March 30, 2012

Mr. Maurice Moore
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 9
270 Michigan Avenue
Buffalo, New York 14203-2999

Subject: **2011 Periodic Review Report**
Alltift Landfill Site /Ramco Steel Site
Site Nos. 9-15-054 /9-15-046B

Dear Mr. Moore:

AMEC Environment and Infrastructure, Inc. (Amec), formerly MACTEC Engineering and Consulting, P.C. (Mactec), is submitting this Periodic Review Report (PRR) for the Alltift Landfill Site /Ramco Steel Site (site) on behalf of Honeywell International Inc. (Honeywell). The completed Site Management PRR Notice - Institutional and Engineering controls Certification Form is provided herein as Attachment A, which includes a summary of proposed deed restrictions. A report titled "2011 Annual Operations, Maintenance, and Monitoring Report, Alltift Landfill Site /Ramco Steel Site" (OM&M Report), is included herein as Attachment B. The remainder of this document follows the outline presented in your September 2, 2009 letter.

I. Introduction

A. Site Summary:
The primary remedial objectives at the site are to eliminate the potential for direct contact with waste and impacted soils and sediments, and to eliminate the potential for impacted groundwater to discharge to the adjacent wetlands. Remedial construction activities began in November 2003 and were completed in November 2005. The key remedial actions for the site included:

- Consolidation and capping of landfill waste and impacted soils and sediments;
- Construction of groundwater collection and relief trenches for groundwater control (see figures included in Appendix A of the attached OM&M report);
- Groundwater monitoring; and
- Restoration of ponds and wetlands.

The Alltift Landfill Site is located at 579 Tifft Street in the southern portion of the City of Buffalo, Erie County, New York. The Ramco Steel Site is adjacent to the southeastern tip of the Alltift Landfill (see figures included in Appendix A of the attached OM&M Report).

Correspondence:
AMEC Environment and Infrastructure
511 Congress Street, Ste. 200
Portland, Maine 04101
USA
Tel 207-775-5401
Fax 207-772-4762

The Alltift Landfill Site was a former landfill/waste disposal area that was remediated between November 2003 and November 2005 under an Order of Consent between AlliedSignal (now Honeywell) and the New York State Department of Environmental Conservation (NYSDEC).

The remediation activities included the adjacent Ramco Steel Site (NYSDEC Site No. 9-15-046B). The remediation involved consolidation of the wastes present on the Alltift Landfill and Ramco Steel sites into a capped landfill on the Alltift Landfill Site. A groundwater control system was installed at the downgradient toe of the landfill to collect and pump groundwater that emanates from the landfill to a sewer line owned by the Buffalo Sewer Authority (BSA) in accordance with a Buffalo Pollutant Discharge Elimination System (BPDES) Permit. As part of the remedial construction, man-made wetlands were created on the western and southern ends of the Alltift Landfill Site and the adjacent Ramco Steel Site.

During 2011, the following routine OM&M activities were completed in accordance with the Operations, Maintenance, and Monitoring Manual, prepared by Parson Engineers, and dated March 2006 (referred to hereafter as the OM&M Manual):

- BSA discharge monitoring
- Groundwater monitoring
- Quarterly site inspections
- Routine maintenance activities

B. Effectiveness Monitoring: The cap system is intact with suitable vegetative cover, and the wetlands mitigation area appears to be a successfully functioning wetland. Groundwater from the site is flowing into the groundwater capture trench as designed. Analytical results from the BSA monthly discharge sampling was within the BSA permit limits.

C. Compliance: The OM&M activities conducted in 2011 were performed in accordance with the OM&M Manual and as described in the attached OM&M Report.

D. Recommendations: Implementation of the activities specified in the OM&M Manual will continue in 2012, as described in the attached OM&M Report and in Section VI E of this letter.

II. Site Overview

A. Site Location: The site plan is illustrated on the figures included in Appendix A of the attached OM&M Report. The site is located south of Tifft Street, approximately 1,300 feet west of Hopkins Street, and 5,000 feet east of the intersection of Tifft Street and Route 5. It is bounded on the north by Tifft Street; on the west by a railroad right-of-way and tracks; on the south by several ponds and the Ramco Steel Site; and on the east by Skyway Auto Parts, Inc. Prior to remediation, soils and sediments containing contaminant concentrations exceeding relevant NYSDEC standards were identified at the site.

The site remedy included consolidation and capping of landfill waste and impacted soils and sediments; construction of a groundwater collection trench and a groundwater relief trench; implementation of monthly BSA discharge monitoring; implementation of annual groundwater monitoring; and restoration of ponds and wetlands.

Groundwater collected in the trenches is conveyed via a pumping system to a lift station located at the southeastern corner of the site. The lift station then discharges the collected groundwater to the sewer, under a BSA discharge permit. As required by the current BSA discharge permit, samples of the effluent were collected from the lift station on a semi-annual basis and analyzed for compliance with the parameter limits listed in the permit through 2012.

B. Chronology: Remediation of the site began in November 2003 and was concluded in November 2005. Waste and impacted sediment relocation was completed in September 2004, the construction of the groundwater collection trench was completed in October 2004, and the landfill capping system was completed in June 2005. Planting of wetland and woody vegetation, creating at least 11.2 acres of emergent marsh and open water habitats, was completed in November 2005.

III. Evaluation of Remedy Performance, Effectiveness and Protectiveness

A. The performance, effectiveness and protectiveness of the remedy is verified by ensuring that the cap system is intact as constructed, that groundwater is being routed to the groundwater collection trench, and that the wetlands area is successfully functioning as designed.

