIONAL GRID COMPANY (NIAGARA MOHAWK) (AS PRESENTED ON THE NIAGARA MOHAWK DRAWING ENTITLED "SCHOOL STREET DEVELOPMENT SAMPLING LOCATIONS, INDEX NO. 2.0-S12-M5, DRAWING NO. B-33591-E, DATED APRIL 1999, LATEST REVISION MARCH 2001, AT A SCALE OF 1"=60'). LOCATION OF ICE FENDER, TOP OF BANK, AND HIGH VOLTAGE LINE ARE FROM SURVEY ACTIVITIES COMPLETED BY BLASLAND, BOUCK & LEE, INC. (BBL) DURING NOVEMBER 1999.
2. MONITORING WELL LOCATIONS MW-1 THROUGH MW-3 WERE SURVEYED BY NIAGARA MOHAWK. MONITORING WELL LOCATION MW-4, WAS SURVEYED BY BBL.
3. SEDIMENT PROBING LOCATIONS AND PRE-DREDGING VERIFICATION SEDIMENT SAMPLING LOCATIONS ARE BASED ON SURVEY PERFORMED BY ARCADIS BBL. THE PREVIOUS SEDIMENT SAMPLING LOCATIONS (FROM THE PSA, RI, AND IRM) ARE BASED ON DISTANCE MEASUREMENTS FROM THE SHORELINE AND ARE CONSIDERED APPROXIMATE.



BROOKFIELD POWER  
FORMER NATIONAL GRID  
SCHOOL ST. HYDROELECTRIC STATION - COHOES, NY  
PRE-MOBILIZATION ACTIVITIES

## PRE-DREDGING VERIFICATION SAMPLING/PROBING LOCATIONS



FIGURE  
**1**

**Attachment A**

Laboratory Analytical Data Report  
(Form 1 Results)



Client ID: V1-2 0-0.5  
Site: National Grid

Lab Sample ID: 854488  
Lab Job No: K084

Date Sampled: 08/16/07  
Date Received: 08/17/07  
Date Extracted: 08/18/07  
Date Analyzed: 08/20/07  
GC Front Column: StxCLP2  
GC Rear Column: StxCLP1  
Instrument ID: PESTGC9.i  
Front File ID: vf423286.d  
Rear File ID: vr423286.d

Matrix: SOIL  
Level: LOW  
Sample Weight: 15 g  
Extract Final Volume: 10.0 ml  
Dilution Factor: 1.0  
% Moisture: 68

ORGANOCHLORINE PCBs - GC/ECD  
METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u>	<u>Column</u>
			<u>Units: ug/kg</u>	
Aroclor-1016	ND		210	R
Aroclor-1221	ND		210	R
Aroclor-1232	ND		210	R
Aroclor-1242	ND		210	R
Aroclor-1248	ND		210	R
Aroclor-1254	ND		210	R
Aroclor-1260	ND		210	R
Aroclor-1262	ND		210	R
Aroclor-1268	ND		210	R

Client ID: V2-2 0-0.5  
Site: National Grid

Lab Sample ID: 854486  
Lab Job No: K084

Date Sampled: 08/16/07  
Date Received: 08/17/07  
Date Extracted: 08/18/07  
Date Analyzed: 08/20/07  
GC Front Column: StxCLP2  
GC Rear Column: StxCLP1  
Instrument ID: PESTGC9.i  
Front File ID: vf423284.d  
Rear File ID: vr423284.d

Matrix: SOIL  
Level: LOW  
Sample Weight: 15 g  
Extract Final Volume: 10.0 ml  
Dilution Factor: 1.0  
% Moisture: 30

ORGANOCHLORINE PCBs - GC/ECD  
METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	Units: ug/kg <u>(Dry Weight)</u>		Limit	
			Units: ug/kg	<u>Column</u>
Aroclor-1016		ND	95	R
Aroclor-1221		ND	95	R
Aroclor-1232		ND	95	R
Aroclor-1242		ND	95	R
Aroclor-1248		ND	95	R
Aroclor-1254		ND	95	R
Aroclor-1260	140	ND	95	R
Aroclor-1262		ND	95	R
Aroclor-1268		ND	95	R

Client ID: V3-2 0-0.5  
Site: National Grid

Lab Sample ID: 854479  
Lab Job No: K084

Date Sampled: 08/16/07  
Date Received: 08/17/07  
Date Extracted: 08/18/07  
Date Analyzed: 08/20/07  
GC Front Column: StxCLP2  
GC Rear Column: StxCLP1  
Instrument ID: PESTGC9.i  
Front File ID: vf423278.d  
Rear File ID: vr423278.d

Matrix: SOIL  
Level: LOW  
Sample Weight: 15 g  
Extract Final Volume: 10.0 ml  
Dilution Factor: 1.0  
% Moisture: 17

ORGANOCHLORINE PCBs - GC/ECD  
METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	Units: ug/kg (Dry Weight)		Limit Units: ug/kg	Column
Aroclor-1016	ND		81	R
Aroclor-1221	ND		81	R
Aroclor-1232	ND		81	R
Aroclor-1242	ND		81	R
Aroclor-1248	ND		81	R
Aroclor-1254	ND		81	R
Aroclor-1260	500		81	R
Aroclor-1262	ND		81	R
Aroclor-1268	ND		81	R

Client ID: V4-1 1-1.5  
Site: National Grid

Lab Sample ID: 854485  
Lab Job No: K084

Date Sampled: 08/15/07  
Date Received: 08/17/07  
Date Extracted: 08/18/07  
Date Analyzed: 08/20/07  
GC Front Column: StxCLP2  
GC Rear Column: StxCLP1  
Instrument ID: PESTGC9.i  
Front File ID: vf423269.d  
Rear File ID: vr423269.d

Matrix: SOIL  
Level: LOW  
Sample Weight: 15 g  
Extract Final Volume: 10.0 ml  
Dilution Factor: 1.0  
% Moisture: 28

ORGANOCHLORINE PCBs - GC/ECD  
METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u>	<u>Column</u>
			<u>Units: ug/kg</u>	
Aroclor-1016	ND		93	R
Aroclor-1221	ND		93	R
Aroclor-1232	ND		93	R
Aroclor-1242	ND		93	R
Aroclor-1248	ND		93	R
Aroclor-1254	ND		93	R
Aroclor-1260	ND		93	R
Aroclor-1262	ND		93	R
Aroclor-1268	ND		93	R

Client ID: V4-2\_0-0.5  
Site: National Grid

Lab Sample ID: 854480  
Lab Job No: K084

Date Sampled: 08/15/07  
Date Received: 08/17/07  
Date Extracted: 08/18/07  
Date Analyzed: 08/20/07  
GC Front Column: StxCLP2  
GC Rear Column: StxCLP1  
Instrument ID: PESTGC9.i  
Front File ID: vf423279.d  
Rear File ID: vr423279.d

Matrix: SOIL  
Level: LOW  
Sample Weight: 15 g  
Extract Final Volume: 10.0 ml  
Dilution Factor: 1.0  
% Moisture: 38

ORGANOCHLORINE PCBs - GC/ECD  
METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	Units: ug/kg (Dry Weight)	Limit	Units: ug/kg	Column
Aroclor-1016	ND	110		R
Aroclor-1221	ND	110		R
Aroclor-1232	ND	110		R
Aroclor-1242	ND	110		R
Aroclor-1248	ND	110		R
Aroclor-1254	ND	110		R
Aroclor-1260	ND	110		R
Aroclor-1262	ND	110		R
Aroclor-1268	ND	110		R

Client ID: DUP-1  
Site: National Grid

Lab Sample ID: 854482  
Lab Job No: K084

Date Sampled: 08/15/07  
Date Received: 08/17/07  
Date Extracted: 08/18/07  
Date Analyzed: 08/20/07  
GC Front Column: StxCLP2  
GC Rear Column: StxCLP1  
Instrument ID: PESTGC9.i  
Front File ID: vf423281.d  
Rear File ID: vr423281.d

Matrix: SOIL  
Level: LOW  
Sample Weight: 15 g  
Extract Final Volume: 10.0 ml  
Dilution Factor: 1.0  
% Moisture: 36

ORGANOCHLORINE PCBs - GC/ECD  
METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	Units: ug/kg (Dry Weight)		Limit	
			Units: ug/kg	Column
Aroclor-1016	ND		100	R
Aroclor-1221	ND		100	R
Aroclor-1232	ND		100	R
Aroclor-1242	ND		100	R
Aroclor-1248	ND		100	R
Aroclor-1254	ND		100	R
Aroclor-1260	ND		100	R
Aroclor-1262	ND		100	R
Aroclor-1268	ND		100	R

Client ID: V-US 0-0.5  
Site: National Grid

Lab Sample ID: 854474  
Lab Job No: K084

Date Sampled: 08/15/07  
Date Received: 08/17/07  
Date Extracted: 08/18/07  
Date Analyzed: 08/20/07  
GC Front Column: StxCLP2  
GC Rear Column: StxCLP1  
Instrument ID: PESTGC9.i  
Front File ID: vf423273.d  
Rear File ID: vr423273.d

Matrix: SOIL  
Level: LOW  
Sample Weight: 15 g  
Extract Final Volume: 10.0 ml  
Dilution Factor: 1.0  
% Moisture: 32

ORGANOCHLORINE PCBs - GC/ECD  
METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	Units: ug/kg (Dry Weight)		Limit	
			Units: ug/kg	Column
Aroclor-1016		ND	98	R
Aroclor-1221		ND	98	R
Aroclor-1232		ND	98	R
Aroclor-1242		ND	98	R
Aroclor-1248		ND	98	R
Aroclor-1254		ND	98	R
Aroclor-1260		ND	98	R
Aroclor-1262	150	ND	98	R
Aroclor-1268		ND	98	R

Site: National Grid

Matrix: SOIL

Lab Job No: K084

QA Batch: 3422

Total Organic Carbon

<u>STL Edison</u>	<u>Client ID</u>	<u>Date</u>	<u>Date</u>	<u>Percent</u>	<u>Dilution</u>	<u>Analytical</u>
<u>Sample #</u>		<u>Sampled</u>	<u>Analyzed</u>	<u>Moisture</u>	<u>Factor</u>	<u>Result</u>
						<u>Units: mg/kg</u>

854474	V-US_0-0.5	08/15/07	08/20/07	31.9	1.0	21200
854479	V3-2_0-0.5	08/16/07	08/20/07	17.2	1.0	15900
854480	V4-2_0-0.5	08/15/07	08/20/07	37.9	1.0	23900
854482	DUP-1	08/15/07	08/20/07	35.9	1.0	24700
854485	V4-1_1-1.5	08/15/07	08/20/07	27.8	1.0	15700
854486	V2-2_0-0.5	08/16/07	08/20/07	29.6	1.0	25800
854488	V1-2_0-0.5	08/16/07	08/20/07	67.6	1.0	73100

Quantitation Limit for Total Organic Carbon is 100 mg/kg.



Client ID: SED-WC-1  
Site: National Grid

Lab Sample ID: 854473  
Lab Job No: K084

Date Sampled: 08/16/07  
Date Received: 08/17/07  
Date Extracted: 08/18/07  
Date Analyzed: 08/20/07  
GC Front Column: StxCLP2  
GC Rear Column: StxCLP1  
Instrument ID: PESTGC9.i  
Front File ID: vf423272.d  
Rear File ID: vr423272.d

Matrix: SOIL  
Level: LOW  
Sample Weight: 15 g  
Extract Final Volume: 10.0 ml  
Dilution Factor: 1.0  
% Moisture: 31

ORGANOCHLORINE PCBs - GC/ECD  
METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	Units: ug/kg (Dry Weight)		Limit	
			Units: ug/kg	Column
Aroclor-1016		ND	97	R
Aroclor-1221		ND	97	R
Aroclor-1232		ND	97	R
Aroclor-1242		ND	97	R
Aroclor-1248		ND	97	R
Aroclor-1254		ND	97	R
Aroclor-1260		ND	97	R
Aroclor-1262	260	97	97	R
Aroclor-1268		ND	97	R
		ND	97	R

Client ID: SED-WC-1  
Site: National Grid

Lab Sample No: 854473  
Lab Job No: K084

Date Sampled: 08/16/07  
Date Received: 08/17/07  
Date Prepped: 08/21/07  
Date Analyzed: 08/22/07  
Lab File ID: b49226.d

Leachate Volume: 5.0 ml  
Dilution Factor: 1.0  
GC Column: Rtx-VMS  
Instrument ID: VOAMS2.i

**TOXICITY CHARACTERISTIC LEACHING PROCEDURE**

**VOLATILE ORGANICS - GC/MS**

<u>Parameter</u>	<u>Analytical Result Units: mg/l</u>	<u>Regulatory Level Units: mg/l</u>	<u>Quantitation Limit Units: mg/l</u>
Vinyl Chloride	ND	0.2	0.0050
1,1-Dichloroethene	ND	0.7	0.0020
Chloroform	ND	6.0	0.0050
1,2-Dichloroethane	ND	0.5	0.0020
Methyl Ethyl Ketone	ND	200	0.0050
Carbon Tetrachloride	ND	0.5	0.0020
Trichloroethene	ND	0.5	0.0010
Benzene	ND	0.5	0.0010
Tetrachloroethene	ND	0.7	0.0010
Chlorobenzene	ND	100	0.0050

Client ID: SED-WC-1  
Site: National Grid

Lab Sample No: 854473  
Lab Job No: K084

Date Sampled: 08/16/07  
Date Received: 08/17/07  
Date Prepped: 08/21/07  
Date Extacted: 08/24/07  
Date Analyzed: 08/25/07  
Lab File ID: s29510.d

Leachate Volume: 250.0 ml  
Extract Final Volume: 2.0 ml  
Dilution Factor: 1.0  
GC Column: DB-5  
Instrument ID: BNAMS2.i

### TOXICITY CHARACTERISTIC LEACHING PROCEDURE

#### EXTRACTABLE ORGANICS

<u>Parameter</u>	<u>Analytical Result Units: mg/l</u>	<u>Regulatory Level Units: mg/l</u>	<u>Quantitation Limit Units: mg/l</u>
o-Cresol	ND	200 (a)	0.040
m&p-Cresol	ND	200 (a)	0.040
2,4,6-Trichlorophenol	ND	2.0	0.040
2,4,5-Trichlorophenol	ND	400	0.040
Pentachlorophenol	ND	100	0.12
1,4-Dichlorobenzene	ND	7.5	0.040
Hexachloroethane	ND	3.0	0.0040
Nitrobenzene	ND	2.0	0.0040
Hexachlorobutadiene	ND	0.5	0.0080
2,4-Dinitrotoluene	ND	0.13	0.0080
Hexachlorobenzene	ND	0.13	0.0040
Pyridine	ND	5.0	0.040

- (a) If o-, m-, and p-cresol concentrations cannot be differentiated, the total cresol concentration is used.  
The regulatory level of total cresol is 200 mg/l.

Client ID: SED-WC-1  
Site: National Grid

Lab Sample No: 854473  
Lab Job No: K084

Date Sampled: 08/16/07  
Date Received: 08/17/07

Matrix: LEACHATE  
Level: LOW

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

METALS ANALYSIS

<u>Analyte</u>	<u>Analytical Result Units: mg/l</u>	<u>Regulatory Level Units: mg/l</u>	<u>Instrument Detection Limit</u>	<u>Qual</u>	<u>M</u>
Arsenic	ND	5.0	0.016		P
Barium	0.61	100.0	0.0085	B	P
Cadmium	ND	1.0	0.0020		P
Chromium	ND	5.0	0.0080		P
Lead	0.02	5.0	0.013	B	P
Mercury	ND	0.2	0.00010		CV
Selenium	ND	1.0	0.021		P
Silver	ND	5.0	0.0070		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)  
M Column - Method Code (See Section 2 of Report)

Site: National Grid  
Matrix: SOIL

Lab Job No: K084  
QA Batch: 3262

Corrosivity (pH)

<u>STL Edison</u> <u>Sample #</u>	<u>Client ID</u>	<u>Date</u> <u>Sampled</u>	<u>Date</u> <u>Analyzed</u>	<u>Analytical</u> <u>Result</u> <u>Units: std</u> <u>units</u>
854473	SED-WC-1	08/16/07	08/22/07	7.89

Site: National Grid  
Matrix: SOIL

Lab Job No: K084  
QA Batch: 2068

Ignitability

<u>STL Edison</u> <u>Sample #</u>	<u>Client ID</u>	<u>Date</u> <u>Sampled</u>	<u>Date</u> <u>Analyzed</u>	<u>Analytical</u> <u>Result</u>
854473	SED-WC-1	08/16/07	08/24/07	Non-Igni

Site: National Grid  
Matrix: SOIL

Lab Job No: K084  
QA Batch: 1965

Reactive Cyanide

<u>STL Edison</u>	<u>Client ID</u>	<u>Date</u>	<u>Date</u>	<u>Date</u>	<u>Dilution</u>	<u>Analytical</u>
<u>Sample #</u>		<u>Sampled</u>	<u>Extracted</u>	<u>Analyzed</u>	<u>Factor</u>	<u>Result</u>
						<u>Units: mg/kg</u>

854473	SED-WC-1	08/16/07	08/22/07	08/22/07	2.0	ND
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Quantitation Limit for Reactive Cyanide is 25.0 mg/kg for an undiluted sample.

Site: National Grid  
Matrix: SOIL

Lab Job No: K084  
QA Batch: 1970

Reactive Sulfide

<u>STL Edison</u>	<u>Client ID</u>	<u>Date</u>	<u>Date</u>	<u>Date</u>	<u>Dilution</u>	<u>Analytical</u>
<u>Sample #</u>		<u>Sampled</u>	<u>Extracted</u>	<u>Analyzed</u>	<u>Factor</u>	<u>Result</u>
						<u>Units: mg/kg</u>

854473	SED-WC-1	08/16/07	08/22/07	08/22/07	2.0	ND
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Quantitation Limit for Reactive Sulfide is 20.0 mg/kg for an undiluted sample.



ARCADIS

**10/12/2007**

**Letter from the NYSDEC**

Acknowledgement of RD/RA Pre-  
Construction Activities Summary  
Report

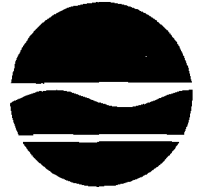
# New York State Department of Environmental Conservation

## Office of Environmental Quality, Region 4

1130 North Westcott Road, Schenectady, New York 12306-2014

Phone: (518) 357-2045 • FAX: (518) 357-2398

Website: [www.dec.ny.gov](http://www.dec.ny.gov)



Alexander B. Grannis  
Commissioner

October 12, 2007

James F. Morgan  
Lead Senior Environmental Engineer  
National Grid  
300 Erie Boulevard West  
Syracuse, NY 13202

Re: **Site #401044**  
**School Street Hydroelectric Station**  
**RD/RA Pre-Construction**  
**Activities Summary**  
**Cohoes (V), Albany County**

Dear Mr. Morgan:

The Department has reviewed the RD/RA Pre-Construction Activities Summary Report prepared by Arcadis BBL for the referenced site. This report contains the results of sediment sampling conducted to evaluate current sediment conditions.

The results of the investigation indicate that the location of contaminated sediment is stable.

I would like to see the sample obtained from VO-1 analyzed. Additional analyses may be requested following review of the Remedial Design (RD). The RD contains the final dimensions of sediment removal.

Sincerely,

Allan N. Geisendorfer, P.E.  
Regional Spill Engineer  
Region IV

Ag:lg\Site #401044.Morganltr.101207.wpd.

cc: M. Schuck, NYSDOH  
R. Groves, ACHD  
R. Cozzy, DER  
J. Brussel, Arcadis BBL  
C. Hogan, DEC  
**R. Wingert, Brookfield Power**

ARCADIS

**10/22/2007**

**Letter from the NYSDEC**

Approval of the Remedial Design

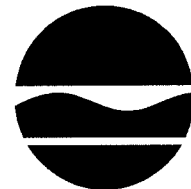
# New York State Department of Environmental Conservation

## Office of Environmental Quality, Region 4

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Website: www.dec.ny.gov



Alexander B. Grannis  
Commissioner

October 22, 2007

James T. Morgan  
Lead Senior Environmental Engineer  
National Grid  
Environmental Department  
300 Erie Boulevard West  
Syracuse, NY 13202

**Site: #401044**  
**School Street Former Fire Training**  
**Facility**  
**Colonie (T), Albany**

Dear Mr. Morgan:

Department of Health (NYSDOH) and Department of Environmental Conservation (NYSDEC) staff have reviewed the Remedial Design prepared by Arcadis BBL for the referenced project. The report is dated October 2007. The report is hereby approved. Please notify the Department three days prior to the start of field work.

Sincerely,

Allan N. Geisendorfer, P.E.  
Regional Spill Engineer  
Region IV

AG:lg\Site#404044.letter to JamesMorgan.wpd.

cc: Maureen Schuck - DOH  
Ray Wingert - Brookfield Power  
John Brussel - Arcadis ✓  
Ron Groves - ACHD  
Honorable John McDonald, Mayor - City of Cohoes

ecc: R. Cozzy  
E. Belmore

ARCADIS

**11/6/2007**

**E-Mail Correspondence to the  
NYSDEC & NYSDOH**

Pre-Construction Meeting and  
Remediation Project Schedule

## Brussel, John

---

**From:** Brussel, John  
**Sent:** Tuesday, November 06, 2007 9:31 AM  
**To:** 'Allan Geisendorfer'; Maureen Schuck  
**Cc:** 'Morgan, James F.'; Wingert, Ray; Evans, Allen  
**Subject:** Project Schedule - NYSDEC Site #401044 (Nearshore Sediment Removal, Former Fire Training Area, School Street Hydro)

**Attachments:** 2007.1106-Remediation Project Schedule (Site 401044).pdf



2007.1106-Re  
mediation Project

Allan/Maureen: A copy of the contractor's updated schedule for implementing the nearshore sediment removal activities in the Mohawk River east of the former fire training area is in the attached file.

Maureen: Per the e-mail below, a kickoff meeting is scheduled for Wednesday, November 14, 2007 (10:00 a.m.). The NYSDEC and NYSDOH are welcome to attend.

Feel free to call Jim Morgan (315.428.3101) or me (315.671.9441) if you have any questions.

-John

-----Original Message-----

From: Morgan, James F. [mailto:James.F.Morgan@us.ngrid.com]  
Sent: Monday, November 05, 2007 2:26 PM  
To: Allan Geisendorfer; Brussel, John  
Cc: Wingert, Ray; Evans, Allen  
Subject: RE: SS

Allan,

A conference call was held last week between Brookfield Power, Arcadis BBL, National Grid and the contractor, DA Collins. A pre-construction meeting is scheduled at the School Street site on Wednesday, November 14, 2007 at 10:00 am. It looks like DA Collins will be mobilizing on November 26, 2007 after Thanksgiving. DA Collins will be providing contractor submittals (i.e. HASP, Site Management Plan, Erosion Control Plan) to John Brussel (Arcadis BBL) for review. DA Collins will also provide an updated schedule that will be sent along to the NYSDEC.

I assume the NYSDEC will have a representative on site during the dredging?

I'll keep you posted.

Jim Morgan

-----Original Message-----

From: Allan Geisendorfer [mailto:angeisen@gw.dec.state.ny.us]  
Sent: Monday, November 05, 2007 1:55 PM  
To: John Brussel; Morgan, James F.  
Subject: SS

Any site activiities this week?

\*\*\*\* For your information: KeySpan is now part of National Grid.\*\*\*\*

\*\*\*\*\*  
This e-mail and any files transmitted with it, are confidential to National Grid and are

intended solely for the use of the individual or entity to whom they are addressed. If you have received this e-mail in error, please reply to this message and let the sender know.

## PRELIMINARY SCHEDULE

ID	Task Name	Duration	Start	Finish	Nov 25, '07	Dec 2, '07	Dec 9, '07	Dec 16, '07	Dec 23, '07
1	Mobilization & Site Prep	5 days	Mon 11/26/07	Fri 11/30/07	Mobilization & Site Prep				
2	Install Turbidity Curtain	2 days	Mon 11/26/07	Tue 11/27/07					
3	Install E&S Controls	1 day	Wed 11/28/07	Wed 11/28/07					
4	Install Stockpile Area	1 day	Thu 11/29/07	Thu 11/29/07					
5	Remove Existing Riprap	1 day	Fri 11/30/07	Fri 11/30/07					
6	Remove Floating Debris	0.5 days	Mon 12/3/07	Mon 12/3/07					
7	Dredge Sediment	2 days	Mon 12/3/07	Tue 12/4/07					
8	Sediment Solidification	2 days	Wed 12/5/07	Thu 12/6/07					
9	T&D Sediment	1 day	Fri 12/7/07	Fri 12/7/07					
10	Demobilization	5 days	Mon 12/10/07	Fri 12/14/07					
11	Replace RipRap	1 day	Mon 12/10/07	Mon 12/10/07					
12	Remove Turbidity Curtain	2 days	Tue 12/11/07	Wed 12/12/07					
13	Place Topsoil & Seed	1 day	Thu 12/13/07	Thu 12/13/07					
14	Remove Stockpile Area	1 day	Fri 12/14/07	Fri 12/14/07					

<div> <div>D.A. Collins Environmental Services</div> <div>Project: School Street</div> <div>Date: 09/19/07</div> </div>	Task		Milestone		External Tasks
	Split		Summary		External Milestone
	Progress		Project Summary		Deadline

Page 1



ARCADIS

**11/9/2007**

**Letter from the USACOE**

45-Day Response to Nationwide  
Permit Verification Request



DEPARTMENT OF THE ARMY  
NEW YORK DISTRICT, CORPS OF ENGINEERS  
Regulatory Field Office  
1 Buffington Street  
Watervliet, NY 12189-4000

REPLY TO

09 NOV 2007

Western Permits Section

SUBJECT: Permit Application Number NAN-2007-01223-WBR  
by National Grid

James F. Morgan  
National Grid, Environmental Department  
300 Erie Boulevard West  
Syracuse, New York 13202

Dear Mr. Morgan:

On September 11, 2007, the New York District of the U.S. Army Corps of Engineers received your application for a Department of the Army authorization to dredge contaminated sediment from the Mohawk River under a Consent Order between the New York State Department of Environmental Conservation and National Grid. The project site is located in the Mohawk River, east of a former fire training facility at the Brookfield Power, Inc. - School Street Hydroelectric Station, in the City of Cohoes, Town of Colonie, New York.

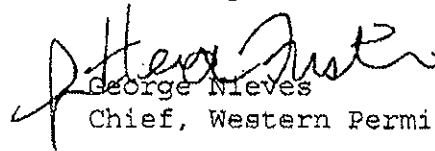
The application constitutes a pre-construction notification for Nationwide Permit No. 38 as prescribed in an Issuance of Nationwide Permits in the Federal Register dated March 12, 2007. Since more than 45 days have passed from the date of our receipt of the Nationwide Permit verification request without a response from this office, we are closing our file on this application (See 33 CFR, Part 325.2(a) and 330.1(e)).

Please be advised that you are responsible for complying with all the terms and conditions of the Nationwide Permits, as well as any applicable New York District regional conditions, and any applicable regional conditions added by the State of New York. You are also reminded that a Department of the Army permit may be required for any additional work on this site. If you decide to implement any other projects on this site in the future, please submit a timely and completed application for our review. Impacts to waters of the United States for this project may be reviewed cumulatively with any future requests or any other applications you may submit for work in waters of the United States on this site.

Please note that this determination does not eliminate the need to obtain any other Federal, State or local authorization required by law for the proposed work, including any required permit or Water Quality Certification from the New York State Department of Environmental Conservation (NYSDEC).

If any questions should arise concerning this matter, please contact Kevin Bruce of my staff at (518) 266-6358.

Sincerely,

A handwritten signature in dark ink, appearing to read "George Nieves", is written over the typed name.

George Nieves  
Chief, Western Permits Section

Enclosures

cc: NYSDEC Region 4, Schenectady  
City of Cohoes  
CENAN-OP-RH  
Raymond W. Cummings, Jr.

ARCADIS

**11/13/2007**

**E-Mail Correspondence to the  
NYSDEC**

Pre-Construction Meeting  
Schedule

## Brussel, John

---

**From:** Brussel, John  
**Sent:** Tuesday, November 13, 2007 11:09 AM  
**To:** Chris Hogan  
**Cc:** Morgan, James F.; Wingert, Ray; Evans, Allen  
**Subject:** RE: Kickoff Meeting Tomorrow / Project Schedule - NYSDEC Site #401044  
(Nearshore Sediment Removal, S)

OK - Thanks. We'll let you know if there are any changes to the schedule for the dredging.

-John

-----Original Message-----

**From:** Chris Hogan [mailto:cmhogan@gw.dec.state.ny.us]  
**Sent:** Tuesday, November 13, 2007 10:09 AM  
**To:** Brussel, John  
**Subject:** Re: Kickoff Meeting Tomorrow / Project Schedule - NYSDEC Site #401044 (Nearshore Sediment Removal, S)

Thanks for the update. I can't make the meeting. But I will make an effort to get up there during the dredging.

>>> "Brussel, John" <John.Brussel@arcadis-us.com> 11/13/2007 9:52 AM >>>  
Chris:

I wanted to let you know that there is a pre-construction meeting scheduled at the School Street site for tomorrow (Wednesday, November 14, 2007) at 10:00 am. You are welcome to attend. I understand that Maureen Schuck from the NYSDOH will be attending. Allan Geisendorfer is unable to attend.

For your reference, a copy of the contractor's updated schedule for implementing the nearshore sediment removal activities is in the attached file. Per the schedule, the contractor will be mobilizing on November 26, 2007 (after Thanksgiving).

Feel free to call Jim Morgan (315.428.3101), Ray Wingert (518.743.2082) or me (315.671.9441) if you have any questions.

Let me know if you can attend the meeting tomorrow.

-John

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ARCADIS

**11/26/2007**

**E-Mail Correspondence to the  
NYSDEC**

Notification of a Change in Flow  
Conditions in the Mohawk River

## Brussel, John

---

**From:** Brussel, John  
**Sent:** Monday, November 26, 2007 3:51 PM  
**To:** 'Chris Hogan'  
**Cc:** angeisen@gw.dec.state.ny.us; 'Maureen E. Schuck'; 'Morgan, James F.'; Wingert, Ray; Uncher, Thomas; Evans, Allen  
**Subject:** Schedule Update - NYSDEC Site #401044 (Nearshore Sediment Removal, School Street Hydro)

Chris:

As discussed earlier this afternoon with Allan Geisendorfer, the start of the nearshore sediment removal in the Mohawk River east of the former fire training area at the School Street Hydroelectric Station is being delayed while potential modifications are being evaluated in response to recent changes in flow conditions.

Due to recent precipitation and recent removal of accumulated woody debris floating in front of the ice fender, flow velocities are now greater than 3 to 4 feet per second in certain areas (e.g., where the inner and outer turbidity barriers are proposed immediately upstream from the ice fender). The turbidity barrier will not stay in-place and will not function properly at these velocities.

Potential changes have been identified, and we're currently coordinating with Brookfield, National Grid, and the contractor to see what may work for everyone. We'll send the proposed modification to the NYSDEC for review and approval prior to implementation (hopefully in the next couple days). We'll keep you posted on schedule.

Feel free to call Jim Morgan of National Grid (315.428.3101), Ray Wingert of Brookfield Power (207.671.4646), or me if you have any questions or need additional information.

-John

John C. Brussel, PE  
*Senior Engineer*  
**ARCADIS BBL**  
ARCADIS of New York, Inc.  
6723 Towpath Road, Box 66  
Syracuse, NY 13214-0066  
Tel 315.671.9441  
Alt Tel 315.446.2570 (ext. 19441)  
Fax 315.449.4111  
[John.Brussel@arcadis-us.com](mailto:John.Brussel@arcadis-us.com)

11/26/2007

ARCADIS

**12/7/2007**

**E-Mail Correspondence & Letter  
to the NYSDEC/NYSDOH**

Remedial Design Modification



## Evans, Allen

---

**From:** Brussel, John  
**Sent:** Friday, December 07, 2007 3:51 PM  
**To:** angeisen@gw.dec.state.ny.us; Chris Hogan  
**Cc:** Maureen E. Schuck; Morgan, James F.; Wingert, Ray; Uncher, Thomas; Lukas, Timothy; Evans, Allen  
**Subject:** Remedial Design Modification (Final Letter) - Nearshore Sediment Removal, School Street Hydro, NYSDEC Site No. 401044  
**Attachments:** 273711487 WP Modification.pdf

Allan/Chris:

Please find the attached finalized letter modifying the Remedial Design for the above-referenced site. The letter was sent to you in "draft" format on December 3, 2007 and has been finalized for formal NYSDEC approval based on your responses in e-mail correspondence dated December 4, 2007. The attached letter also incorporates a few changes to clarify things further. Please issue an approval letter upon NYSDEC acceptance.

Both the Remedial Design Modification and NYSDEC approval letter will be included as attachments to the Remedial Action Summary Report to be prepared following completion of the remedial activities.

A hard-copy of the attached finalized letter will follow via U.S. Mail.

Feel free to call me with any questions.

Thank you.

-John

John C. Brussel, PE  
*Senior Engineer*  
**ARCADIS BBL**  
ARCADIS of New York, Inc.  
6723 Towpath Road, Box 66  
Syracuse, NY 13214-0066  
Tel 315.671.9441  
Alt Tel 315.446.2570 (ext. 19441)  
Fax 315.449.4111  
[John.Brussel@arcadis-us.com](mailto:John.Brussel@arcadis-us.com)

-----Original Message-----

From: Allan Geisendorfer [<mailto:angeisen@gw.dec.state.ny.us>]  
Sent: Tuesday, December 04, 2007 4:35 PM  
To: Evans, Allen; Chris Hogan  
Cc: Brussel, John; Ray Wingert; thomas.uncher@brookfieldpower.com; timothy.lukas@brookfieldpower.com; mer10@health.state.ny.us; James F. Morgan  
Subject: Re: "Draft" Work Plan Modification Letter - NYSDEC Site #401044 (Nearshore Sediment Removal, School

Looks OK to me.

>>> Chris Hogan 12/4/2007 7:33 AM >>>  
I have no comments.

>>> "Evans, Allen" <[Allen.Evans@arcadis-us.com](mailto:Allen.Evans@arcadis-us.com)> 12/3/2007 1:56 PM >>>  
Allan and Chris:

Please find the attached letter describing proposed work plan modifications to be implemented at the above-referenced site. As John Brussel has previously discussed with you, these modifications were developed in response to recent changes in flow conditions at the site. This letter has been provided for your review and approval. It would be helpful if you could provide any NYSDEC comments/approval this week. Following the NYSDEC review and approval we will notify the contractor to order the turbidity barrier, and a revised schedule will be provided to the NYSDEC.

Feel free to call Jim Morgan of National Grid (315.428.3101), Ray Wingert of Brookfield Power (207.671.4646), or me if you have any questions or need additional information.

Thank you.

- Allen

Allen Evans  
Sr. Engineer I

---

ARCADIS BBL  
ARCADIS of New York, Inc.  
465 New Kanner Road, First Floor (\*NOTE: We've Moved!! Please note our new address) Albany, NY 12205

---

OFFICE: (518) 452-7826 x31 (new telephone #)  
EMAIL: [allen.evans@arcadis-us.com](mailto:allen.evans@arcadis-us.com)<<mailto:allen.evans@arcadis-us.com>>  
FAX: (518) 452-7086

---

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\*\*\*\* For your information: KeySpan is now part of National Grid. \*\*\*\*

\*\*\*\*\*

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James F. Morgan  
Lead Senior Environmental Engineer  
Environmental Department

December 7, 2007

Mr. Allan N. Geisendorfer, P.E.  
New York State Department of Environmental Conservation  
Region 4  
1130 North Westcott Road  
Schenectady, New York 12306

Mr. Christopher M. Hogan  
New York State Department of Environmental Conservation  
Division of Environmental Permits  
625 Broadway, 4<sup>th</sup> Floor  
Albany, New York 12233

Re: Brookfield Power, Inc.  
(Former National Grid)  
School Street Hydroelectric Station  
Cohoes, New York  
NYSDEC Site No. 401044  
Remedial Design Modification

Dear Mr. Geisendorfer and Mr. Hogan:

This letter presents a proposed modification to the Remedial Design prepared by ARCADIS of New York, Inc. (ARCADIS BBL, October 2007) for the above-referenced site. The modification is being proposed in response to recent changes in flow conditions in the Mohawk River, particularly in the nearshore area where sediment removal is proposed. As indicated in e-mail correspondence from ARCADIS BBL dated November 26, 2007, flow velocities in certain portions of the proposed work area (e.g., where the inner and outer turbidity barriers are proposed immediately upstream from the ice fender) have significantly increased (and are greater than 3 to 4 feet per second) due to recent precipitation and the recent removal of accumulated woody debris floating in front of the ice fender. These velocities are too high for the turbidity barrier to stay in-place and function properly.

Based on the changes in the field conditions, the following actions are proposed:

- Gates at the upper gatehouse nearest the shore will be closed during the turbidity barrier installation and sediment removal activities. It is anticipated three gates (each of the "tainter gates") will initially be closed, and conditions will be assessed. Additional gates (selected "slide gates", starting with those closest to the tainter gates) will be closed, as needed. The gate closure will coincide with reduced hydroelectric power generation, resulting in a reduction in the total flow through the ice fender into the power canal. River flow will likely exceed flow through the canal, resulting in spill over the dam. These operational activities will: (1) reduce the flow velocities in the area upstream from the gatehouse (particularly in the proposed work area); and (2) change the flow pattern so that flow is directed toward the eastern end of the ice fender/gatehouse and dispersed over the dam (and not channeled through the work area as it is now). These changes will facilitate installation and performance of the turbidity barrier.

- The outer turbidity barrier will be constructed with a semi-permeable 6-ounce woven geotextile instead of the 18-ounce (minimum) polyvinyl chloride [PVC] coated fabric identified in the Remedial Design. The geotextile barrier will be able to withstand higher flow velocities than the PVC coated barrier, and will be better suited to deflect current from the inner impermeable barrier. The outer barrier will also provide additional containment of turbidity, if needed. The inner turbidity barrier will be constructed as a 22-ounce PVC coated fabric that exceeds the material specification presented in the Remedial Design.