- Ensuring the cap system is intact as constructed: Quarterly site inspections are conducted that include monitoring of landfill vegetation, ground inspections, and visual checks for evidence of erosion or subsidence. The results from the inspections indicate that the integrity of the cap appears sound (see the quarterly inspection reports included as Appendix G in the attached OM&M Report).
- Ensuring that groundwater is being routed to the groundwater collection trench: The integrity of the drainage and of the groundwater collection systems are evaluated during the quarterly site inspections and maintenance of these systems is performed when problems are identified. Water level measurements collected monthly from site monitoring wells, piezometers, and sumps are used to establish quarterly groundwater elevations at the site (see monthly and quarterly water level measurements, included as Appendix C and D, respectively, in the attached OM&M Report). The quarterly groundwater elevations are then used to plot quarterly groundwater contour maps. These contour maps indicate that groundwater at the site is being routed to the groundwater collection trench as designed (see quarterly groundwater contour maps from 2011 included as Appendix E in the attached OM&M Report).
- Ensuring that the wetlands area is successfully functioning as designed: The results of the 2011 inspection indicated that the mitigation wetland,

which includes 11.4 acres of emergent marsh and open water habitat, is providing wetland functions and values based on observations of wetland hydrology, hydric soils, wetland vegetation, and wildlife. However, the inspection identified two conditions included in the permit that were not met, specifically invasive plant species control and survivorship of planted woody species. The inspection report was submitted to the U.S. Army Corps of Engineers (COE) and the NYSDEC on July 1, 2011. A plan to mitigate the items identified during the annual site inspection was developed in coordination with the COE and NYSDEC. The Corrective Actions Work Plan was submitted to the COE and NYSDEC on December 22, 2011. The COE submitted comments on the work plan on February 13, 2012. Honeywell agreed to the requested work plan modifications, as indicated in Amec's letter (dated March 8, 2012) submitted to the COE on behalf of Honeywell. Implementation of the required corrective actions was initiated in the fall of 2011, with additional actions scheduled for completion in 2012.

IV. IC/EC Plan Compliance Report – A separate IC/EC Plan has not been prepared. The status of site engineering controls is discussed in the attached OM&M Report. Honeywell and its legal counsel have been communicating with NYSDEC regarding institutional controls, specifically the implementation of environmental covenants, for the various properties involved. As of the date of this letter, Honeywell and NYSDEC have been unable to locate persons with the authority to encumber the railroad property (106 Abby Street) and the Ramco Steel Site (193 Abby Street).

V. Monitoring Plan Compliance Report – A separate Monitoring Plan Compliance Report is not required for this site. Monitoring requirements are addressed in the OM&M Manual.

VI. Operations and Maintenance Plan Compliance Report

A. Components of the OM&M Manual – Requirements of the OM&M Manual include the following:

- BSA Discharge Monitoring
- Groundwater Monitoring and Annual Groundwater Sampling
- Landfill Gas Monitoring
- Surface Water Level Measurements
- Quarterly Site Inspections
- Maintenance Activities (including annual mowing of cap, repair of access roads and areas without vegetative cover, repair of areas showing erosion or subsidence, and maintenance of the drainage and groundwater collection systems).

B. Summary of OM&M Completed During 2011: BSA discharge monitoring, groundwater monitoring, quarterly site inspections, and other OM&M activities were completed in 2011 in accordance with the OM&M Manual. The following summarizes the activities completed:

- BSA discharge monitoring was conducted on a semi-annual basis in 2011 in accordance with the current BPDES Permit (Permit #09-10-BU098). Collected samples were submitted to TestAmerica Laboratories of Amherst, New York for analyses of the required parameters. Honeywell's OM&M Contractor - CH2M Hill-OMI - prepared and submitted semi-annual discharge monitoring reports that documented the results of the monitoring to BSA. All sample results were within the permit limits. The next BSA discharge monitoring event is scheduled for April 2012.
- Groundwater levels for site piezometers, wells and groundwater collection trench sumps were recorded on a monthly basis. The annual groundwater sampling event was completed in August 2011 and included collection of aqueous samples from background monitoring well (MW-2) and from collection system sumps; the samples were analyzed for parameters as described in the OM&M Manual. The results are summarized in the attached OM&M Report, and the analytical results are included in Appendix F thereto.
- Quarterly site inspections were conducted as outlined in the OM&M Manual.
- Routine and non-routine maintenance activities completed in 2011 included the following:
    - Periodic inspection and cleaning of the lift station flow meter
    - Plowing of snow from the entrance road, as necessary
    - Replacement of the flow meter (3/26/11)
    - Annual landfill cap mowing (9/16/11)
    - Removal of lift station pump to clean and replaced flexible pipe (5/13/11)
    - Clearing of debris from the wetland area overflow weir and downstream culvert (7/26/11)
    - Lubrication of gas vents (8/9/11 and 10/7/11)
    - Removal of sediment from lift station (8/2/11)
    - Clearing of brush around wells (8/15/11)
    - Conducted mowing as part of invasive plant species (Phragmites) control (10/121/11)
    - Conducted placement of coarse woody debris in support of habitat enhancement (10/13/11)
    - Conducted herbicide application by hand wicking (hand application) to phragmites in areas that were not mowed due to being too wet for mowing (10/31/11)

C. Evaluation of Remedial Systems: During 2011, the remedial systems appeared to be effectively achieving the objectives of the remedial action, as described in the attached OM&M Report.