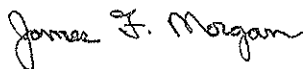
Based on the proposed gate closure, drawdown of the river level will not be performed. However, the sediment removal will be performed using an environmental bucket (as specified the 401 Water Quality Certificate issued by the New York State Department of Environmental Conservation [NYSDEC]), minimizing the suspended sediment in the water column. The turbidity measurements for the 401 Water Quality Certificate will be taken at a compliance point approximately 500 feet downstream of the work area, downstream of the upper gatehouse, in the power canal. Due to only a portion of the upper gatehouse gates being open, turbidity measurements will be performed on water collected in the eastern half of the power canal, where water is flowing through the open gates of the upper gatehouse.

A gate closure "step test" will be performed, weather permitting, on Monday, December 10, 2007 to evaluate flow velocity changes in response to sequential gate closures and generating unit shutdowns. The results of the step test will be used to evaluate potential operating conditions during the turbidity barrier deployment and subsequent sediment removal.

Following NYSDEC review and approval of the changes discussed above, ARCADIS BBL will notify the contractor to order the turbidity barrier, and a revised schedule will be provided to the NYSDEC.

If you have any questions or require additional information, please feel free to contact me at (315) 428-3101, Mr. Ray Wingert, P.E. of Brookfield Power at (207) 671-4646, or Mr. John Brussel, P.E. of ARCADIS BBL at (315) 671-9441.

Sincerely,



James F. Morgan  
Lead Senior Environmental Engineer

cc: Maureen E. Schuck, NYSDOH  
Ray Wingert, P.E., Brookfield Power, Inc.  
Thomas Uncher, Brookfield Power, Inc.  
Timothy Lukas, Brookfield Power, Inc.  
John Brussel, P.E., ARCADIS BBL  
Allen Evans, ARCADIS BBL

ARCADIS

**12/12/2007**

**Letter from the NYSDEC**

Approval of Remedial Design  
Modification

**New York State Department of Environmental Conservation**  
**Office of Environmental Quality, Region 4**  
1130 North Westcott Road, Schenectady, New York 12306-2014  
**Phone:** (518) 357-2045 • **FAX:** (518) 357-2398  
**Website:** www.dec.ny.gov



Alexander B. Grannis  
Commissioner

December 12, 2007

James F. Morgan  
Lead Senior Environmental Engineer  
National Grid  
Environmental Department  
300 Erie Boulevard West  
Syracuse, NY 13202

**Re: Site #401044**  
**Former School Street Hydroelectric Station**  
**Colonie (T), Albany County**

Dear Mr. Morgan:

Chris Hogan and I have reviewed your letter request dated 12/07/07 to modify the turbidity control measures in order to address higher flow rates. The proposed actions are approved. All activities must still comply with the Excavation and Fill permit and Part 401 Water Quality Certificate issued for the remediation project.

Implementation of these actions will result in a delay of the remedial action to January, 2008.

Sincerely,

Allan N. Geisendorfer, P.E.  
Regional Spill Engineer  
Region IV

AG:lg\letter.site401044.formerSchoolSt.Station.Colonie.2007-12-12.wpd.

cc: Chris Hogan, Environmental Permits, Broadway  
Ron Groves, ACHD  
Maureen Schuck, NYSDOH  
John Brussel, Arcadis ✓  
Ray Wingert, Brockfield Power  
Honorable John McDonald, Mayor, City of Cohoes  
Robert Cozzy, DEC

ARCADIS

**12/18/2007**

**E-Mail Correspondence to the  
NYSDEC**

Notification of Gate Closure Step  
Test Results & Next Steps

**Brussel, John**

---

**From:** Brussel, John  
**Sent:** Tuesday, December 18, 2007 11:44 AM  
**To:** angeisen@gw.dec.state.ny.us  
**Cc:** 'Chris Hogan'; 'Maureen E. Schuck'; Morgan, James F.; 'Wingert, Ray'; Evans, Allen  
**Subject:** Updated Project Schedule - NYSDEC Site #401044 (Nearshore Sediment Removal, Former Fire Training Area, School Street Hydro)  
**Attachments:** 2007.1218-Remediation Project Schedule (Site 401044).pdf

Allan:

I wanted to let you know that the gate closure step test performed last week at the School Street Hydro Station was successful at reducing flow in the nearshore area adjacent to the former fire training area. The turbidity barriers have since been ordered and are expected to arrive within the next 3 weeks. An updated project schedule prepared by the Contractor (D.A. Collins) is attached for your information. Turbidity barrier installation is currently scheduled to begin on January 7, 2008.

During the step test, the maximum flow in the nearshore area was reduced from over 4 feet per second (fps) to approximately 2 fps by closing approximately half of the gates at the upper gatehouse. The greatest flows within the proposed removal area were observed to be in the area between the ice fender and approximately 40 feet upstream. Much lower flows were observed further upstream through the proposed removal area. Based on these observations, the sediment removal will be completed in two stages, as described below, to minimize the amount of time that turbidity barriers will need to be maintained around the area where flow is highest.

- Stage 1 – Sediment will be dredged from approximately 90% of the total removal area during the first stage (from the area between approximately 40 and 215 feet upstream from the ice fender, where flow is slowest). Turbidity barriers will be installed around this area prior to dredging. Following dredging, the removal depths will be verified, backfill will be placed, and then the turbidity barriers will be removed. The Stage 1 work is anticipated to take 6 days to complete.

- Stage 2 – Sediment will be removed from the remaining 10% of the total removal area during the second stage (from the ice fender to approximately 40 feet upstream). Turbidity barriers will be installed around this second, smaller area prior to dredging. Following dredging, the removal depths will be verified, backfill will be placed, and then the turbidity barriers will be removed. The Stage 2 work is anticipated to take 2 days to complete.

During each stage, flow deflection barriers (e.g., steel trench boxes) will also be strategically placed outside the removal limits, as appropriate, to further divert flow around the proposed work areas.

We will keep you posted of any further changes to the schedule.

Feel free to call Jim Morgan at 315.428.3101 or me if you have any questions.

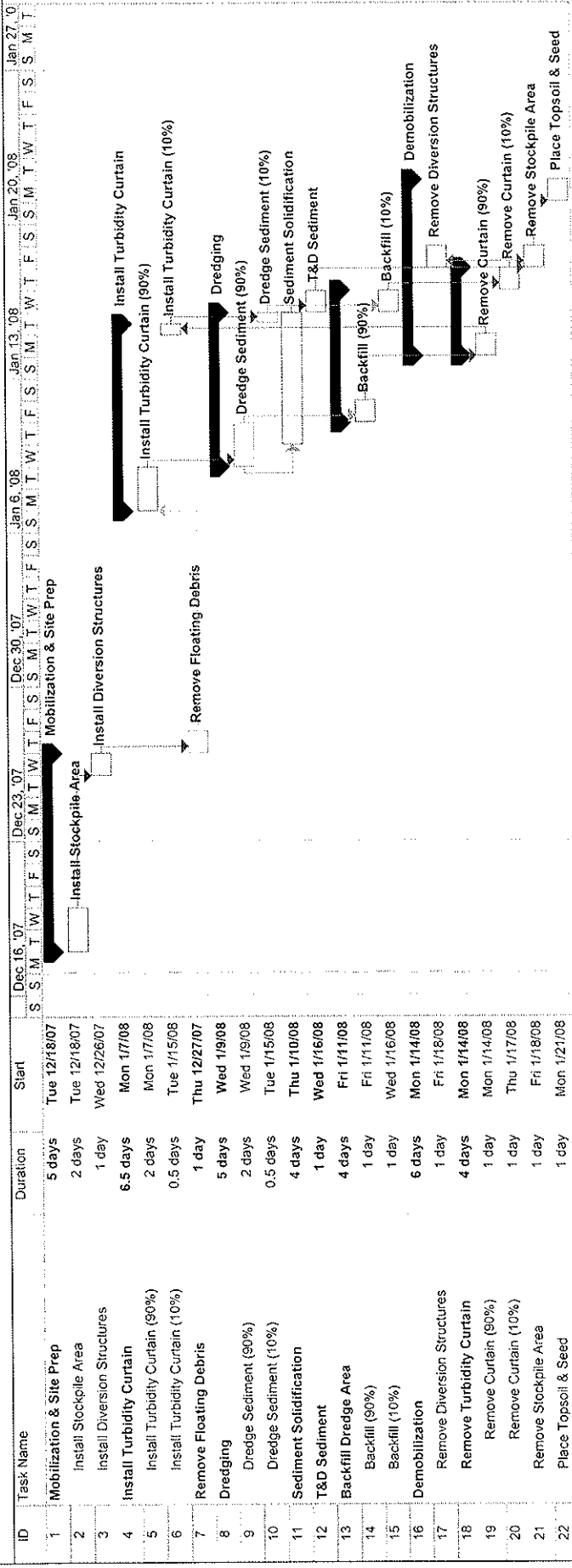
-John

John C. Brussel, PE  
*Senior Engineer*  
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Tel 315.671.9441  
Alt Tel 315.446.2570 (ext. 19441)  
Fax 315.449.4111  
[John.Brussel@arcadis-us.com](mailto:John.Brussel@arcadis-us.com)

12/18/2007



**PRELIMINARY SCHEDULE**  
National Grid/Brookfield Power - School Street Sediment Removal



D.A. Collins Environmental Services Project: School Street Date: 09/19/07	Task	Milestone	External Tasks
	Split	Summary	External Milestone
	Progress	Project Summary	Deadline

ARCADIS

**12/27/2007**

**E-Mail Correspondence to the  
NYSDEC**

Updated Remediation Project  
Schedule

## Brussel, John

---

**From:** Brussel, John  
**Sent:** Thursday, December 27, 2007 4:52 PM  
**To:** Allan Geisendorfer  
**Cc:** Evans, Allen; Ray Wingert; James F. Morgan  
**Subject:** RE: Schedule Update; Nearshore Sediment Removal; NYSDEC Site No. 401044

**Attachments:** 2007.1218-Remediation Project Schedule (Site 401044).pdf



2007.1218-Re  
mediation Project

Allan:

The D.A. Collins guys are apparently out on vacation this week. We'll have them send us an updated schedule when they return, and I'll forward it to you. It's my understanding that the timing for Items 4 through 22 of the attached schedule (this is the latest one that I have) will not change --- provided the weather/flow conditions cooperate.

Feel free to call me at 315.671.9441 if you have any questions.

-John

-----Original Message-----

**From:** Allan Geisendorfer [mailto:angeisen@gw.dec.state.ny.us]  
**Sent:** Wednesday, December 26, 2007 2:08 PM  
**To:** Brussel, John  
**Cc:** Evans, Allen; Ray Wingert; James F. Morgan  
**Subject:** Re: Schedule Update; Nearshore Sediment Removal; NYSDEC Site No. 401044

Thanks . I was referring to what I thought was the most recent schedule showing a 12/17 "mob "date. Can you get me a revised schedule please.

>>> "Brussel, John" <John.Brussel@arcadis-us.com> 12/26/2007 1:59 PM >>>

Allan:

I'm told that D.A. Collins will begin construction of the stockpile area (dewatering pad) on Thursday, January 2nd. Installation of the diversion structures will take place during the turbidity barrier installation -- starting on January 7th. The "official mobilization" will take place next week, on the 2nd.

-John

-----Original Message-----

**From:** Morgan, James F. [mailto:James.F.Morgan@us.ngrid.com]  
**Sent:** Wednesday, December 26, 2007 1:37 PM  
**To:** Evans, Allen; Wingert, Ray  
**Cc:** Allan Geisendorfer  
**Subject:** FW: SS

Allan,

I'm not sure about the status of the WAS stockpile area, however I know the silt curtain has been ordered and Arcadis (BBL) is reviewing the contractor submittals from DA Collins. I believe everything is still on for January 7, 2008 depending upon conditions.

Allen Evans & Ray Wingert - Let Allan and I know about the status of the WAS stockpile

area and if anything has changed.

Thanks,

Jim Morgan

-----Original Message-----

From: Allan Geisendorfer [mailto:angeisen@gw.dec.state.ny.us]

Sent: Wednesday, December 26, 2007 12:48 PM

To: John Brussel

Cc: Morgan, James F.

Subject: SS

WAS stockpile area installed. If yes, what was mobilization date?

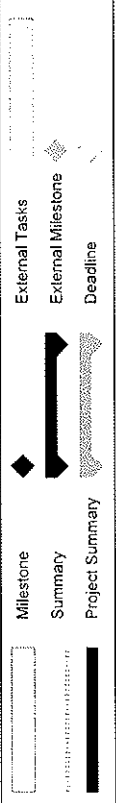
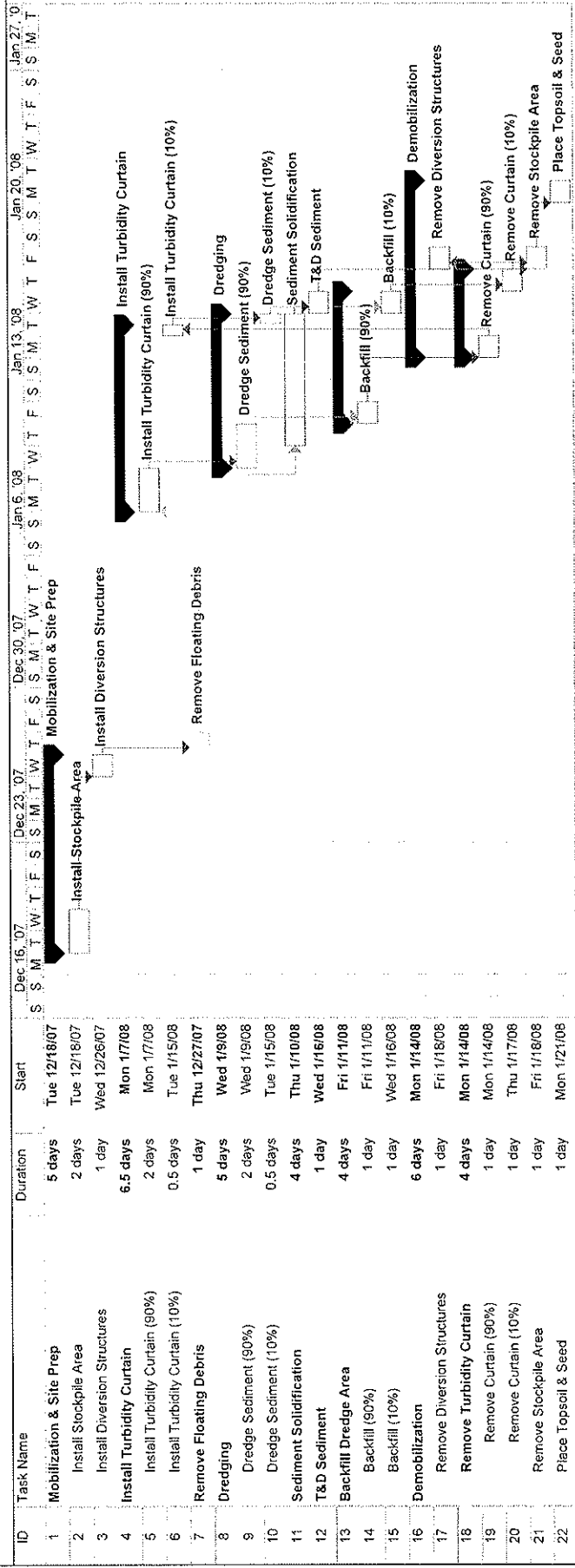
\*\*\*\* For your information: KeySpan is now part of National Grid.\*\*\*\*

\*\*\*\*\*

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**PRELIMINARY SCHEDULE**  
National Grid/Brookfield Power - School Street Sediment Removal



D.A. Collins Environmental Services  
Project: School Street  
Date: 09/19/07

## Brussel, John

---

**From:** Brussel, John  
**Sent:** Thursday, December 27, 2007 5:10 PM  
**To:** 'Chris Hogan'  
**Cc:** James F. Morgan; Ray Wingert; Evans, Allen  
**Subject:** Schedule Update - Nearshore Sediment Removal - NYSDEC Site No. 401044 / Facility ID# 4-0126-00656

**Attachments:** 2007.1218-Remediation Project Schedule (Site 401044).pdf



2007.1218-Re  
mediation Project

Chris:

I'm not sure if you're in the office this week, but I wanted to give you an update on schedule for the nearshore sediment removal work at the School Street Hydro Station. The timing for a few items identified in the attached schedule has changed:

- D.A. Collins plans to begin construction of the dewatering pad on Thursday, January 3rd (this did not take place on December 18th).
- Installation of the diversion structures will take place during the turbidity barrier installation -- starting on January 7th.

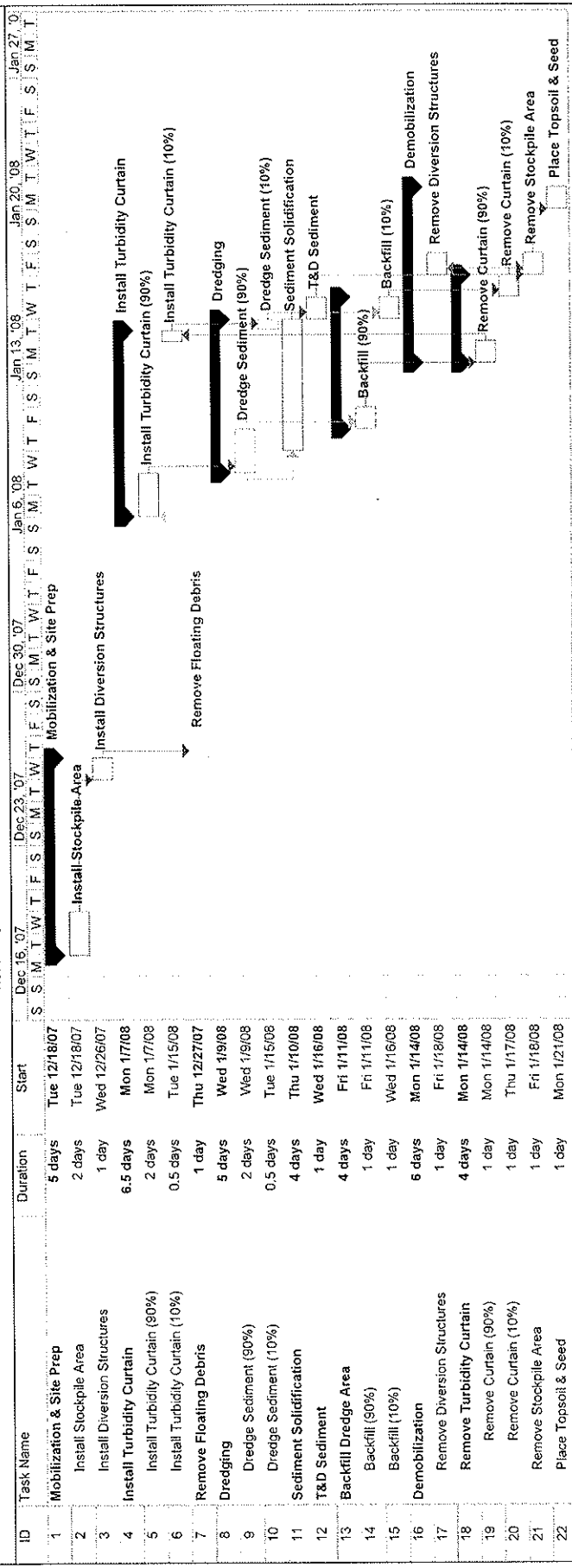
We'll have D.A. Collins send us an updated schedule when they return, and I'll forward it to you. It's my understanding that the timing for Items 4, 5, 6, and 8 through 22 of the attached schedule will not change (provided the weather/flow conditions cooperate).

Feel free to call me at 315.671.9441 if you have any questions.

Have a safe and happy new year.

-John

**PRELIMINARY SCHEDULE**  
National Grid/Brookfield Power - School Street Sediment Removal



Task

Split

Progress

Milestone

Summary

Project Summary

External Tasks

External Milestone

Deadline

ARCADIS

**1/2/2008**

**E-Mail Correspondence to the  
NYSDEC**

Updated Remediation Project  
Schedule



## Brussel, John

---

**From:** Brussel, John  
**Sent:** Wednesday, January 02, 2008 11:34 AM  
**To:** 'Allan Geisendorfer'; 'Chris Hogan'  
**Cc:** 'Maureen E. Schuck'; James F. Morgan; Wingert, Ray; 'Lukas, Timothy'; Uncher, Thomas; Evans, Allen; 'Scott Serviss'  
**Subject:** Schedule Update; Nearshore Sediment Removal; NYSDEC Site No. 401044 / Facility ID# 4-0126-00656  
**Attachments:** 2008.0102-Remediation Project Schedule (Site 401044).pdf

Allan/Chris:

In follow-up to my e-mail correspondence from December 27, 2007, please find the attached updated project schedule for the nearshore sediment removal at the above-referenced site.

As indicated on the attached schedule, D.A. Collins plans to complete construction of the sediment stockpile area (dewatering pad) today. The proposed diversion structures (trench boxes) will be installed tomorrow as a test to see how they perform. Turbidity curtain installation is still planned for Monday (depending on flow conditions).

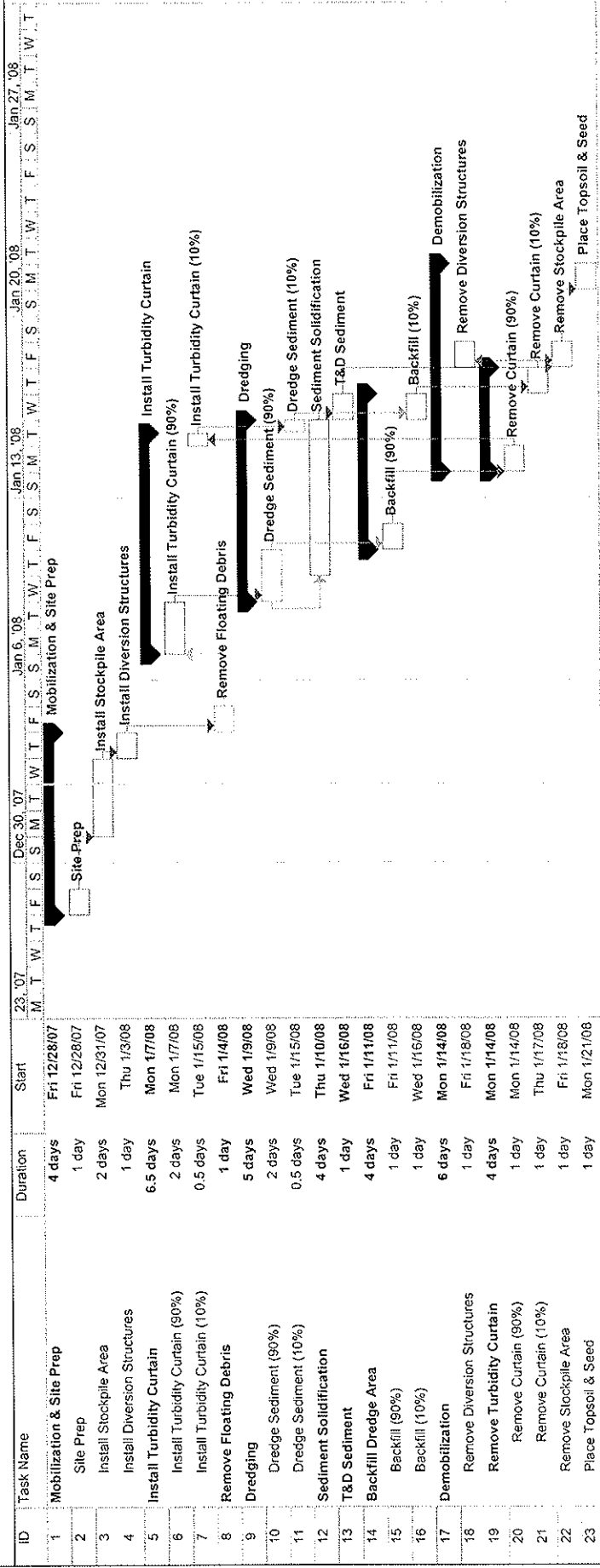
We'll keep you posted on the status of work, including any weather-related changes, and will coordinate to schedule a site visit.

Feel free to call Jim Morgan (315.428.3101) or me with any questions.

-John

John C. Brussel, PE  
*Senior Engineer*  
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6723 Towpath Road, Box 66  
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Fax 315.449.4111  
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[www.arcadis-us.com](http://www.arcadis-us.com)

**PRELIMINARY SCHEDULE**  
National Grid/Brookfield Power - School Street Sediment Removal



<b>Task</b> Split Progress	Milestone 	External Tasks 
	Summary 	External Milestone 
	Project Summary 	Deadline 

D.A. Collins Environmental Services  
Project: School Street  
Date: 09/19/07

ARCADIS

**1/3/2008**

**E-Mail Correspondence to the  
NYSDEC**

Weather-Related Schedule Delay

## Brussel, John

---

**From:** Brussel, John  
**Sent:** Thursday, January 03, 2008 9:07 AM  
**To:** Allan Geisendorfer; Chris Hogan  
**Cc:** Maureen E. Schuck; James F. Morgan; Wingert, Ray; Lukas, Timothy; Uncher, Thomas; Evans, Allen; Scott Serviss  
**Subject:** RE: Schedule Update; Nearshore Sediment Removal; NYSDEC Site No. 401044 / Facility ID# 4-0126-00656

Allan/Chris:

Based on the forecasted rain and high temperatures (50s) for next week (the meteorologists all seem to agree now), the proposed sediment removal activities are being postponed until further notice. The expected high flows caused by the weather change early next week would otherwise lead to unsafe working conditions and failure of the turbidity barrier system.

Anticipated flow conditions will be evaluated on a weekly basis, and work will resume once it is safe and practical.

Feel free to call with any questions.

-John

---

**From:** Brussel, John  
**Sent:** Wednesday, January 02, 2008 11:34 AM  
**To:** Allan Geisendorfer; Chris Hogan  
**Cc:** Maureen E. Schuck; James F. Morgan; Wingert, Ray; Lukas, Timothy; Uncher, Thomas; Evans, Allen; Scott Serviss  
**Subject:** Schedule Update; Nearshore Sediment Removal; NYSDEC Site No. 401044 / Facility ID# 4-0126-00656

Allan/Chris:

In follow-up to my e-mail correspondence from December 27, 2007, please find the attached updated project schedule for the nearshore sediment removal at the above-referenced site.

As indicated on the attached schedule, D.A. Collins plans to complete construction of the sediment stockpile area (dewatering pad) today. The proposed diversion structures (trench boxes) will be installed tomorrow as a test to see how they perform. Turbidity curtain installation is still planned for Monday (depending on flow conditions).

We'll keep you posted on the status of work, including any weather-related changes, and will coordinate to schedule a site visit.

Feel free to call Jim Morgan (315.428.3101) or me with any questions.

-John

John C. Brussel, PE  
*Senior Engineer*  
**ARCADIS**  
6723 Towpath Road, Box 66  
Syracuse, NY 13214-0066

1/3/2008

Tel 315.671.9441  
Fax 315.449.4111  
John.Brussel@arcadis-us.com  
www.arcadis-us.com

ARCADIS

1/18/2008

**E-Mail Correspondence from  
the NYSDEC**

Site Visit During Dredging

## Brussel, John

---

**From:** Evans, Allen  
**Sent:** Friday, January 18, 2008 11:51 AM  
**To:** Brussel, John  
**Subject:** RE: Schedule Update; Nearshore Sediment Removal; NYSDEC Site ID# 4-0126-00656 No. 401044 / Facility

Just talked to Chris O'Neill and he will give me a call to let me know if he will be out there Wednesday. He does plan to be there Thursday.

Allen

-----Original Message-----

**From:** Brussel, John  
**Sent:** Friday, January 18, 2008 11:48 AM  
**To:** Chris Hogan; Christopher O'Neill; Maureen E. Schuck; Allan Geisendorfer  
**Cc:** Evans, Allen; Ray Wingert; Thomas Uncher; Timothy Lukas; Scott Serviss; James F. Morgan  
**Subject:** RE: Schedule Update; Nearshore Sediment Removal; NYSDEC Site No. 401044 / Facility ID# 4-0126-00656

Chris H. & Chris O.:

Jim Morgan and I plan to be onsite Thursday (1/24/08) at 10:30 a.m. We would be happy to meet with the NYSDEC/NYSDOH then.

Allen Evans (ARCADIS' onsite observer) will also be able to meet with NYSDEC/NYSDOH on Wednesday. Allen can be reached at our Albany office at 518.452.7826 (x31) or via cell phone at 530.949.7144. Ray Wingert or Mike Reader (representing Brookfield Power) will also be available each day.

We look forward to seeing you next week.

-John

-----Original Message-----

**From:** Chris Hogan [mailto:cmhogan@gw.dec.state.ny.us]  
**Sent:** Friday, January 18, 2008 10:42 AM  
**To:** Brussel, John; Christopher O'Neill; Maureen E. Schuck  
**Cc:** Evans, Allen; Ray Wingert; Thomas Uncher; Timothy Lukas; Scott Serviss; James F. Morgan  
**Subject:** RE: Schedule Update; Nearshore Sediment Removal; NYSDEC Site No. 401044 / Facility ID# 4-0126-00656

I will be out either Wed. or Thurs.

>>> Christopher O'Neill 1/18/2008 10:31 AM >>>  
I definitely would like to meet on site on Thursday 1/24/08.  
Do you have a time frame?

I will probably stop in to check on the removal activities sometime on Wednesday 1/23/08 also.

>>> "Brussel, John" <John.Brussel@arcadis-us.com> 1/18/2008 9:58 AM >>>  
Good Morning:

Per my conversation this morning with Chris O'Neill (he's taking over responsibilities as the NYSDEC's Project Manager from Allan Geisendorfer), predicted weather and flow conditions for next week look favorable to implement the nearshore sediment removal activities.

The current plan is to deploy turbidity barriers on Monday and Tuesday (1/21 and 1/22) and begin dredging on Wednesday. An updated project schedule is attached for your

information.

The NYSDEC and NYSDOH are welcome to visit the site during the activities. Jim Morgan and I will be making a site visit on Thursday. Let us know if you'd like to join us.

Feel free to call Jim Morgan at 315.428.3101 or me at 315.671.9441.

We'll keep you posted of any changes.

Thank you.

-John

---

From: Brussel, John

Sent: Thursday, January 03, 2008 9:07 AM

To: Allan Geisendorfer; Chris Hogan

Cc: Maureen E. Schuck; James F. Morgan; Wingert, Ray; Lukas, Timothy; Uncher, Thomas; Evans, Allen; Scott Serviss

Subject: RE: Schedule Update; Nearshore Sediment Removal; NYSDEC Site No. 401044 / Facility ID# 4-0126-00656

Allan/Chris:

Based on the forecasted rain and high temperatures (50s) for next week (the meteorologists all seem to agree now), the proposed sediment removal activities are being postponed until further notice. The expected high flows caused by the weather change early next week would otherwise lead to unsafe working conditions and failure of the turbidity barrier system.

Anticipated flow conditions will be evaluated on a weekly basis, and work will resume once it is safe and practical.

Feel free to call with any questions.

-John

---

From: Brussel, John

Sent: Wednesday, January 02, 2008 11:34 AM

To: Allan Geisendorfer; Chris Hogan

Cc: Maureen E. Schuck; James F. Morgan; Wingert, Ray; Lukas, Timothy; Uncher, Thomas; Evans, Allen; Scott Serviss

Subject: Schedule Update; Nearshore Sediment Removal; NYSDEC Site No. 401044 / Facility ID# 4-0126-00656

Allan/Chris:

In follow-up to my e-mail correspondence from December 27, 2007, please find the attached updated project schedule for the nearshore sediment removal at the above-referenced site.

As indicated on the attached schedule, D.A. Collins plans to complete construction of the sediment stockpile area (dewatering pad) today. The proposed diversion structures (trench boxes) will be installed tomorrow as a test to see how they perform. Turbidity curtain installation is still planned for Monday (depending on flow conditions).

We'll keep you posted on the status of work, including any weather-related changes, and will coordinate to schedule a site visit.

Feel free to call Jim Morgan (315.428.3101) or me with any questions.

-John

John C. Brussel, PE  
Senior Engineer  
ARCADIS

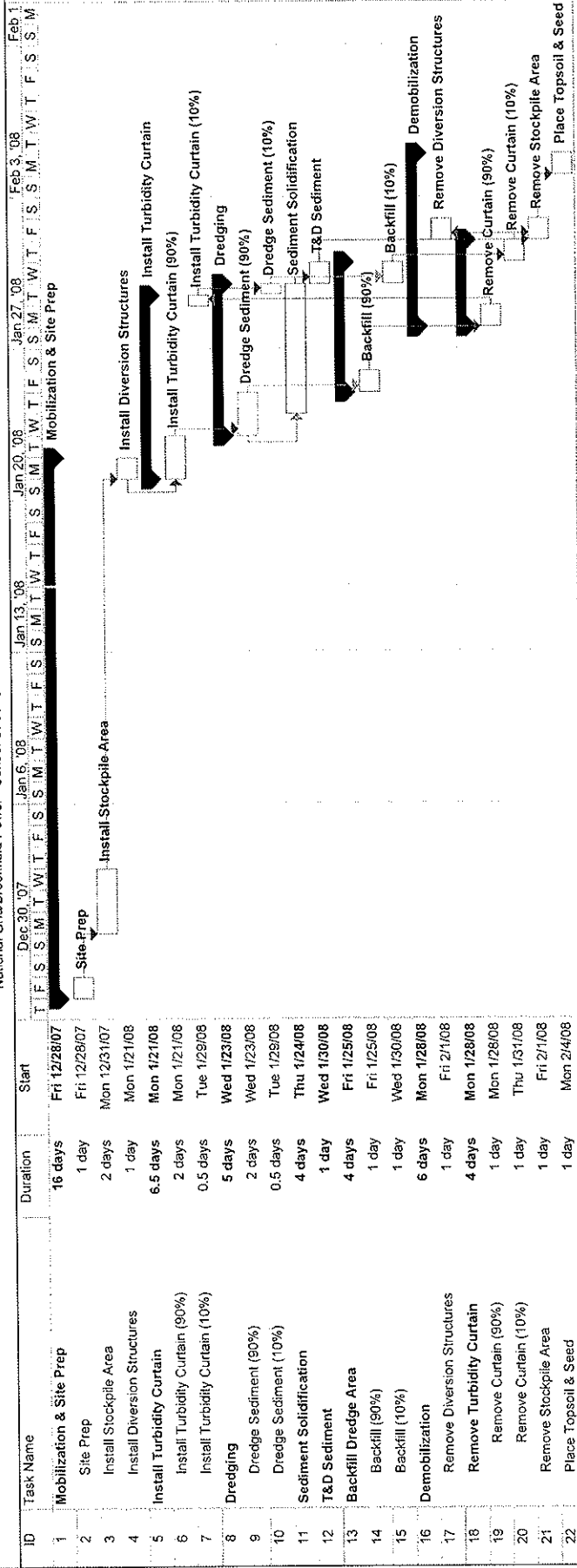


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John.Brussel@arcadis-us.com<mailto:John.Brussel@arcadis-us.com>  
www.arcadis-us.com<http://www.arcadis-us.com/>

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**PRELIMINARY SCHEDULE**  
National Grid/Brookfield Power - School Street Sediment Removal



Task

Split

Progress

Milestone

Summary

Project Summary

External Tasks

External Milestone

Deadline

ARCADIS

**1/21/2008**

**E-Mail Correspondence to the  
NYSDEC & NYSDOH**

Weather-Related Delay to  
Turbidity Barrier/Flow Diversion  
Structures Deployment

## Brussel, John

---

**From:** Brussel, John  
**Sent:** Monday, January 21, 2008 9:29 AM  
**To:** Chris Hogan; Christopher O'Neill; Maureen E. Schuck; Allan Geisendorfer  
**Cc:** Evans, Allen; Ray Wingert; Thomas Uncher; Timothy Lukas; Scott Serviss; James F. Morgan  
**Subject:** RE: Schedule Update; Nearshore Sediment Removal; NYSDEC Site No. 401044 / Facility ID# 4-0126-00656

All:

I wanted to let you know that the field work scheduled for today is being postponed due to concerns with ice flows near the shoreline. The field crew will reassess conditions and decide tomorrow morning whether to begin deployment of the turbidity barrier/flow control measures.

I'll keep you posted.

-John

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**Cc:** Evans, Allen; Ray Wingert; Thomas Uncher; Timothy Lukas; Scott Serviss; James F. Morgan  
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Cc: Maureen E. Schuck; James F. Morgan; Wingert, Ray; Lukas, Timothy; Uncher, Thomas; Evans, Allen; Scott Serviss

Subject: RE: Schedule Update; Nearshore Sediment Removal; NYSDEC Site No. 401044 / Facility ID# 4-0126-00656

Allan/Chris:

Based on the forecasted rain and high temperatures (50s) for next week (the meteorologists all seem to agree now), the proposed sediment removal activities are being postponed until further notice. The expected high flows caused by the weather change early next week would otherwise lead to unsafe working conditions and failure of the turbidity barrier system.

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-John

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To: Allan Geisendorfer; Chris Hogan

Cc: Maureen E. Schuck; James F. Morgan; Wingert, Ray; Lukas, Timothy; Uncher, Thomas; Evans, Allen; Scott Serviss

Subject: Schedule Update; Nearshore Sediment Removal; NYSDEC Site No. 401044 / Facility ID# 4-0126-00656

Allan/Chris:

In follow-up to my e-mail correspondence from December 27, 2007, please find the attached updated project schedule for the nearshore sediment removal at the above-referenced site.

As indicated on the attached schedule, D.A. Collins plans to complete construction of the sediment stockpile area (dewatering pad) today. The proposed diversion structures (trench boxes) will be installed tomorrow as a test to see how they perform. Turbidity curtain installation is still planned for Monday (depending on flow conditions).

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Feel free to call Jim Morgan (315.428.3101) or me with any questions.

-John

John C. Brussel, PE

Senior Engineer

ARCADIS

6723 Towpath Road, Box 66

Syracuse, NY 13214-0066

Tel 315.671.9441

Fax 315.449.4111

John.Brussel@arcadis-us.com<mailto:John.Brussel@arcadis-us.com>

www.arcadis-us.com<http://www.arcadis-us.com/>

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ARCADIS

1/22/2008

**E-Mail Correspondence to the  
NYSDEC & NYSDOH**

Progress Update

## Brussel, John

---

**From:** Brussel, John  
**Sent:** Tuesday, January 22, 2008 1:39 PM  
**To:** Chris Hogan; Christopher O'Neill; Maureen E. Schuck; Allan Geisendorfer  
**Cc:** Evans, Allen; Ray Wingert; Thomas Uncher; Timothy Lukas; Scott Serviss; James F. Morgan  
**Subject:** RE: Schedule Update; Nearshore Sediment Removal; NYSDEC Site No. 401044 / Facility ID# 4-0126-00656

**Attachments:** IMG\_4447 (012208).JPG; IMG\_4445 (012208).JPG



IMG\_4447 IMG\_4445  
(08).JPG (108 t08).JPG (117 t  
All -

Please note that work is underway at the site today. D.A. Collins has installed one of the deflection barriers (trench boxes) and plans to install a couple more this afternoon. Installation of the turbidity barrier will take place this afternoon (if time permits) or more likely, tomorrow. It looks like dredging will start on Thursday if all goes well.