D. OM&M Deficiencies: Most of the monitoring points are fully functional; however, there are three damaged or destroyed monitoring points (MW-1, PZ-14, and PZ-16).

E. Conclusions and Recommendations: The following conclusions were developed based on the data collected during the 2011 OM&M period:

- Based on the results of the quarterly inspection reports, which verify that the integrity of the cap is adequate and vegetation is established, the remedy remains protective for direct contact with waste and impacted soils and sediments.
- Based on the evaluation of the collected groundwater elevation data, which indicates that impacted groundwater is flowing into the groundwater collection trench as designed, the remedy is preventing impacted groundwater from discharging into the adjacent wetlands.
- Based on the results of the 2011 wetlands mitigation monitoring report and visual inspections, the wetlands mitigation area is providing wetland functions and values based on observations of wetland hydrology, wetland vegetation, and wildlife, and appears to be functioning as designed. Several work items, including mitigation of invasive plant species, have been identified, and are being implemented as discussed below.
- Based on the analytical results from BSA discharge monitoring, compounds in the discharge are within the BSA permit limits.

The following recommendations were developed based on the data collected during 2011 OM&M period:

- Concentrations of PCBs and pesticides have not been detected in groundwater samples collected at the site since monitoring activities began in 2006. Therefore, it is recommended to remove these analytes from future annual groundwater monitoring events.
- BSA Discharge Monitoring – In accordance with the revised BSA permit, discharge monitoring will be conducted on a semi-annual basis during the months of April and October 2012, with reports issued to BSA and copied to the NYSDEC.
- Wetlands Mitigation Monitoring – Honeywell is in the process of implementing wetlands mitigation area corrective actions agreed to during discussions with the COE. A summary of the action items related to that report can be found in Section 2.6 of the OM&M Report.
- Groundwater Monitoring –Annual groundwater monitoring will be completed in 2012 from the same monitoring points (background well MW-2 and the collection sumps) used for prior monitoring events. Groundwater monitoring results will be reported in the next annual PRR submittal.
- Water Level Measurements – The frequency of water level measurements from site monitoring wells, piezometers, and sumps will be reduced from monthly to quarterly, which is consistent with the requirements presented in Table 2.2 of the OM&M Manual (Parsons, 2006). Collection of water level measurements will be conducted in conjunction with site inspections.
- Landfill Gas Monitoring – in conjunction with the site inspections, measurements of the lower explosive limit and of the percentage of methane gas will continue to be collected on a quarterly basis from gas

vents GV-1, GV-2, GV-3, from four sump locations, and from four ground surface locations at the landfill perimeter.

- Surface Water Level Measurements –in conjunction with the site inspections, surface water level measurements will continue to be collected on a quarterly basis using the top of the weir structure at the north end of Pond A as a reference.
- Site inspections will continue on a quarterly basis during 2012.
- Routine OM&M activities will continue on a monthly basis, or more frequently as needed, during 2012.
- The next PRR submittal, to include the annual OM&M report, should be completed and submitted to NYSDEC by the end of the 1st quarter 2013.

VII. Overall PRR Conclusions

A. Compliance: Activities were completed during 2011 as noted above.

B. Performance and Effectiveness of the Remedy: The condition of the cap system and consistent groundwater flow into the groundwater collection trench indicate that the remedy is performing effectively.

C. Future PRR submittals: It is anticipated that the next PRR will be submitted by the end of the 1st quarter 2013.

Closing

Please contact Ryan Belcher at (207) 828-3530 with any questions or comments on this submittal.

Respectfully,

AMEC
Environment & Infrastructure, Inc.

Ryan Belcher
Senior Engineer

Mark Stelmack
Principal Engineer

Attachments

cc: R. Galloway (Honeywell)
J. Mojka (Honeywell)
D. Sutton (City of Buffalo)

ATTACHMENT A

PRR NOTICE
IC/EC CONTROLS CERTIFICATION FORM

Enclosure 1
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. 9-15-054 /9-15-046B

Site Name Alltift Landfill Site /Ramco Steel Site
Site Address: 579 Tifft Street Zip Code: 14202
City/Town: Buffalo
County: Erie
Current Use: Landfill
Intended Use: Restricted Land Use, per deed restrictions

Verification of Site Details **Box 2**

	YES	NO	N/A
1. Are the Site Details above, correct?	☒	☐	
If NO, are changes handwritten above or included on a separate sheet?	☐	☐	
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment since the initial/last certification?	☐	☒	
If YES, is documentation or evidence that documentation has been previously submitted included with this certification?	☐	☐	
3. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property since the initial/last certification?	☐	☒	
If YES, is documentation or evidence that documentation has been previously submitted included with this certification?	☐	☐	
4. Has a change-of-use occurred since the initial/last certification?	☐	☒	
If YES, is documentation or evidence that documentation has been previously submitted included with this certification?	☐	☐	
5. For non-significant-threat Brownfield Cleanup Program Sites subject to ECL 27-1415.7(c), has any new information revealed that assumptions made in the Qualitative Exposure Assessment for offsite contamination are no longer valid?	☐	☐	☒
If YES, is the new information or evidence that new information has been previously submitted included with this Certification?	☐	☐	
6. For non-significant-threat Brownfield Cleanup Program Sites subject to ECL 27-1415.7(c), are the assumptions in the Qualitative Exposure Assessment still valid (must be certified every five years) ?	☐	☐	☒
If NO, are changes in the assessment included with this certification?	☐	☐	

SITE NO. 9-15-054 /9-15-046B **Box 3**

Description of Institutional Controls	**Control Certification** Yes	No
Operations, Monitoring, and Maintenance	☒	☐
*PROPOSED DEED RESTRICTIONS, including:		
Monitoring and Maintenance of Engineering Control Systems	☐	☒
Excavation Protocol	☐	☒
Land Use Restrictions	☐	☒
Groundwater Use Restrictions	☐	☒

Box 4

Description of Engineering Controls	**Control Certification** Yes	No
Cover System, Landfill cap, 6 NYCRR, Part 360	☒	☐
Fencing/Access Control	☒	☐
Groundwater Control and Recovery System	☒	☐

Control Certification Statement

For each Institutional or Engineering control listed above, I certify by checking "Yes" that all of the following statements are true:

(a) the Institutional Control and/or Engineering Control employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

(d) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control.

(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

*Note: Honeywell is currently working with NYSDEC to locate responsible persons for several of the properties involved so that deed restrictions can be implemented.

IC/EC CERTIFICATIONS
SITE NO.

Box 5

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 2 & 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I _____John Mojka_____ at __101 Columbia Rd, Morristown, NJ 07962_____,
print name print business address

am certifying as ___Remedial Party_____(Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Signature of Owner or Remedial Party Rendering Certification ___March 30, 2012__ Date

Box 6

QUALIFIED ENVIRONMENTAL PROFESSIONAL (QEP) SIGNATURE

I certify that all information and statements in Box 4 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Mark Stelmack at MACTEC Engineering & Consulting, P.C. 511 Congress St., Suite 200, Portland, ME 04101
print name print business address

am certifying as a Qualified Environmental Professional for the Remedial Party

(Owner or Remedial Party) for the Site named in the Site Details Section of this form.

STATE OF NEW YORK ★ MARK JAMES STELMACK ★ LICENSED PROFESSIONAL ENGINEER 080317

Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification

Stamp (if Required)

March 30, 2012
Date

Enclosure 2

Certification of Institutional Controls/ Engineering Controls (ICs/ECs)
Step-by-Step Instructions, Certification Requirements and Definitions

The Owner, or Remedial Party, and when necessary, a Professional Engineer (P.E.), or the Qualified Environmental Professional (QEP), must review and complete the IC/EC Certification Form, sign the IC/EC Certifications Signature Page, and return it, along with the Periodic Review Report (PRR), within 45 days of the date of this notice.

Please use the following instructions to complete the IC/EC Certification.

I. Verification of Site Details (Box 1 and Box 2):

Answer the six questions in the Verification of Site Details Section. Questions 5 and 6 refer to only sites in the Brownfield Cleanup Program. ECL Section 27-1415-7(c) is included in **IV. IC/EC Certification Requirements**. The Owner and/or your P.E. or QEP may include handwritten changes and/or other supporting documentation, as necessary.

II. Verification of Institutional / Engineering Controls (Box 3 and Box 4)

Review the listed Institutional / Engineering Controls, confirming that all existing controls are listed, and that all existing controls are still applicable. If there is a control that is no longer applicable the Owner / Remedial Party is to petition the Department requesting approval to remove the control.

2. Select "YES" or "NO" for **Control Certification** for each IC/EC, based on Sections (a)-(e) of the **Control Certification Statement**.

   If the Department concurs with the explanation, the corrective measures, and the proposed schedule, a letter authorizing the implementation of those corrective measures will be issued by the Project Manager. If the Department has any questions or concerns regarding the completion of the certification, the Project Manager will contact you.

3. If you cannot certify "Yes" for each Control, please continue to complete the remainder of this **Control Certification** form. Attach supporting documentation that explains why the **Control Certification** cannot be rendered, as well as a statement of proposed corrective measures, and an associated schedule for completing the corrective measures. Note that this **Control Certification** form must be submitted even if an IC or EC cannot be certified; however, the certification process will not be considered complete until corrective action is conducted.

   If the Department concurs with the explanation, the corrective measures, and the proposed schedule, a letter authorizing the implementation of those corrective measures will be issued by the Project Manager. Once the corrective measures are complete a new Periodic Review Report (with IC/EC Certification) is to be submitted within 45 days to the Department. If the Department has any questions or concerns regarding the PRR and/or completion of the IC/EC Certification, the Project Manager will contact you.

III. IC/EC Certification by Signature (Box 5 and Box 6):

1. If you certified "Yes" for each Control, please complete and sign the IC/EC Certifications page. To determine WHO signs the **IC/EC Certification,** please use Table 1. Signature Requirements for the IC/EC Certification, which follows.

Table 1. Signature Requirements for Control Certification Page

Type of Control	Example of IC/EC	Required Signatures
IC only	Environmental Easement Deed Restriction.	A site or property owner or remedial party.
IC with an EC which does not include a treatment system or engineered caps.	Fence, Clean Soil Cover, Individual House Water Treatment System, Vapor Mitigation System	A site or property owner or remedial party, and a QEP. (P.E. license not required)
IC with an EC that includes treatment system or an engineered cap.	Pump & Treat System providing hydraulic control of a plume, Part 360 Cap.	A site or property owner or remedial party, and a QEP with a P.E. license.