Photos taken this morning by Allen Evans are attached for your information. Note that the ice flow in the river has subsided since yesterday (sheets of ice are no longer moving with the flow), and the ice layer at the edge of the river is stable and manageable. The ice doesn't extend out as far as the removal limits.

Jim Morgan and I are still planning a site visit on Thursday. We'll be onsite around 10:30 and would be happy to meet with anyone then.

Feel free to call Jim at 315.428.3101 or me at 315.671.9441 if you have any questions.

-John

-----Original Message-----

From: Brussel, John  
Sent: Monday, January 21, 2008 9:29 AM  
To: Chris Hogan; Christopher O'Neill; Maureen E. Schuck; Allan Geisendorfer  
Cc: Evans, Allen; Ray Wingert; Thomas Uncher; Timothy Lukas; Scott Serviss; James F. Morgan  
Subject: RE: Schedule Update; Nearshore Sediment Removal; NYSDEC Site No. 401044 / Facility ID# 4-0126-00656

All:

I wanted to let you know that the field work scheduled for today is being postponed due to concerns with ice flows near the shoreline. The field crew will reassess conditions and decide tomorrow morning whether to begin deployment of the turbidity barrier/flow control measures.

I'll keep you posted.

-John







ARCADIS

**1/25/2008**

**E-Mail Correspondence to the  
NYSDEC**

Request for Approval to Change to  
a Conventional Dredging Bucket

**Brussel, John**

---

**From:** Brussel, John  
**Sent:** Friday, January 25, 2008 10:21 AM  
**To:** Chris Hogan; Christopher O'Neill  
**Cc:** Maureen E. Schuck; James F. Morgan; Wingert, Ray; Jeffs, Lucas  
**Subject:** Dredging Update - NYSDEC Site #401044, School Street Hydro Station, Cohoes, NY

Chris & Chris:

Per discussions with the project team at School Street this morning, D.A. Collins had limited success at removing sediment in the nearshore area yesterday afternoon, even with increased downward force on the bucket. The amount of sediment removed per bucket in the afternoon (an estimated 0.1 CY per bucket) was much less than that removed in the morning. The total volume dredged yesterday was an estimated 5 CY, with most of the material removed while we were onsite. Dredging so far has been in the upper 20 feet of the approximately 200 foot long proposed removal area.

Based on surveying performed this morning, the dredging has resulted in removal of sediment to a depth of approximately 0.7 feet approximately 15 feet from the shoreline, 0.6 to 0.7 feet approximately 7.5 feet from the shoreline, and 0.3 feet just past the shoreline. The actual removal depths so far are all less than the 1.0 foot target removal depth. In addition, based on additional sediment probing performed this morning in the upper 20 foot stretch of the removal area, the remaining sediment is >1.0 foot thick. The sediment (sand) appears to be tight, with no apparent cobbles/rocks. The tight sand (not bedrock) appears to have limited the dredging via the environmental bucket. Due to the very slow pace and limited removal depths, the dredging has currently been halted.

Per our discussions with the NYSDEC yesterday morning and based on the results of the dredging, surveying, and sediment probing since that time, D.A. Collins proposes to change to the conventional digging bucket. Upon NYSDEC approval, dredging with the conventional bucket will begin. The dredging will be performed in a manner to minimize turbidity. The double-row of turbidity barriers (which are working well) will continue to be used, and monitoring will continue to be performed in accordance with the project plans.

The expectation is that the change to the conventional bucket will allow the project to be completed in a reasonable timeframe (e.g., the original 2 to 3 day estimate) while maintaining acceptable turbidity levels.

Feel free to call Jim Morgan of National Grid (315.428.3101), Ray Wingert of Brookfield Power (207.671.4646) or me if you have any questions.

-John

---

ARCADIS  
John C. Brussel, PE  
Principal Engineer

6723 Towpath Road, Box 66  
Syracuse, NY 13214-0066

Tel 315.671.9441  
Fax 315.449.4111  
[John.Brussel@arcadis-us.com](mailto:John.Brussel@arcadis-us.com)  
[www.arcadis-us.com](http://www.arcadis-us.com)

ARCADIS, Imagine the result

---

1/25/2008

ARCADIS

**1/25/2008**

**E-Mail Correspondence to the  
NYSDEC, NYSDOH & ACDH**

Surface Water Analytical Results  
for 1/23/08 Monitoring Event

## Brussel, John

---

**From:** Brussel, John  
**Sent:** Friday, January 25, 2008 11:03 AM  
**To:** Maureen E. Schuck; ron; Chris Hogan; Christopher O'Neill  
**Cc:** James F. Morgan; Wingert, Ray; Jeffs, Lucas; Hysell, Matt  
**Subject:** Surface Water Monitoring Results - NYSDEC Site #401044 (Nearshore Sediment Removal, Mohawk River, Former Fire Training Area, Cohoes, NY)  
**Attachments:** CERT\_08010249\_A.pdf; CERT\_08010249.pdf

To: Maureen Schuck - NYSDOH  
Chris O'Neill - NYSDEC Division of Environmental Remediation  
Chris Hogan - NYSDEC Division of Environmental Permits  
Ron Groves - Albany County Health Department

Please find the attached PCB and TSS laboratory analytical results for the surface water samples collected upstream and downstream of the sediment removal area at the above-referenced site on Wednesday, 1/23/08 (on the day prior to the start of dredging). Sampling was performed in accordance with:

- Section 2.6.2 of the NYSDEC-approved Remedial Design; and
- The 401 Water Quality Certification issued by the NYSDEC on October 25, 2007.

The samples were designated by the prefix "SW-US-" or SW-DS-" (for the upstream and downstream samples, respectively) followed by the sample date. As indicated by the laboratory results, PCBs and TSS were not detected above laboratory detection limits in either sample.

Feel free to call me with any questions.

Thanks.

-John

---

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ARCADIS, Imagine the result

---

1/25/2008





CERTIFICATE OF ANALYSIS

01/25/2008

ARCADIS

6723 TOWPATH RD

BOX 66

SYRACUSE, NY 13214

CONTACT: JOHN BRUSSEL

CUSTOMER ID: SW-US-01232008

MATRIX: WATER

DATE RECEIVED: 01/23/2008 TIME: 12:50

SAMPLED BY: L. JEFTS

CUSTOMER PO: N/A

NEA ID: AL01534 NEA LRF: 08010249-01

DATE SAMPLED: 01/23/2008 TIME: 11:20

PROJECT: B0036643.0000 TASK 00019

LOCATION: COHOES, NY

LAB ELAP#: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE ANALYZED	FLAGS
<b>EPA Method 508 (Screen)</b>					
Aroclor 1016	ND	0.0500	ug/L	01/24/2008	U
Aroclor 1221	ND	0.0500	ug/L	01/24/2008	U
Aroclor 1232	ND	0.0500	ug/L	01/24/2008	U
Aroclor 1242	ND	0.0500	ug/L	01/24/2008	U
Aroclor 1248	ND	0.0500	ug/L	01/24/2008	U
Aroclor 1254	ND	0.0500	ug/L	01/24/2008	U
Aroclor 1260	ND	0.0500	ug/L	01/24/2008	U
Total PCB Amount > Reporting Limit	ND				U

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE:

William A. Kotas  
Quality Assurance Officer

Robert E. Wagner  
Laboratory Director





CERTIFICATE OF ANALYSIS

01/25/2008

ARCADIS

6723 TOWPATH RD

BOX 66

SYRACUSE, NY 13214

CONTACT: JOHN BRUSSEL

CUSTOMER ID: SW-DS-01232008

MATRIX: WATER

DATE RECEIVED: 01/23/2008 TIME: 12:50

SAMPLED BY: L. JEFTS

CUSTOMER PO: N/A

NEA ID: AL01535 NEA LRF: 08010249-02

DATE SAMPLED: 01/23/2008 TIME: 11:44

PROJECT: B0036643.0000 TASK 00019

LOCATION: COHOES, NY

LAB ELAP#: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE ANALYZED	FLAGS
<b>EPA Method 508 (Screen)</b>					
Aroclor 1016	ND	0.0500	ug/L	01/24/2008	U
Aroclor 1221	ND	0.0500	ug/L	01/24/2008	U
Aroclor 1232	ND	0.0500	ug/L	01/24/2008	U
Aroclor 1242	ND	0.0500	ug/L	01/24/2008	U
Aroclor 1248	ND	0.0500	ug/L	01/24/2008	U
Aroclor 1254	ND	0.0500	ug/L	01/24/2008	U
Aroclor 1260	ND	0.0500	ug/L	01/24/2008	U
Total PCB Amount > Reporting Limit	ND				U

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE:

William A. Kous  
Quality Assurance Officer

Robert E. Wagner  
Laboratory Director

# CHAIN OF CUSTODY RECORD

## NORTHEAST ANALYTICAL, INC.

2190 Technology Drive, Schenectady, NY 12308  
Telephone (518) 346-4592 Fax (518) 381-6055  
www.nealab.com information@nealab.com

PAGE 1 OF 1

LRF # <08010249P1>

DISPOSAL REQUIREMENTS: (To be filled in by Client)

☐ RETURN TO CLIENT

☒ DISPOSAL BY NORTHEAST ANALYTICAL

☐ ARCHIVAL BY NORTHEAST ANALYTICAL

Additional charges incurred for disposal (if hazardous) or archival. Call for details.

CLIENT (REPORTS TO BE SENT TO): <b>John Brussel and Matt Hyssel</b>		PROJECT/PROJECT NAME: <b>B0036843.0000 Task 00019</b>		PRESERVATIVE CODE: <b>0 - NONE</b>		ENTER ANALYSIS AND METHOD NUMBER REQUESTED	
PROJECT MANAGER: <b>John Brussel ARCADIS</b>		PROJECT LOCATION (CITY/STATE) ADDRESS: <b>National Grid/Brookfield School Street Cohoes, NY</b>		BOTTLE TYPE: <b>1 - HCL</b>		PRESERVATIVE KEY: 0 - NONE 1 - HCL 2 - HNO3 3 - H2SO4 4 - NaOH 5 - Zn Acetate 6 - MeOH 7 - NaHSO4 8 - Other	
PHONE: <b>315-671-9441</b>		REQUIRED TURN AROUND TIME: <b>24-hour (best possible)</b>		BOTTLE SIZE: <b>2</b>		NUMBER OF CONTAINERS <b>2</b>	
SAMPLED BY: (Please Print) <b>Luke Jeffs/ARCADIS</b>		NAME OF COURIER (IF USED): <b>Hand Delivery by ARCADIS</b>		DATE: <b>1/25/08</b>		REMARKS: <b>PCBs (506.1) TSS (160.2)</b>	
SAMPLING FIRM: <b>Luke Jeffs/ARCADIS</b>		Data Report: <input checked="" type="checkbox"/> CLP* <input type="checkbox"/> Certificates Only		DATE: <b>1/25/08</b>			
ELECTRONIC RESULTS FORMAT: <input checked="" type="checkbox"/> PDF <input type="checkbox"/> EXCEL (.CSV)		E-MAIL ADDRESS: <b>John.Brussel@arcadis-us.com/ Matt.Hysell@arcadis-us.com</b>		DATE: <b>1/25/08</b>			
FAXED RESULTS <input checked="" type="checkbox"/>		FAX #: 315-449-4111		DATE: <b>1/25/08</b>			
SAMPLE ID		TIME		DATE			
SW-05-01232008		1120		1/25/08			
SW-05-01232008		1144		1/25/08			
LAB SAMPLE ID (NEA USE ONLY)		GRAB/COMP		DATE			
AL01534		GR		1/25/08			
AL01535		GR		1/25/08			
COC TAPE: Y (N)		COC DISCREPANCIES: Y (N)		COC BROKEN OR LEAKING: Y (N)		COC CHILLED: Y (N)	
RECEIVED BY: <b>John Brussel</b>		RECEIVED BY: <b>John Brussel</b>		RECEIVED BY: <b>John Brussel</b>		RECEIVED BY: <b>John Brussel</b>	
SIGNATURE: <b>John Brussel</b>		SIGNATURE: <b>John Brussel</b>		SIGNATURE: <b>John Brussel</b>		SIGNATURE: <b>John Brussel</b>	
PRINTED NAME: <b>John Brussel</b>		PRINTED NAME: <b>John Brussel</b>		PRINTED NAME: <b>John Brussel</b>		PRINTED NAME: <b>John Brussel</b>	
COMPANY: <b>ARCADIS</b>		COMPANY: <b>ARCADIS</b>		COMPANY: <b>ARCADIS</b>		COMPANY: <b>ARCADIS</b>	
DATE/TIME: <b>1/25/08 11:20</b>		DATE/TIME: <b>1/25/08 11:44</b>		DATE/TIME: <b>1/25/08 11:44</b>		DATE/TIME: <b>1/25/08 11:44</b>	
OTHER NOTES: <b>email chem to Lucas.jeffs@arcadis-us</b>		OTHER NOTES: <b>email chem to Lucas.jeffs@arcadis-us</b>		OTHER NOTES: <b>email chem to Lucas.jeffs@arcadis-us</b>		OTHER NOTES: <b>email chem to Lucas.jeffs@arcadis-us</b>	

\* CLP LIKE DATA PACKAGE ADDITIONAL COST



CERTIFICATE OF ANALYSIS

01/24/2008

ARCADIS

6723 TOWPATH RD

BOX 66

SYRACUSE, NY 13214

CONTACT: JOHN BRUSSEL

MATRIX: WATER

DATE RECEIVED: 01/23/2008 TIME: 12:50

SAMPLED BY: L. JEFTS

CUSTOMER PO: N/A

PROJECT: B0036643.0000 TASK 00019

LOCATION: COHOES, NY

LAB ELAP#: 11078

NEA LRF: 08010249

NEA ID	CUSTOMER ID	METHOD	DATE-TIME SAMPLED	RESULTS	PQL	FLAG	UNITS	DATE ANALYZED
<b>Total Suspended Solids</b>								
AL01534	SW-US-01232008	EPA 160.2	01/23/2008 11:20	ND	2.00	U	mg/L	01/23/2008
AL01535	SW-DS-01232008	EPA 160.2	01/23/2008 11:44	ND	2.00	U	mg/L	01/23/2008

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE:

William A. Kotas  
Quality Assurance Officer

Robert E. Wagner  
Laboratory Director

**Brussel, John**


---

**From:** Brussel, John  
**Sent:** Monday, January 28, 2008 4:29 PM  
**To:** gnathan@ci.cohoes.ny.us  
**Cc:** Ray Wingert; James F. Morgan  
**Subject:** FW: Surface Water Monitoring Results - NYSDEC Site #401044 (Nearshore Sediment Removal, Mohawk River, Former Fire Training Area, Cohoes, NY)  
**Attachments:** CERT\_08010249\_A.pdf; CERT\_08010249.pdf

Gary - Per a request from Ray Wingert of Brookfield Power, please find the attached analytical results for surface water sampling performed in connection with the sediment dredging near the former fire training area (upstream from the power canal) at the School Street Hydroelectric Station. I'll forward you other recent e-mails transmitting results to NYSDEC/NYSDOH, and will include you on the future e-mails distributing results.

-John

---

**From:** Brussel, John  
**Sent:** Friday, January 25, 2008 11:03 AM  
**To:** Maureen E. Schuck; ron; Chris Hogan; Christopher O'Neill  
**Cc:** James F. Morgan; Wingert, Ray; Jefts, Lucas; Hysell, Matt  
**Subject:** Surface Water Monitoring Results - NYSDEC Site #401044 (Nearshore Sediment Removal, Mohawk River, Former Fire Training Area, Cohoes, NY)

To: Maureen Schuck - NYSDOH  
 Chris O'Neill - NYSDEC Division of Environmental Remediation  
 Chris Hogan - NYSDEC Division of Environmental Permits  
 Ron Groves - Albany County Health Department

Please find the attached PCB and TSS laboratory analytical results for the surface water samples collected upstream and downstream of the sediment removal area at the above-referenced site on Wednesday, 1/23/08 (on the day prior to the start of dredging). Sampling was performed in accordance with:

- Section 2.6.2 of the NYSDEC-approved Remedial Design; and
- The 401 Water Quality Certification issued by the NYSDEC on October 25, 2007.

The samples were designated by the prefix "SW-US-" or "SW-DS-" (for the upstream and downstream samples, respectively) followed by the sample date. As indicated by the laboratory results, PCBs and TSS were not detected above laboratory detection limits in either sample.

Feel free to call me with any questions.

Thanks.

-John

---

ARCADIS  
 John C. Brussel, PE  
 Principal Engineer

6723 Towpath Road, Box 66

1/28/2008

Syracuse, NY 13214-0066

Tel 315.671.9441

Fax 315.449.4111

[John.Brussel@arcadis-us.com](mailto:John.Brussel@arcadis-us.com)

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---

ARCADIS

**1/25/2008**

**E-Mail Correspondence to the  
NYSDOH**

City of Cohoes Intake Gate  
Closure, Preliminary PCB Surface  
Water Analytical Results for  
1/24/08 Monitoring Event

## Brussel, John

---

**From:** Brussel, John  
**Sent:** Friday, January 25, 2008 5:57 PM  
**To:** 'Maureen E. Schuck'  
**Cc:** cxoneill@gw.dec.state.ny.us; Groves, Ronald; Chris Hogan; James F. Morgan; Wingert, Ray; Mike Reader; Jefts, Lucas; Hysell, Matt  
**Subject:** RE: Surface Water Monitoring Results - NYSDEC Site #401044 (Nearshore Sediment Removal, Mohawk River, Former Fire Training Area, Cohoes, NY)

Maureen:

Per a call this evening with NEA, the laboratory verbally reported that PCBs were not detected above laboratory detection limits in any of the water samples collected yesterday (during dredging). PDF copies of the results are expected on Monday and will be forwarded following receipt.

We'll keep you posted on the status of work next week.

-John

-----Original Message-----

**From:** Maureen E. Schuck [mailto:mer10@health.state.ny.us]  
**Sent:** Friday, January 25, 2008 11:54 AM  
**To:** Brussel, John  
**Cc:** cxoneill@gw.dec.state.ny.us; Groves, Ronald  
**Subject:** RE: Surface Water Monitoring Results - NYSDEC Site #401044 (Nearshore Sediment Removal, Mohawk River, Former Fire Training Area, Cohoes, NY)

John- Thanks for the update!

Maureen

Maureen E. Schuck  
Public Health Specialist  
Center for Environmental Health  
NYS Department of Health/ BEEI  
mer10@health.state.ny.us  
(518) 402-7860  
fax. (518) 402-7859

"Brussel, John"  
<John.Brusssel@arc  
adis-us.com>

01/25/2008 11:45  
AM

"Maureen E. Schuck"  
<mer10@health.state.ny.us>

To

cc

Chris Hogan  
<cmhogan@gw.dec.state.ny.us>,  
"Christopher O'Neill"  
<cxoneill@gw.dec.state.ny.us>,  
"James F. Morgan"  
<James.F.Morgan@us.ngrid.com>,  
"Wingert, Ray"  
<ray.wingert@brookfieldpower.com>,  
Mike Reader  
<mike.reader@chantconstruction.com>  
, "Jefts, Lucas"

<Lucas.Jefts@arcadis-us.com>,  
"Hysell, Matt"  
<Matt.Hysell@arcadis-us.com>

Subject

RE: Surface Water Monitoring  
Results - NYSDEC Site #401044  
(Nearshore Sediment Removal, Mohawk  
River, Former Fire Training Area,  
Cohoes, NY)

Maureen:

Per a conversation with Chris O'Neill this morning, I wanted to let you know that Brookfield Power has been coordinating with the City of Cohoes on the gate closure for the water supply intakes. The gates have been closed since prior to the start of dredging. The City will reopen the gates later today to replenish their reservoir this weekend.

Another round of surface water samples will be collected today for analysis. Dredging will resume pending approval of the bucket change from Chris Hogan (perhaps Monday, if not this afternoon).

-John

From: Brussel, John  
Sent: Friday, January 25, 2008 11:03 AM  
To: Maureen E. Schuck; ron; Chris Hogan; Christopher O'Neill  
Cc: James F. Morgan; Wingert, Ray; Jefts, Lucas; Hysell, Matt  
Subject: Surface Water Monitoring Results - NYSDEC Site #401044 (Nearshore Sediment Removal, Mohawk River, Former Fire Training Area, Cohoes, NY)

To: Maureen Schuck - NYSDOH  
Chris O'Neill - NYSDEC Division of Environmental Remediation  
Chris Hogan - NYSDEC Division of Environmental Permits  
Ron Groves - Albany County Health Department

Please find the attached PCB and TSS laboratory analytical results for the surface water samples collected upstream and downstream of the sediment removal area at the above-referenced site on Wednesday, 1/23/08 (on the day prior to the start of dredging). Sampling was performed in accordance with:

- Section 2.6.2 of the NYSDEC-approved Remedial Design; and
- The 401 Water Quality Certification issued by the NYSDEC on October 25, 2007.

The samples were designated by the prefix "SW-US-" or "SW-DS-" (for the upstream and downstream samples, respectively) followed by the sample date. As indicated by the laboratory results, PCBs and TSS were not detected above laboratory detection limits in either sample.

Feel free to call me with any questions.

Thanks.

-John



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Principal Engineer

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www.arcadis-us.com

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---

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ARCADIS

**1/28/2008**

**E-Mail Correspondence to the  
NYSDEC**

Progress Update, Difficulties with  
Environmental Dredging Bucket

## Brussel, John

---

**From:** Brussel, John  
**Sent:** Monday, January 28, 2008 8:39 AM  
**To:** Chris Hogan  
**Cc:** James F. Morgan; Wingert, Ray  
**Subject:** RE: Surface Water Monitoring Results - NYSDEC Site #401044 (Nearshore Sediment Removal, Mohawk River)

Chris - D.A. Collins was unable to remove more than approximately 0.1 CY per bucket via the environmental bucket Thursday afternoon (after our site visit ended). Work on Friday consisted of stabilizing the dredged sediment -- no dredging was performed. D.A. Collins installed the conventional bucket late Thursday morning and is waiting for NYSDEC approval to begin dredging with the conventional bucket.

-John

-----Original Message-----

**From:** Chris Hogan [mailto:cmhogan@gw.dec.state.ny.us]  
**Sent:** Monday, January 28, 2008 8:31 AM  
**To:** Brussel, John  
**Subject:** RE: Surface Water Monitoring Results - NYSDEC Site #401044 (Nearshore Sediment Removal, Mohawk River)

John - I was off on Friday. I just got your messages. What is the status? Karen should be in shortly.

>>> "Brussel, John" <John.Brussel@arcadis-us.com> 1/25/2008 5:57 PM >>>  
Maureen:

Per a call this evening with NEA, the laboratory verbally reported that PCBs were not detected above laboratory detection limits in any of the water samples collected yesterday (during dredging). PDF copies of the results are expected on Monday and will be forwarded following receipt.

We'll keep you posted on the status of work next week.

-John

-----Original Message-----

**From:** Maureen E. Schuck [mailto:mer10@health.state.ny.us]  
**Sent:** Friday, January 25, 2008 11:54 AM  
**To:** Brussel, John  
**Cc:** cxoneill@gw.dec.state.ny.us; Groves, Ronald  
**Subject:** RE: Surface Water Monitoring Results - NYSDEC Site #401044 (Nearshore Sediment Removal, Mohawk River, Former Fire Training Area, Cohoes, NY)

John- Thanks for the update!

Maureen

Maureen E. Schuck  
Public Health Specialist  
Center for Environmental Health  
NYS Department of Health/ BEEI  
mer10@health.state.ny.us  
(518) 402-7860  
fax. (518) 402-7859

"Brussel, John"  
<John.Brussel@arc  
adis-us.com>

01/25/2008 11:45  
AM

"Maureen E. Schuck"  
<mer10@health.state.ny.us>

To

cc

Chris Hogan  
<cmhogan@gw.dec.state.ny.us>,  
"Christopher O'Neill"  
<cxoneill@gw.dec.state.ny.us>,  
"James F. Morgan"  
<James.F.Morgan@us.ngrid.com>,  
"Wingert, Ray"  
<ray.wingert@brookfieldpower.com>,  
Mike Reader  
<mike.reader@chantconstruction.com>  
, "Jefts, Lucas"  
<Lucas.Jefts@arcadis-us.com>,  
"Hysell, Matt"  
<Matt.Hysell@arcadis-us.com>

Subject

RE: Surface Water Monitoring  
Results - NYSDEC Site #401044  
(Nearshore Sediment Removal, Mohawk  
River, Former Fire Training Area,  
Cohoes, NY)

Maureen:

Per a conversation with Chris O'Neill this morning, I wanted to let you know that Brookfield Power has been coordinating with the City of Cohoes on the gate closure for the water supply intakes. The gates have been closed since prior to the start of dredging. The City will reopen the gates later today to replenish their reservoir this weekend.

Another round of surface water samples will be collected today for analysis. Dredging will resume pending approval of the bucket change from Chris Hogan (perhaps Monday, if not this afternoon).

-John

From: Brussel, John  
Sent: Friday, January 25, 2008 11:03 AM  
To: Maureen E. Schuck; ron; Chris Hogan; Christopher O'Neill  
Cc: James F. Morgan; Wingert, Ray; Jefts, Lucas; Hysell, Matt  
Subject: Surface Water Monitoring Results - NYSDEC Site #401044 (Nearshore Sediment Removal, Mohawk River, Former Fire Training Area, Cohoes, NY)

To: Maureen Schuck - NYSDOH  
Chris O'Neill - NYSDEC Division of Environmental Remediation  
Chris Hogan - NYSDEC Division of Environmental Permits  
Ron Groves - Albany County Health Department

Please find the attached PCB and TSS laboratory analytical results for the surface water samples collected upstream and downstream of the sediment removal area at the above-referenced site on Wednesday, 1/23/08 (on the day prior to the start of dredging). Sampling was performed in accordance

with:

- Section 2.6.2 of the NYSDEC-approved Remedial Design; and
- The 401 Water Quality Certification issued by the NYSDEC on October 25, 2007.

The samples were designated by the prefix "SW-US-" or SW-DS-" (for the upstream and downstream samples, respectively) followed by the sample date. As indicated by the laboratory results, PCBs and TSS were not detected above laboratory detection limits in either sample.

Feel free to call me with any questions.

Thanks.

-John

---

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ARCADIS

**1/28/2008**

**E-Mail Correspondence to the  
NYSDEC, NYSDOH & ACHD**

Surface Water Analytical Results  
for 1/24/08 Monitoring Event

**Brussel, John**

---

**From:** Brussel, John  
**Sent:** Monday, January 28, 2008 8:51 AM  
**To:** 'Maureen E. Schuck'; cxoneill@gw.dec.state.ny.us; 'Chris Hogan'; Groves, Ronald  
**Cc:** James F. Morgan; Wingert, Ray; Jeffs, Lucas; Hysell, Matt  
**Subject:** Results for Surface Water Monitoring on 1/24/08 - NYSDEC Site No. 401044 (Mohawk River, School Street Hydro, Cohoes, NY)  
**Attachments:** CERT\_08010258\_A.pdf; CERT\_08010258.pdf

All:

Please find the attached PCB and TSS laboratory analytical results for the surface water samples collected upstream and downstream of the sediment removal area at the above-referenced site on Thursday, 1/24/08, during the first day of dredging. The samples were designated by the prefix "SW-US-" or "SW-DS-" (for the upstream and downstream samples, respectively) followed by the sample date. As indicated by the laboratory results, PCBs were not detected above the laboratory detection limit in either sample. TSS was detected at low concentrations in both samples (5.6 mg/L in the upstream sample and 2.4 mg/L in the downstream sample). Duplicate sample results will be forwarded following receipt.

Feel free to call me with any questions.

Thanks.

-John

---

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Principal Engineer

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Fax 315.449.4111  
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[www.arcadis-us.com](http://www.arcadis-us.com)

ARCADIS, Imagine the result

---

---

**From:** Kellyann Oxe [mailto:KellyannO@nealab.com]  
**Sent:** Monday, January 28, 2008 7:42 AM  
**To:** Brussel, John; Hysell, Matt  
**Subject:** Project B0036643.0000 TASK 00019-COHOES, NY (08010258)

*Please see the attached file for the certificates of analysis for EPA Method 508 PCB for LRF# 08010258. If you have any questions please feel free to contact me.*

*Kellyann Oxe  
Northeast Analytical, Inc.*

1/28/2008

*Phone: (518) 346-4592 ext. 10*

*Fax: (518) 381-6055*

*email*

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PAGE 1 OF 1

DISPOSAL REQUIREMENTS: (To be filled in by Client)

- ☐ RETURN TO CLIENT  
☒ DISPOSAL BY NORTHEAST ANALYTICAL  
☐ ARCHIVAL BY NORTHEAST ANALYTICAL

Additional charges incurred for disposal (if hazardous) or archival. Call for details.

LRP # <08010258P1>

CLIENT (REPORTS TO BE SENT TO): John Brussel and Matt Hysell PROJECT MANAGER: John Brussel ARCADIS PHONE: 315-671-9441		PROJECT/PROJECT NAME: B0036643 0000 Task 00019 PROJECT LOCATION (CITY/STATE) ADDRESS: National Grid/Brookfield School Street Cohoes, NY		PRESERVATIVE CODE: BOTTLE TYPE: BOTTLE SIZE:		ENTER ANALYSIS AND METHOD NUMBER REQUESTED	
SAMPLED BY: (Please Print) Luke Jeffs / Pat Doyle		REQUIRED TURN AROUND TIME: 24-hour (best possible)		PRESERVATIVE KEY: 0 - NONE 1 - HCL 2 - HNO3 3 - H2SO4 4 - NaOH 5 - Zn Acetate 6 - MeOH 7 - NaHSO4 8 - Other			
SAMPLING FIRM: Luke Jeffs/ARCADIS		NAME OF COURIER (IF USED): Hand delivery by ARCADIS		NUMBER OF CONTAINERS		REMARKS:	
ELECTRONIC RESULTS FORMAT: PDF <input checked="" type="checkbox"/> EXCEL (CSV) <input type="checkbox"/>		E-MAIL ADDRESS: John.Brussel@arcadis-us.com Matt.Hysell@arcadis-us.com		LAB SAMPLE ID (NEA USE ONLY)			
FAXED RESULTS <input checked="" type="checkbox"/>		FAX # 315-449-4111		GRAB/COMP			
SAMPLE ID	DATE	TIME	MATRIX	GRAB	COMP		
SW-US-01242008	1/24/08	1220	WA	Grab	ALLO1120		
SW-DS-01242008	1/24/08	1230	WA	Grab	ALLO1120		
SW-DUP-01242008							
SW-MS-01242008							
SW-MSD-01242008							
				COC TAPE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>			
				COC DISCREPANCIES: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>			
CLIENT OR CHILLED: TEMP: 4.28				COC TAPE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>			
RECEIVED BROKEN OR LEAKING: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>				COC DISCREPANCIES: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>			
RECEIVED BY: SIGNATURE: [Signature]				RECEIVED BY: SIGNATURE: [Signature]			
PRINTED NAME: Luke Jeffs				PRINTED NAME: [Signature]			
COMPANY: ARCADIS				COMPANY: [Signature]			
DATE/TIME: 1/24/08 12:30				DATE/TIME: 1/24/08 12:30			
OTHER NOTES: Encl Chan to Lucas.jeffs@arcadis-us.com							

**CERTIFICATE OF ANALYSIS****1/26/2008****ARCADIS****6723 TOWPATH RD****BOX 66****SYRACUSE, NY 13214****CONTACT: JOHN BRUSSEL****CUSTOMER ID:** SW-US-01242008**MATRIX:** WATER**DATE RECEIVED:** 1/24/2008 **TIME:** 13:40**SAMPLED BY:** JEFTS/DOUGLAS**CUSTOMER PO:** N/A**NEA ID:** AL01625**NEA LRF:** 08010258-01**DATE SAMPLED:** 01/24/2008 **TIME:** 12:20**PROJECT:** B0036643.0000 TASK 00019**LOCATION:** COHOES, NY**LAB ELAP#:** 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE ANALYZED	FLAGS
<b>EPA Method 508 (Screen)</b>					
Aroclor 1016	ND	0.0500	ug/L	01/25/2008	U
Aroclor 1221	ND	0.0500	ug/L	01/25/2008	U
Aroclor 1232	ND	0.0500	ug/L	01/25/2008	U
Aroclor 1242	ND	0.0500	ug/L	01/25/2008	U
Aroclor 1248	ND	0.0500	ug/L	01/25/2008	U
Aroclor 1254	ND	0.0500	ug/L	01/25/2008	U
Aroclor 1260	ND	0.0500	ug/L	01/25/2008	U
Total PCB Amount > Reporting Limit	ND				U

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE:

William A. Kotas  
Quality Assurance OfficerRobert E. Wagner  
Laboratory Director



CERTIFICATE OF ANALYSIS

1/26/2008

ARCADIS

6723 TOWPATH RD

BOX 66

SYRACUSE, NY 13214

CONTACT: JOHN BRUSSEL

CUSTOMER ID: SW-DS-01242008

MATRIX: WATER

DATE RECEIVED: 1/24/2008 TIME: 13:40

SAMPLED BY: JEFTS/DOUGLAS

CUSTOMER PO: N/A

NEA ID: AL01626

NEA LRF: 08010258-02

DATE SAMPLED: 01/24/2008 TIME: 12:30

PROJECT: B0036643.0000 TASK 00019

LOCATION: COHOES, NY

LAB ELAP#: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE ANALYZED	FLAGS
<b>EPA Method 508 (Screen)</b>					
Aroclor 1016	ND	0.0500	ug/L	01/25/2008	U
Aroclor 1221	ND	0.0500	ug/L	01/25/2008	U
Aroclor 1232	ND	0.0500	ug/L	01/25/2008	U
Aroclor 1242	ND	0.0500	ug/L	01/25/2008	U
Aroclor 1248	ND	0.0500	ug/L	01/25/2008	U
Aroclor 1254	ND	0.0500	ug/L	01/25/2008	U
Aroclor 1260	ND	0.0500	ug/L	01/25/2008	U
Total PCB Amount > Reporting Limit	ND				U

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE:

William A. Kotas  
Quality Assurance Officer

Robert E. Wagner  
Laboratory Director





CERTIFICATE OF ANALYSIS

01/25/2008

ARCADIS

6723 TOWPATH RD

BOX 66

SYRACUSE, NY 13214

CONTACT: JOHN BRUSSEL

MATRIX: WATER

DATE RECEIVED: 01/24/2008 TIME: 13:40

SAMPLED BY: JEFTS/DOUGLAS

CUSTOMER PO: N/A

PROJECT: B0036643.0000 TASK 00019

LOCATION: COHOES, NY

LAB ELAP#: 11078

NEA LRF: 08010258

NEA ID	CUSTOMER ID	METHOD	DATE-TIME SAMPLED	RESULTS	PQL	FLAG	UNITS	DATE ANALYZED
<b>Total Suspended Solids</b>								
AL01625	SW-US-01242008	EPA 160.2	01/24/2008 12:20	5.60	2.00		mg/L	01/24/2008
AL01626	SW-DS-01242008	EPA 160.2	01/24/2008 12:30	2.40	2.00		mg/L	01/24/2008

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE:

William A. Kotas  
Quality Assurance Officer

Robert E. Wagner  
Laboratory Director

ARCADIS

1/29/2008

**E-Mail Correspondence from  
the NYSDEC**

401 WQC Modification

## Brussel, John

---

**From:** Chris Hogan [cmhogan@gw.dec.state.ny.us]  
**Sent:** Monday, January 28, 2008 1:09 PM  
**To:** Ronald Groves; Brussel, John; Christopher O'Neill; Maureen E. Schuck  
**Cc:** Jefts, Lucas; Hysell, Matt; Ray Wingert; Thomas Uncher; Mike Reader; James F. Morgan  
**Subject:** RE: Results for Surface Water Monitoring on 1/24/08 - NYSDEC Site No. 401044 (Mohawk River, School S)

**Attachments:** fire training 401 mod.pdf



fire training  
1 mod.pdf (41

Attached is the letter modifying the permit. Please contact me if you have any questions.

>>> "Brussel, John" <John.Brussel@arcadis-us.com> 1/28/2008 11:20 AM >>>  
Chris:

Per a conversation with NEA's senior chemist, the fastest the laboratory can run the PCB water sample analysis by Method 508 is 36 hours (due to the timeframe needed for QA/QC checks with the method).

A 24 hour turnaround could be provided if the NYSDEC were to agree to the use of a different analytical method:

- USEPA Method 608 (which is commonly used for wastewater analyses); or
- USEPA SW-846 Method 8082 (which is commonly used for solid/liquid waste analyses).

The desired 0.05 ppb detection limit can be achieved using either of these two alternate methods. I'm told that both methods are more quantitative than Method 508. Although Method 508 is commonly used as a drinking water method, I'm told it is actually more of a screening (qualitative) method. NEA has several machines set up to run Method 608 and a few to run 8082, but they indicate they can achieve the 24-hour turnaround with either method.

Feel free to call me at 315.671.9441 if you have any questions or require additional information.

-John

-----Original Message-----

From: Chris Hogan [mailto:cmhogan@gw.dec.state.ny.us]  
Sent: Monday, January 28, 2008 9:56 AM  
To: Ronald Groves; Brussel, John; Christopher O'Neill; Maureen E. Schuck  
Cc: Jefts, Lucas; Hysell, Matt; Ray Wingert; James F. Morgan  
Subject: Re: Results for Surface Water Monitoring on 1/24/08 - NYSDEC Site No. 401044 (Mohawk River, School S)

I just spoke with Karen. She is sending me a memo indicating we will agree to the change in the bucket provided there is a 24 turn around on the samples. If any conditions of the permit are exceeded work must stop and additional measures must be taken. I will turn this into a letter, get it signed and e-mail it to Ray.