IV. IC/EC Certification Requirements:

Division of Environmental Remediation Program Policy requires periodic certification of IC(s) and EC(s) as follows:

For Environmental Restoration Projects: N.Y. Envtl Conserv.Law Section 56-0503 (Environmental restoration projects; state assistance)

For State Superfund Projects: Envtl Conserv.Law Section 27-1318. (Institutional and engineering controls)

For Brownfields Cleanup Program Projects: Envtl Conserv.Law Section 27-1415. (Remedial program requirements)

Envtl Conserv.Law Section 27-1415-7(c) states:

(c) At non-significant threat sites where contaminants in groundwater at the site boundary contravene drinking water standards, such certification shall also certify that no new information has come to the owner's attention, including groundwater monitoring data from wells located at the site boundary, if any, to indicate that the assumptions made in the qualitative exposure assessment of offsite contamination are no longer valid. Every five years the owner at such sites shall certify that the assumptions made in the qualitative exposure assessment remain valid. The requirement to provide such certifications may be terminated by a written determination by the Commissioner in consultation with the Commissioner of Health, after notice to the parties on the brownfield site contact list and a public comment period of thirty days.

Voluntary Cleanup Program: Applicable program guidance.

Petroleum Remediation Program: Applicable program guidance.

Federal Brownfields: Applicable program guidance.

Manufactured Gas Plant Projects: Applicable program guidance (including non-registry listed MGPs).

WHERE to mail the signed Certification Form by Thursday, May 24, 2007 (45 days of the date of the notice):

New York State Department of Environmental Conservation
Division of Environmental Remediation

Attn: , Project Manager

Please note that extra postage may be required.

V. Definitions

"Engineering Control" (EC), means any physical barrier or method employed to actively or passively contain, stabilize, or monitor contamination, restrict the movement of contamination to ensure the long-term effectiveness of a remedial program, or eliminate potential exposure pathways to contamination. Engineering controls include, but are not limited to, pavement, caps, covers, subsurface barriers, vapor barriers, slurry walls, building ventilation systems, fences, access controls, provision of alternative water supplies via connection to an existing public water supply, adding treatment technologies to such water supplies, and installing filtration devices on private water supplies.

"Institutional Control" (IC), means any non-physical means of enforcing a restriction on the use of real property that limits human and environmental exposure, restricts the use of groundwater, provides notice to potential owners, operators, or members of the public, or prevents actions that would interfere with the effectiveness of a remedial program or with the effectiveness and/or integrity of operation, maintenance, or monitoring activities at or pertaining to a remedial site.

"Professional Engineer" (P.E.) means an individual or firm licensed or otherwise authorized under article 145 of the Education Law of the State of New York to practice engineering.

"Property Owner" means, for purposes of an IC/EC certification, the actual owner of a property. If the site has multiple properties with different owners, the Department requires that the owners be represented by a single representative to sign the certification.

"Oversight Document" means any document the Department issues pursuant to each Remedial Program (see below) to define the role of a person participating in the investigation and/or remediation of a site or area(s) of concern. Examples for the various programs are as follows:

BCP (after approval of the BCP application by DEC) - Brownfield Site Cleanup Agreement.
ERP (after approval of the ERP application by DEC) - State Assistance Contract.
Federal Superfund Sites - Federal Consent Decrees, Administrative Orders on Consent or Unilateral Orders issued pursuant to CERCLA.
Oil Spill Program - Order on Consent, or Stipulation pursuant to Article 12 of the Navigation Law (and the New York Environmental Conservation Law).
State Superfund Program - Administrative Consent Order, Record of Decision.
VCP (after approval of the VCP application by DEC) - Voluntary Cleanup Agreement.
RCRA Corrective Action Sites- Federal Consent Decrees, Administrative Orders on Consent or permit conditions issued pursuant to RCRA.

“Qualified Environmental Professional” (QEP), means a person who possesses sufficient specific education, training, and experience necessary to exercise professional judgment to develop opinions and conclusions regarding the presence of releases or threatened releases to the surface or subsurface of a property or off-site areas, sufficient to meet the objectives and performance factors for the areas of practice identified by this Part. Such a person must:

(1) hold a current professional engineer’s or a professional geologist’s license or registration issued by the State or another state, and have the equivalent of three years of full-time relevant experience in site investigation and remediation of the type detailed in this Part; or

(2) be a site remediation professional licensed or certified by the federal government, a state or a recognized accrediting agency, to perform investigation or remediation tasks consistent with Department guidance, and have the equivalent of three years of full-time relevant experience.

“Qualitative Exposure Assessment” means a qualitative assessment to determine the route, intensity, frequency, and duration of actual or potential exposures of humans and/or fish and wildlife to contaminants.

“Remedial Party” means a person implementing a remedial program at a remedial site pursuant to an order, agreement or State assistance contract with the Department.

“Site Management” (SM) means the activities undertaken as the last phase of the remedial program at a site, which continue after a Certificate of Completion is issued. Site management is conducted in accordance with a site management plan, which identifies and implements the institutional and engineering controls required for a site, as well as any necessary monitoring and/or operation and maintenance of the remedy.

“Site Management Plan” (SMP) means a document which details the steps necessary to assure that the institutional and engineering controls required for a site are in-place, and any physical components of the remedy are operated, maintained and monitored to assure their continued effectiveness, developed pursuant to Section 6 (DER10 Technical Guide).

“Site Owner” means the actual owner of a site. If the site has multiple owners of multiple properties with ICs and/or ECs, the Department requires that the owners designate a single representative for IC/EC Certification activities.