>>> "Brussel, John" <John.Brussel@arcadis-us.com> 1/28/2008 8:50 AM >>>  
All:

Please find the attached PCB and TSS laboratory analytical results for the surface water samples collected upstream and downstream of the sediment removal area at the above-referenced site on Thursday, 1/24/08, during the first day of dredging. The samples were

designated by the prefix "SW-US-" or SW-DS-" (for the upstream and downstream samples, respectively) followed by the sample date. As indicated by the laboratory results, PCBs were not detected above the laboratory detection limit in either sample. TSS was detected at low concentrations in both samples (5.6 mg/L in the upstream sample and 2.4 mg/L in the downstream sample). Duplicate sample results will be forwarded following receipt.

Feel free to call me with any questions.

Thanks.

-John

---

ARCADIS  
John C. Brussel, PE  
Principal Engineer

6723 Towpath Road, Box 66  
Syracuse, NY 13214-0066

Tel 315.671.9441

Fax 315.449.4111

John.Brussel@arcadis-us.com<BLOCKED::mailto:John.Brussel@arcadis-us.com>

www.arcadis-us.com<http://www.arcadis-us.com/>

ARCADIS, Imagine the result

---

---

From: Kellyann Oxer [mailto:KellyannO@nealab.com]

Sent: Monday, January 28, 2008 7:42 AM

To: Brussel, John; Hysell, Matt

Subject: Project B0036643.0000 TASK 00019-COHOES, NY (08010258)

Please see the attached file for the certificates of analysis for EPA Method 508 PCB for LRF# 08010258. If you have any questions please feel free to contact me.

Kellyann Oxer

Northeast Analytical, Inc.

Phone: (518) 346-4592 ext. 10

Fax: (518) 381-6055

emailKellyannO@nealab.com

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ARCADIS

**1/28/2008**

**E-Mail Correspondence to the  
NYSDEC, NYSDOH & ACHD**

Updated Schedule for Dredging

## Brussel, John

---

**From:** Brussel, John  
**Sent:** Monday, January 28, 2008 4:21 PM  
**To:** Chris Hogan; Ronald Groves; Christopher O'Neill; Maureen E. Schuck  
**Cc:** Jeffs, Lucas; Hysell, Matt; Ray Wingert; Thomas Uncher; Lukas, Timothy; Mike Reader; James F. Morgan  
**Subject:** Updated Project Schedule - NYSDEC Site No. 401044 (Mohawk River, School Street Hydro, Cohoes, NY)

**Attachments:** 2008.0128-Remediation Project Schedule (Site 401044).pdf



2008.0128-Re  
mediation Project

All:

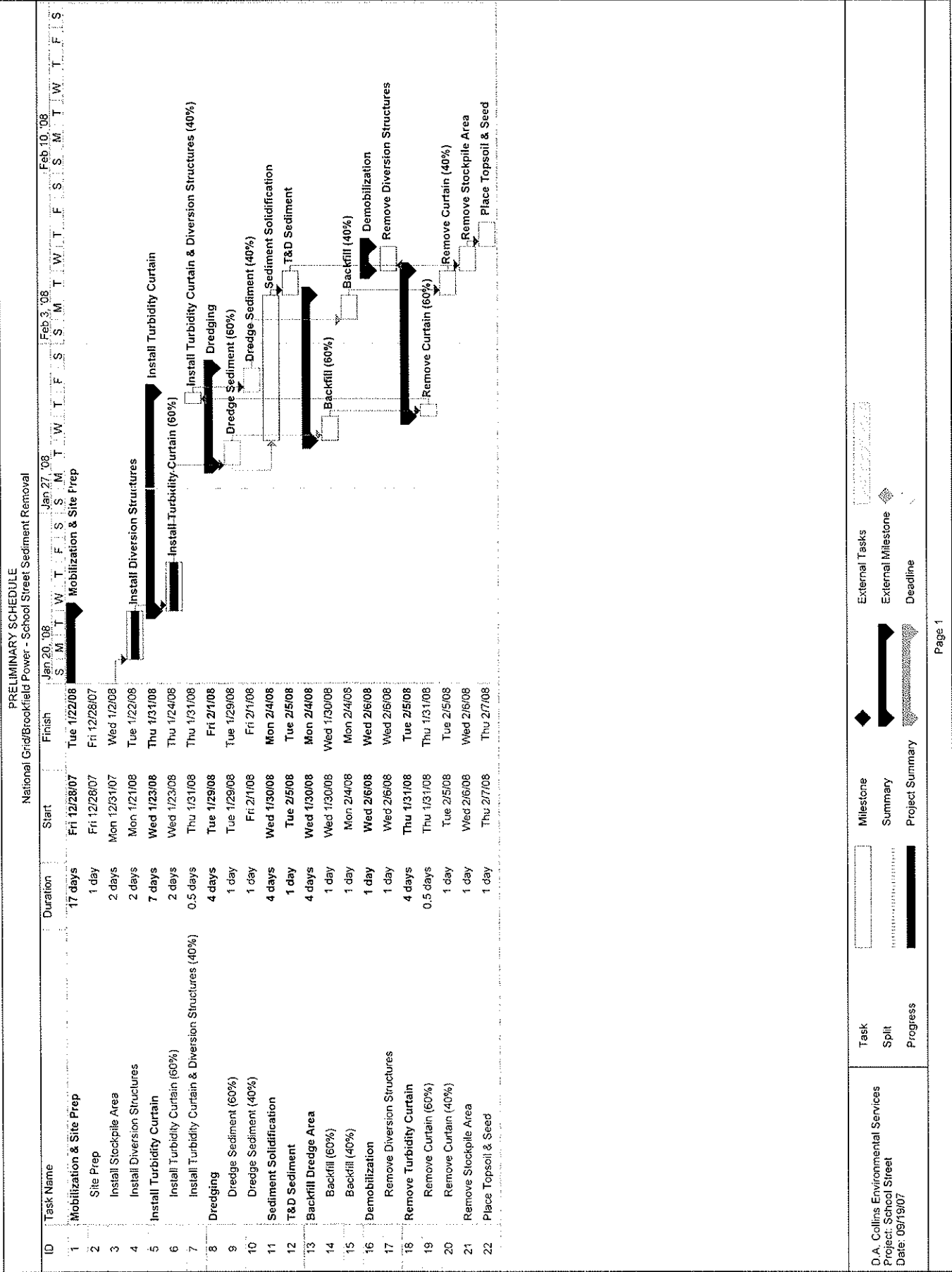
The updated schedule for dredging is attached. As indicated on the schedule, D.A. Collins plans to resume dredging tomorrow morning. Per Brookfield's discussions with the City of Cohoes earlier today, the City will close the water supply intakes in the power canal prior to the dredging tomorrow. The intakes will remain closed until Thursday (when the City will need to replenish their raw water reservoir). Seven of the gates at Brookfield's upper gatehouse are currently closed and will remain closed for the duration of the work.

PCB surface water sampling will be performed each day this week. The laboratory is aware that the water sample analysis needs to be completed on a 24 hour turnaround. I'll continue to forward results as soon as possible following receipt.

Thanks for the NYSDEC's quick response to the dredging modification request.

Feel free to call Jim Morgan (315.428.3101), Ray Wingert (207.671.4646), or me (315.671.9441) with any questions.

-John



ARCADIS

**1/28/2008**

**E-Mail Correspondence to the  
NYSDEC, NYSDOH & ACHD**

Surface Water Analytical Results  
for 1/25/08 Monitoring Event

## Brussel, John

---

**From:** Brussel, John  
**Sent:** Monday, January 28, 2008 5:54 PM  
**To:** Maureen E. Schuck; cxoneill@gw.dec.state.ny.us; Chris Hogan; Groves, Ronald; 'gnathan@ci.cohoes.ny.us'  
**Cc:** James F. Morgan; Wingert, Ray; Mike Reader; Jefts, Lucas; Hysell, Matt  
**Subject:** Results for Surface Water Monitoring on 1/25/08 - NYSDEC Site No. 401044 (Mohawk River, School Street Hydro, Cohoes, NY)  
**Attachments:** CERT\_PCB\_08010267\_3\_PCB\_L\_508\_Rev00.pdf; CERT\_08010267.pdf

All:

Please find the attached PCB and TSS laboratory analytical results for the surface water samples collected upstream and downstream of the sediment removal area at the above-referenced site on Friday, 1/25/08. Note that no dredging was performed on 1/25/08. Samples were collected for analysis to provide "post-dredging" data for documentation purposes.

The samples were designated by the prefix "SW-US-" or "SW-DS-" (for the upstream and downstream samples, respectively) followed by the sample date. As indicated by the laboratory results, PCBs were not detected above the laboratory detection limit in either sample. TSS was detected at low concentrations in both samples (2.40 mg/L in the upstream sample and 4.35 mg/L in the downstream sample).

Feel free to call me with any questions.

Thanks.

-John

---

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Principal Engineer

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Tel 315.671.9441  
Fax 315.449.4111  
[John.Brussel@arcadis-us.com](mailto:John.Brussel@arcadis-us.com)  
[www.arcadis-us.com](http://www.arcadis-us.com)

ARCADIS, Imagine the result

---

1/28/2008



CERTIFICATE OF ANALYSIS  
1/28/2008  
ARCADIS  
6723 TOWPATH RD  
BOX 66  
SYRACUSE, NY 13214  
CONTACT: JOHN BRUSSEL

CUSTOMER ID: SW-US-01252008 NEA ID: AL01682 NEA LRF: 08010267-01  
MATRIX: WATER DATE SAMPLED: 01/25/2008 TIME: 13:10  
DATE RECEIVED: 1/25/2008 TIME: 14:45 PROJECT: B0036643.0000 TASK 00019  
SAMPLED BY: L. JEFTS LOCATION: COHOES, NY  
CUSTOMER PO: N/A LAB ELAP#: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE ANALYZED	FLAGS
<b>EPA Method 508 (Screen)</b>					
Aroclor 1016	ND	0.0500	ug/L	01/28/2008	U
Aroclor 1221	ND	0.0500	ug/L	01/28/2008	U
Aroclor 1232	ND	0.0500	ug/L	01/28/2008	U
Aroclor 1242	ND	0.0500	ug/L	01/28/2008	U
Aroclor 1248	ND	0.0500	ug/L	01/28/2008	U
Aroclor 1254	ND	0.0500	ug/L	01/28/2008	U
Aroclor 1260	ND	0.0500	ug/L	01/28/2008	U
Total PCB Amount > Reporting Limit	ND				U

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.  
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE:

William A. Kotas  
Quality Assurance Officer  
Robert E. Wagner  
Laboratory Director



**CERTIFICATE OF ANALYSIS**  
**1/28/2008**  
**ARCADIS**  
**6723 TOWPATH RD**  
**BOX 66**  
**SYRACUSE, NY 13214**  
**CONTACT: JOHN BRUSSEL**

**CUSTOMER ID:** SW-DS-01252008

**MATRIX:** WATER

**DATE RECEIVED:** 1/25/2008 **TIME:** 14:45

**SAMPLED BY:** L. JEFTS

**CUSTOMER PO:** N/A

**NEA ID:** AL01683

**NEA LRF:** 08010267-02

**DATE SAMPLED:** 01/25/2008 **TIME:** 13:30

**PROJECT:** B0036643.0000 TASK 00019

**LOCATION:** COHOES, NY

**LAB ELAP#:** 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE ANALYZED	FLAGS
<b>EPA Method 508 (Screen)</b>					
Aroclor 1016	ND	0.0500	ug/L	01/28/2008	U
Aroclor 1221	ND	0.0500	ug/L	01/28/2008	U
Aroclor 1232	ND	0.0500	ug/L	01/28/2008	U
Aroclor 1242	ND	0.0500	ug/L	01/28/2008	U
Aroclor 1248	ND	0.0500	ug/L	01/28/2008	U
Aroclor 1254	ND	0.0500	ug/L	01/28/2008	U
Aroclor 1260	ND	0.0500	ug/L	01/28/2008	U
Total PCB Amount > Reporting Limit	ND				U

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

**AUTHORIZED SIGNATURE:**

William A. Kotas  
Quality Assurance Officer

Robert E. Wagner  
Laboratory Director

**DISPOSAL REQUIREMENTS: (To be filled in by Client)**

2190 Technology Drive, Schenectady, NY 12308  
Telephone (518) 346-4592 Fax (518) 381-6055  
www.nealab.com information@nealab.com

RETURN TO CLIENT  
DISPOSAL BY NORTHEAST ANALYTICAL  
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CERTIFICATE OF ANALYSIS

01/28/2008

ARCADIS

6723 TOWPATH RD

BOX 66

SYRACUSE, NY 13214

CONTACT: JOHN BRUSSEL

MATRIX: WATER

DATE RECEIVED: 01/25/2008 TIME: 14:45

SAMPLED BY: L. JEFTS

CUSTOMER PO: N/A

PROJECT: B0036643.0000 TASK 00019

LOCATION: COHOES, NY

LAB ELAP#: 11078

NEA LRF: 08010267

NEA ID	CUSTOMER ID	METHOD	DATE-TIME SAMPLED	RESULTS	PQL	FLAG	UNITS	DATE ANALYZED
<b>Total Suspended Solids</b>								
AL01682	SW-US-01252008	EPA 160.2	01/25/2008 13:10	2.40	2.00		mg/L	01/25/2008
AL01683	SW-DS-01252008	EPA 160.2	01/25/2008 13:30	4.35	2.17		mg/L	01/25/2008

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE:

William A. Kotas  
Quality Assurance Officer

Robert E. Wagner  
Laboratory Director

ARCADIS

**1/29/2008**

**E-Mail Correspondence to the  
NYSDEC, NYSDOH & ACHD**

Success with Conventional  
Dredging Bucket

## Brussel, John

---

**From:** Brussel, John  
**Sent:** Tuesday, January 29, 2008 3:59 PM  
**To:** Chris Hogan; Ronald Groves; Christopher O'Neill; Maureen E. Schuck  
**Cc:** Jefts, Lucas; Hysell, Matt; Ray Wingert; Thomas Uncher; Lukas, Timothy; Mike Reader; James F. Morgan  
**Subject:** RE: Updated Project Schedule - NYSDEC Site No. 401044 (Mohawk River, School Street Hydro, Cohoes, NY)

All:

I wanted to let you know that dredging is going well today. Approximately 40 cubic yards of sediment have been removed so far using the conventional bucket. Based on observations by our onsite field staff, the turbidity increase in the work area appears to be similar to that seen last Thursday when dredging was performed using the environmental bucket. In addition, there continues to be no visible turbidity increase outside the turbidity barriers. Field measurements indicate that the river water turbidity upstream and downstream from the work area is generally consistent. In some cases, the upstream turbidity measurements are higher than the downstream measurements (the same as was observed during the baseline monitoring prior to dredging).

Feel free to call me at 315.671.9441 if you have any questions.

-John

-----Original Message-----

**From:** Brussel, John  
**Sent:** Monday, January 28, 2008 4:21 PM  
**To:** Chris Hogan; Ronald Groves; Christopher O'Neill; Maureen E. Schuck  
**Cc:** Jefts, Lucas; Hysell, Matt; Ray Wingert; Thomas Uncher; Lukas, Timothy; Mike Reader; James F. Morgan  
**Subject:** Updated Project Schedule - NYSDEC Site No. 401044 (Mohawk River, School Street Hydro, Cohoes, NY)

All:

The updated schedule for dredging is attached. As indicated on the schedule, D.A. Collins plans to resume dredging tomorrow morning. Per Brookfield's discussions with the City of Cohoes earlier today, the City will close the water supply intakes in the power canal prior to the dredging tomorrow. The intakes will remain closed until Thursday (when the City will need to replenish their raw water reservoir). Seven of the gates at Brookfield's upper gatehouse are currently closed and will remain closed for the duration of the work.

PCB surface water sampling will be performed each day this week. The laboratory is aware that the water sample analysis needs to be completed on a 24 hour turnaround. I'll continue to forward results as soon as possible following receipt.

Thanks for the NYSDEC's quick response to the dredging modification request.

Feel free to call Jim Morgan (315.428.3101), Ray Wingert (207.671.4646), or me (315.671.9441) with any questions.

-John

ARCADIS

**1/30/2008**

**E-Mail Correspondence to the  
NYSDEC, NYSDOH & ACHD**

Surface Water Analytical Results  
for 1/29/08 Monitoring Event

**Brussel, John**

---

**From:** Brussel, John  
**Sent:** Wednesday, January 30, 2008 3:09 PM  
**To:** Maureen E. Schuck; Christopher O'Neill; Chris Hogan; Ronald Groves; gnathan@ci.cohoes.ny.us  
**Cc:** James F. Morgan; Wingert, Ray; Mike Reader; Jefts, Lucas; Hysell, Matt  
**Subject:** Results for Surface Water Monitoring on 1/29/08 & Progress Update - NYSDEC Site No. 401044 (Mohawk River, School Street Hydro, Cohoes, NY)  
**Attachments:** CERT\_08010289\_A.pdf; CERT\_08010289\_B.pdf

All:

Please find the attached PCB and TSS laboratory analytical results for the surface water samples collected upstream and downstream of the sediment removal area at the above-referenced site yesterday, 1/29/08 (during the first day of dredging using the conventional bucket).

The samples were designated by the prefix "SW-US-" or "SW-DS-" (for the upstream and downstream samples, respectively) followed by the sample date. As indicated by the laboratory results, PCBs were not detected above the laboratory detection limit in either sample. TSS was detected in the upstream sample at 3.6 mg/L, but was not detected above the laboratory detection limit in the downstream sample.

Work was stopped earlier today (11:30 a.m.) due to safety concerns related to crane operations in high winds. Dredging in the upper portion of the removal area and surveying to verify removal limits was completed yesterday afternoon. Backfilling of a portion of this upper area and surveying to document placement depths were completed this morning before the work stoppage. Surface water samples collected this morning were hand-delivered to the laboratory early this afternoon.

The plan for tomorrow (Thursday) is to complete the backfilling of the upper area, then re-locate the flow diversion structures (trench boxes), and deploy the turbidity barriers around the remaining (downstream) portion of the removal area. Dredging will resume on Friday, weather permitting.

Feel free to call me with any questions.

-John

---

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1/30/2008

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ARCHIVAL BY NORTHEAST ANALYTICAL

LRF # — <08010289P1>

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**CERTIFICATE OF ANALYSIS****01/30/2008****ARCADIS****6723 TOWPATH RD****BOX 66****SYRACUSE, NY 13214****CONTACT: JOHN BRUSSEL****CUSTOMER ID:** SW-US-01292008**MATRIX:** WATER**DATE RECEIVED:** 01/29/2008 **TIME:** 12:10**SAMPLED BY:** L. JEFTS**CUSTOMER PO:** N/A**NEA ID:** AL01811 **NEA LRF:** 08010289-01**DATE SAMPLED:** 01/29/2008 **TIME:** 11:25**PROJECT:** B0036643.0000 TASK 00019**LOCATION:** COHOES, NY**LAB ELAP#:** 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE ANALYZED	FLAGS
<b>EPA Method 608 PCB</b>					
Aroclor 1016	ND	0.0500	ug/L	01/29/2008	U
Aroclor 1221	ND	0.0500	ug/L	01/29/2008	U
Aroclor 1232	ND	0.0500	ug/L	01/29/2008	U
Aroclor 1242	ND	0.0500	ug/L	01/29/2008	U
Aroclor 1248	ND	0.0500	ug/L	01/29/2008	U
Aroclor 1254	ND	0.0500	ug/L	01/29/2008	U
Aroclor 1260	ND	0.0500	ug/L	01/29/2008	U
Total PCB Amount > Reporting Limit	ND				U

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.  
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

**AUTHORIZED SIGNATURE:**

William A. Kotas  
Quality Assurance Officer

Robert E. Wagner  
Laboratory Director

**CERTIFICATE OF ANALYSIS****01/30/2008****ARCADIS****6723 TOWPATH RD****BOX 66****SYRACUSE, NY 13214****CONTACT: JOHN BRUSSEL****CUSTOMER ID:** SW-DS-01292008**MATRIX:** WATER**DATE RECEIVED:** 01/29/2008 **TIME:** 12:10**SAMPLED BY:** L. JEFTS**CUSTOMER PO:** N/A**NEA ID:** AL01812**NEA LRF:** 08010289-02**DATE SAMPLED:** 01/29/2008 **TIME:** 11:10**PROJECT:** B0036643.0000 TASK 00019**LOCATION:** COHOES, NY**LAB ELAP#:** 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE ANALYZED	FLAGS
<b>EPA Method 608 PCB</b>					
Aroclor 1016	ND	0.0500	ug/L	01/29/2008	U
Aroclor 1221	ND	0.0500	ug/L	01/29/2008	U
Aroclor 1232	ND	0.0500	ug/L	01/29/2008	U
Aroclor 1242	ND	0.0500	ug/L	01/29/2008	U
Aroclor 1248	ND	0.0500	ug/L	01/29/2008	U
Aroclor 1254	ND	0.0500	ug/L	01/29/2008	U
Aroclor 1260	ND	0.0500	ug/L	01/29/2008	U
Total PCB Amount > Reporting Limit	ND				U

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE:

William A. Kotas  
Quality Assurance OfficerRobert E. Wagner  
Laboratory Director



**DISPOSAL REQUIREMENTS: (To be filled in by Client)**

RETURN TO CLIENT  
DISPOSAL BY NORTHEAST ANALYTICAL  
ARCHIVAL BY NORTHEAST ANALYTICAL

LRF # — <08010289P1>

Additional charges incurred for disposal (if hazardous) or archival. Call for details.

[illegible]

\* CLP LIKE DATA PACKAGE ADDITIONAL COST



CERTIFICATE OF ANALYSIS

01/30/2008

ARCADIS

6723 TOWPATH RD

BOX 66

SYRACUSE, NY 13214

CONTACT: JOHN BRUSSEL

MATRIX: WATER

DATE RECEIVED: 01/29/2008 TIME: 12:10

SAMPLED BY: L. JEFTS

CUSTOMER PO: N/A

PROJECT: B0036643.0000 TASK 00019

LOCATION: COHOES, NY

LAB ELAP#: 11078

NEA LRF: 08010289

NEA ID	CUSTOMER ID	METHOD	DATE-TIME SAMPLED	RESULTS	PQL	FLAG	UNITS	DATE ANALYZED
<b>Total Suspended Solids</b>								
AL01811	SW-US-01292008	EPA 160.2	01/29/2008 11:25	3.60	2.00		mg/L	01/29/2008
AL01812	SW-DS-01292008	EPA 160.2	01/29/2008 11:10	ND	2.00	U	mg/L	01/29/2008

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE:

William A. Kotas  
Quality Assurance Officer

Robert E. Wagner  
Laboratory Director

ARCADIS

**1/31/2008**

**E-Mail Correspondence to the  
NYSDEC, NYSDOH & ACHD**

Surface Water Analytical Results  
for 1/30/08 Monitoring Event

## Brussel, John

---

**From:** Brussel, John  
**Sent:** Thursday, January 31, 2008 2:45 PM  
**To:** Maureen E. Schuck; Christopher O'Neill; Chris Hogan; Ronald Groves; gnathan@ci.cohoes.ny.us  
**Cc:** James F. Morgan; Wingert, Ray; Mike Reader; Jeffs, Lucas; Hysell, Matt  
**Subject:** Results for Surface Water Monitoring on 1/30/08 & Progress Update - NYSDEC Site No. 401044 (Mohawk River, School Street Hydro, Cohoes, NY)  
**Attachments:** CERT\_08010303.pdf

All:

Please find the attached PCB and TSS laboratory analytical results for the surface water samples collected upstream and downstream of the sediment removal area at the above-referenced site yesterday, 1/30/08, which was the first day after dredging was performed using the conventional bucket.

The samples were designated by the prefix "SW-US-" or "SW-DS-" (for the upstream and downstream samples, respectively) followed by the sample date. As indicated by the laboratory results, PCBs were not detected above the laboratory detection limit in either sample. TSS was detected in the upstream sample and downstream samples at concentrations of 3.71 mg/L and 2.40 mg/L, respectively.

All of the sediment dredged to date (approximately 40 cubic yards, which is equivalent to approximately 64 tons) was loaded into two dump trailers this morning and is being transported to Seneca Meadows Landfill for offsite disposal. The flow deflection barriers (trench boxes) have been moved downstream to deflect flow around the remaining area to be dredged. The turbidity barriers are being moved this afternoon/tomorrow, and dredging will be performed tomorrow, if time permits. Dredging will likely be completed on Monday or Tuesday, weather permitting. PCB and TSS water samples will be collected tomorrow, Saturday (if dredging is performed tomorrow), and daily next week (through two days after completion of dredging).

Feel free to call me with any questions.

-John

---

ARCADIS  
John C. Brussel, PE  
Principal Engineer

6723 Towpath Road, Box 66  
Syracuse, NY 13214-0066

Tel 315.671.9441  
Fax 315.449.4111  
[John.Brussel@arcadis-us.com](mailto:John.Brussel@arcadis-us.com)  
[www.arcadis-us.com](http://www.arcadis-us.com)

ARCADIS, Imagine the result

---

1/31/2008

**DISPOSAL REQUIREMENTS: (To be filled in by Client)**

www.nealab.com  
information@nealab.com

<input type="radio"/>	RETURN TO CLIENT
<input checked="" type="radio"/>	DISPOSAL BY NORTH
<input type="radio"/>	ARCHIVAL BY NORTH

Additional charges incurred for disposal (if hazardous) or archival. Call for details.

[illegible]

\* CLP-LIKE DATA PACKAGE ADDITIONAL COST



CERTIFICATE OF ANALYSIS

1/31/2008

ARCADIS

6723 TOWPATH RD

BOX 66

SYRACUSE, NY 13214

CONTACT: JOHN BRUSSEL

CUSTOMER ID: SW-US-01302008

MATRIX: WATER

DATE RECEIVED: 1/30/2008 TIME: 13:45

SAMPLED BY: N/A

CUSTOMER PO: N/A

NEA ID: AL01889

NEA LRF: 08010303-01

DATE SAMPLED: 01/30/2008 TIME: 12:20

PROJECT: B0036643.0000 TASK 00019

LOCATION: COHOES, NY

LAB ELAP#: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE ANALYZED	FLAGS
<b>EPA Method 608 PCB</b>					
Aroclor 1016	ND	0.0500	ug/L	01/30/2008	U
Aroclor 1221	ND	0.0500	ug/L	01/30/2008	U
Aroclor 1232	ND	0.0500	ug/L	01/30/2008	U
Aroclor 1242	ND	0.0500	ug/L	01/30/2008	U
Aroclor 1248	ND	0.0500	ug/L	01/30/2008	U
Aroclor 1254	ND	0.0500	ug/L	01/30/2008	U
Aroclor 1260	ND	0.0500	ug/L	01/30/2008	U
Total PCB Amount > Reporting Limit	ND				U

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE:

William A. Kotas  
Quality Assurance Officer

Robert E. Wagner  
Laboratory Director

**CERTIFICATE OF ANALYSIS****1/31/2008****ARCADIS****6723 TOWPATH RD****BOX 66****SYRACUSE, NY 13214****CONTACT: JOHN BRUSSEL****CUSTOMER ID:** SW-DS-01302008**MATRIX:** WATER**DATE RECEIVED:** 1/30/2008 **TIME:** 13:45**SAMPLED BY:** N/A**CUSTOMER PO:** N/A**NEA ID:** AL01890**NEA LRF:** 08010303-02**DATE SAMPLED:** 01/30/2008 **TIME:** 12:35**PROJECT:** B0036643.0000 TASK 00019**LOCATION:** COHOES, NY**LAB ELAP#:** 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE ANALYZED	FLAGS
<b>EPA Method 608 PCB</b>					
Aroclor 1016	ND	0.0500	ug/L	01/30/2008	U
Aroclor 1221	ND	0.0500	ug/L	01/30/2008	U
Aroclor 1232	ND	0.0500	ug/L	01/30/2008	U
Aroclor 1242	ND	0.0500	ug/L	01/30/2008	U
Aroclor 1248	ND	0.0500	ug/L	01/30/2008	U
Aroclor 1254	ND	0.0500	ug/L	01/30/2008	U
Aroclor 1260	ND	0.0500	ug/L	01/30/2008	U
Total PCB Amount > Reporting Limit	ND				U

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE:

William A. Kotus  
Quality Assurance OfficerRobert E. Wagner  
Laboratory Director



CERTIFICATE OF ANALYSIS

01/31/2008

ARCADIS

6723 TOWPATH RD

BOX 66

SYRACUSE, NY 13214

CONTACT: JOHN BRUSSEL

MATRIX: WATER

DATE RECEIVED: 01/30/2008 TIME: 13:45

SAMPLED BY: N/A

CUSTOMER PO: N/A

PROJECT: B0036643.0000 TASK 00019

LOCATION: COHOES, NY

LAB ELAP#: 11078

NEA LRF: 08010303

NEA ID	CUSTOMER ID	METHOD	DATE-TIME SAMPLED	RESULTS	PQL	FLAG	UNITS	DATE ANALYZED
<b>Total Suspended Solids</b>								
AL01889	SW-US-01302008	EPA 160.2	01/30/2008 12:20	3.71	2.06		mg/L	01/30/2008
AL01890	SW-US-01302008	EPA 160.2	01/30/2008 12:35	2.40	2.00		mg/L	01/30/2008

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE:

William A. Kotus  
Quality Assurance Officer

Robert E. Wagner  
Laboratory Director



ARCADIS

**2/1/2008**

**E-Mail Correspondence to the  
NYSDEC, NYSDOH & ACHD**

Surface Water Analytical Results  
for 1/31/08 Monitoring Event

## Brussel, John

---

**From:** Brussel, John  
**Sent:** Friday, February 01, 2008 4:07 PM  
**To:** Maureen E. Schuck; Christopher O'Neill; Chris Hogan; Ronald Groves; gnathan@ci.cohoes.ny.us  
**Cc:** James F. Morgan; Wingert, Ray; Mike Reader; Jeffs, Lucas; Hysell, Matt  
**Subject:** Results for Surface Water Monitoring on 1/31/08 & Progress Update - NYSDEC Site No. 401044 (Mohawk River, School Street Hydro, Cohoes, NY)  
**Attachments:** CERT\_08010316.pdf

All:

Please find the attached PCB and TSS laboratory analytical results for the surface water samples collected upstream and downstream of the sediment removal area at the above-referenced site yesterday, 1/31/08, on the second day after dredging was performed using the conventional bucket.

The samples were designated by the prefix "SW-US-" or SW-DS-" (for the upstream and downstream samples, respectively) followed by the sample date. As indicated by the laboratory results, PCBs were not detected above the laboratory detection limit in either sample. TSS was detected in the upstream sample at a concentration of 2.6 mg/L, but was not detected above the laboratory detection limit in the downstream sample.

An update on the progress of work at the site is presented below:

- The turbidity barriers were moved from the upstream dredge area to the downstream dredge area this morning, and the City of Cohoes water supply intakes were closed this morning.
- Dredging got underway at approximately 1:30 p.m. this afternoon and will continue through the end of the workday. Field measurements of surface water turbidity have all been less than 10 NTUs both downstream and upstream from the dredge area (and the downstream measurements have actually been slightly lower than the upstream measurements).
- Surface water samples were collected this morning (prior to dredging), and a second set of samples will be collected concurrent with this afternoon's dredging. This morning's samples have been extracted, and analytical results will be available later today or Monday morning.
- Another round of surface water samples will be collected tomorrow (Saturday) at 10:30 a.m., prior to the re-opening of the Cohoes water supply intakes. Analysis of the samples collected this afternoon and Saturday will be performed on a 24-hour turnaround, beginning early Monday morning.
- The water supply intakes will be closed again Monday morning, and dredging will resume after the intakes are closed. Dredging will probably continue at least into Tuesday.

Feel free to call me with any questions.

-John

---

ARCADIS  
John C. Brussel, PE  
Principal Engineer

6723 Towpath Road, Box 66  
Syracuse, NY 13214-0066

2/1/2008

Tel 315.671.9441  
Fax 315.449.4111  
[John.Brussel@arcadis-us.com](mailto:John.Brussel@arcadis-us.com)  
[www.arcadis-us.com](http://www.arcadis-us.com)

ARCADIS, Imagine the result

---

**DISPOSAL REQUIREMENTS: (To be filled in by Client)**

2190 Technology Drive, Schenectady, NY 12308  
Telephone (518) 346-4592 Fax (518) 381-6055  
www.nealab.com information @nealab.com

○ RETURN TO CLIENT

DISPOSAL BY NORTHEAST ANALYTICAL

ARCHIVAL BY NORTHEAST ANALYTICAL

Additional charges incurred for disposal (if hazardous) or archival. Call for details.

\* CLE LIKE DATA PACKAGE ADDITIONAL COST



**CERTIFICATE OF ANALYSIS**

**2/1/2008**

**ARCADIS**

**6723 TOWPATH RD**

**BOX 66**

**SYRACUSE, NY 13214**

**CONTACT: JOHN BRUSSEL**

**CUSTOMER ID:** SW-US-01312008

**MATRIX:** WATER

**DATE RECEIVED:** 1/31/2008 **TIME:** 12:20

**SAMPLED BY:** N/A

**CUSTOMER PO:** N/A

**NEA ID:** AL01929

**NEA LRF:** 08010316-01

**DATE SAMPLED:** 01/31/2008 **TIME:** 11:20

**PROJECT:** B0036643.0000 TASK 00019

**LOCATION:** COHOES, NY

**LAB ELAP#:** 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE ANALYZED	FLAGS
<b>EPA Method 608 PCB</b>					
Aroclor 1016	ND	0.0500	ug/L	01/31/2008	U
Aroclor 1221	ND	0.0500	ug/L	01/31/2008	U
Aroclor 1232	ND	0.0500	ug/L	01/31/2008	U
Aroclor 1242	ND	0.0500	ug/L	01/31/2008	U
Aroclor 1248	ND	0.0500	ug/L	01/31/2008	U
Aroclor 1254	ND	0.0500	ug/L	01/31/2008	U
Aroclor 1260	ND	0.0500	ug/L	01/31/2008	U
Total PCB Amount > Reporting Limit	ND				U

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

**AUTHORIZED SIGNATURE:**

William A. Kotas  
Quality Assurance Officer

Robert E. Wagner  
Laboratory Director

**CERTIFICATE OF ANALYSIS****2/1/2008****ARCADIS****6723 TOWPATH RD****BOX 66****SYRACUSE, NY 13214****CONTACT: JOHN BRUSSEL****CUSTOMER ID:** SW-DS-01312008**MATRIX:** WATER**DATE RECEIVED:** 1/31/2008 **TIME:** 12:20**SAMPLED BY:** N/A**CUSTOMER PO:** N/A**NEA ID:** AL01930**NEA LRF:** 08010316-02**DATE SAMPLED:** 01/31/2008 **TIME:** 11:45**PROJECT:** B0036643.0000 TASK 00019**LOCATION:** COHOES, NY**LAB ELAP#:** 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE ANALYZED	FLAGS
<b>EPA Method 608 PCB</b>					
Aroclor 1016	ND	0.0500	ug/L	01/31/2008	U
Aroclor 1221	ND	0.0500	ug/L	01/31/2008	U
Aroclor 1232	ND	0.0500	ug/L	01/31/2008	U
Aroclor 1242	ND	0.0500	ug/L	01/31/2008	U
Aroclor 1248	ND	0.0500	ug/L	01/31/2008	U
Aroclor 1254	ND	0.0500	ug/L	01/31/2008	U
Aroclor 1260	ND	0.0500	ug/L	01/31/2008	U
Total PCB Amount > Reporting Limit	ND				U

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE:

William A. Kotas  
Quality Assurance OfficerRobert E. Wagner  
Laboratory Director



CERTIFICATE OF ANALYSIS

02/01/2008

ARCADIS

6723 TOWPATH RD

BOX 66

SYRACUSE, NY 13214

CONTACT: JOHN BRUSSEL

MATRIX: WATER

DATE RECEIVED: 01/31/2008 TIME: 12:20

SAMPLED BY: N/A

CUSTOMER PO: N/A

PROJECT: B0036643.0000 TASK 00019

LOCATION: COHOES, NY

LAB ELAP#: 11078

NEA LRF: 08010316

NEA ID	CUSTOMER ID	METHOD	DATE-TIME SAMPLED	RESULTS	PQL	FLAG	UNITS	DATE ANALYZED
<b>Total Suspended Solids</b>								
AL01929	SW-US-01312008	EPA 160.2	01/31/2008 11:20	2.60	2.00		mg/L	01/31/2008
AL01930	SW-DS-01312008	EPA 160.2	01/31/2008 11:45	ND	1.00	U	mg/L	01/31/2008

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE:

William A. Kotas  
Quality Assurance Officer

Robert E. Wagner  
Laboratory Director

ARCADIS

**2/4/2008**

**E-Mail Correspondence to the  
NYSDEC, NYSDOH & ACHD**

Surface Water Analytical Results  
for 2/1/08 (Morning) Monitoring  
Event



## Brussel, John

**From:** Brussel, John  
**Sent:** Monday, February 04, 2008 2:14 PM  
**To:** Maureen E. Schuck; Christopher O'Neill; Chris Hogan; Ronald Groves; gnathan@ci.cohoes.ny.us  
**Cc:** James F. Morgan; Wingert, Ray; Mike Reader; Jeffs, Lucas; Hysell, Matt  
**Subject:** Results for Surface Water Monitoring on 2/1/08 - NYSDEC Site No. 401044 (Mohawk River, School Street Hydro, Cohoes, NY)  
**Attachments:** CERT\_08020002.pdf

All:

Please find the attached PCB and TSS laboratory analytical results for the surface water samples collected upstream and downstream of the sediment removal area at the above-referenced site on Friday morning, 2/1/08. As indicated by the laboratory results, PCBs were not detected above the laboratory detection limit in either sample. TSS was detected in the upstream and downstream samples at concentrations of 1.8 mg/L and 4.4 mg/L, respectively.

Results for the surface water samples collected Friday afternoon (during dredging) will be forwarded upon receipt.

Feel free to call me with any questions.