ATTACHMENT B

2011
ANNUAL OPERATIONS, MAINTENANCE, AND MONITORING REPORT

2011 ANNUAL OPERATIONS, MAINTENANCE, AND MONITORING REPORT

ALLTIFT LANDFILL SITE /RAMCO STEEL SITE

Buffalo, Erie County, New York
(NYSDEC Site Nos. 9-15-054 /9-15-046B)

Submitted To:

The New York State Department of Environmental Conservation
Division of Hazardous Waste Remediation

Submitted By:

Honeywell

101 Columbia Road
Morristown, NJ 07962

Prepared By:

AMEC Environment & Infrastructure, Inc.
511 Congress Street
Portland, Maine 04101

March 2012

2011 ANNUAL OPERATIONS, MAINTENANCE, AND MONITORING REPORT

ALLTIFT LANDFILL SITE /RAMCO STEEL SITE

Buffalo, Erie County, New York
(NYSDEC Site Nos. 9-15-054 /9-15-046B)

Submitted To:
The New York State Department of Environmental Conservation
Division of Hazardous Waste Remediation

Submitted By:

Honeywell

101 Columbia Road
Morristown, NJ 07962

Prepared By:

amec

AMEC Environment & Infrastructure, Inc.
511 Congress Street
Portland, Maine 04101

March 2012

Ryan Belcher
Senior Engineer

Mark Stelmack
Principal Engineer

AMEC Project Number: 3612122224

TABLE OF CONTENTS

TABLES

APPENDICES

ACRONYMS AND ABBREVIATIONS

Amec	AMEC Environmental & Infrastructure, Inc.
BSA	Buffalo Sewer Authority
BPDES	Buffalo Pollutant Discharge Elimination System
EPA	Environmental Protection Agency
LEL	Lower Explosive Limit
Mactec	Mactec Engineering and Consulting, P.C.
MS	Matrix Spike
MSD	Matrix Spike Duplicate
mg/L	milligrams per liter
µg/L	micrograms per liter
NYSDEC	New York State Department of Environmental Conservation
OM&M	Operations and maintenance Manual
OMI	CH2M Hill OMI
PCB	polychlorinated biphenyls
PRR	Periodic Review Report
SVOC	Semivolatile Organic Compound
USACE	United States Army Corps of Engineers
VOC	Volatile Organic Compound

1.0 INTRODUCTION

In accordance with the New York State Department of Environmental Conservation (NYSDEC) Order on Consent (Index No. B9-0194-87-07), Honeywell (formerly Allied-Signal, Inc.) has performed a remedial action at the Alltift Landfill and the Ramco Steel sites, and is performing long-term operations, maintenance, and monitoring (OM&M) at the sites. AMEC Environment and Infrastructure, Inc. (Amec), formerly MACTEC Engineering and Consulting, Inc., (Mactec), has prepared this report on behalf of Honeywell to document the results of the OM&M activities performed. The activities described in this report were completed in accordance with the Operations, Maintenance, and Monitoring Manual (Parsons, 2006).

The primary remedial objectives at the Alltift Landfill site are to eliminate the potential for direct contact with waste and impacted soils and sediments, and to eliminate the potential for impacted groundwater to discharge to the Buffalo River. The key remedial actions for the site included the consolidation and capping of landfill waste and impacted soils and sediments; construction of groundwater collection and relief trenches for groundwater control; groundwater monitoring; and restoration of ponds and wetlands. Remedial construction began in November 2003 and was completed in November 2005.

This annual report has been prepared to summarize the OM&M activities completed at the sites from January 1, 2011 through December 31, 2011. Figures showing the site location and current conditions Site Plan are included as Appendix A. It is anticipated that the next annual OM&M report will be submitted by the end of the 1st quarter 2013.

1.1 Project Background and Site Description

The Alltift Landfill site is located at 579 Tifft Street in the southern portion of the City of Buffalo, Erie County, New York. Figures that show the site location and current conditions site plan are provided in Appendix A. The site is located south of Tifft Street, approximately 1,300 feet west of Hopkins Street, and 5,000 feet east of the intersection of Tifft Street and Route 5. It is bounded on the north by Tifft Street; on the west by a railroad right-of-way and tracks; on the south by several ponds and the Ramco Steel site; and on the east by Skyway Auto Parts, Inc.

The Ramco Steel site is adjacent to the southeastern tip of the Alltift Landfill, and is approximately 8.5 acres in size and generally square in shape. The site is bounded on the north by the Alltift Landfill and Skyway Auto Parts, Inc.; on the east by Niagara Cold Drawn; on the west by a railroad right-of-way and tracks; and on the south by Republic

Steel or LTV (NYSDEC Site No. 9-15-047) and an abandoned facility formerly housing Sloan Auto Parts. The Ramco Steel site encompasses the body of water known as the Ramco Pond.

The Alltift Landfill site was a former landfill/waste disposal area that was remediated between November 2003 and November 2005 under an Order on Consent between AlliedSignal (now Honeywell) and the NYSDEC (NYSDEC, 1997). Remediation activities included those conducted on the adjacent Ramco Steel site (NYSDEC Site No. 9-15-046B). The remediation involved consolidation of the wastes present on the Alltift Landfill and Ramco Steel sites into a capped landfill on the Alltift site. A groundwater control system was installed at the downgradient toe of the landfill to collect and pump groundwater that emanates from the landfill to a sewer line owned by the Buffalo Sewer Authority (BSA) in accordance with a Buffalo Pollutant Discharge Elimination System Permit (BSA Permit). As part of the remedial construction, man-made wetlands were created on the western and southern ends of the Alltift Landfill site and the adjacent Ramco Steel property (see Site Plan in Appendix A).