-John

---

ARCADIS  
John C. Brussel, PE  
Principal Engineer

6723 Towpath Road, Box 66  
Syracuse, NY 13214-0066

Tel 315.671.9441  
Fax 315.449.4111  
[John.Brussel@arcadis-us.com](mailto:John.Brussel@arcadis-us.com)  
[www.arcadis-us.com](http://www.arcadis-us.com)

ARCADIS, Imagine the result

---

2/4/2008

**DISPOSAL REQUIREMENTS: (To be filled in by Client)**

RETURN TO CLIENT  
DISPOSAL BY NORTHEAST ANALYTICAL  
ARCHIVAL BY NORTHEAST ANALYTICAL

LRF # <08020002P1>

www.nealab.com  
information@nealab.com  
Fax (510) 501-0033

\* CAPTURE DATA FROM ADDITIONAL COST



CERTIFICATE OF ANALYSIS

2/2/2008

ARCADIS

6723 TOWPATH RD

BOX 66

SYRACUSE, NY 13214

CONTACT: JOHN BRUSSEL

CUSTOMER ID: SW-US-02012008

MATRIX: WATER

DATE RECEIVED: 2/1/2008 TIME: 12:45

SAMPLED BY: L. JEFTS

CUSTOMER PO: N/A

NEA ID: AL01993 NEA LRF: 08020002-01

DATE SAMPLED: 02/01/2008 TIME: 11:45

PROJECT: B0036643.0000 TASK 00019

LOCATION: COHOES, NY

LAB ELAP#: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE ANALYZED	FLAGS
<b>EPA Method 608 PCB</b>					
Aroclor 1016	ND	0.0500	ug/L	02/02/2008	U
Aroclor 1221	ND	0.0500	ug/L	02/02/2008	U
Aroclor 1232	ND	0.0500	ug/L	02/02/2008	U
Aroclor 1242	ND	0.0500	ug/L	02/02/2008	U
Aroclor 1248	ND	0.0500	ug/L	02/02/2008	U
Aroclor 1254	ND	0.0500	ug/L	02/02/2008	U
Aroclor 1260	ND	0.0500	ug/L	02/02/2008	U
Total PCB Amount > Reporting Limit	ND				U

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE:

William A. Kotus  
Quality Assurance Officer

Robert E. Wagner  
Laboratory Director



CERTIFICATE OF ANALYSIS

2/2/2008

ARCADIS

6723 TOWPATH RD

BOX 66

SYRACUSE, NY 13214

CONTACT: JOHN BRUSSEL

CUSTOMER ID: SW-DS-02012008

MATRIX: WATER

DATE RECEIVED: 2/1/2008 TIME: 12:45

SAMPLED BY: L. JEFTS

CUSTOMER PO: N/A

NEA ID: AL01994

NEA LRF: 08020002-02

DATE SAMPLED: 02/01/2008 TIME: 12:00

PROJECT: B0036643.0000 TASK 00019

LOCATION: COHOES, NY

LAB ELAP#: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE ANALYZED	FLAGS
<b>EPA Method 608 PCB</b>					
Aroclor 1016	ND	0.0500	ug/L	02/02/2008	U
Aroclor 1221	ND	0.0500	ug/L	02/02/2008	U
Aroclor 1232	ND	0.0500	ug/L	02/02/2008	U
Aroclor 1242	ND	0.0500	ug/L	02/02/2008	U
Aroclor 1248	ND	0.0500	ug/L	02/02/2008	U
Aroclor 1254	ND	0.0500	ug/L	02/02/2008	U
Aroclor 1260	ND	0.0500	ug/L	02/02/2008	U
Total PCB Amount > Reporting Limit	ND				U

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE:

William A. Kotus  
Quality Assurance Officer

Robert E. Wagner  
Laboratory Director



CERTIFICATE OF ANALYSIS

02/04/2008

ARCADIS

6723 TOWPATH RD

BOX 66

SYRACUSE, NY 13214

CONTACT: JOHN BRUSSEL

MATRIX: WATER

DATE RECEIVED: 02/01/2008 TIME: 12:45

SAMPLED BY: L. JEFTS

CUSTOMER PO: N/A

PROJECT: B0036643.0000 TASK 00019

LOCATION: COHOES, NY

LAB ELAP#: 11078

NEA LRF: 08020002

NEA ID	CUSTOMER ID	METHOD	DATE-TIME SAMPLED	RESULTS	PQL	FLAG	UNITS	DATE ANALYZED
<b>Total Suspended Solids</b>								
AL01993	SW-US-02012008	EPA 160.2	02/01/2008 11:45	1.80	1.00		mg/L	02/01/2008
AL01994	SW-DS-02012008	EPA 160.2	02/01/2008 12:00	4.40	1.00		mg/L	02/01/2008

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE:

William A. Kotus  
Quality Assurance Officer

Robert E. Wagner  
Laboratory Director

ARCADIS

**2/5/2008**

**E-Mail Correspondence to the  
NYSDEC, NYSDOH & ACHD**

Surface Water Analytical Results  
for 2/1/08 (Afternoon) Through  
2/4/08 Monitoring Events

**Brussel, John**

---

**From:** Brussel, John  
**Sent:** Tuesday, February 05, 2008 12:18 PM  
**To:** Maureen E. Schuck; Christopher O'Neill; Chris Hogan; Ronald Groves;  
gnathan@ci.cohoes.ny.us  
**Cc:** James F. Morgan; Wingert, Ray; Mike Reader; Jeffs, Lucas; Hysell, Matt  
**Subject:** Results for Surface Water Monitoring on 2/1/08 - 2/4/08; NYSDEC Site No. 401044 (Mohawk River, School Street Hydro, Cohoes, NY)  
**Attachments:** CERT\_08020007.pdf; CERT\_08020014.pdf

All:

Please find the attached PCB and TSS laboratory analytical results for the surface water samples collected upstream and downstream of the sediment removal area at the above-referenced site on:

- Friday afternoon (2/1/08);
- Saturday morning (2/2/08); and
- Monday morning (yesterday, 2/4/08).

As indicated by the laboratory results, PCBs were not detected above the laboratory detection limit in any of the samples. TSS was detected in each of the samples at concentrations ranging from 2.21 mg/L (for the downstream sample collected yesterday) to 6.49 mg/L (for the upstream sample collected yesterday).

It looks like dredging (and most, if not all of the backfilling) will be completed today. Surface water monitoring will continue for two days after dredging.

Feel free to call me with any questions.

-John

---

ARCADIS  
John C. Brussel, PE  
Principal Engineer

6723 Towpath Road, Box 66  
Syracuse, NY 13214-0066

Tel 315.671.9441  
Fax 315.449.4111  
[John.Brussel@arcadis-us.com](mailto:John.Brussel@arcadis-us.com)  
[www.arcadis-us.com](http://www.arcadis-us.com)

ARCADIS, Imagine the result

---

2/5/2008







## CERTIFICATE OF ANALYSIS

02/05/2008

ARCADIS

6723 TOWPATH RD

BOX 66

SYRACUSE, NY 13214

CONTACT: JOHN BRUSSEL

CUSTOMER ID: SW-US-02012008-02

MATRIX: WATER

DATE RECEIVED: 02/02/2008 TIME: 12:00

SAMPLED BY: L. JEFTS

CUSTOMER PO: N/A

NEA ID: AL02034

NEA LRF: 08020007-01

DATE SAMPLED: 02/01/2008 TIME: 15:15

PROJECT: B0036643.0000 TASK 00019

LOCATION: COHOES, NY

LAB ELAP#: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE ANALYZED	FLAGS
<b>EPA Method 608 PCB</b>					
Aroclor 1016	ND	0.0500	ug/L	02/04/2008	U
Aroclor 1221	ND	0.0500	ug/L	02/04/2008	U
Aroclor 1232	ND	0.0500	ug/L	02/04/2008	U
Aroclor 1242	ND	0.0500	ug/L	02/04/2008	U
Aroclor 1248	ND	0.0500	ug/L	02/04/2008	U
Aroclor 1254	ND	0.0500	ug/L	02/04/2008	U
Aroclor 1260	ND	0.0500	ug/L	02/04/2008	U
Total PCB Amount > Reporting Limit	ND				U

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE:

William A. Kotas  
Quality Assurance OfficerRobert E. Wagner  
Laboratory Director



CERTIFICATE OF ANALYSIS

02/05/2008

ARCADIS

6723 TOWPATH RD

BOX 66

SYRACUSE, NY 13214

CONTACT: JOHN BRUSSEL

CUSTOMER ID: SW-DS-02012008-02

MATRIX: WATER

DATE RECEIVED: 02/02/2008 TIME: 12:00

SAMPLED BY: L. JEFTS

CUSTOMER PO: N/A

NEA ID: AL02035

NEA LRF: 08020007-02

DATE SAMPLED: 02/01/2008 TIME: 15:30

PROJECT: B0036643.0000 TASK 00019

LOCATION: COHOES, NY

LAB ELAP#: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE ANALYZED	FLAGS
<b>EPA Method 608 PCB</b>					
Aroclor 1016	ND	0.0500	ug/L	02/04/2008	U
Aroclor 1221	ND	0.0500	ug/L	02/04/2008	U
Aroclor 1232	ND	0.0500	ug/L	02/04/2008	U
Aroclor 1242	ND	0.0500	ug/L	02/04/2008	U
Aroclor 1248	ND	0.0500	ug/L	02/04/2008	U
Aroclor 1254	ND	0.0500	ug/L	02/04/2008	U
Aroclor 1260	ND	0.0500	ug/L	02/04/2008	U
Total PCB Amount > Reporting Limit	ND				U

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.  
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE:

William A. Kotus  
Quality Assurance Officer

Robert E. Wagner  
Laboratory Director



CERTIFICATE OF ANALYSIS

02/05/2008

ARCADIS

6723 TOWPATH RD

BOX 66

SYRACUSE, NY 13214

CONTACT: JOHN BRUSSEL

CUSTOMER ID: SW-US-02022008

MATRIX: WATER

DATE RECEIVED: 02/02/2008 TIME: 12:00

SAMPLED BY: L. JEFTS

CUSTOMER PO: N/A

NEA ID: AL02036

NEA LRF: 08020007-03

DATE SAMPLED: 02/02/2008 TIME: 10:40

PROJECT: B0036643.0000 TASK 00019

LOCATION: COHOES, NY

LAB ELAP#: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE ANALYZED	FLAGS
<b>EPA Method 608 PCB</b>					
Aroclor 1016	ND	0.0500	ug/L	02/04/2008	U
Aroclor 1221	ND	0.0500	ug/L	02/04/2008	U
Aroclor 1232	ND	0.0500	ug/L	02/04/2008	U
Aroclor 1242	ND	0.0500	ug/L	02/04/2008	U
Aroclor 1248	ND	0.0500	ug/L	02/04/2008	U
Aroclor 1254	ND	0.0500	ug/L	02/04/2008	U
Aroclor 1260	ND	0.0500	ug/L	02/04/2008	U
Total PCB Amount > Reporting Limit	ND				U

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE:

William A. Kotas  
Quality Assurance Officer

Robert E. Wagner  
Laboratory Director



CERTIFICATE OF ANALYSIS

02/05/2008

ARCADIS

6723 TOWPATH RD

BOX 66

SYRACUSE, NY 13214

CONTACT: JOHN BRUSSEL

CUSTOMER ID: SW-DS-02022008

MATRIX: WATER

DATE RECEIVED: 02/02/2008 TIME: 12:00

SAMPLED BY: L. JEFTS

CUSTOMER PO: N/A

NEA ID: AL02037

NEA LRF: 08020007-04

DATE SAMPLED: 02/02/2008 TIME: 11:00

PROJECT: B0036643.0000 TASK 00019

LOCATION: COHOES, NY

LAB ELAP#: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE ANALYZED	FLAGS
<b>EPA Method 608 PCB</b>					
Aroclor 1016	ND	0.0500	ug/L	02/05/2008	U
Aroclor 1221	ND	0.0500	ug/L	02/05/2008	U
Aroclor 1232	ND	0.0500	ug/L	02/05/2008	U
Aroclor 1242	ND	0.0500	ug/L	02/05/2008	U
Aroclor 1248	ND	0.0500	ug/L	02/05/2008	U
Aroclor 1254	ND	0.0500	ug/L	02/05/2008	U
Aroclor 1260	ND	0.0500	ug/L	02/05/2008	U
Total PCB Amount > Reporting Limit	ND				U

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE:

William A. Kotas  
Quality Assurance Officer  
Robert E. Wagner  
Laboratory Director



CERTIFICATE OF ANALYSIS

02/05/2008

ARCADIS

6723 TOWPATH RD

BOX 66

SYRACUSE, NY 13214

CONTACT: JOHN BRUSSEL

MATRIX: WATER

DATE RECEIVED: 02/02/2008 TIME: 12:00

SAMPLED BY: L. JEFTS

CUSTOMER PO: N/A

PROJECT: B0036643.0000 TASK 00019

LOCATION: COHOES, NY

LAB ELAP#: 11078

NEA LRF: 08020007

NEA ID	CUSTOMER ID	METHOD	DATE-TIME SAMPLED	RESULTS	PQL	FLAG	UNITS	DATE ANALYZED
<b>Total Suspended Solids</b>								
AL02034	SW-US-02012008-02	EPA 160.2	02/01/2008 15:15	3.13	1.04		mg/L	02/04/2008
AL02035	SW-DS-02012008-02	EPA 160.2	02/01/2008 15:30	3.90	1.00		mg/L	02/04/2008
AL02036	SW-US-02022008	EPA 160.2	02/02/2008 10:40	3.30	1.00		mg/L	02/04/2008
AL02037	SW-DS-02022008	EPA 160.2	02/02/2008 11:00	2.70	1.00		mg/L	02/04/2008

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE:

William A. Kotas  
Quality Assurance Officer

Robert E. Wagner  
Laboratory Director

**DISPOSAL REQUIREMENTS: (To be filled in by Client)**

2190 Technology Drive, Schenectady, NY 12308  
Telephone (518) 346-4592 Fax (518) 381-6055  
www.nealab.com information@nealab.com

RETURN TO CLIENT

DISPOSAL BY NORTHEAST ANALYTICAL  
ARCHIVAL BY NORTHEAST ANALYTICAL

Additional charges incurred for disposal (if hazardous) or archival. Call for details.

[illegible]

CLP LIKE DATA PACKAGE ADDITIONAL COST



CERTIFICATE OF ANALYSIS

02/05/2008

ARCADIS

6723 TOWPATH RD

BOX 66

SYRACUSE, NY 13214

CONTACT: JOHN BRUSSEL

CUSTOMER ID: SW-US-02042008

MATRIX: WATER

DATE RECEIVED: 02/04/2008 TIME: 12:30

SAMPLED BY: L. JEFTS

CUSTOMER PO: N/A

NEA ID: AL02084

NEA LRF: 08020014-01

DATE SAMPLED: 02/04/2008 TIME: 11:15

PROJECT: B0036643.0000 TASK 00019

LOCATION: COHOES, NY

LAB ELAP#: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE ANALYZED	FLAGS
<b>EPA Method 608 PCB</b>					
Aroclor 1016	ND	0.0500	ug/L	02/05/2008	U
Aroclor 1221	ND	0.0500	ug/L	02/05/2008	U
Aroclor 1232	ND	0.0500	ug/L	02/05/2008	U
Aroclor 1242	ND	0.0500	ug/L	02/05/2008	U
Aroclor 1248	ND	0.0500	ug/L	02/05/2008	U
Aroclor 1254	ND	0.0500	ug/L	02/05/2008	U
Aroclor 1260	ND	0.0500	ug/L	02/05/2008	U
Total PCB Amount > Reporting Limit	ND				U

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE:

William A. Kotas  
Quality Assurance Officer

Robert E. Wagner  
Laboratory Director



CERTIFICATE OF ANALYSIS

02/05/2008

ARCADIS

6723 TOWPATH RD

BOX 66

SYRACUSE, NY 13214

CONTACT: JOHN BRUSSEL

CUSTOMER ID: SW-DS-02042008

MATRIX: WATER

DATE RECEIVED: 02/04/2008 TIME: 12:30

SAMPLED BY: L. JEFTS

CUSTOMER PO: N/A

NEA ID: AL02085

NEA LRF: 08020014-02

DATE SAMPLED: 02/04/2008 TIME: 11:30

PROJECT: B0036643.0000 TASK 00019

LOCATION: COHOES, NY

LAB ELAP#: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE ANALYZED	FLAGS
<b>EPA Method 608 PCB</b>					
Aroclor 1016	ND	0.0500	ug/L	02/05/2008	U
Aroclor 1221	ND	0.0500	ug/L	02/05/2008	U
Aroclor 1232	ND	0.0500	ug/L	02/05/2008	U
Aroclor 1242	ND	0.0500	ug/L	02/05/2008	U
Aroclor 1248	ND	0.0500	ug/L	02/05/2008	U
Aroclor 1254	ND	0.0500	ug/L	02/05/2008	U
Aroclor 1260	ND	0.0500	ug/L	02/05/2008	U
Total PCB Amount > Reporting Limit	ND				U

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE:

William A. Kotas  
Quality Assurance Officer

Robert E. Wagner  
Laboratory Director





## CERTIFICATE OF ANALYSIS

02/05/2008

ARCADIS

6723 TOWPATH RD

BOX 66

SYRACUSE, NY 13214

CONTACT: JOHN BRUSSEL

MATRIX: WATER PROJECT: B0036643.0000 TASK 00019  
DATE RECEIVED: 02/04/2008 TIME: 12:30 LOCATION: COHOES, NY  
SAMPLED BY: L. JEFTS LAB ELAP#: 11078  
CUSTOMER PO: N/A NEA LRF: 08020014

NEA ID	CUSTOMER ID	METHOD	DATE-TIME SAMPLED	RESULTS	PQL	FLAG	UNITS	DATE ANALYZED
<b>Total Suspended Solids</b>								
AL02084	SW-US-02042008	EPA 160.2	02/04/2008 11:15	6.49	1.03		mg/L	02/04/2008
AL02085	SW-DS-02042008	EPA 160.2	02/04/2008 11:30	2.21	1.05		mg/L	02/04/2008

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE:

William A. Kotas  
Quality Assurance OfficerRobert E. Wagner  
Laboratory Director

ARCADIS

**2/6/2008**

**E-Mail Correspondence to the  
NYSDEC, NYSDOH & ACHD**

Surface Water Analytical Results  
for 2/5/08 Monitoring Event

**Brussel, John**

---

**From:** Brussel, John  
**Sent:** Wednesday, February 06, 2008 4:44 PM  
**To:** Maureen E. Schuck; Christopher O'Neill; Chris Hogan; Ronald Groves; gnathan@ci.cohoes.ny.us  
**Cc:** James F. Morgan; Wingert, Ray; Mike Reader; Jeffs, Lucas; Hysell, Matt  
**Subject:** Dredging is Complete / Results for Surface Water Monitoring on 2/5/08; NYSDEC Site No. 401044 (Cohoes, NY)  
**Attachments:** CERT\_08020025.pdf

All:

Please find the attached PCB and TSS laboratory analytical results for the surface water samples collected upstream and downstream of the sediment removal area at the above-referenced site on the final day of dredging (yesterday, 2/5/08). As indicated by the laboratory results, PCBs were not detected above the laboratory detection limit in any of the samples. TSS was detected in the downstream sample (4.48 mg/L), but not in the upstream sample. Field surface water turbidity measurements were all within permit limits.

Backfilling and survey verification of the backfill placement was completed this morning. The stabilized dredged sediment will be transported tomorrow for offsite disposal, and (upland) site restoration activities will begin tomorrow. I'll send a couple more daily e-mails with results for the surface water samples collected today and the samples to be collected tomorrow.

Feel free to call me with any questions.

-John

---

ARCADIS  
John C. Brussel, PE  
Principal Engineer

6723 Towpath Road, Box 66  
Syracuse, NY 13214-0066

Tel 315.671.9441  
Fax 315.449.4111  
[John.Brussel@arcadis-us.com](mailto:John.Brussel@arcadis-us.com)  
[www.arcadis-us.com](http://www.arcadis-us.com)

ARCADIS, Imagine the result

---

2/6/2008

**DISPOSAL REQUIREMENTS: (To be filled in by Client)**

**NORTHEAST ANALYTICAL, INC.**

2190 Technology Drive, Schenectady, NY 12308  
Telephone (518) 346-4592 Fax (518) 381-6055  
www.nealab.com information@nealab.com

LRF# <08020025P1>

○ RETURN TO CLIENT

~~Q~~ DISPOSAL BY NORTHEAST ANALYTICAL

ARCHIVAL BY NORTHEAST ANALYTICAL

Additional charges incurred for disposal (if hazardous) or archival. Call for details.

[illegible]

\* CLP LIKE DATA PACKAGE ADDITIONAL COST



CERTIFICATE OF ANALYSIS

02/06/2008

ARCADIS

6723 TOWPATH RD

BOX 66

SYRACUSE, NY 13214

CONTACT: JOHN BRUSSEL

CUSTOMER ID: SW-US-02052008

NEA ID: AL02186

NEA LRF: 08020025-01

MATRIX: WATER

DATE SAMPLED: 02/05/2008

TIME: 11:15

DATE RECEIVED: 02/05/2008 TIME: 12:30

PROJECT: B0036643.0000 TASK 00019

SAMPLED BY: L. JEFTS

LOCATION: COHOES, NY

CUSTOMER PO: N/A

LAB ELAP#: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE ANALYZED	FLAGS
<b>EPA Method 608 PCB</b>					
Aroclor 1016	ND	0.0500	ug/L	02/05/2008	U
Aroclor 1221	ND	0.0500	ug/L	02/05/2008	U
Aroclor 1232	ND	0.0500	ug/L	02/05/2008	U
Aroclor 1242	ND	0.0500	ug/L	02/05/2008	U
Aroclor 1248	ND	0.0500	ug/L	02/05/2008	U
Aroclor 1254	ND	0.0500	ug/L	02/05/2008	U
Aroclor 1260	ND	0.0500	ug/L	02/05/2008	U
Total PCB Amount > Reporting Limit	ND				U

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE:

William A. Kotas  
Quality Assurance Officer

Robert E. Wagner  
Laboratory Director



CERTIFICATE OF ANALYSIS

02/06/2008

ARCADIS

6723 TOWPATH RD

BOX 66

SYRACUSE, NY 13214

CONTACT: JOHN BRUSSEL

CUSTOMER ID: SW-DS-02052008

MATRIX: WATER

DATE RECEIVED: 02/05/2008 TIME: 12:30

SAMPLED BY: L. JEFTS

CUSTOMER PO: N/A

NEA ID: AL02187

NEA LRF: 08020025-02

DATE SAMPLED: 02/05/2008 TIME: 11:40

PROJECT: B0036643.0000 TASK 00019

LOCATION: COHOES, NY

LAB ELAP#: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE ANALYZED	FLAGS
<b>EPA Method 608 PCB</b>					
Aroclor 1016	ND	0.0500	ug/L	02/05/2008	U
Aroclor 1221	ND	0.0500	ug/L	02/05/2008	U
Aroclor 1232	ND	0.0500	ug/L	02/05/2008	U
Aroclor 1242	ND	0.0500	ug/L	02/05/2008	U
Aroclor 1248	ND	0.0500	ug/L	02/05/2008	U
Aroclor 1254	ND	0.0500	ug/L	02/05/2008	U
Aroclor 1260	ND	0.0500	ug/L	02/05/2008	U
Total PCB Amount > Reporting Limit	ND				U

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE:

William A. Kotus  
Quality Assurance Officer

Robert E. Wagner  
Laboratory Director



CERTIFICATE OF ANALYSIS

02/06/2008

ARCADIS

6723 TOWPATH RD

BOX 66

SYRACUSE, NY 13214

CONTACT: JOHN BRUSSEL

MATRIX: WATER

DATE RECEIVED: 02/05/2008 TIME: 12:30

SAMPLED BY: L. JEFTS

CUSTOMER PO: N/A

PROJECT: B0036643.0000 TASK 00019

LOCATION: COHOES, NY

LAB ELAP#: 11078

NEA LRF: 08020025

NEA ID	CUSTOMER ID	METHOD	DATE-TIME SAMPLED	RESULTS	PQL	FLAG	UNITS	DATE ANALYZED
<b>Total Suspended Solids</b>								
AL02186	SW-US-02052008	EPA 160.2	02/05/2008 11:15	ND	1.04	U	mg/L	02/05/2008
AL02187	SW-DS-02052008	EPA 160.2	02/05/2008 11:40	4.48	1.04		mg/L	02/05/2008

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE:

William A. Kotas  
Quality Assurance Officer

Robert E. Wagner  
Laboratory Director

ARCADIS

**2/7/2008**

**E-Mail Correspondence to the  
NYSDEC, NYSDOH & ACHD**

Surface Water Analytical Results  
for 2/6/08 Monitoring Event



**Brussel, John**

---

**From:** Brussel, John  
**Sent:** Thursday, February 07, 2008 8:57 PM  
**To:** Maureen E. Schuck; Christopher O'Neill; Chris Hogan; Ronald Groves; gnathan@ci.cohoes.ny.us  
**Cc:** James F. Morgan; Wingert, Ray; Mike Reader; Jefts, Lucas; Hysell, Matt  
**Subject:** Results for Post-Dredging Surface Water Samples Collected 2/6/08; NYSDEC Site No. 401044 (Cohoes, NY)  
**Attachments:** CERT\_08020031.pdf

All:

Please find the attached laboratory analytical data report for the surface water samples collected yesterday for the nearshore sediment removal project (i.e., one day following completion of dredging). As indicated by the report, PCBs were not detected above the laboratory detection limit in either the upstream or downstream samples.

The TSS concentrations in yesterday's samples (14.6 mg/L upstream and 12.6 mg/L downstream) were higher than in the previous samples. This increase is consistent with the significant increase in flow in the river yesterday. Flow went from around 8,500 cfs at the start of the day to almost 50,000 cfs by the end of the day.

Results for the final set of samples (collected today) will be provided tomorrow.

Feel free to call me with any questions.

-John

---

ARCADIS  
John C. Brussel, PE  
Principal Engineer

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Syracuse, NY 13214-0066

Tel 315.671.9441  
Fax 315.449.4111  
[John.Brussel@arcadis-us.com](mailto:John.Brussel@arcadis-us.com)  
[www.arcadis-us.com](http://www.arcadis-us.com)

ARCADIS, Imagine the result

---

2/7/2008

**DISPOSAL REQUIREMENTS: (To be filled in by Client)**

**NORTHEAST ANALYTICAL, INC.**

2190 Technology Drive, Schenectady, NY 12308  
Telephone (518) 346-4592 Fax (518) 381-6055  
www.nealab.com information@nealab.com

LRF # <08020031P1>

## RETURN TO CLIENT

DISPOSAL BY NORTHEAST ANALYTICAL

ARCHIVAL BY NORTHEAST ANALYTICAL

**Additional charges incurred for disposal (if hazardous) or archival. Call for details.**

[illegible]

\* CLP LIKE DATA PACKAGE ADDITIONAL COST

**CERTIFICATE OF ANALYSIS****02/07/2008****ARCADIS****6723 TOWPATH RD****BOX 66****SYRACUSE, NY 13214****CONTACT: JOHN BRUSSEL****CUSTOMER ID:** SW-US-02062008**MATRIX:** WATER**DATE RECEIVED:** 02/06/2008 **TIME:** 12:45**SAMPLED BY:** L. JEFTS**CUSTOMER PO:** N/A**NEA ID:** AL02219 **NEA LRF:** 08020031-01**DATE SAMPLED:** 02/06/2008 **TIME:** 09:00**PROJECT:** B0036643.0000 TASK 00019**LOCATION:** COHOES, NY**LAB ELAP#:** 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE ANALYZED	FLAGS
<b>EPA Method 608 PCB</b>					
Aroclor 1016	ND	0.0500	ug/L	02/06/2008	U
Aroclor 1221	ND	0.0500	ug/L	02/06/2008	U
Aroclor 1232	ND	0.0500	ug/L	02/06/2008	U
Aroclor 1242	ND	0.0500	ug/L	02/06/2008	U
Aroclor 1248	ND	0.0500	ug/L	02/06/2008	U
Aroclor 1254	ND	0.0500	ug/L	02/06/2008	U
Aroclor 1260	ND	0.0500	ug/L	02/06/2008	U
Total PCB Amount > Reporting Limit	ND				U

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.  
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

**AUTHORIZED SIGNATURE:**

William A. Kotas  
Quality Assurance Officer

Robert E. Wagner  
Laboratory Director

**CERTIFICATE OF ANALYSIS**

02/07/2008

ARCADIS

6723 TOWPATH RD

BOX 66

SYRACUSE, NY 13214

CONTACT: JOHN BRUSSEL

CUSTOMER ID: SW-DS-02062008

MATRIX: WATER

DATE RECEIVED: 02/06/2008 TIME: 12:45

SAMPLED BY: L. JEFTS

CUSTOMER PO: N/A

NEA ID: AL02220

NEA LRF: 08020031-02

DATE SAMPLED: 02/06/2008 TIME: 09:30

PROJECT: B0036643.0000 TASK 00019

LOCATION: COHOES, NY

LAB ELAP#: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE ANALYZED	FLAGS
<b>EPA Method 608 PCB</b>					
Aroclor 1016	ND	0.0500	ug/L	02/06/2008	U
Aroclor 1221	ND	0.0500	ug/L	02/06/2008	U
Aroclor 1232	ND	0.0500	ug/L	02/06/2008	U
Aroclor 1242	ND	0.0500	ug/L	02/06/2008	U
Aroclor 1248	ND	0.0500	ug/L	02/06/2008	U
Aroclor 1254	ND	0.0500	ug/L	02/06/2008	U
Aroclor 1260	ND	0.0500	ug/L	02/06/2008	U
Total PCB Amount > Reporting Limit	ND				U

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE:

William A. Kotas  
Quality Assurance OfficerRobert E. Wagner  
Laboratory Director



CERTIFICATE OF ANALYSIS

02/07/2008

ARCADIS

6723 TOWPATH RD

BOX 66

SYRACUSE, NY 13214

CONTACT: JOHN BRUSSEL

MATRIX: WATER

DATE RECEIVED: 02/06/2008 TIME: 12:45

SAMPLED BY: L. JEFTS

CUSTOMER PO: N/A

PROJECT: B0036643.0000 TASK 00019

LOCATION: COHOES, NY

LAB ELAP#: 11078

NEA LRF: 08020031

NEA ID	CUSTOMER ID	METHOD	DATE-TIME SAMPLED	RESULTS	PQL	FLAG	UNITS ANALYZED	DATE
<b>Total Suspended Solids</b>								
AL02219	SW-US-02062008	EPA 160.2	02/06/2008 09:00	14.6	1.11		mg/L	02/06/2008
AL02220	SW-DS-02062008	EPA 160.2	02/06/2008 09:30	12.6	1.12		mg/L	02/06/2008

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE:

William A. Kotas  
Quality Assurance Officer

Robert E. Wagner  
Laboratory Director

ARCADIS

**2/8/2008**

**E-Mail Correspondence to the  
NYSDEC, NYSDOH & ACHD**

Surface Water Analytical Results  
for 2/7/08 Monitoring Event

**Brussel, John**

---

**From:** Brussel, John  
**Sent:** Friday, February 08, 2008 11:18 AM  
**To:** Maureen E. Schuck; Christopher O'Neill; Chris Hogan; Ronald Groves;  
gnathan@ci.cohoes.ny.us  
**Cc:** James F. Morgan; Wingert, Ray; Mike Reader; Jefts, Lucas; Hysell, Matt  
**Subject:** Results for Final Set of Surface Water Samples; NYSDEC Site No. 401044 (Cohoes, NY)  
**Attachments:** CERT\_08020039.pdf

All:

Please find the attached laboratory analytical data report for the final set of surface water samples collected in connection with the nearshore sediment removal project. The surface water samples were collected late yesterday morning (2/7/08), two days following completion of dredging.

As indicated by the report, PCBs were not detected above the laboratory detection limit in either the upstream or downstream samples. The TSS concentrations in yesterday's samples were higher than the concentrations in the previous samples due to the very high flows in the river.

Most of the upland site restoration will be completed today, and the wastewater generated by sediment dewatering will be transported for offsite treatment next week, following receipt of analytical results.

The laboratory analytical results for the surface water sampling performed in connection with the dredging (from 1/23/08 through 2/7/08) will be validated and included in the Remedial Action Summary Report to be prepared in accordance with project plans.

We're pleased that everything worked out. Feel free to call me with any questions.

Have a nice weekend.

-John

---

ARCADIS  
John C. Brussel, PE  
Principal Engineer

6723 Towpath Road, Box 66  
Syracuse, NY 13214-0066

Tel 315.671.9441  
Fax 315.449.4111  
John.Brussel@arcadis-us.com  
[www.arcadis-us.com](http://www.arcadis-us.com)

ARCADIS, Imagine the result

---

2/8/2008





**CERTIFICATE OF ANALYSIS**

02/08/2008

ARCADIS

6723 TOWPATH RD

BOX 66

SYRACUSE, NY 13214

CONTACT: JOHN BRUSSEL



**CUSTOMER ID:** SW-US-02072008

**MATRIX:** WATER

**DATE RECEIVED:** 02/07/2008 **TIME:** 12:30

**SAMPLED BY:** L. JEFTS

**CUSTOMER PO:** N/A

**NEA ID:** AL02251 **NEA LRF:** 08020039-01

**DATE SAMPLED:** 02/07/2008 **TIME:** 11:00

**PROJECT:** B0036643.0000 TASK 00019

**LOCATION:** COHOES, NY

**LAB ELAP#:** 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE ANALYZED	FLAGS
<b>EPA Method 608 PCB</b>					
Aroclor 1016	ND	0.0500	ug/L	02/07/2008	U
Aroclor 1221	ND	0.0500	ug/L	02/07/2008	U
Aroclor 1232	ND	0.0500	ug/L	02/07/2008	U
Aroclor 1242	ND	0.0500	ug/L	02/07/2008	U
Aroclor 1248	ND	0.0500	ug/L	02/07/2008	U
Aroclor 1254	ND	0.0500	ug/L	02/07/2008	U
Aroclor 1260	ND	0.0500	ug/L	02/07/2008	U
Total PCB Amount > Reporting Limit	ND				U

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

**AUTHORIZED SIGNATURE:**

William A. Kotas  
Quality Assurance Officer

Robert E. Wagner  
Laboratory Director

# CERTIFICATE OF ANALYSIS

02/08/2008

ARCADIS

6723 TOWPATH RD

BOX 66

SYRACUSE, NY 13214

CONTACT: JOHN BRUSSEL



CUSTOMER ID: SW-DS-02072008

MATRIX: WATER

DATE RECEIVED: 02/07/2008 TIME: 12:30

SAMPLED BY: L. JEFTS

CUSTOMER PO: N/A

NEA ID: AL02252 NEA LRF: 08020039-02

DATE SAMPLED: 02/07/2008 TIME: 11:25

PROJECT: B0036643.0000 TASK 00019

LOCATION: COHOES, NY

LAB ELAP#: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE ANALYZED	FLAGS
<b>EPA Method 608 PCB</b>					
Aroclor 1016	ND	0.0500	ug/L	02/07/2008	U
Aroclor 1221	ND	0.0500	ug/L	02/07/2008	U
Aroclor 1232	ND	0.0500	ug/L	02/07/2008	U
Aroclor 1242	ND	0.0500	ug/L	02/07/2008	U
Aroclor 1248	ND	0.0500	ug/L	02/07/2008	U
Aroclor 1254	ND	0.0500	ug/L	02/07/2008	U
Aroclor 1260	ND	0.0500	ug/L	02/07/2008	U
Total PCB Amount > Reporting Limit	ND				U

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE:

William A. Kotas  
Quality Assurance Officer

Robert E. Wagner  
Laboratory Director



CERTIFICATE OF ANALYSIS

02/08/2008

ARCADIS

6723 TOWPATH RD

BOX 66

SYRACUSE, NY 13214

CONTACT: JOHN BRUSSEL

MATRIX: WATER

DATE RECEIVED: 02/07/2008 TIME: 12:30

SAMPLED BY: L. JEFTS

CUSTOMER PO: N/A

PROJECT: B0036643.0000 TASK 00019

LOCATION: COHOES, NY

LAB ELAP#: 11078

NEA LRF: 08020039

NEA ID	CUSTOMER ID	METHOD	DATE-TIME SAMPLED	RESULTS	PQL	FLAG	UNITS	DATE ANALYZED
<b>Total Suspended Solids</b>								
AL02251	SW-US-02072008	EPA 160.2	02/07/2008 11:00	151	5.00		mg/L	02/07/2008
AL02252	SW-DS-02072008	EPA 160.2	02/07/2008 11:25	186	5.00		mg/L	02/07/2008

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE:

William A. Kotas  
Quality Assurance Officer

Robert E. Wagner  
Laboratory Director

ARCADIS

3/19/2008

**E-Mail Correspondence to the  
NYSDEC**

Project Status Update

**Brussel, John**

---

**From:** Brussel, John  
**Sent:** Wednesday, March 19, 2008 8:53 AM  
**To:** Christopher O'Neill  
**Cc:** Chris Hogan; Maureen E. Schuck; James.F.Morgan@us.ngrid.com; 'Wingert, Ray'; Uncher, Thomas; Mike Reader; Nuss, James; Evans, Allen  
**Subject:** Nearshore Sediment Removal Project Update - School Street Hydro, Cohoes, NY (DEC Site #401044)

Chris,

As a follow-up to the voice-mail message I left you yesterday evening in response to your question concerning project status, please note that the sediment dredging, backfilling, surveying, and offsite transportation and disposal of the dredged sediment was complete as of February 8, 2008. Wastewater (from sediment dewatering) remains in onsite storage tanks and has not yet thawed. DA Collins has been checking the state of the the water 1-2 times per week, and will transport it for offsite treatment once it thaws. Final site restoration (removal of crane pad materials, minor grading, placement of topsoil, and seeding) will be performed once the weather improves.

The equipment remaining on-site is related to both the nearshore sediment removal project and Brookfield's power canal maintenance and restoration project. As you probably saw during your drive-by yesterday, equipment remaining onsite includes a backhoe, tug boat, crane, john-boat, and barges. D.A. Collins indicates that demobilization of the crane will be performed when the weather improves and they bring a crew back onsite. The boats, crane, and backhoe are anticipated to be used by D.A. Collins when they resume work on the canal project.

The final laboratory analytical data reports for the surface water monitoring were received a little over a week ago. Results are currently being validated and will be included in the Remedial Action Summary Report, which we anticipate providing to the NYSDEC in May 2008 (following completion of work).

Jim Morgan, National Grid's project manager, is on vacation through April 14, 2008. Feel free to call me in the meantime if you have any questions or require additional information.

Thank you.