1.2 2011 OM&M Activities

OM&M activities conducted at the site in 2011 included BSA discharge monitoring, groundwater monitoring, quarterly site inspections, and routine and non-routine maintenance activities. These activities are described in detail in Section 2.0 of this report.

2.0 SUMMARY OF 2011 OM&M ACTIVITIES

Since September 2007, Honeywell has contracted with CH2M HILL-OMI (OMI) to perform the OM&M activities at the site. In 2011, the annual groundwater sampling activities were also conducted by OMI. The following sections summarize the OM&M activities completed in 2011.

2.1 BSA Discharge Monitoring

As part of the Remedial Action, a groundwater collection trench was installed along the western and southern perimeter of the landfill cap to intercept shallow groundwater, and a groundwater relief trench was installed along the western toe of the landfill to control leachate. The groundwater collection trench contains four vertical pumping points, identified as Sumps 1 through 4, which are constructed similar to extractions wells. Pumps in Sumps 1 and 2 operate continually in order to transfer the groundwater from the collection and relief trenches to a lift station at the southeastern corner of the site. The lift station then transfers the water through a force main to a manhole located on Hopkins Street, under a permit with the BSA.

In accordance with the BSA permit, samples from the lift station were collected and analyzed semi-annually in April and September 2011. The results of the sampling are discussed in Section 3.1.

2.2 Groundwater Monitoring

The 2011 groundwater monitoring activities included the collection of monthly water level measurements and annual groundwater sampling. These activities are summarized in the following subsections. The results of the activities are discussed in Section 3.2.

2.2.1 Monthly Water Level Measurements

Water level measurements were collected on a monthly basis from monitoring well MW-2, piezometers PZ-1 through PZ-13, piezometer PZ-15, and sumps 1 through 4 to monitor groundwater elevations upgradient, within, and downgradient of the groundwater collection trench. Three monitoring points specified in the OM&M Manual could not be included in the monitoring program: background monitoring well MW-1 has apparently been destroyed or paved over by the adjacent property owner, and landfill piezometers

PZ-14 and PZ-16 have damaged well casing which does not allow passage of a water level meter or sampling equipment.

2.2.2 Groundwater Sampling

On August 8 and 9, 2011 OMI collected groundwater samples from background monitoring well MW-2 and the groundwater collection trench sumps. The samples were collected and analyzed in accordance with the OM&M Manual (Parsons, 2006). During the sampling event, the depth to water and total well depth were gauged and recorded at monitoring well MW-2 prior to purging activities. Well MW-2 was purged and sampled using low-flow techniques, which includes monitoring field measurements such as pH, temperature, conductivity, and dissolved oxygen for stabilization prior to sampling. Field measurements of these parameters were also recorded at all of the sumps prior to sampling. A peristaltic pump with dedicated tubing was used to collect each sample. Grab samples were collected from each sump, and one composite sample was collected from the four sumps during the sampling event. Due to slow recharge in MW-2, a Matrix Spike (MS), Matrix Spike Duplicate (MSD), and duplicate sample were collected from Sump 4. Immediately upon completion of sample collection, the groundwater samples were packed with ice in laboratory coolers, and delivered to the laboratory. Chain-of-Custody procedures were followed per the OM&M Manual (Parsons, 2006).

The 2011 groundwater samples were analyzed as follows:

Parameter	Analytical Method	Where Collected
Volatile Organic Compounds (VOCs) Benzene, chlorobenzene, ethylbenzene, xylenes, 1,2-dichlorobenzene, 1,4-dichlorobenzene	EPA 8260	MW-2 Sumps 1 through 4(1) Sump 4 (Duplicate, MS, MSD)
Semivolatile Organic Compounds (SVOCs) naphthalene, 4-chloroaniline	EPA 8270	MW-2 Sump 4 Sump Composite(2) Sump 4 (Duplicate, MS, MSD)
Pesticides/ polychlorinated biphenyls(PCBs) 4.4-DDD, 4.4-DDE PCB Aroclors	EPA 8081 EPA 608	MW-2 Sump 4 Sump Composite(2) Sump 4 (Duplicate, MS, MSD)
Total Metals antimony, arsenic, cadmium, chromium, iron, lead, manganese, mercury	EPA 6020/6010 /7470	MW-2 Sump 4 Sump Composite(2) Sump 4 (Duplicate, MS, MSD)

Notes:
(1) Individual samples were collected for VOC analysis to minimize potential volatilization of compounds
(2) Composite of Sump 1 through Sump 4

2.3 Landfill Gas Monitoring

Landfill gas monitoring was completed by OMI at the three gas vents during all four quarters of 2010. Landfill gas monitoring data was also collected from the four corners of the landfill and from each of the sumps during the second, third and fourth quarters. The results of the monitoring are described in Section 3.4.

2.4 Site Inspections

Quarterly inspections were completed by OMI on March 28, June 23, September 23, and November 30, 2011. The inspections were conducted in accordance with the OM&M Manual (Parsons, 2006). The cap, collection systems, monitoring points, and gas vents were visually inspected during each event. The results of the inspections are discussed in Section 3.5.