-John

---

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ARCADIS, Imagine the result

---

3/19/2008

ARCADIS

5/29/2008

**E-Mail Correspondence to the  
NYSDEC**

Project Status Update

## Brussel, John

---

**From:** Brussel, John  
**Sent:** Thursday, May 29, 2008 1:17 PM  
**To:** 'Christopher O'Neill'  
**Cc:** 'Chris Hogan'; 'Maureen E. Schuck'; 'James.F.Morgan@us.ngrid.com'; 'Wingert, Ray'; 'Uncher, Thomas'; Nuss, James; Evans, Allen  
**Subject:** RE: Nearshore Sediment Removal Project Update - School Street Hydro, Cohoes, NY (DEC Site #401044)

Chris,

I wanted to give you an update on the status of the above-referenced project. Field work completed since our last e-mail correspondence includes transporting the wastewater generated during the sediment dredging activities for offsite treatment/disposal in April. Final restoration in the upland area around the sediment dewatering pad (final grading, topsoil placement, and seeding) will take place later next month after other unrelated construction work (i.e., on the dam) is completed.

It looks like it will probably be mid-to-late June before the Remedial Action Summary Report is ready for submittal to the NYSDEC. We're still waiting on a few weight tickets/fully-executed manifests, but should have them by that time.

Feel free to call me at 315.671.9441 if you have any questions or require additional information.

-John

-----Original Message-----

**From:** Christopher O'Neill [mailto:cxoneill@gw.dec.state.ny.us]  
**Sent:** Wednesday, March 19, 2008 9:21 AM  
**To:** Brussel, John  
**Cc:** Keith Goertz; mer10@health.state.ny.us  
**Subject:** Re: Nearshore Sediment Removal Project Update - School Street Hydro, Cohoes, NY (DEC Site #401044)

thanks for the update (and the phone message)

**From:** Brussel, John  
**Sent:** Wednesday, March 19, 2008 8:53 AM  
**To:** Christopher O'Neill  
**Cc:** Chris Hogan; Maureen E. Schuck; James.F.Morgan@us.ngrid.com; 'Wingert, Ray'; Uncher, Thomas; Mike Reader; Nuss, James; Evans, Allen  
**Subject:** Nearshore Sediment Removal Project Update - School Street Hydro, Cohoes, NY (DEC Site #401044)

Chris,

As a follow-up to the voice-mail message I left you yesterday evening in response to your question concerning project status, please note that the sediment dredging, backfilling, surveying, and offsite transportation and disposal of the dredged sediment was complete as of February 8, 2008. Wastewater (from sediment dewatering) remains in onsite storage tanks and has not yet thawed. DA Collins has been checking the state of the the water 1-2 times per week, and will transport it for offsite treatment once it thaws. Final site restoration (removal of crane pad materials, minor grading, placement of topsoil, and seeding) will be performed once the weather improves.

The equipment remaining on-site is related to both the nearshore sediment removal project and Brookfield's power canal maintenance and restoration project. As you probably saw during your drive-by yesterday, equipment remaining onsite

includes a backhoe, tug boat, crane, john-boat, and barges. D.A. Collins indicates that demobilization of the crane will be performed when the weather improves and they bring a crew back onsite. The boats, crane, and backhoe are anticipated to be used by D.A. Collins when they resume work on the canal project.

The final laboratory analytical data reports for the surface water monitoring were received a little over a week ago. Results are currently being validated and will be included in the Remedial Action Summary Report, which we anticipate providing to the NYSDEC in May 2008 (following completion of work).

Jim Morgan, National Grid's project manager, is on vacation through April 14, 2008. Feel free to call me in the meantime if you have any questions or require additional information.

Thank you.

-John

---

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ARCADIS, Imagine the result

---



**ARCADIS**

**7/9/2008**

**E-Mail Correspondence to the  
NYSDEC**

Project Status Update

## Brussel, John

---

**From:** Christopher O'Neill [cxoneill@gw.dec.state.ny.us]  
**Sent:** Wednesday, July 09, 2008 11:57 AM  
**To:** Brussel, John  
**Subject:** Re: Nearshore Sediment Removal Project Update - School Street Hydro, Cohoes, NY  
(DEC Site #401044)

thanks for the update

>>> "Brussel, John" <[John.Brussel@arcadis-us.com](mailto:John.Brussel@arcadis-us.com)> 7/9/2008 11:45:47 AM >>>  
Chris,

I wanted to let you know that preparation of the "draft" Remedial Action Summary Report is now complete, and the document is being routed for internal review. We anticipate finalizing and sending the report to the NYSDEC on or before July 31, 2008.

Feel free to call Jim Morgan at 315.428.3101 or me if you have any questions.

-John

---

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[www.arcadis-us.com](http://www.arcadis-us.com)<<http://www.arcadis-us.com>>

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**Appendix C**

Daily Field Notes

National Grid/Brookfield 36643.019 A. Evans  
Brookfield School St, FTA Sediment Redge  
1/22/07

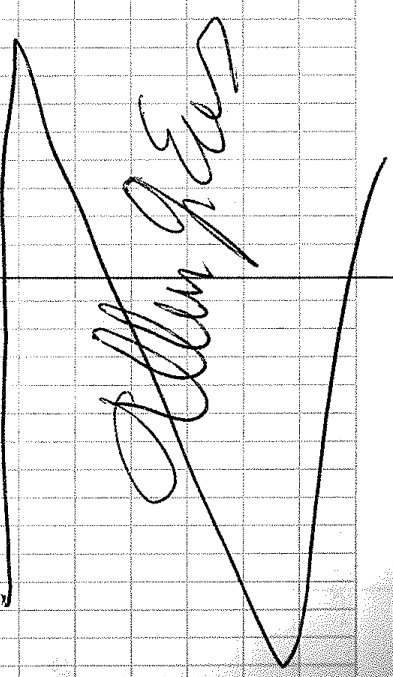
7:00 am on-site w/ M. Reader & DAK S. Serviss & Steve Bullab  
Very cold weather, ice in the river  
DAC D. MacDougall on way to site  
D. MacDougall decides DAC w/ perform landside work only & re assess contours on 1/22/07  
9:45 Evans off-site to get survey info from office  
11:30 on-site w/ DAK Surveyor mark off sets at US limit & Transect 3  
1330 Evans off site  
1600 DAC off site

  
A. Evans

Nat. Grid School St.  
Sediment Dredging

36643.019 A. Evans  
1/22/07

7:00 DAC on-site ice flow much less and plan to go ahead w/ trench box - install in river  
8:00 DAC has H&S meeting & starts work  
10:00 Crane set up and install trench box @ transect 3  
11:00 moving crane to US location and assembling trench boxes  
1300 Placing trench boxes @ US limit  
1430 DAC assembling 3rd trench box  
Lime stabilization material delivered to site  
1530 unable to assemble 3rd trench box, Evans off-site  
1600 DAC End Day

  
A. Evans

Nat Grid 36643, C19 A. Evans / L. Jeffs  
Brookfield School Street FFA 1/23/08

7:00 DAC on-site HES meeting  
7:30 DAC patches Brookfield PUD  
8:00 L. Jeffs / J. Saroney / P. Dougher  
on-site - perform safety orient.  
9:00 DAC begins deploying Turb.  
barrier & silt fence  
J. Saroney to get boat,  
P. Dougher setting up survey  
control  
11:00 ARCADIS puts Boat in water  
11:20 sample SW-US-01232008  
11:44 sample SW-DS-01232008  
Saroney to NEA  
Evans / Jeffs collect Turbid.  
samples  
13:30 DAC installing inner  
curtain.  
14:30 curtain to  $\approx 30'$  DS of  
Transect 3  $\approx 50\%$  of Area  
16:00 Dougher off-site

Note: Scott Seviss (DAC) agrees to use  
DAC boat (within curtains) to obtain  
ARCADIS survey locations in dredge area.

Sediment Dredging

Turbidity Measurement Baseline  
Downstream Upstream  
- 10 14 4.68 - 4.88 4.48 - 6.63  
- 13 40 5.46 - 7.23 4.14 - 4.48

Sampling

1120 SW-US-01232008 For PCBs & TSS  
to NEA 24-hr turn  
1144 SW-US-01232008 For PCB & TSS  
to NEA 24-hr turn

sample US w/ Bailer from Boat  
@ 2 locations  $\approx 100'$  upstream  
of work area

Sample DS w/ Bailer on pole  
From East Bank of Power Canal

Note: upstream and downstream samples  
for PCBs & TSS will continue to be  
collected using these same methods and  
sent to NEA on a 24-hr TAT  
unless noted

1/23/08 cont

NG/Brookfield School Street - FTA  
Weather: Sunny, 20°F @ 0730

1/24/08

0700 - Luke Jeffs and Pat Dougher onsite  
(LMS)  
complete H&S meeting

0730 - LMS sets up downwind and upwind  
particulate monitoring stations.

- Machine R5978 upwind, SN 85200433

- Machine R11323 downwind, SN 85202344

DAC continues to install silt fencing

0800 - LMS collects turb measurements

- upstream 6.6 NTUs

- downstream 4.5 NTUs

0830 - DAC cuts curtains on inner and  
outer curtains, rolls down to river bottom

1000 - ARCADIS surveys 4 corners of  
upper dredge area, obtains several  
elevations in middle of dredge area  
John Brussel, Jim Morgan, NYDEC  
onsite.

NG/Brookfield School Street - FTA

1/24/08

1145 - DAC lays plastic poly on land areas  
within swing of crane.

1150 - DAC begins dredging with environmental  
bucket. First bucket approximately 0.1-0.2  
yards. 2<sup>nd</sup> and 3<sup>rd</sup> buckets approx.  
1 yards. 4<sup>th</sup> bucket and on average  
0.1-0.2 yards each.

1220 - LMS and PSD collect upstream  
and downstream water samples for  
PCBs and TSS. Collected DUP, MS, and  
MSD on <sup>(LMS)</sup> downstream sample. 24-hr TAT

- SW-UB-01242008

- SW-DS-01242008

- SW-DUP-01242008

- SW-MS-01242008

- SW-MSD-01242008

collected from  
downstream  
sample

1245 - LMS collects turb meas.

- upstream - 9.3 NTUs

- downstream 4.9 NTUs

1250 - Break for lunch

Ng/Brookfield School Street - FTA

1/24/08

1330 - DAC resumes dredging.

1400 - CMS out in boat to check points that surveyed this morning to check elevations of dredging. Northern offshore corner has been cut down 6/10, nearshore Northern corner has been cut down 3/10, middle point has been cut down 6/10.

1430 - DAC resumes dredging.

1435 - CMS collects turb meas.

- upstream 10.0 NTUs

- downstream 5.4 NTUs

1530 - CMS collects turb meas.

- upstream 9.8 NTUs

- downstream 6.7 NTUs

1555 - DAC stops dredging. Spreads one excavator bucket of line on dredged soils, mixes in, covers dredged soil. Approx 5 yards dredged today.

Ng/Brookfield School Street - FTA

1/24/08

1615 - CMS removes particulate stations and downloads data.

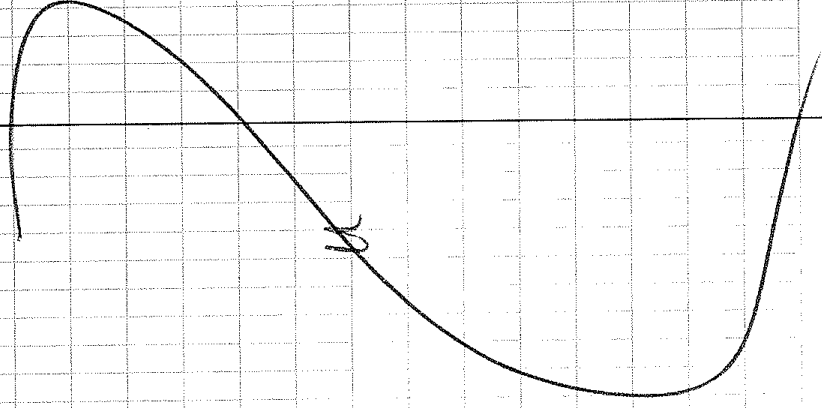
(CMS)

1640 - Workers offsite.

\* snow flurries from 1145 to 1500

\* DAC covered dredged material with poly @ end of day.

\* Particulate results in accordance with HARS and CAMP.





NG/Brookfield School Street - FTA

1/25/08

Weather: Sunny, 15°F @ 0730

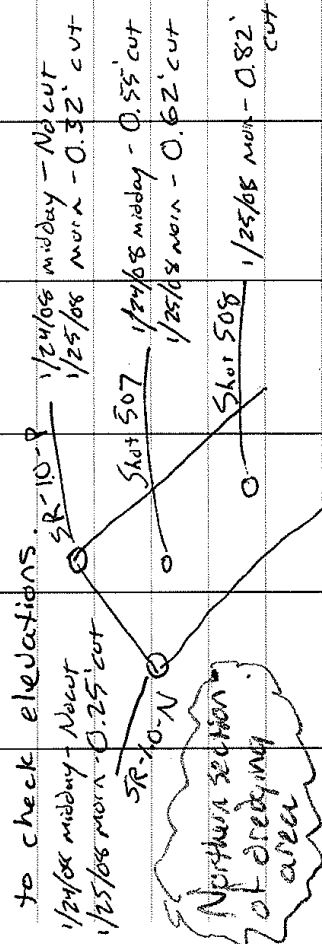
0700 - LMS and PSD onsite. Complete H&S meeting. DAC has PM and three workers onsite. 1/4" of ice in dredging area - DAC breaks up with boat.

0730 - LMS sets up air monitoring stations

- Machine R5928 upwind SN 85200433

- Machine R11523 downwind SN 85207344

0800 - ARCADIS surveys top of dredged area



\* Not too scale. See figure for locations.

LMS probes the above area with steel rod. Most of area is a tight FS, little coarse sand. Cannot feel any bedrock or large cobbles in area.

0840 - LMS and DAC call John Brussel. Explain that environmental bucket is

NG/Brookfield School Street - FTA

1/25/08

very slow and that it is not able to achieve the required depths of dredging. John will contact NG and state about using the conventional bucket. DAC on standby until word back.

(LMS)

0945 - John Brussel and Jim Morgan call LMS. Decide to tell DAC to switch to conventional bucket (1.5 hrs of work) and wait until further word from state. John has sent out email to state.

1000 - DAC begins switching out buckets.

1145 - DAC finished switching to conventional bucket. Enviro bucket placed on poly @ Northern side of site.

1150 - LMS, PSD offsite for lunch.

1235 - LMS 1/2 PSD onsite. DAC not onsite. Per Scott <sup>LMS Services</sup> ~~Settles~~ - DAC workers have been sent home for day



NG/Brookfield School Street - FTA

1/25/08

1245 - LMS removes particulate stations and downloads data. Particulate results are in accordance with the site specific HASP and CAMP.

1305 - LMS and PJD collect upstream and downstream samples for PCBs and TSS. No dredging completed today, however samples collected per John Brussel to further characterize surface water.

- SW-US-01252008  
- SW-DS-01252008

1345 - LMS offsite to NEA, PJD to Syracuse. LMS left gate unlocked - Electrician in power house will lock gate when he leaves the site.

1700 - ARCADIS/NG/Brookfield correspond with state on approval for use of conventional bucket. DAC will not mob full staff to the site on Monday as we await approval. DAC will send worker to check on site (curtains, covers, etc.).

NG/Brookfield School Street - FTA 1/29/08

Weather: Partly Cloudy, 20°F @ 0715

0700 - LMS onsite. Tom O'Rourke onsite. (TOR)  
DAC onsite (PM and three workers). Complete H&S meeting.

0730 - LMS & TOR set up air monitoring stations

- Machine R5928 upwind. SN 85200433  
- Machine R11523 downwind. SN 85202544

0740 - DAC breaks up ice within dredging area with crane (ice  $\frac{1}{4}$ " thick).

0755 - DAC begins dredging with conventional bucket (use of conventional bucket approved in January 28, 2008 NYSDEC letter).  
Conventional bucket averaging  $\sim 1.5$  yards<sup>3</sup> each pass.

0830 - LMS collects turb meas

- upstream 14 NTUs (had to break hole in ice)  
- downstream 8.1 NTUs

0840 - DAC constructs higher wall in containment pad @ low end where the water collects - in anticipation of rain

NG/Brookfield School Street - FTA

1/29/05

overnight

0905 - LMS surveys top of dredging area

0945 - DAC on break

1000 - DAC resumes dredging. LMS collects turb measurements

- upstream 12.3 NTUs

- downstream 8.1 NTUs

1030 - David Macdougall (DAC) onsite

1045 - LMS collects turb measurements

- upstream 3.8 NTUs

- downstream 3.4 NTUs

1100 - LMS and TOR collect upstream and downstream samples for PCBs and TSS.

- SW-UP - 01292008

- SW-Ds - 01292008

\* Note: per John Brussel, now using method

NG/Brookfield School Street FTA

1/29/08

NYSDEC letter

608 for PCBs (approved in January 28, 2008)

1145 - LMS offsite to NEA. TOR onsite until DAC breaks for lunch.

1150 - POR collects turb measurements

- upstream 6.1 NTUs

- downstream 7.2 NTUs

1210 - DAC stops dredging, breaks for lunch

1235 - DAC resumes dredging

1245 - LMS onsite. DAC averaging approximately 0.5 yards<sup>3</sup> a bucket, averaging approximately 5 minutes a bucket w/ drain time.

1300 - LMS collects turb measurements

- upstream 5.6 NTUs

- downstream 4 NTUs

Ng/Brookfield School Street - FTA

1/29/08

1400 - LMS collects turb measurements

- upstream

5.1 NTUs

- downstream

4.7 NTUs

1415 - ARCADIS surveys dredging area

1445 - ARCADIS Finished survey

1450 - DAC Resumes dredging

1515 - LMS collects turb measurements

- upstream

6.9 NTUs

- downstream

9.2 NTUs

1605 - DAC stops dredging. ARCADIS surveys dredge area to ensure that DAC obtained required cuts in dredging area.

Ng/Brookfield School Street - FTA

1/29/08

1720 - ARCADIS Finished surveying. DAC has achieved dredge limits in the top area.

DAC has covered dredged sediment with poly.

approximately 40 yards<sup>3</sup> of sediment has

been removed. DAC covers entire containment

pad with poly in anticipation of rain

overnight. Approx 500 gal in dewatering tank.

1730 - LMS removes particulate stations

and downloads data. Particulate results

are in accordance with site-specific HASP

and CAMP. DAC offsite

LMS

1740 - LMS, ~~FF~~ TOR offsite. Brookfield

locks gate.

NG/Brookfield School Street - FTA 1/30/08  
Weather: Windy, Cloudy, 25°F @ 0700

0700 - LMS onsite. DAC onsite (PM and 3 Workers). TOR onsite. Complete H&ES meeting.

0720 - LMS sets up air monitoring stations  
- Machine R5928 upwind. SN 85200433  
- Machine R11323 downwind. SN 85202344

0730 - DAC begins to backfill top dredge area (area cleared yesterday) with clean sand fill.

0750 - LMS collects turb measurements  
- upstream 4.1 NTUs  
- downstream 3.8 NTUs

0815 - Periods of rain. Rain stops @ 0915

0845 - LMS collects turb measurements  
- upstream 3.4 NTUs  
- downstream 7.8 NTUs

0900 - ARCADIS surveys top dredge area to determine that 1' of fill in area. ARCADIS

NG-Brookfield School Street - FTA 1/30/08

directs DAC to fill in areas that are not achieving fill requirements.

1115 - SR-1.0-N, SR-1.0-P, and shot 507 cleared with > 1.0' of fill, DAC begins to add fill near shot 508 as ARCADIS directs.

1140 - Per Brookfield, too windy for crane to operate safely. Shuts down job for today. May continue to use crane on Thursday - weather permitting.

1200 - LMS and TOR collect upstream and downstream samples for PCBs and TSS  
- SW-US-01302008  
- SW-DS-01302008

1300 - LMS offsite to NEA. 2 DAC workers remain for rest of day to tidy construction area. Will not use crane. Removes air monitoring stations and downloads data. Particulate results are in accordance with site-specific HASP & CAMP.



Ng/Brookfield School Street - FTA

1/31/08

Ng/Brookfield School Street - FTA 1/31/08

Weather: 25°F, Partly Cloudy

CMJ

0700 - ~~DAC~~ CMJ onsite. DAC onsite (PM and 3 workers). TOR onsite. Complete H&ES meeting

0715 - CMJ sets up air monitoring stations

- Machine R5928 upwind. SN 8520043

- Machine R11323 downwind. SN 85202344

0730 - ARCADIS surveys top area to determine that 1" of fill in area. ARCADIS directs DAC to place fill in areas that are not achieving fill requirements.

0800 - CMJ collects turb measurements

- upstream 3.6 NTUs

- downstream 4 NTUs

0900 - CMJ collects turb measurements

- upstream 4.2 NTUs

- downstream 5.6 NTUs

0930 - DAC finished backfilling in top dredge area (from top to just below T-3). ARCADIS has verified by surveying that DAC has

placed > 1.0' of fill in this area.

1000 - CMJ collects turb measurements

- upstream 5.3 NTUs

- downstream 5.0 NTUs

1005 - DAC begins to load 2 trucks with dewatered sediment from pad. CMJ signs manifests on behalf of NG. See manifest tracking form. Approx 65 tons loaded out.

1105 - CMJ collects upstream and downstream samples for PCBs and TSS

- SW-US-01312008

- SW-DS-01312008

1200 - CMJ offsite to NEA. TOR remains onsite. DAC off to lunch.

1230 - DAC removes bucket from crane, moves two trenchboxes @ top of dredge area (one stored onsite, one placed just below T-3). Begin placing curtains @ lower portion of dredge area.

NG/Brookfield School Street - FTA

1/31/08

1630 - DAC stops installing curtains. Tidies work area.

1645 - LMS removes air monitoring stations and downloads data. Particulate results are in accordance with site-specific HASP and CUMP.

1700 - offsite

NG/Brookfield School Street - FTA

2/1/08

Weather: Cloudy, Sleet @ 0900, 30°F

0700 - LMS onsite. TOR onsite. DAC onsite (PM and 3 workers). Complete H&S meeting.

0730 - LMS sets up upwind and downwind particulate monitoring stations. 85

- Machine R5928 upwind. SN 85200433

- Machine R11323 downwind. SN 85202344

DAC works on installing turbidity barriers on bottom area.

0830 - ARCADIS surveys bottom area - marks limits and original elevations of sediment.

1100 - Rain/Sleet/Snow

1130 - LMS and TOR collect upstream and downstream samples for PCBs and TSS

- SW-US-02012008

- SW-DS-02012008

1210 - LMS offsite to NEA. DAC takes lunch break.

NG/Brookfield School Street - FTA 2/1/08

1245 - DAC reconnects conventional bucket to crane

1325 - DAC begins to dredge in lower portion of dredge area. Rain. Dredging going very slow south of T-3, very rocky (appears to be tight FS with cobbles). When bucket hits/clamps on a cobble, sand runs out of bucket.

1400 - LMS removes air monitoring stations because of rain.

1405 - LMS collects turb measurements.

upstream 6.2 NTUs

downstream 9.6 NTUs

1445 - LMS calls John Brussel. Per John, will collect second sample this afternoon (during dredging). Per Brookfield, gates will be opened this weekend to generate power. AFCADIS will collect a sample on Sat.

1500 LMS

1530 - LMS collects turb measurements

NG/Brookfield School Street - FTA 2/1/08

upstream 7.4 NTUs

downstream 11.1 NTUs

1530 - LMS collects second samples upstream and downstream for PCBs and TSS

-SW-US-02012008-02

-SW-DS-02012008-02 (collect DUP, MS, MSD)

-SW-DUP-02012008

-SW-MS-02012008

-SW-MSD-02012008

1550 - LMS collects turbidity measurements

upstream 9.8 NTUs

downstream 10.1 NTUs

1615 - DAC stops dredging. Tidies pile in pad. Approx 4-5 yards of sediment dredged today. DAC mixes line in sediment and covers dredged sediment.

1700 - LMS and DAC offsite.

NG/Brookfield School Street - FTA 2/2/08

Weather: Partly cloudy, 25°F Monday LMJ

1000 - LMJ onsite. prepares sample bottles for collection.

1015 - Mike Reader (Brookfield) onsite.  
Opens gates to work area.

1040 - LMJ collects upstream and downstream samples for PCBs and TSS  
- SW-US-02022008  
- SW-US-02022008

Note: Brookfield opened gates this morning.  
Very quick flow. Flow is making turbidity curtains swing downstream in direction of flow.

1125 - LMJ and Brookfield offsite.  
LMJ to NEA to drop off today's and yesterday's (afternoon) samples.

NG/Brookfield School Street - FTA 2/4/08

Weather: Cloudy, 30°F @ 0700 Monday

0700 - LMJ onsite. Talk onsite. DAC onsite (PM & 3 workers). Complete H&S meeting.

0720 - LMJ sets up air monitoring stations.  
- Machine R5928 upwind. SN 85200433  
- Machine R11323 downwind. SN 85202344

DAC fixes turbidity curtains (high flow this weekend caused curtains to move slightly). DAC used crane to pull curtains out from dredge area.

0800 - DAC removes floating debris (wood, logs, garbage) from bottom of dredge area against ice fender.

0820 - DAC begins dredging in lower dredge area. DAC has a new operator this week. This operator appears to be much more experienced, and is able to grab larger buckets of sediment.

0930 - Per Jan Brussel, DAC grabs test



2/4/08

buckets every 5-8 feet in lower dredge area to determine if a longstick excavator is needed. The new crane operator appears to run bucket more smoothly - Per ARCADIS and Brookfield, a longstick is not needed.

0935 - CMS collects turbidity measurements  
 - upstream 9.7 NTUs  
 - downstream 11.9 NTUs

1020 - CMS collects turbidity measurements  
 - upstream 8.3 NTUs  
 - downstream 14.2 NTUs

1100 - DAC stops dredging

1115 - CMS collects upstream and downstream surface water samples for PCBs and TSS  
 - SW-US - 02042008  
 - SW-DS - 02042008

1200 - CMS offsite to NEA

2/4/08

1200 - DAC resumes dredging. Some cobbles/rocks in area below (south) of T-3. Appears to be large pieces of concrete in this area. Possible that a foundation is in this area.

1255 - CMS collects turbidity measurements  
 - upstream 10.9 NTUs  
 - downstream 12.5 NTUs

1330 - ARCADIS surveys dredge areas to check depths of dredging (DAC stops dredging).

1415 - DAC resumes dredging

1422 - CMS collects turbidity measurements  
 - upstream 11.2 NTUs  
 - downstream 15.8 NTUs

1445 - DAC stops dredging. ARCADIS surveys dredge areas to check depths of dredging.

NG - Brookfield School Street - FTA 2/4/08

1500 - DAC brings 2nd 1000 gal poly tank onsite for sediment water.

1515 - DAC starts dredging.

1530 - AT-LMS collects turbidity measurements  
- upstream 20.0 NTUs  
- downstream 22.1 NTUs

Note: river turbidity increasing due to rain/runoff and increased flow

1630 - LMS collects turbidity measurements  
- upstream 21.3 NTUs  
- downstream 19.8 NTUs

1715 - LMS collects turbidity measurements  
- upstream 15.7 NTUs  
- downstream 22.0 NTUs

1730 - DAC stops dredging. Covers dredged sediment in pad with poly after mixing with lime.

1800 - ARCADIS and DAC offsite

NG - Brookfield School Street - FTA 2/5/08

Weather: Cloudy, Rain, 35°F Tuesday

0700 - LMS onsite. TOR onsite. DAC onsite (Foreman & 2 workers). Complex H&S meeting.

0715 - Rain/Sheet

0730 - LMS sets up air monitoring stations  
- Machine R5928 upwind. SN 85200433  
- Machine R11323 downwind. SN 85202344

0735 - ARCADIS surveys dredged areas to determine if DAC has achieved cut requirements, directs DAC to dredge in areas that have not achieved requirements.

0830 - TOR collects turbidity measurements  
- upstream 23.2 NTUs  
- downstream 18.5 NTUs

Note: turbid river water, high flow due to rain.

ARCADIS continues to survey and direct dredging

NG/Brookfield School Street - FTA 2/5/08

0930 - DAC stops for break.

0935 - CMS collects turbidity measurements

- upstream 28.2 NTUs

- downstream 15.6 NTUs

0945 - CMS removes air monitoring stations due to heavy rains.

0950 - ARCADIS continues to survey and directs DAC to dredge certain areas.

1000 - Per Mike Reader, Brookfield will open powerhouse gates to generate energy tomorrow (Wed) @ noon. Will be high flow. Will need to be finished dredge and backfill by then.

1100 - ARCADIS stops surveying DAC is finished with dredging in <sup>middle</sup> ~~lower~~ area. CMS

1115 - CMS and TOR collect turb measurements

- upstream 27.6 NTUs

- downstream 24.2 NTUs

NG-Brookfield School Street - FTA 2/5/08

1130 - CMS and TOR collect upstream and downstream water samples for PCBs & TSS  
- upstream SW-US-02052008  
- downstream SW-DS-02052008

1145 - DAC brings large (15-20k gal) frac tank onsite. Begins pumping water from two smaller (1k gal) tanks into the frac tank.

1150 - CMS offsite to NEA.

1300 - ARCADIS surveys lower portion of dredge area (~T-1) to determine if DAC has achieved cut requirements. ARCADIS directs DAC to dredge in areas that have not achieved requirements.

1330 - CMS collects turbidity measurements  
- upstream 17.9 NTUs

- downstream 26.1 NTUs

ARCADIS continues surveying and directing to dredge in specific areas.

NG-Brookfield School Street - FTA 2/5/08

1415 - TOR collects turbidity measurements

-upstream 28.2 NTUs

-downstream 23.5 NTUs

ARCADIS continues surveying and directing DAC to dredge in specific areas.

1515 - TOR collects turbidity measurements

-upstream 26.3 NTUs

-downstream 24.1 NTUs

1530 - DAC stops dredging. ARCADIS survey

has confirmed that DAC has dredged to specs. Two areas in middle of dredge (noted on survey) were not able to be dredged to full depth due to an obstruction(s). CMS probed with steel rod - does not appear to be rock, seems to be an older concrete foundation. DAC was not able to dredge to full depth in these locations - tried for  $\frac{1}{2}$  hour in each location and was not grabbing any sediment.

NG-Brookfield School Street - FTA 2/5/08

1540 - DAC begins backfilling lower dredge area. Clean fill.

1600 - CMS collects turbidity measurements

-upstream 13.3 NTUs

-downstream 20.3 NTUs

1630 - DAC stops backfilling. Lines and covers dredged sediment with poly.

1700 - ARCADIS and PAC offsite.



National Grid/Bookfield School Street 2/9/08  
Weds

Weather: Cloudy, heavy rain, 30°F

0700 - LMS onsite. TOR onsite. DAC onsite (foreman and 2 workers). Complex H&S meeting.

Heavy rain. No air monitoring stations today due to rain.

0730 - DAC resumes backfilling lower dredge area with clean fill.

0740 - LMS collects turbidity measurements.  
-upstream 29.6 NTUs  
-downstream 23.1 NTUs

Note: heavy rains are increasing flow and turbidity of river.

0755 - ARCADIS surveys backfill limits and directs DAC to place backfill in areas that are not achieving requirements.

0830 - TOR collects turbidity measurements  
-upstream 26.7 NTUs  
-downstream 32.3 NTUs

National Grid/Bookfield School Street 2/6/08

ARCADIS continues surveying and directing backfilling.

0930 - TOR collects turbidity measurements  
-upstream 36.9 NTUs  
-downstream 32.6 NTUs

ARCADIS continues surveying and directing backfilling.

1020 - TOR collects turbidity measurements  
-upstream 34.2 NTUs  
-downstream 27.5 NTUs

Note: Storm culvert @ top of site appears to relay stormwater from school street into river) is ~50 feet north of upstream turbidity measurement - this may be reason that upstream measurement is sometimes higher than downstream measurement.

ARCADIS continues surveying and directing backfilling.

National Grid/Brookfield School Street 2/6/08

1115 - DAC finished backfilling. ARCADIS survey has documented that DAC has achieved backfill requirements.

1120 - LMS collects upstream and downstream surface water samples for PCBs and TSS  
-SW-US-02062008  
-SW-DS-02062008

1130 - DAC removes conventional bucket from crane.

1145 - DAC begins removing turbidity curtains using crane. Place curtains on rolloff.

1205 - LMS offsite to NEA. JCR offsite to Syracuse.

Per Mike Reader, Brookfield has opened gates to draw power. Flow is very high due to rain. Fast Flow.

National Grid/Brookfield School Street 2/6/08

1400 - DAC has removed all turbidity curtains. Begins to remove (2) trench boxes from river.

1540 - Both trench boxes out of river

1550 - Pull DAC rowboat out of river

1630 - DAC moves crane to higher ground.

1700 - DAC and ARCADIS offsite.

Note: LMS collected sample from frac tank for water characterization  
- WIA-Char-02062008

Sample sent to STL (Test America) for analyses for PCBs, TAL metals, TCL SVOCs, TCL VOCs, pH, and flashpoint on a 3-day TAT.

National Grid/Brookfield School Street 2/7/08  
Thurs

Weather: Cloudy, snow, 20°F

0700 - LMS onsite. DAC onsite (foreman and 3 workers). Complete H&S meeting.

Light snow. LMS does not set up air monitoring stations due to snow.

0720 - Trucks begin coming onsite (4 total for today).

0815 - DAC begins loading trucks. See waste material log for truck and manifest information.

1100 - LMS collects upstream and downstream samples for PCBs and TSS.

- upstream SW-US - 02072008

- downstream SW-DS - 02072008

- SW-DUP - 02072008

- SW-MS - 02072008 } collected from down-

- SW-MSD - 02072008 } stream location.

Note: River water is very high, fast flow, and very turbid due to heavy

National Grid/Brookfield School Street 2/7/08

precipitation events over last few days.

1200 - DAC finished loading 4<sup>th</sup> truck.

1205 - LMS offsite to NEA.

1330 - DAC cranes out DAC tugboat, places on ground.

1430 - DAC starts to grade gravel from the two crane pad areas.

1515 - DAC decons excavator bucket and tracks (within pad) with pressure washer. Collects washwater in pad and pumps into fire tank.

1700 - DAC and ARCADIS offsite.

National Grid/Brockfield School Street 2/8/08

Weather: Sunny, 25°C Friday

0700 - CMS onsite. DAC onsite (Foreman and 2 workers). Complete H&S meeting.

0730 - CMS sets up air monitoring stations  
- Machine R5928 upwind SN 85200433  
- Machine R11323 downwind. SN 85202344

0735 - DAC unthaw's pressure washer

0815 - DAC decons conventional bucket (within pad) with pressure washer. Collects wastewater and pumps into frac tank.

0845 - DAC decons environmental bucket (within pad) with pressure washer. Collects wastewater and pumps into frac tank.

0950 - Trucks onsite to haul out pad materials. DAC begins loading trucks. See waste material log for truck and manifest information. (3 trucks total today).

National Grid/Brockfield School Street 2/8/08

1000 - DAC begins to dismantle trench boxes

1230 - DAC finished loading 3rd truck.

1310 - DAC removes decons environmental bucket from site on DAC truck

1430 - DAC and ARCADIS offsite.

Note: DAC plans to mob to site next week to continue cleaning site and demob activities.





**Appendix D**

Project Photographs

**APPENDIX D**  
**PHOTOGRAPH LOG**

<p><b>PHOTOGRAPH #:</b> 1</p> <p><b>DATE:</b> January 24, 2008</p> <p><b>COMMENT:</b> Installing turbidity barriers and temporary deflection barriers (trench boxes) around the upstream dredge area.</p>	
<p><b>PHOTOGRAPH #:</b> 2</p> <p><b>DATE:</b> January 24, 2008</p> <p><b>COMMENT:</b> Dredging in upstream dredge area with environmental bucket.</p>	

**APPENDIX D  
PHOTOGRAPH LOG**



<p><b>PHOTOGRAPH #:</b> 3</p> <p><b>DATE:</b> January 24, 2008</p> <p><b>COMMENT:</b> Environmental bucket dumping sediment in the material staging area</p>	
<p><b>PHOTOGRAPH #:</b> 4</p> <p><b>DATE:</b> January 29, 2008</p> <p><b>COMMENT:</b> Dredging with clamshell bucket in upstream dredge area.</p>	

**APPENDIX D  
PHOTOGRAPH LOG**


<p><b>PHOTOGRAPH #: 5</b></p> <p><b>DATE:</b> January 31, 2008</p> <p><b>COMMENT:</b> Installing turbidity barrier in downstream dredge area.</p>	
<p><b>PHOTOGRAPH #: 6</b></p> <p><b>DATE:</b> February 2, 2008</p> <p><b>COMMENT:</b> Dredging in downstream dredge area with clamshell bucket.</p>	



**APPENDIX D  
PHOTOGRAPH LOG**

<p><b>PHOTOGRAPH #:</b> 7</p> <p><b>DATE:</b> February 2, 2008</p> <p><b>COMMENT:</b> Dumping sediment in material staging area with clamshell bucket.</p>	 <p>A large clamshell bucket, suspended by a crane, is shown dumping a load of dark, wet sediment into a staging area. In the background, a yellow crane and a body of water are visible under an overcast sky.</p>
<p><b>PHOTOGRAPH #:</b> 8</p> <p><b>DATE:</b> February 4, 2008</p> <p><b>COMMENT:</b> Mixing sediment with lime to stabilize material prior to loading for offsite disposal.</p>	 <p>A yellow excavator is shown working in a staging area, mixing sediment with lime. The ground is covered with a layer of white lime and dark sediment. A large pile of material is visible in the background, and a yellow crane is also present.</p>

**APPENDIX D  
PHOTOGRAPH LOG**

<p><b>PHOTOGRAPH #: 9</b></p> <p><b>DATE:</b> February 4, 2008</p> <p><b>COMMENT:</b> Backfilling downstream dredge area with imported sand.</p>	
<p><b>PHOTOGRAPH #: 10</b></p> <p><b>DATE:</b> February 5, 2008</p> <p><b>COMMENT:</b> Tank for storage of wastewater generated during sediment dewatering activities.</p>	

**APPENDIX D  
PHOTOGRAPH LOG**

<p><b>PHOTOGRAPH #:</b> 11</p> <p><b>DATE:</b> February 6, 2008</p> <p><b>COMMENT:</b> Loading of dewatered and stabilized sediment for offsite disposal.</p>	
<p><b>PHOTOGRAPH #:</b> 12</p> <p><b>DATE:</b> February 7, 2008</p> <p><b>COMMENT:</b> Decontaminating the clamshell and environmental buckets.</p>	

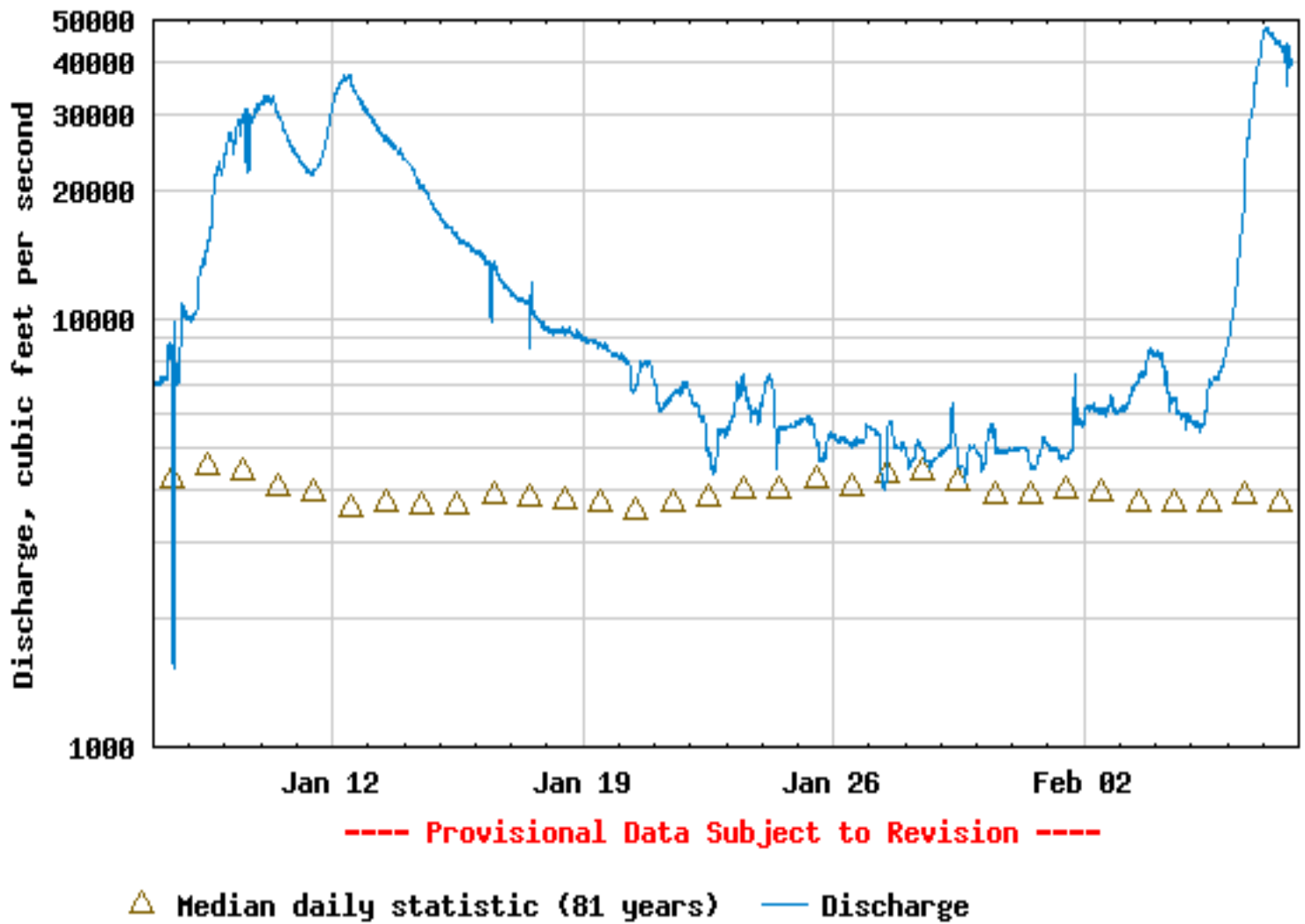
## Appendix E

USGS Daily Flow Data





## USGS 01357500 MOHAWK RIVER AT COHOES NY



## **Appendix F**

Air Monitoring Summary and Logs

**APPENDIX F  
AIR MONITORING SUMMARY AND LOGS**

**REMEDIAL ACTION SUMMARY REPORT  
BROOKFIELD POWER, INC.  
(FORMER NATIONAL GRID)  
SCHOOL STREET HYDROELECTRIC STATION  
COHOES, NEW YORK**

<b>Week Beginning</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
1/21/2008	Site Preparation Activities Only	Site Preparation Activities Only	Site Preparation Activities Only	X	X
1/28/2008	No Work Activities Performed	X	X (See Note 2)	X	X
2/4/2008	X	X	No Air Monitoring Due to Heavy Rain	No Air Monitoring Due to Snow	X

**Note:**

1. X indicates air monitoring was performed on the indicated day.
2. Air monitoring performed in morning only. All site work was shut down on the afternnon of January 30, 2008 due to high winds.

**Community Air Monitoring  
Activities**

1/24/08

Downwind Air Monitoring Results

# Test 001

Instrument		Data Properties	
Model	Dust Trak	Start Date	01/24/2008
Meter S/N	85202344	Start Time	07:42:59
		Stop Date	01/24/2008
		Stop Time	16:27:59
		Total Time	0:08:45:00
		Logging Interval	900 seconds

Statistics	
	<b>Aerosol</b>
Ave	0.027 mg/m <sup>3</sup>
Max	0.036 mg/m <sup>3</sup>
Max Date	01/24/2008
Max Time	08:12:59
Min	0.020 mg/m <sup>3</sup>
Min Date	01/24/2008
Min Time	11:27:59
TWA (8 hr)	0.030
TWA Start Date	01/24/2008
TWA Start Time	07:42:59
TWA End Time	16:27:59

Test Data			
Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	01/24/2008	07:57:59	0.029
2	01/24/2008	08:12:59	0.036
3	01/24/2008	08:27:59	0.032
4	01/24/2008	08:42:59	0.033
5	01/24/2008	08:57:59	0.036
6	01/24/2008	09:12:59	0.035
7	01/24/2008	09:27:59	0.030
8	01/24/2008	09:42:59	0.032
9	01/24/2008	09:57:59	0.028
10	01/24/2008	10:12:59	0.030
11	01/24/2008	10:27:59	0.030
12	01/24/2008	10:42:59	0.035
13	01/24/2008	10:57:59	0.021
14	01/24/2008	11:12:59	0.023
15	01/24/2008	11:27:59	0.020
16	01/24/2008	11:42:59	0.032
17	01/24/2008	11:57:59	0.020
18	01/24/2008	12:12:59	0.022
19	01/24/2008	12:27:59	0.023
20	01/24/2008	12:42:59	0.022
21	01/24/2008	12:57:59	0.022

Test Data			
Sample	Date	Time	Aerosol mg/m <sup>3</sup>
22	01/24/2008	13:12:59	0.021
23	01/24/2008	13:27:59	0.022
24	01/24/2008	13:42:59	0.022
25	01/24/2008	13:57:59	0.022
26	01/24/2008	14:12:59	0.024
27	01/24/2008	14:27:59	0.024
28	01/24/2008	14:42:59	0.024
29	01/24/2008	14:57:59	0.027
30	01/24/2008	15:12:59	0.029
31	01/24/2008	15:27:59	0.031
32	01/24/2008	15:42:59	0.031
33	01/24/2008	15:57:59	0.033
34	01/24/2008	16:12:59	0.030
35	01/24/2008	16:27:59	0.030

**Community Air Monitoring  
Activities**

1/24/08

Upwind Air Monitoring Results

# Test 001

Upwind

Instrument		Data Properties	
Model	Dust Trak	Start Date	01/24/2008
Meter S/N	85200433	Start Time	07:42:57
		Stop Date	01/24/2008
		Stop Time	16:42:57
		Total Time	0:09:00:00
		Logging Interval	900 seconds

Statistics	
	<b>Aerosol</b>
Ave	0.036 mg/m <sup>3</sup>
Max	0.048 mg/m <sup>3</sup>
Max Date	01/24/2008
Max Time	09:12:57
Min	0.026 mg/m <sup>3</sup>
Min Date	01/24/2008
Min Time	11:27:57
TWA (8 hr)	0.041
TWA Start Date	01/24/2008
TWA Start Time	07:42:57
TWA End Time	16:42:57

Test Data			
Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	01/24/2008	07:57:57	0.038
2	01/24/2008	08:12:57	0.046
3	01/24/2008	08:27:57	0.042
4	01/24/2008	08:42:57	0.040
5	01/24/2008	08:57:57	0.042
6	01/24/2008	09:12:57	0.048
7	01/24/2008	09:27:57	0.043
8	01/24/2008	09:42:57	0.039
9	01/24/2008	09:57:57	0.036
10	01/24/2008	10:12:57	0.032
11	01/24/2008	10:27:57	0.033
12	01/24/2008	10:42:57	0.032
13	01/24/2008	10:57:57	0.029
14	01/24/2008	11:12:57	0.028
15	01/24/2008	11:27:57	0.026
16	01/24/2008	11:42:57	0.028
17	01/24/2008	11:57:57	0.027
18	01/24/2008	12:12:57	0.030
19	01/24/2008	12:27:57	0.031
20	01/24/2008	12:42:57	0.034



Test Data			
Sample	Date	Time	Aerosol mg/m^3
21	01/24/2008	12:57:57	0.032
22	01/24/2008	13:12:57	0.030
23	01/24/2008	13:27:57	0.030
24	01/24/2008	13:42:57	0.031
25	01/24/2008	13:57:57	0.032
26	01/24/2008	14:12:57	0.033
27	01/24/2008	14:27:57	0.035
28	01/24/2008	14:42:57	0.036
29	01/24/2008	14:57:57	0.037
30	01/24/2008	15:12:57	0.041
31	01/24/2008	15:27:57	0.042
32	01/24/2008	15:42:57	0.043
33	01/24/2008	15:57:57	0.044
34	01/24/2008	16:12:57	0.045
35	01/24/2008	16:27:57	0.041
36	01/24/2008	16:42:57	0.043

**Community Air Monitoring  
Activities**

1/25/08

Downwind Air Monitoring Results

# Test 002

Instrument		Data Properties	
Model	Dust Trak	Start Date	01/25/2008
Meter S/N	85202344	Start Time	07:26:44
		Stop Date	01/25/2008
		Stop Time	12:56:44
		Total Time	0:05:30:00
		Logging Interval	900 seconds

Statistics	
	<b>Aerosol</b>
Ave	0.007 mg/m <sup>3</sup>
Max	0.015 mg/m <sup>3</sup>
Max Date	01/25/2008
Max Time	12:26:44
Min	0.004 mg/m <sup>3</sup>
Min Date	01/25/2008
Min Time	07:56:44
TWA (8 hr)	0.005
TWA Start Date	01/25/2008
TWA Start Time	07:26:44
TWA End Time	12:56:44

Test Data			
Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	01/25/2008	07:41:44	0.008
2	01/25/2008	07:56:44	0.004
3	01/25/2008	08:11:44	0.004
4	01/25/2008	08:26:44	0.004
5	01/25/2008	08:41:44	0.004
6	01/25/2008	08:56:44	0.005
7	01/25/2008	09:11:44	0.004
8	01/25/2008	09:26:44	0.005
9	01/25/2008	09:41:44	0.006
10	01/25/2008	09:56:44	0.008
11	01/25/2008	10:11:44	0.008
12	01/25/2008	10:26:44	0.011
13	01/25/2008	10:41:44	0.009
14	01/25/2008	10:56:44	0.009
15	01/25/2008	11:11:44	0.013
16	01/25/2008	11:26:44	0.011
17	01/25/2008	11:41:44	0.010
18	01/25/2008	11:56:44	0.009
19	01/25/2008	12:11:44	0.005
20	01/25/2008	12:26:44	0.015
21	01/25/2008	12:41:44	0.007

Test Data			
Sample	Date	Time	Aerosol mg/m <sup>3</sup>
22	01/25/2008	12:56:44	0.005

**Community Air Monitoring  
Activities**

1/25/08

Upwind Air Monitoring Results

# Test 002

Instrument		Data Properties	
Model	Dust Trak	Start Date	01/25/2008
Meter S/N	85200433	Start Time	07:29:22
		Stop Date	01/25/2008
		Stop Time	13:14:22
		Total Time	0:05:45:00
		Logging Interval	900 seconds

Statistics	
	<b>Aerosol</b>
Ave	0.015 mg/m <sup>3</sup>
Max	0.059 mg/m <sup>3</sup>
Max Date	01/25/2008
Max Time	07:44:22
Min	0.008 mg/m <sup>3</sup>
Min Date	01/25/2008
Min Time	08:14:22
TWA (8 hr)	0.011
TWA Start Date	01/25/2008
TWA Start Time	07:29:22
TWA End Time	13:14:22

Test Data			
Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	01/25/2008	07:44:22	0.059
2	01/25/2008	07:59:22	0.014
3	01/25/2008	08:14:22	0.008
4	01/25/2008	08:29:22	0.008
5	01/25/2008	08:44:22	0.009
6	01/25/2008	08:59:22	0.011
7	01/25/2008	09:14:22	0.010
8	01/25/2008	09:29:22	0.013
9	01/25/2008	09:44:22	0.014
10	01/25/2008	09:59:22	0.016
11	01/25/2008	10:14:22	0.016
12	01/25/2008	10:29:22	0.015
13	01/25/2008	10:44:22	0.016
14	01/25/2008	10:59:22	0.015
15	01/25/2008	11:14:22	0.016
16	01/25/2008	11:29:22	0.017
17	01/25/2008	11:44:22	0.018
18	01/25/2008	11:59:22	0.013
19	01/25/2008	12:14:22	0.012
20	01/25/2008	12:29:22	0.011
21	01/25/2008	12:44:22	0.011

Test Data			
Sample	Date	Time	Aerosol mg/m <sup>3</sup>
22	01/25/2008	12:59:22	0.011
23	01/25/2008	13:14:22	0.011

**Community Air Monitoring  
Activities**

1/29/08

Downwind Air Monitoring Results



# ARCADIS

# Air Monitoring Log

Project: National Grid School Street Dredging  
Project

Date: 1/29/2008

Particulate Monitor: Dust trak

Activity: Dredging/backfilling

Level of Protection: Level D / Modified Level D

Time	Location	Air Reading	Particulate Reading	Comments
0730	Downwind	NA	0.008	
0745			0.005	
0800			0.007	
0815			0.009	
0830			0.009	
0845			0.008	
0900			0.009	
0915			0.008	
0930			0.008	
0945			0.010	
1000			0.017	
1015			0.021	
1030			0.014	
1045			0.013	
1100			0.013	
1115			0.009	
1130			0.010	
1145			0.014	
1200			0.015	
1230			0.009	
1245	↓	↓	0.010	

Project: National Grid School Street Dredging  
Project

Date: 1/29/2008

Particulate Monitor: Dust trak

Activity: Dredging/backfilling

Level of Protection: Level D / Modified Level D

Time	Location	Air Reading	Particulate Reading	Comments
1300	downwind	NA	0.017	
1315			0.016	
1330			0.017	
1345			0.015	
1400			0.011	
1415			0.009	
1430			0.008	
1445			0.016	
1500			0.016	
1515			0.018	
1530			0.019	
1545			0.014	
1600			0.014	
1615			0.013	
1630			0.010	
1645			0.009	
1700			0.008	
1715	↓	↓	0.008	

**Community Air Monitoring  
Activities**

1/29/08

Upwind Air Monitoring Results

Project: National Grid School Street Dredging  
Project

Date: 1/29/2008

Particulate Monitor: Dust trak

Activity: Dredging/backfilling

Level of Protection: Level D / Modified Level D

mg/m<sup>3</sup>

Time	Location	Air Reading	Particulate Reading	Comments
0730	upwind	NA	0.009	
0740			0.020	
0755			0.008	
0810			0.010	
0825			0.009	
0840			0.023	
0855			0.021	
0910			0.021	
0925			0.006	
0940			0.008	
0955			0.014	
1010			0.009	
1025			0.011	
1040			0.019	
1055			0.018	
1110			0.006	
1125			0.007	
1140			0.008	
1155			0.008	
1240			0.009	
1255	✓	✓	0.013	

Project: National Grid School Street Dredging  
Project

Date: 1/29/2008

Particulate Monitor: Dust trak

Activity: Dredging/backfilling

Level of Protection: Level D / Modified Level D

Time	Location	Air Reading	Particulate Reading	Comments
1310	upwind	NA	0.005	
1325			0.010	
1340			0.010	
1355			0.013	
1410			0.008	
1425			0.009	
1440			0.003	
1455			0.019	
1510			0.013	
1525			0.012	
1540			0.008	
1555			0.007	
1610			0.022	
1625			0.020	
1640			0.005	
1655			0.007	
1710			0.008	
1725			0.011	

**Community Air Monitoring  
Activities**

1/30/08

Downwind Air Monitoring Results

Project: National Grid School Street Dredging  
Project

Date: 1/30/2008

Particulate Monitor: Dust trak

Activity: Dredging/backfilling

Level of Protection: Level D / Modified Level D

Time	Location	Air Reading	Particulate Reading	Comments
0745	Downwind	NA	0.029	
0800			0.012	
0815			0.006	
0830			0.006	
0845			0.007	
0900			0.009	
0915			0.008	
0930			0.011	
0945			0.014	
1000			0.014	
1015			0.015	
1030			0.014	
1045			0.015	
1110			0.018	
1115			0.011	
1130			0.011	
1145			0.014	
1200			0.015	
1215			0.009	
1230	↓	↓	0.011	

**Community Air Monitoring  
Activities**

1/30/08

Upwind Air Monitoring Results



# ARCADIS

# Air Monitoring Log

Project: National Grid School Street Dredging  
Project

Date: 1/30/2008

Particulate Monitor: Dust trak

Activity: Dredging/backfilling

Level of Protection: Level D / Modified Level D

Time	Location	Air Reading	Particulate Reading	Comments
0740	upwind	NA	0.011	
0755			0.004	
0810			0.004	
0825			0.008	
0840			0.008	
0855			0.006	
0910			0.007	
0925			0.006	
0940			0.008	
0955			0.009	
1010			0.009	
1025			0.013	
1040			0.011	
1055			0.009	
1110			0.005	
1125			0.016	
1140			0.012	
1155			0.010	
1210			0.009	
1225	↓	↓	0.008	

**Community Air Monitoring  
Activities**

1/31/08

Downwind Air Monitoring Results

# Test 005

Instrument		Data Properties	
Model	Dust Trak	Start Date	01/31/2008
Meter S/N	85202344	Start Time	07:21:13
		Stop Date	01/31/2008
		Stop Time	16:36:13
		Total Time	0:09:15:00
		Logging Interval	900 seconds

Statistics	
	<b>Aerosol</b>
Ave	0.009 mg/m <sup>3</sup>
Max	0.012 mg/m <sup>3</sup>
Max Date	01/31/2008
Max Time	11:06:13
Min	0.008 mg/m <sup>3</sup>
Min Date	01/31/2008
Min Time	09:36:13
TWA (8 hr)	0.010
TWA Start Date	01/31/2008
TWA Start Time	07:21:13
TWA End Time	16:36:13

Test Data			
Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	01/31/2008	07:36:13	0.011
2	01/31/2008	07:51:13	0.010
3	01/31/2008	08:06:13	0.010
4	01/31/2008	08:21:13	0.010
5	01/31/2008	08:36:13	0.010
6	01/31/2008	08:51:13	0.009
7	01/31/2008	09:06:13	0.009
8	01/31/2008	09:21:13	0.009
9	01/31/2008	09:36:13	0.008
10	01/31/2008	09:51:13	0.008
11	01/31/2008	10:06:13	0.009
12	01/31/2008	10:21:13	0.008
13	01/31/2008	10:36:13	0.009
14	01/31/2008	10:51:13	0.008
15	01/31/2008	11:06:13	0.012
16	01/31/2008	11:21:13	0.009
17	01/31/2008	11:36:13	0.008
18	01/31/2008	11:51:13	0.008
19	01/31/2008	12:06:13	0.008
20	01/31/2008	12:21:13	0.008
21	01/31/2008	12:36:13	0.008

Test Data			
Sample	Date	Time	Aerosol mg/m <sup>3</sup>
22	01/31/2008	12:51:13	0.008
23	01/31/2008	13:06:13	0.009
24	01/31/2008	13:21:13	0.009
25	01/31/2008	13:36:13	0.009
26	01/31/2008	13:51:13	0.008
27	01/31/2008	14:06:13	0.009
28	01/31/2008	14:21:13	0.009
29	01/31/2008	14:36:13	0.009
30	01/31/2008	14:51:13	0.009
31	01/31/2008	15:06:13	0.009
32	01/31/2008	15:21:13	0.009
33	01/31/2008	15:36:13	0.009
34	01/31/2008	15:51:13	0.009
35	01/31/2008	16:06:13	0.009
36	01/31/2008	16:21:13	0.009
37	01/31/2008	16:36:13	0.010

**Community Air Monitoring  
Activities**

1/31/08

Upwind Air Monitoring Results

# Test 005

Instrument		Data Properties	
Model	Dust Trak	Start Date	01/31/2008
Meter S/N	85200433	Start Time	07:24:58
		Stop Date	01/31/2008
		Stop Time	14:09:58
		Total Time	0:06:45:00
		Logging Interval	900 seconds

Statistics	
	Aerosol
Ave	0.016 mg/m <sup>3</sup>
Max	0.021 mg/m <sup>3</sup>
Max Date	01/31/2008
Max Time	09:54:58
Min	0.013 mg/m <sup>3</sup>
Min Date	01/31/2008
Min Time	11:54:58
TWA (8 hr)	0.013
TWA Start Date	01/31/2008
TWA Start Time	07:24:58
TWA End Time	14:09:58

Test Data			
Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	01/31/2008	07:39:58	0.019
2	01/31/2008	07:54:58	0.018
3	01/31/2008	08:09:58	0.019
4	01/31/2008	08:24:58	0.018
5	01/31/2008	08:39:58	0.017
6	01/31/2008	08:54:58	0.017
7	01/31/2008	09:09:58	0.016
8	01/31/2008	09:24:58	0.017
9	01/31/2008	09:39:58	0.016
10	01/31/2008	09:54:58	0.021
11	01/31/2008	10:09:58	0.018
12	01/31/2008	10:24:58	0.018
13	01/31/2008	10:39:58	0.016
14	01/31/2008	10:54:58	0.016
15	01/31/2008	11:09:58	0.015
16	01/31/2008	11:24:58	0.014
17	01/31/2008	11:39:58	0.014
18	01/31/2008	11:54:58	0.013
19	01/31/2008	12:09:58	0.014
20	01/31/2008	12:24:58	0.014
21	01/31/2008	12:39:58	0.013

Test Data			
Sample	Date	Time	Aerosol mg/m <sup>3</sup>
22	01/31/2008	12:54:58	0.013
23	01/31/2008	13:09:58	0.013
24	01/31/2008	13:24:58	0.013
25	01/31/2008	13:39:58	0.017
26	01/31/2008	13:54:58	0.014
27	01/31/2008	14:09:58	0.014

**Community Air Monitoring  
Activities**

2/01/08

Downwind Air Monitoring Results



# Test 006

Instrument		Data Properties	
Model	Dust Trak	Start Date	02/01/2008
Meter S/N	85202344	Start Time	07:29:00
		Stop Date	02/01/2008
		Stop Time	13:59:00
		Total Time	0:06:30:00
		Logging Interval	900 seconds

Statistics	
	Aerosol
Ave	0.027 mg/m <sup>3</sup>
Max	0.035 mg/m <sup>3</sup>
Max Date	02/01/2008
Max Time	09:59:00
Min	0.020 mg/m <sup>3</sup>
Min Date	02/01/2008
Min Time	12:29:00
TWA (8 hr)	0.022
TWA Start Date	02/01/2008
TWA Start Time	07:29:00
TWA End Time	13:59:00

Test Data			
Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	02/01/2008	07:44:00	0.027
2	02/01/2008	07:59:00	0.029
3	02/01/2008	08:14:00	0.029
4	02/01/2008	08:29:00	0.029
5	02/01/2008	08:44:00	0.027
6	02/01/2008	08:59:00	0.032
7	02/01/2008	09:14:00	0.029
8	02/01/2008	09:29:00	0.030
9	02/01/2008	09:44:00	0.030
10	02/01/2008	09:59:00	0.035
11	02/01/2008	10:14:00	0.029
12	02/01/2008	10:29:00	0.027
13	02/01/2008	10:44:00	0.028
14	02/01/2008	10:59:00	0.030
15	02/01/2008	11:14:00	0.031
16	02/01/2008	11:29:00	0.028
17	02/01/2008	11:44:00	0.028
18	02/01/2008	11:59:00	0.027
19	02/01/2008	12:14:00	0.022
20	02/01/2008	12:29:00	0.020
21	02/01/2008	12:44:00	0.020

Test Data			
Sample	Date	Time	Aerosol mg/m^3
22	02/01/2008	12:59:00	0.022
23	02/01/2008	13:14:00	0.025
24	02/01/2008	13:29:00	0.027
25	02/01/2008	13:44:00	0.023
26	02/01/2008	13:59:00	0.022

**Community Air Monitoring  
Activities**

2/01/08

Upwind Air Monitoring Results

# Test 006

Instrument		Data Properties	
Model	Dust Trak	Start Date	02/01/2008
Meter S/N	85200433	Start Time	07:23:16
		Stop Date	02/01/2008
		Stop Time	14:08:16
		Total Time	0:06:45:00
		Logging Interval	900 seconds

Statistics	
	<b>Aerosol</b>
Ave	0.036 mg/m <sup>3</sup>
Max	0.049 mg/m <sup>3</sup>
Max Date	02/01/2008
Max Time	10:08:16
Min	0.029 mg/m <sup>3</sup>
Min Date	02/01/2008
Min Time	12:23:16
TWA (8 hr)	0.031
TWA Start Date	02/01/2008
TWA Start Time	07:23:16
TWA End Time	14:08:16

Test Data			
Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	02/01/2008	07:38:16	0.034
2	02/01/2008	07:53:16	0.035
3	02/01/2008	08:08:16	0.036
4	02/01/2008	08:23:16	0.037
5	02/01/2008	08:38:16	0.040
6	02/01/2008	08:53:16	0.034
7	02/01/2008	09:08:16	0.038
8	02/01/2008	09:23:16	0.041
9	02/01/2008	09:38:16	0.046
10	02/01/2008	09:53:16	0.040
11	02/01/2008	10:08:16	0.049
12	02/01/2008	10:23:16	0.037
13	02/01/2008	10:38:16	0.036
14	02/01/2008	10:53:16	0.036
15	02/01/2008	11:08:16	0.040
16	02/01/2008	11:23:16	0.038
17	02/01/2008	11:38:16	0.036
18	02/01/2008	11:53:16	0.037
19	02/01/2008	12:08:16	0.034
20	02/01/2008	12:23:16	0.029
21	02/01/2008	12:38:16	0.030

Test Data			
Sample	Date	Time	Aerosol mg/m <sup>3</sup>
22	02/01/2008	12:53:16	0.029
23	02/01/2008	13:08:16	0.034
24	02/01/2008	13:23:16	0.035
25	02/01/2008	13:38:16	0.037
26	02/01/2008	13:53:16	0.034
27	02/01/2008	14:08:16	0.029

**Community Air Monitoring  
Activities**

2/04/08

Downwind Air Monitoring Results

# Test 007

Instrument		Data Properties	
Model	Dust Trak	Start Date	02/04/2008
Meter S/N	85202344	Start Time	08:04:18
		Stop Date	02/04/2008
		Stop Time	14:19:18
		Total Time	0:06:15:00
		Logging Interval	900 seconds

Statistics	
	Aerosol
Ave	0.050 mg/m <sup>3</sup>
Max	0.083 mg/m <sup>3</sup>
Max Date	02/04/2008
Max Time	09:19:18
Min	0.031 mg/m <sup>3</sup>
Min Date	02/04/2008
Min Time	12:49:18
TWA (8 hr)	0.039
TWA Start Date	02/04/2008
TWA Start Time	08:04:18
TWA End Time	14:19:18

Test Data			
Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	02/04/2008	08:19:18	0.071
2	02/04/2008	08:34:18	0.068
3	02/04/2008	08:49:18	0.069
4	02/04/2008	09:04:18	0.080
5	02/04/2008	09:19:18	0.083
6	02/04/2008	09:34:18	0.082
7	02/04/2008	09:49:18	0.077
8	02/04/2008	10:04:18	0.073
9	02/04/2008	10:19:18	0.053
10	02/04/2008	10:34:18	0.050
11	02/04/2008	10:49:18	0.053
12	02/04/2008	11:04:18	0.051
13	02/04/2008	11:19:18	0.039
14	02/04/2008	11:34:18	0.036
15	02/04/2008	11:49:18	0.034
16	02/04/2008	12:04:18	0.035
17	02/04/2008	12:19:18	0.034
18	02/04/2008	12:34:18	0.032
19	02/04/2008	12:49:18	0.031
20	02/04/2008	13:04:18	0.032
21	02/04/2008	13:19:18	0.031

Test Data			
Sample	Date	Time	Aerosol mg/m^3
22	02/04/2008	13:34:18	0.032
23	02/04/2008	13:49:18	0.033
24	02/04/2008	14:04:18	0.040
25	02/04/2008	14:19:18	0.035



**Community Air Monitoring  
Activities**

2/04/08

Upwind Air Monitoring Results

# Test 007

Instrument		Data Properties	
Model	Dust Trak	Start Date	02/04/2008
Meter S/N	85200433	Start Time	08:08:02
		Stop Date	02/04/2008
		Stop Time	17:38:02
		Total Time	0:09:30:00
		Logging Interval	900 seconds

Statistics	
	<b>Aerosol</b>
Ave	0.060 mg/m <sup>3</sup>
Max	0.105 mg/m <sup>3</sup>
Max Date	02/04/2008
Max Time	09:23:02
Min	0.041 mg/m <sup>3</sup>
Min Date	02/04/2008
Min Time	12:38:02
TWA (8 hr)	0.071
TWA Start Date	02/04/2008
TWA Start Time	08:08:02
TWA End Time	17:38:02

Test Data			
Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	02/04/2008	08:23:02	0.092
2	02/04/2008	08:38:02	0.090
3	02/04/2008	08:53:02	0.092
4	02/04/2008	09:08:02	0.097
5	02/04/2008	09:23:02	0.105
6	02/04/2008	09:38:02	0.102
7	02/04/2008	09:53:02	0.097
8	02/04/2008	10:08:02	0.091
9	02/04/2008	10:23:02	0.066
10	02/04/2008	10:38:02	0.061
11	02/04/2008	10:53:02	0.065
12	02/04/2008	11:08:02	0.058
13	02/04/2008	11:23:02	0.052
14	02/04/2008	11:38:02	0.049
15	02/04/2008	11:53:02	0.048
16	02/04/2008	12:08:02	0.047
17	02/04/2008	12:23:02	0.043
18	02/04/2008	12:38:02	0.041
19	02/04/2008	12:53:02	0.041
20	02/04/2008	13:08:02	0.041
21	02/04/2008	13:23:02	0.041

Test Data			
Sample	Date	Time	Aerosol mg/m <sup>3</sup>
22	02/04/2008	13:38:02	0.042
23	02/04/2008	13:53:02	0.042
24	02/04/2008	14:08:02	0.042
25	02/04/2008	14:23:02	0.045
26	02/04/2008	14:38:02	0.046
27	02/04/2008	14:53:02	0.049
28	02/04/2008	15:08:02	0.049
29	02/04/2008	15:23:02	0.052
30	02/04/2008	15:38:02	0.053
31	02/04/2008	15:53:02	0.054
32	02/04/2008	16:08:02	0.053
33	02/04/2008	16:23:02	0.054
34	02/04/2008	16:38:02	0.051
35	02/04/2008	16:53:02	0.052
36	02/04/2008	17:08:02	0.054
37	02/04/2008	17:23:02	0.058
38	02/04/2008	17:38:02	0.066

**Community Air Monitoring  
Activities**

2/05/08

Downwind Air Monitoring Results

# Test 008

Instrument		Data Properties	
Model	Dust Trak	Start Date	02/05/2008
Meter S/N	85202344	Start Time	07:28:21
		Stop Date	02/05/2008
		Stop Time	09:28:21
		Total Time	0:02:00:00
		Logging Interval	900 seconds

Statistics	
	<b>Aerosol</b>
Ave	0.044 mg/m <sup>3</sup>
Max	0.050 mg/m <sup>3</sup>
Max Date	02/05/2008
Max Time	09:13:21
Min	0.035 mg/m <sup>3</sup>
Min Date	02/05/2008
Min Time	08:28:21
TWA (8 hr)	0.011
TWA Start Date	02/05/2008
TWA Start Time	07:28:21
TWA End Time	09:28:21

Test Data			
Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	02/05/2008	07:43:21	0.044
2	02/05/2008	07:58:21	0.045
3	02/05/2008	08:13:21	0.044
4	02/05/2008	08:28:21	0.035
5	02/05/2008	08:43:21	0.039
6	02/05/2008	08:58:21	0.045
7	02/05/2008	09:13:21	0.050
8	02/05/2008	09:28:21	0.049

**Community Air Monitoring  
Activities**

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Upwind Air Monitoring Results

# Test 008

Instrument		Data Properties	
Model	Dust Trak	Start Date	02/05/2008
Meter S/N	85200433	Start Time	07:31:28
		Stop Date	02/05/2008
		Stop Time	09:46:28
		Total Time	0:02:15:00
		Logging Interval	900 seconds

Statistics	
	<b>Aerosol</b>
Ave	0.058 mg/m <sup>3</sup>
Max	0.078 mg/m <sup>3</sup>
Max Date	02/05/2008
Max Time	09:46:28
Min	0.044 mg/m <sup>3</sup>
Min Date	02/05/2008
Min Time	08:31:28
TWA (8 hr)	0.016
TWA Start Date	02/05/2008
TWA Start Time	07:31:28
TWA End Time	09:46:28

Test Data			
Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	02/05/2008	07:46:28	0.059
2	02/05/2008	08:01:28	0.053
3	02/05/2008	08:16:28	0.054
4	02/05/2008	08:31:28	0.044
5	02/05/2008	08:46:28	0.048
6	02/05/2008	09:01:28	0.057
7	02/05/2008	09:16:28	0.062
8	02/05/2008	09:31:28	0.063
9	02/05/2008	09:46:28	0.078

**Community Air Monitoring  
Activities**

2/08/08

Downwind Air Monitoring Results



# Test 009

Instrument		Data Properties	
Model	Dust Trak	Start Date	02/08/2008
Meter S/N	85202344	Start Time	07:35:55
		Stop Date	02/08/2008
		Stop Time	14:35:55
		Total Time	0:07:00:00
		Logging Interval	900 seconds

Statistics	
	Aerosol
Ave	0.018 mg/m <sup>3</sup>
Max	0.028 mg/m <sup>3</sup>
Max Date	02/08/2008
Max Time	10:05:55
Min	0.008 mg/m <sup>3</sup>
Min Date	02/08/2008
Min Time	12:05:55
TWA (8 hr)	0.015
TWA Start Date	02/08/2008
TWA Start Time	07:35:55
TWA End Time	14:35:55

Test Data			
Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	02/08/2008	07:50:55	0.027
2	02/08/2008	08:05:55	0.024
3	02/08/2008	08:20:55	0.023
4	02/08/2008	08:35:55	0.023
5	02/08/2008	08:50:55	0.024
6	02/08/2008	09:05:55	0.024
7	02/08/2008	09:20:55	0.025
8	02/08/2008	09:35:55	0.026
9	02/08/2008	09:50:55	0.027
10	02/08/2008	10:05:55	0.028
11	02/08/2008	10:20:55	0.024
12	02/08/2008	10:35:55	0.024
13	02/08/2008	10:50:55	0.023
14	02/08/2008	11:05:55	0.021
15	02/08/2008	11:20:55	0.016
16	02/08/2008	11:35:55	0.015
17	02/08/2008	11:50:55	0.010
18	02/08/2008	12:05:55	0.008
19	02/08/2008	12:20:55	0.009
20	02/08/2008	12:35:55	0.009
21	02/08/2008	12:50:55	0.010

Test Data			
Sample	Date	Time	Aerosol mg/m <sup>3</sup>
22	02/08/2008	13:05:55	0.010
23	02/08/2008	13:20:55	0.010
24	02/08/2008	13:35:55	0.010
25	02/08/2008	13:50:55	0.010
26	02/08/2008	14:05:55	0.010
27	02/08/2008	14:20:55	0.011
28	02/08/2008	14:35:55	0.011

**Community Air Monitoring  
Activities**

2/08/08

Upwind Air Monitoring Results

# Test 009

Instrument		Data Properties	
Model	Dust Trak	Start Date	02/08/2008
Meter S/N	85200433	Start Time	07:45:31
		Stop Date	02/08/2008
		Stop Time	14:30:31
		Total Time	0:06:45:00
		Logging Interval	900 seconds

Statistics	
	Aerosol
Ave	0.024 mg/m <sup>3</sup>
Max	0.035 mg/m <sup>3</sup>
Max Date	02/08/2008
Max Time	10:00:31
Min	0.014 mg/m <sup>3</sup>
Min Date	02/08/2008
Min Time	12:00:31
TWA (8 hr)	0.020
TWA Start Date	02/08/2008
TWA Start Time	07:45:31
TWA End Time	14:30:31

Test Data			
Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	02/08/2008	08:00:31	0.032
2	02/08/2008	08:15:31	0.033
3	02/08/2008	08:30:31	0.030
4	02/08/2008	08:45:31	0.030
5	02/08/2008	09:00:31	0.030
6	02/08/2008	09:15:31	0.032
7	02/08/2008	09:30:31	0.032
8	02/08/2008	09:45:31	0.033
9	02/08/2008	10:00:31	0.035
10	02/08/2008	10:15:31	0.035
11	02/08/2008	10:30:31	0.031
12	02/08/2008	10:45:31	0.034
13	02/08/2008	11:00:31	0.031
14	02/08/2008	11:15:31	0.028
15	02/08/2008	11:30:31	0.022
16	02/08/2008	11:45:31	0.020
17	02/08/2008	12:00:31	0.014
18	02/08/2008	12:15:31	0.014
19	02/08/2008	12:30:31	0.015
20	02/08/2008	12:45:31	0.014
21	02/08/2008	13:00:31	0.014

Test Data			
Sample	Date	Time	Aerosol mg/m <sup>3</sup>
22	02/08/2008	13:15:31	0.015
23	02/08/2008	13:30:31	0.014
24	02/08/2008	13:45:31	0.015
25	02/08/2008	14:00:31	0.015
26	02/08/2008	14:15:31	0.016
27	02/08/2008	14:30:31	0.015

## **Appendix G**

Bills of Lading and Weigh Ticket  
Summaries

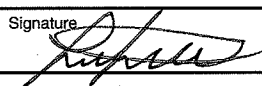
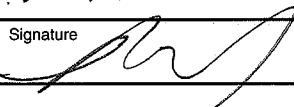
ARCADIS

**Sediment Disposal**

Bills of Lading

# NON-HAZARDOUS WASTE BILL OF LADING

Please print or type (Form designed for use on elite (12 pitch) typewriter)

<b>NON-HAZARDOUS WASTE BILL OF LADING</b>		1. Generator's US EPA ID No. <div style="text-align: center;">N/A</div>		Bill of Lading Document No. <b>36643.09.01</b>	2. Page 1 of 1
3. Generator's Name and Mailing Address <b>NIAGARA MOHAWK POWER CORPORATION</b> 300 Erie Blvd. West Environmental Syracuse, NY 13202 ATTN: <b>JAMES MORGAN</b>				SITE ADDRESS: <b>SCHOOL STREET HYDROELECTRIC STATION COLONIE, NY 12205</b>	
4. Generator's Phone (315) 428-3101		6. US EPA ID Number <b>NYR000097972</b>		A. Transporter 1 Phone <b>518-477-8940</b>	
5. Transporter 1 Company Name <b>MANGIARDI BROTHERS TRUCKING INC.</b>		8. US EPA ID Number		B. State Transporter's ID <b>4A-209</b>	
7. Transporter 2 Company Name		10. US EPA ID Number <div style="text-align: center;">N/A</div>		C. Transporter 2 Phone	
9. Designated Facility Name and Site Address <b>SENECA MEADOWS, INC. 1788 SALCMAN ROAD WATERLOO, NY 13165</b>				D. State Facility's ID <b>50S08</b>	
				E. Facility's Phone <b>315-539-5624</b>	
11. WASTE DESCRIPTION			12. Containers	13. Total Quantity	14. Unit Wt./Vol.
a. <b>RIVER SEDIMENT WITH LOW LEVEL PCBs NON-HAZARDOUS N-012</b>			No. <b>1</b>	Type <b>DT</b>	<b>Est. 30 onsite. TONS</b>
b.					
c.					
d.					
F. Additional Descriptions for Materials Listed Above			G. Handling Codes for Wastes Listed Above <div style="text-align: center;">L</div>		
15. Special Handling Instructions and Additional Information <b>EMERGENCY CONTACT NUMBER 1-800-424-9300 CHEMTREC PROFILE# VG4065 LOAD# 01</b>					
<div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: 80%;"> 16. Generator's Certification: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this Bill of Lading are not subject to federal hazardous waste regulations. </div>					
Printed/Typed Name <b>Lucas Jeffs (Agent for National Grid)</b>			Signature 		Date Month <b>01</b> Day <b>31</b> Year <b>08</b>
17. Transporter 1 Acknowledgement of Receipt of Materials			Signature 		Date Month <b>1</b> Day <b>31</b> Year <b>08</b>
18. Transporter 2 Acknowledgement of Receipt of Materials			Signature		Date
Printed/Typed Name			Signature		Month Day Year
19. Discrepancy Indication Space					
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this Bill of Lading, except as noted in item 19.					
Printed/Typed Name			Signature		Date Month Day Year

RCRA NON-HAZARDOUS WASTE

GENERATOR

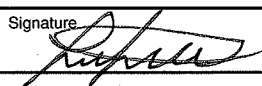
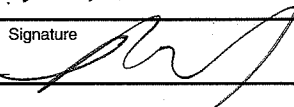
TRANSPORTER

FACILITY



# NON-HAZARDOUS WASTE BILL OF LADING

Please print or type (Form designed for use on elite (12 pitch) typewriter)

<b>NON-HAZARDOUS WASTE BILL OF LADING</b>		1. Generator's US EPA ID No. <span style="float: right;">N/A</span>		Bill of Lading Document No. <b>36643.09.01</b>		2. Page 1 of 1			
3. Generator's Name and Mailing Address <b>NIAGARA MOHAWK POWER CORPORATION</b> 300 Erie Blvd. West Environmental Syracuse, NY 13202 4. Generator's Phone (315) 428-3101 ATTN: JAMES MORGAN				SITE ADDRESS: SCHOOL STREET HYDROELECTRIC STATION COLONIE, NY 12205					
5. Transporter 1 Company Name <b>MANGIARDI BROTHERS TRUCKING INC.</b>		6. US EPA ID Number <b>NYR000097972</b>		A. Transporter 1 Phone <b>518-477-8940</b>					
7. Transporter 2 Company Name		8. US EPA ID Number		B. State Transporter's ID <b>4A-209</b>					
9. Designated Facility Name and Site Address <b>SENECA MEADOWS, INC.</b> 1788 SALCMAN ROAD WATERLOO, NY 13165		10. US EPA ID Number <span style="float: right;">N/A</span>		C. Transporter 2 Phone					
				D. State Facility's ID <b>50S08</b>					
				E. Facility's Phone <b>315-539-5624</b>					
11. WASTE DESCRIPTION  a. <b>RIVER SEDIMENT WITH LOW LEVEL PCBs NON-HAZARDOUS N-012</b>  b.  c.  d.				12. Containers		13. Total Quantity		14. Unit Wt./Vol.	
				No. Type		Est. 30 onsite		TONS	
F. Additional Descriptions for Materials Listed Above				G. Handling Codes for Wastes Listed Above  <div style="text-align: center;">L</div>					
15. Special Handling Instructions and Additional Information  <b>EMERGENCY CONTACT NUMBER 1-800-424-9300 CHEMTREC</b> <b>PROFILE# VG4065</b> <b>LOAD# 01</b>									
16. Generator's Certification: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this Bill of Lading are not subject to federal hazardous waste regulations.									
Printed/Typed Name <b>Lucas Jeffs (Agent for National Grid)</b>				Signature 		Date Month Day Year <b>01 31 08</b>			
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature 		Date Month Day Year <b>1 31 08</b>			
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Date Month Day Year			
19. Discrepancy Indication Space									
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this Bill of Lading, except as noted in item 19.									
Printed/Typed Name				Signature		Date Month Day Year			

RCRA NON-HAZARDOUS WASTE

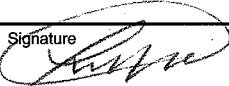
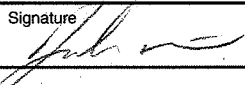
GENERATOR

TRANSPORTER

FACILITY

# NON-HAZARDOUS WASTE BILL OF LADING

Please print or type (Form designed for use on elite (12 pitch) typewriter)

<b>NON-HAZARDOUS WASTE BILL OF LADING</b>		1. Generator's US EPA ID No. <div style="text-align: center;">N/A</div>		Bill of Lading Document No. <div style="text-align: center;">30643.019.02</div>		2. Page 1 of 1			
3. Generator's Name and Mailing Address <b>NIAGARA MOHAWK POWER CORPORATION</b> 300 Erie Blvd. West Environmental Syracuse, NY 13202 ATTN: JAMES MORGAN				A NATIONAL GRID COMPANY					
4. Generator's Phone (315) 428-3101				SITE ADDRESS: SCHOOL STREET HYDROELECTRIC STATION COLONIE, NY 12205					
5. Transporter 1 Company Name MANGIARDI BROTHERS TRUCKING INC.		6. US EPA ID Number NYR000097972		A. Transporter 1 Phone 518-477-8940					
7. Transporter 2 Company Name		8. US EPA ID Number		B. State Transporter's ID 4A-209					
				C. Transporter 2 Phone					
9. Designated Facility Name and Site Address SENECA MEADOWS, INC. 1788 SALCMAN ROAD WATERLOO, NY 13165		10. US EPA ID Number <div style="text-align: center;">N/A</div>		D. State Facility's ID 50S08					
				E. Facility's Phone 315-539-5624					
11. WASTE DESCRIPTION				12. Containers		13. Total Quantity			
				No. Type		Unit Wt./Vol.			
				a. RIVER SEDIMENT WITH LOW LEVEL PCBS NON-HAZARDOUS N-012		1 DT		Est. 35 onsite TONS	
				b.					
				c.					
d.									
F. Additional Descriptions for Materials Listed Above				G. Handling Codes for Wastes Listed Above <div style="text-align: center;">L</div>					
15. Special Handling Instructions and Additional Information  EMERGENCY CONTACT NUMBER 1-800-424-9300 CHEMTREC PROFILE# VG4065 LOAD# 02									
16. Generator's Certification: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this Bill of Lading are not subject to federal hazardous waste regulations.									
Printed/Typed Name Lucas Jofis (Agent for National Grid)				Signature 		Date 01   31   08			
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature 		Date 01   31   08			
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Date			
Printed/Typed Name									
19. Discrepancy Indication Space									
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this Bill of Lading, except as noted in item 19.									
Printed/Typed Name				Signature		Date			

RCRA NON-HAZARDOUS WASTE

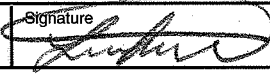
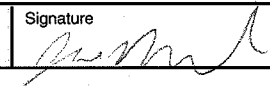
GENERATOR

TRANSPORTER

FACILITY

# NON-HAZARDOUS WASTE BILL OF LADING

Please print or type (Form designed for use on elite (12 pitch) typewriter)

<b>NON-HAZARDOUS WASTE BILL OF LADING</b>		1. Generator's US EPA ID No. <div style="text-align: center;">N/A</div>		Bill of Lading Document No. <b>36643.019.03</b>	2. Page 1 of 1
3. Generator's Name and Mailing Address <b>NIAGARA MOHAWK POWER CORPORATION 300 Erie Blvd. West Environmental Syracuse, NY 13202</b>				SITE ADDRESS: <b>SCHOOL STREET HYDROELECTRIC STATION COLONIE, NY 12205</b>	
4. Generator's Phone (XXX) 315-428-3101 <b>JAMES MORGAN</b> ATTN:					
5. Transporter 1 Company Name <b>MANGIARDI BROTHERS TRUCKING INC.</b>		6. US EPA ID Number <b>NYR000097972</b>		A. Transporter 1 Phone <b>518-477-8940</b>	
7. Transporter 2 Company Name		8. US EPA ID Number		B. State Transporter's ID <b>4A-209</b>	
				C. Transporter 2 Phone	
9. Designated Facility Name and Site Address <b>SENECA MEADOWS, INC. 1788 SALCMAN ROAD WATERLOO, NY 13165</b>		10. US EPA ID Number <div style="text-align: center;">N/A</div>		D. State Facility's ID <b>50S08</b>	
				E. Facility's Phone <b>315-539-5624</b>	
11. WASTE DESCRIPTION			12. Containers	13. Total Quantity	14. Unit Wt./Vol.
a. <b>RIVER SEDIMENT WITH LOW LEVEL PCBs NON-HAZARDOUS N-012</b>			No. <b>1</b>	Type <b>DT</b>	<b>Est 35 on site TONS</b>
b.					
c.					
d.					
F. Additional Descriptions for Materials Listed Above			G. Handling Codes for Wastes Listed Above <div style="text-align: center;">L</div>		
15. Special Handling Instructions and Additional Information  <b>EMERGENCY CONTACT NUMBER 1-800-424-9300 CHEMTREC PROFILE# VG4065 LOAD# 03</b>					
16. Generator's Certification: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this Bill of Lading are not subject to federal hazardous waste regulations.					
Printed/Typed Name <b>Lucas Jeffs (Agent for National Grid)</b>			Signature 		Date Month <b>02</b> Day <b>07</b> Year <b>08</b>
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name <b>Joe Mangiardi</b>			Signature 		Date Month <b>2</b> Day <b>7</b> Year <b>08</b>
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name			Signature		Date Month Day Year
19. Discrepancy Indication Space					
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this Bill of Lading, except as noted in item 19.					
Printed/Typed Name			Signature		Date Month Day Year

RCRA NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

# NON-HAZARDOUS WASTE BILL OF LADING

Please print or type (Form designed for use on elite (12 pitch) typewriter)

<b>NON-HAZARDOUS WASTE BILL OF LADING</b>		1. Generator's US EPA ID No. <span style="float: right;">N/A</span>		Bill of Lading Document No. <span style="float: right;">3643.019.04</span>		2. Page 1 of 1	
3. Generator's Name and Mailing Address <b>NIAGARA MOHAWK POWER CORPORATION</b> 300 Erie Blvd. West Environmental Syracuse, NY 13202 ATTN: JAMES MORGAN				A NATIONAL GRID COMPANY			
4. Generator's Phone (315) 428-3101				SITE ADDRESS: SCHOOL STREET HYDROELECTRIC STATION COLONIE, NY 12205			
5. Transporter 1 Company Name <b>MANGIARDI BROTHERS TRUCKING INC.</b>		6. US EPA ID Number NYR0000097972		A. Transporter 1 Phone 518-477-8940			
7. Transporter 2 Company Name		8. US EPA ID Number		B. State Transporter's ID 4A-209			
9. Designated Facility Name and Site Address SENECA MEADOWS, INC. 1788 SALCMAN ROAD WATERLOO, NY 13165		10. US EPA ID Number N/A		C. Transporter 2 Phone			
11. WASTE DESCRIPTION				12. Containers		13. Total Quantity	
				No. Type		Unit	
				No. Type		WT./Vol.	
a. RIVER SEDIMENT WITH LOW LEVEL PCBs non-hazardous N-012				1		DT	
b.							
c.							
d.							
F. Additional Descriptions for Materials Listed Above				G. Handling Codes for Wastes Listed Above  L			
15. Special Handling Instructions and Additional Information  EMERGENCY CONTACT NUMBER 1-800-424-9300 CHEMTREC PROFILE# VG4065 LOAD# 04							
16. Generator's Certification: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this Bill of Lading are not subject to federal hazardous waste regulations.							
Printed/Typed Name Lucas Jeffs (Agent for National Grid)				Signature <i>[Signature]</i>		Date 02/07/08	
17. Transporter 1 Acknowledgement of Receipt of Materials				Date			
Printed/Typed Name Tom Viola				Signature <i>[Signature]</i>		Date 2/7/08	
18. Transporter 2 Acknowledgement of Receipt of Materials				Date			
Printed/Typed Name				Signature		Date Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this Bill of Lading, except as noted in item 19.							
Printed/Typed Name				Signature		Date Month Day Year	

RCRA NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

# NON-HAZARDOUS WASTE BILL OF LADING

Please print or type (Form designed for use on elite (12 pitch) typewriter)

<b>NON-HAZARDOUS WASTE BILL OF LADING</b>		1. Generator's US EPA ID No. N/A		Bill of Lading Document No. 36643.019.05		2. Page 1 of 1	
3. Generator's Name and Mailing Address NIAGARA MOHAWK POWER CORPORATION 300 Erie Blvd. West Environmental Syracuse, NY 13202 ATTN: JAMES MORGAN				SITE ADDRESS: SCHOOL STREET HYDROELECTRIC STATION COLONIE, NY 12205			
4. Generator's Phone ( 315-428-3101				A. Transporter 1 Phone 518-477-8940			
5. Transporter 1 Company Name MANGIARDI BROTHERS TRUCKING INC.		6. US EPA ID Number NYR000097972		B. State Transporter's ID 4A-209		C. Transporter 2 Phone	
7. Transporter 2 Company Name		8. US EPA ID Number		D. State Facility's ID 50S08		E. Facility's Phone 315-539-5624	
9. Designated Facility Name and Site Address SENECA MEADOWS, INC. 1788 SALCMAN ROAD WATERLOO, NY 13165				10. US EPA ID Number N/A			
11. WASTE DESCRIPTION				12. Containers		13. Total Quantity	
a. RIVER SEDIMENT WITH LOW LEVEL PCBs NON-HAZARDOUS N-012				No. 1 Type DT		Est 36 onsite	
b.						TONS	
c.							
d.							
F. Additional Descriptions for Materials Listed Above				G. Handling Codes for Wastes Listed Above  L			
15. Special Handling Instructions and Additional Information EMERGENCY CONTACT NUMBER 1-800-424-9300 CHEMTREC PROFILE# VG4065 LOAD# 05							
16. Generator's Certification: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this Bill of Lading are not subject to federal hazardous waste regulations.							
Printed/Typed Name Lucas Jettis (Agent for National Grid)				Signature <i>[Signature]</i>		Date Month 02 Day 07 Year 08	
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature <i>[Signature]</i>		Date Month 02 Day 07 Year 08	
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Date	
Printed/Typed Name				Signature		Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this Bill of Lading, except as noted in item 19.							
Printed/Typed Name				Signature		Date Month Day Year	

RCRA NON-HAZARDOUS WASTE


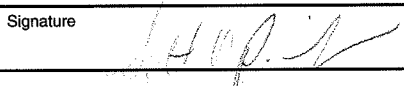
GENERATOR

TRANSPORTER

FACILITY

# NON-HAZARDOUS WASTE BILL OF LADING

Please print or type (Form designed for use on elite (12 pitch) typewriter)

<b>NON-HAZARDOUS WASTE BILL OF LADING</b>		1. Generator's US EPA ID No. <div style="text-align: center;">N/A</div>		Bill of Lading Document No. <div style="text-align: center;">36643.0A.06</div>		2. Page 1 of 1	
3. Generator's Name and Mailing Address <b>NIAGARA MOHAWK POWER CORPORATION</b> 300 Erie Blvd. West Environmental Syracuse, NY 13202 ATTN:				A NATIONAL GRID COMPANY			
4. Generator's Phone ( 315 428-3101 )				JAMES MORGAN			
5. Transporter 1 Company Name MANGIARDI BROTHERS TRUCKING, INC.				6. US EPA ID Number NYR000097972			
7. Transporter 2 Company Name				8. US EPA ID Number			
9. Designated Facility Name and Site Address SENECA MEADOWS, INC. 1788 SALCMAN ROAD WATERLOO, NY 13165				10. US EPA ID Number <div style="text-align: center;">N/A</div>			
				SITE ADDRESS: SCHOOL STREET HYDROELECTRIC STATION COLONIE, NY 12205			
				A. Transporter 1 Phone 518-477-8940			
				B. State Transporter's ID 4A-209			
				C. Transporter 2 Phone			
				D. State Facility's ID 50S08			
				E. Facility's Phone 315-539-5624			
11. WASTE DESCRIPTION				12. Containers		13. Total Quantity	
				No. Type		Unit Wt./Vol.	
a. RIVER SEDIMENT WITH LOW LEVEL PCBs NON-HAZARDOUS N-012				1 DT		Est 34 onsite TONS	
b.							
c.							
d.							
F. Additional Descriptions for Materials Listed Above				G. Handling Codes for Wastes Listed Above <div style="text-align: center;">L</div>			
15. Special Handling Instructions and Additional Information EMERGENCY CONTACT NUMBER 1-800-424-9300 CHEMTREC PROFILE# VG4065 LOAD# 06							
16. Generator's Certification: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this Bill of Lading are not subject to federal hazardous waste regulations.							
Printed/Typed Name Lucas Jeffis Agent for National Grid				Signature 		Date Month Day Year 02 07 08	
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature 		Date Month Day Year 02 07 08	
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Date Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this Bill of Lading, except as noted in item 19.				Signature		Date Month Day Year	
Printed/Typed Name				Signature		Date Month Day Year	

RCRA NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

# NON-HAZARDOUS WASTE BILL OF LADING

Please print or type (Form designed for use on elite (12 pitch) typewriter)

<b>NON-HAZARDOUS WASTE BILL OF LADING</b>		1. Generator's US EPA ID No. N/A		Bill of Lading Document No. 36643.019.07		2. Page 1 of 1			
3. Generator's Name and Mailing Address <b>NIAGARA MOHAWK POWER CORPORATION</b> 300 Erie Blvd. West Environmental Syracuse, NY 13202 ATTN:				SITE ADDRESS:					
				SCHOOL STREET HYDROELECTRIC STATION					
4. Generator's Phone (315) 428-3101 JAMES MORGAN				COLONIE, NY 12205					
5. Transporter 1 Company Name MANGIARDI BROTHERS TRUCKING, INC.		6. US EPA ID Number NYR000097972		A. Transporter 1 Phone 518-477-8940					
7. Transporter 2 Company Name		8. US EPA ID Number		B. State Transporter's ID 4A-209					
				C. Transporter 2 Phone					
9. Designated Facility Name and Site Address SENECA MEADOWS, INC. 1788 SALCMAN ROAD WATERLOO, NY 13165		10. US EPA ID Number N/A		D. State Facility's ID 50S08					
				E. Facility's Phone 315-539-5624					
11. WASTE DESCRIPTION				12. Containers		13. Total Quantity			
				No. Type		Unit Wt./Vol.			
				a. RIVER SEDIMENT WITH LOW LEVEL PCBs NON-HAZARDOUS N-012		1 DT		Est. 35 on site TONS	
				b.					
				c.					
d.									
F. Additional Descriptions for Materials Listed Above				G. Handling Codes for Wastes Listed Above  L					
15. Special Handling Instructions and Additional Information EMERGENCY CONTACT NUMBER 1-800-424-9300 CHEMTREC PROFILE# VG4065 LOAD# 07									
16. Generator's Certification: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this Bill of Lading are not subject to federal hazardous waste regulations.									
Printed/Typed Name Lucas Jeffis (Agent for National Grid)				Signature <i>[Signature]</i>		Date 02   08   08			
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature <i>[Signature]</i>		Date 02   08   08			
Printed/Typed Name GREG HOFFMAN				Signature <i>[Signature]</i>		Date 02   08   08			
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Date			
Printed/Typed Name				Signature		Date			
19. Discrepancy Indication Space									
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this Bill of Lading, except as noted in item 19.									
Printed/Typed Name				Signature		Date			

RCRA NON-HAZARDOUS WASTE

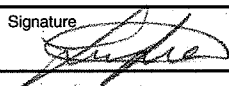
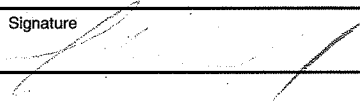
GENERATOR

TRANSPORTER

FACILITY

# NON-HAZARDOUS WASTE BILL OF LADING

Please print or type (Form designed for use on elite (12 pitch) typewriter)

<b>NON-HAZARDOUS WASTE BILL OF LADING</b>		1. Generator's US EPA ID No. <span style="float: right;">N/A</span>		Bill of Lading Document No. <span style="float: right;">36643.019.08</span>	2. Page 1 of 1
3. Generator's Name and Mailing Address <b>NIAGARA MOHAWK POWER CORPORATION</b> 300 Erie Blvd. West Environmental Syracuse, NY 13202 ATTN: JAMES MORGAN				SITE ADDRESS: SCHOOL STREET HYDROELECTRIC STATION COLONIE, NY 12205	
4. Generator's Phone (315) 428-3101		6. US EPA ID Number NYR000097972		A. Transporter 1 Phone 518-477-8940	
5. Transporter 1 Company Name MANGIARDI BROTHERS TRUCKING INC		8. US EPA ID Number		B. State Transporter's ID 4A-209	
7. Transporter 2 Company Name		10. US EPA ID Number N/A		C. Transporter 2 Phone	
9. Designated Facility Name and Site Address SENECA MEADOWS, INC. 1788 SALCMAN ROAD WATERLOO, NY 13165				D. State Facility's ID 50S08	
				E. Facility's Phone 315-539-5624	
11. WASTE DESCRIPTION			12. Containers	13. Total Quantity	14. Unit Wt./Vol.
a. RIVER SEDIMENT WITH LOW LEVEL PCBs NON-HAZARDOUS N-012			No. 1	Type DT	Est 33 onsite TONS
b.					
c.					
d.					
F. Additional Descriptions for Materials Listed Above			G. Handling Codes for Wastes Listed Above  L		
15. Special Handling Instructions and Additional Information  EMERGENCY CONTACT NUMBER 1-800-424-9300 CHEMTREC PROFILE# VG4065 LOAD# 08					
<div style="background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); height: 10px; width: 100%; margin: 10px auto;"></div>					
16. Generator's Certification: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this Bill of Lading are not subject to federal hazardous waste regulations.					
Printed/Typed Name Lucas Jafis (Agent for National Grid)		Signature 		Date Month 02 Day 08 Year 08	
17. Transporter 1 Acknowledgement of Receipt of Materials				Date	
Printed/Typed Name		Signature		Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials				Date	
Printed/Typed Name Nick Hartman		Signature 		Month 2 Day 5 Year 08	
19. Discrepancy Indication Space					
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this Bill of Lading, except as noted in item 19.					
Printed/Typed Name		Signature		Date Month Day Year	

RCRA NON-HAZARDOUS WASTE

GENERATOR

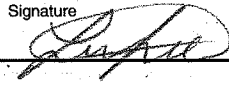
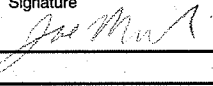
TRANSPORTER

FACILITY



# NON-HAZARDOUS WASTE BILL OF LADING

Please print or type (Form designed for use on elite (12 pitch) typewriter)

<b>NON-HAZARDOUS WASTE BILL OF LADING</b>		1. Generator's US EPA ID No. <div style="text-align: center;">N/A</div>		Bill of Lading Document No. <div style="text-align: center;">36643.019.09</div>		2. Page 1 of 1	
3. Generator's Name and Mailing Address <b>NIAGARA MOHAWK POWER CORPORATION</b> 300 Erie Blvd. West Environmental Syracuse, NY 13202 <b>ATTN:</b>				A NATIONAL GRID COMPANY			
4. Generator's Phone ( 315 428-3101      JAMES MORGAN				A. Transporter 1 Phone    518-477-8940			
5. Transporter 1 Company Name MANGIARDI BROTHERS TRUCKING INC				6. US EPA ID Number NYR000097972			
7. Transporter 2 Company Name				8. US EPA ID Number			
9. Designated Facility Name and Site Address SENECA MEADOWS, INC. 1788 SALCMAN ROAD WATERLOO, NY 13165				10. US EPA ID Number <div style="text-align: center;">N/A</div>			
11. WASTE DESCRIPTION				12. Containers		13. Total Quantity	
				No.		Type	
				14. Unit Wt./Vol.			
a. RIVER SEDIMENT WITH LOW LEVEL PCBs NON-HAZARDOUS N-012				1		DT	
b.							
c.							
d.							
F. Additional Descriptions for Materials Listed Above				G. Handling Codes for Wastes Listed Above <div style="text-align: center;">L</div>			
15. Special Handling Instructions and Additional Information  EMERGENCY CONTACT NUMBER 1-800-424-9300 CHEMTREC PROFILE# VG4065 LOAD# 9							
16. Generator's Certification: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this Bill of Lading are not subject to federal hazardous waste regulations.							
Printed/Typed Name Lucas Jeffs (Agent for National Grid)				Signature 			
17. Transporter 1 Acknowledgement of Receipt of Materials				Date Month Day Year 02 08 08			
Printed/Typed Name Joe Mangiardi				Signature 			
18. Transporter 2 Acknowledgement of Receipt of Materials				Date Month Day Year 2 8 08			
Printed/Typed Name				Signature Month Day Year			
19. Discrepancy Indication Space							
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this Bill of Lading, except as noted in item 19.							
Printed/Typed Name				Signature Month Day Year			

RCRA NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

**Sediment Disposal**

Weigh Ticket Summaries

Seneca Meadows, Inc.

# Customer Activity Report (Site)

Transactions from 01/28/2008 through 02/02/2008

Inbound and Outbound Tickets

Third Party and Intercompany Customers

Recycle and Disposal Waste

Full Details

**RECEIVED**

Customer: 15DAC

Profile: All

Waste: All

Truck: All

FEB - 7 2008

**D.A. COLLINS, CONST.**

Cust Ref#  
(Manifest)

Profile

Truck

Time

Date

Ticket

15DAC

BCS01

1608092

01/31/08

14:17:16

MAN43

2008-014-15DAC

36643 019.02

36.19

0.00

1608094

01/31/08

14:18:35

MAN36

2008-014-15DAC

3664301901

29.84

0.00

BCS01

2 tickets and 2 transactions

66.03

0.00

15DAC

2 tickets and 2 transactions

66.03

0.00

## Report Grand Totals

2 tickets and 2 transactions

66.03

0.00

2007540  
200-3000-04  
SENISS

sRpCst.rpt

Customer: 15DAC  
 Profile: All  
 Waste: All  
 Truck: All

Seneca Meadows, Inc.

**Customer Activity Report (Site)**

Transactions from 02/04/2008 through 02/09/2008

Inbound and Outbound Tickets

Third Party and Intercompany Customers

Recycle and Disposal Waste

Full Details

Page 1 of 1  
 2/11/2008  
 8:42AM

**RECEIVED**

FEB 13 2008

**D.A. COLLINS, CONST.**

Ticket	Date	Time	Truck	Profile	Cust Ref# (Manifest)	
<b>15DAC</b>						
<b>BCS01</b>						
1609715	02/07/08	12:35:39	MAN51	2008-014-15DAC	36643.019.03	37.73
1609718	02/07/08	12:44:41	MAN49	2008-014-15DAC	36643.019.04	37.08
1609758	02/07/08	14:26:52	MAN49	2008-014-15DAC	36643.019.05	40.56
1609945	02/08/08	10:30:20	MAN50	2008-014-15DAC	36643.019.06	35.25
1610010	02/08/08	12:25:29	MAN39	2008-014-15DAC	36643.019.07	32.60
1610037	02/08/08	13:28:47	MAN36	2008-014-15DAC	36643.019.08	30.35
<b>BCS01</b>						213.57
6 tickets and 6 transactions						0.00

**15DAC**

6 tickets and 6 transactions

213.57

0.00

**Report Grand Totals**

6 tickets and 6 transactions

213.57

0.00

2007540.04  
 208.300.04  
 208.300.04

sRpCst.rpt

Seneca Meadows, Inc.

# Customer Activity Report (Site)

Transactions from 02/11/2008 through 02/16/2008

Inbound and Outbound Tickets

Third Party and Intercompany Customers

Recycle and Disposal Waste

Full Details

Page 1 of 1  
2/18/2008  
7:41AM

Customer: 15DAC

Profile: All

Waste: All

Truck: All

Ticket	Date	Time	Truck	Profile	Cust Ref# (Manifest)	
<b>15DAC</b>						
BCS01						
1610323	02/11/08	09:42:04	MAN51	2008-014-15DAC	36645.019.09	
BCS01					31.51	0.00
<i>1 ticket and 1 transaction</i>						<u>0.00</u>
15DAC					31.51	0.00
<i>1 ticket and 1 transaction</i>						<u>0.00</u>
<b>Report Grand Totals</b>						
<i>1 ticket and 1 transaction</i>						<u><u>0.00</u></u>

RECEIVED

FEB 21 2008

D.A. COLLINS, CONST.

ARCADIS

**Wastewater Disposal**

Bills of Lading

# NON-HAZARDOUS WASTE BILL OF LADING

Please print or type (Form designed for use on elite (12 pitch) typewriter)

<b>NON-HAZARDOUS WASTE BILL OF LADING</b>		1. Generator's US EPA ID No.		Bill of Lading Document No. <b>010</b>		2. Page 1 of 1	
3. Generator's Name and Mailing Address <b>NIAGARA MOHAWK POWER CORPORATION, A National Grid Company</b> 300 Erie Blvd. West Environmental Syracuse, NY 13202 ATTN: James Morgan				Site Address: <b>school St. Hydroelectric Station</b> <b>Colonie, NY 12205</b>			
4. Generator's Phone <b>(315) 428-3101</b>							
5. Transporter 1 Company Name <b>United Industrial Services</b>		6. US EPA ID Number <b>CTD04816889</b>		<del>CT-048-State</del>			
7. Transporter 2 Company Name		8. US EPA ID Number		A. Transporter 1 Phone <b>203-238-6175</b>			
				B. State Transporter's ID <b>CT-048</b>			
				C. Transporter 2 Phone			
9. Designated Facility Name and Site Address <b>Norlite</b> <b>628 S. Saratoga St. Cohoes, NY</b>		10. US EPA ID Number <b>NYD08046935</b>		D. State Facility's ID			
				E. Facility's Phone <b>518-235-0401</b>			
11. WASTE DESCRIPTION				12. Containers		13. Total Quantity	
				No.	Type	Unit Wt./Vol.	
a. <b>River Water From Sediment Dewatering</b>				1	<b>Tank Vacuum</b>	<b>est. 3800 gal</b>	
b.							
c.							
d.							
F. Additional Descriptions for Materials Listed Above				G. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information  <b>ReID 3682 gals/30860 lbs</b> <b>sp. 1.005 g/ml</b>							
16. Generator's Certification: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this Bill of Lading are not subject to federal hazardous waste regulations.							
Printed/Typed Name <b>As Agent For Allan Evans National Grid</b>				Signature <b>Allan J. Evans</b>		Date <b>7/18/08</b>	
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature <b>Keith Tilmont</b>		Date <b>7/14/08</b>	
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Date	
Printed/Typed Name				Signature		Date	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this Bill of Lading, except as noted in item 19.				Signature <b>[Signature]</b>		Date <b>07/14/08</b>	
Printed/Typed Name <b>David [Signature]</b>				Signature		Date	

RCRA NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

# NON-HAZARDOUS WASTE BILL OF LADING

(Form designed for use on elite (12 pitch) typewriter)

## NON-HAZARDOUS WASTE BILL OF LADING

1. Generator's US EPA ID No.

N/A

Bill of Lading  
Document No.

011

2. Page 1  
of 1

3. Generator's Name and Mailing Address

NIAGARA MOHAWK POWER CORPORATION

300 Erie Blvd. West Environmental  
Syracuse, NY 13202

ATTN: James Morahan

Site Address: School Street  
Northville, Michigan

48101 NY 13205

4. Generator's Phone (212) 428-3101

5. Transporter 1 Company Name

United Industrial Services

6. US EPA ID Number

CT D021816889

A. Transporter 1 Phone 203-238-6745

7. Transporter 2 Company Name

8. US EPA ID Number

B. State Transporter's ID CT-046

C. Transporter 2 Phone

9. Designated Facility Name and Site Address

Northville

10. US EPA ID Number

625 South Eastern Street  
Cortland, NY 13820

D. State Facility's ID

E. Facility's Phone

616-235-0401

11. WASTE DESCRIPTION

a. River Water From Sediment Dewatering

12. Containers

No.

Type

13. Total  
Quantity

14. Unit  
Vol.

1

Tank

848

gal

F. Additional Descriptions for Materials Listed Above

G. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

RED 848 gals / 7140 lbs sp. 1.009 g/cm

16. Generator's Certification: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this Bill of Lading are not subject to federal hazardous waste regulations.

Printed/Typed Name

As Agent For Niagara  
Allan Evans

Signature

Allan Evans

Date

Month Day Year  
4/14/98

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

KEITH A. TILMONT

Signature

Keith A. Tilmont

Date

Month Day Year  
4/14/98

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator, Certification of receipt of the waste materials covered by this Bill of Lading, except as noted in item 19.

Printed/Typed Name

David North

Signature

David North

Date

Month Day Year  
04/14/98



## Appendix H

### Backfill Gradation Results

# Particle Size of Soils by ASTM D422\_MOD

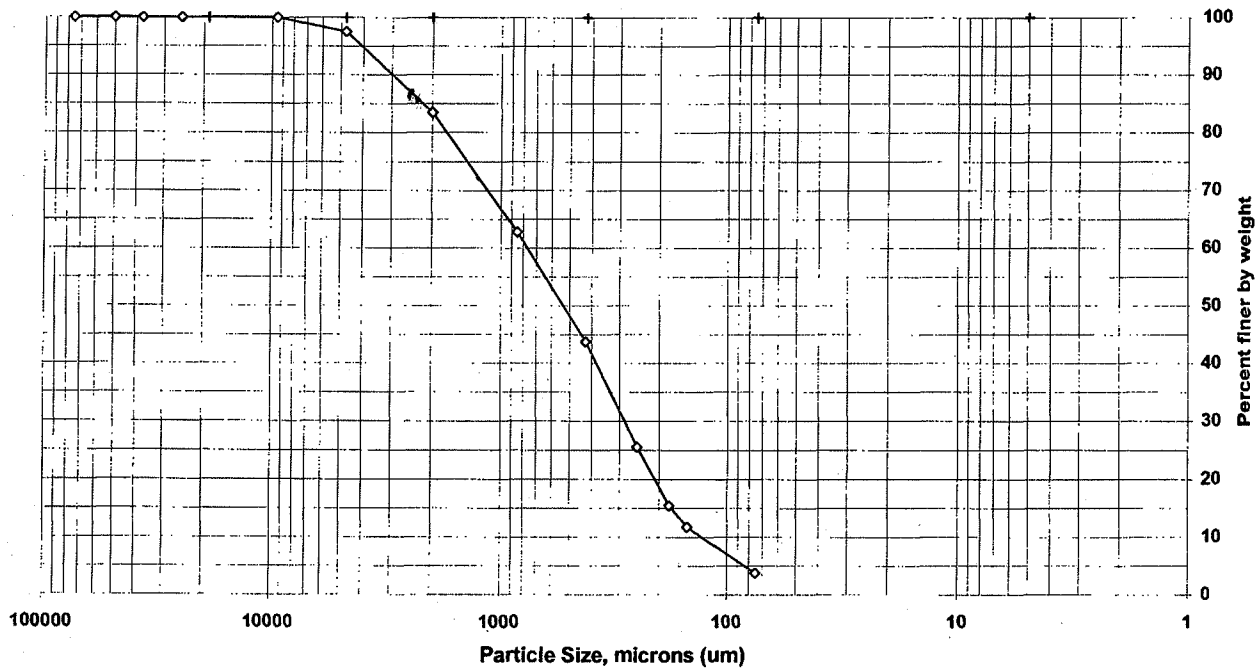
Client Code: STLNJE  
 Sample ID: FILL-1  
 Lab ID: 735700

SDG: O848  
 ETR(s): 123457

Date Received: 12/17/2007  
 Start Date: 12/18/2007  
 End Date: 12/19/2007

Percent Solids: 91.5%  
 Specific Gravity: 2.650  
 Maximum Particle Size: 9.5 mm

Non-soil material: na  
 Shape (> #10): subrounded  
 Hardness (> #10): hard



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	97.5	2.5
#10	2000	83.5	14.0
#20	850	62.8	20.7
#40	425	43.8	19.0
#60	250	25.6	18.2
#80	180	15.4	10.2
#100	150	11.7	3.7
#200	75	3.7	8.0

Soil Classification	Percent of Total Sample
Gravel	2.5
Sand	93.8
Coarse Sand	14.0
Medium Sand	39.7
Fine Sand	40.0
Fines	3.7

Preparation Method: **D2217**  
 Dispersion Device: Mechanical mixer with  
 a metal paddle.  
 Dispersion Period: 1 minute