2.5 Maintenance Activities

Maintenance activities were performed routinely by OMI for the site on a monthly basis or as needed throughout the year. The following is a summary of the routine and additional maintenance activities completed at the site during the 2011 calendar year:

- Periodic inspection and cleaning of the lift station flow meter
- Plowing of snow from the entrance road as necessary
- Replacement of the flow meter (3/26/11)
- Annual landfill cap mowing (9/16/11)
- Removal of the lift station pump to clean and replaced flexible pipe (5/13/11)
- Clearing of debris from the wetland area overflow weir and downstream culvert (7/26/11)
- Lubrication of gas vents (8/9/11 and 10/7/11)
- Removal of sediment from lift station (8/2/11)
- Clearing of brush around wells (8/15/11)
- Conducted mowing as part of invasive plant species (Phragmites) control (10/12/11)
- Conducted placement of coarse woody debris in support of habitat enhancement (10/13/11)

- Conducted herbicide application by hand wicking (hand application) to phragmites in areas that were not mowed due to being too wet for mowing (10/31/11)

2.6 Wetland Monitoring

In 2005, wetlands were constructed on the site to restore and enhance the wetlands impacted during the capping of the landfill located at the site. Wetland mitigation was undertaken in accordance with a letter issued by the United States Army Corps of Engineers (USACE) regarding Permit Application No. 98-976-0162(0). In accordance with the OM&M Manual (Parsons, 2006) and the USACE Nationwide Permit No. 38 (USACE, 2004), annual wetlands inspections were conducted and wetlands mitigation monitoring reports were produced for the first three years following construction of the mitigation wetland (calendar years 2006, 2007, and 2008). A fourth year Monitoring Report was not completed for the site.

On February 25, 2011, the USACE Buffalo District Regulatory Branch contacted Honeywell regarding Permit Application No. 98-976-0162(0), their review comments on previous monitoring reports submitted pursuant to the permit, and the status of the report for Year 5 (2010 monitoring season). Honeywell and Amec followed up on the inquiry and participated on a conference call with the USACE Buffalo District Regulatory Branch on March 29, 2011. On April 1, 2011, the USACE requested, via email, that the Year 5 wetland mitigation monitoring data be collected after May 15, 2011 and that a monitoring report be submitted to the USACE Buffalo District Regulatory Branch by July 1, 2011. The Year 5 wetland monitoring was completed from June 13, 2011 to June 16, 2011, and the Year 5 report was prepared and submitted to the USACE on July 1, 2011 (Mactec, 2011). The results of the inspection indicated that the mitigation wetland, which includes 11.4 acres of emergent marsh and open water habitat, is providing wetland functions and values based on observations of wetland hydrology, hydric soils, wetland vegetation, and wildlife. However, the inspection identified two conditions included in the permit that were not met, specifically invasive plant species control and survivorship of planted woody species.

On August 23, 2011, a site walk was conducted by individuals representing the USACE, NYSDEC, Mactec, and Honeywell as a follow up to the Year 5 report submittal to evaluate the mitigation wetland and determine the need for additional mitigation work or monitoring. To discuss the findings of the site walk and the plan and schedule for implementation of the identified corrective actions necessary to close the Permit, a conference call was conducted between the USACE, NYSDEC, Amec, and Honeywell on September 29, 2011. During the conference call, the USACE and NYSDEC indicated that the mitigation wetland had replaced lost wetland functions and values and were in general concurrence with the Year 5 Report. However, two conditions of the permit were not met and required

corrective action, specifically invasive plant species control and woody buffer plantings. In addition, during the site walk it was observed that coarse woody debris placed on site was providing habitat for amphibians and reptiles. In summary, the corrective actions agreed upon as necessary to close the Permit are as follows:

1. Invasive Species Control
2. Habitat Enhancement-Coarse Woody Debris
3. Woody Buffer Restoration

A work plan was prepared detailing the proposed corrective actions and submitted to the USACE on December 22, 2011 (Amec, 2011). Prior to the submittal of the work plan, Honeywell proceeded in October 2011 with implementation of invasive species control and habitat enhancement, which consisted of the placement of additional coarse woody debris within the mitigation wetland. Due to the time of year, the planting of the woody buffer was scheduled for completion in the spring of 2012. The work plan included a summary of the corrective actions completed in 2011, which are summarized in the following paragraphs.

Common reed (*Phragmites australis*) is the invasive species of concern at the site. Methods implemented at the site to control this invasive species included mechanical control (i.e., mowing) as well as application of herbicides. The mowing was completed on October 12, 2011. A brush hog mounted on a tracked skid-steer was used to complete the mowing. This piece of equipment was used because of its low track pressures and maneuverability. Coarse woody debris was placed in six pre-determined locations within the mitigation wetland on October 13, 2011. The coarse woody debris consisted of individual stacks of three 8- to 10-foot logs. The mowing and placement of coarse woody debris was accomplished by Arrow Contracting Incorporated under contract to OMI.

The herbicide application was done by OP-TECH of Amherst, New York under contract to OMI. The targeted phragmites areas that could not be mowed, due to being too wet for the mowing equipment, were treated with herbicide on October 31, 2011. The herbicide consisted of RODEO ® (Environmental Protection Agency [EPA] # 62719-324), applied at a 5% concentration and was applied to the phragmites by hand-wicking.

Honeywell received comments from the USACE on the corrective actions work plan on February 13, 2012. In summary, the USACE requested that the work plan be revised to:

- Include the planting of only native trees and shrubs in the wetland mitigation area
- Provide a tree and shrub planting arrangement with a random, natural layout, which mimics nature.

- Require 85% survivorship of each planted vegetative layer (i.e., 85% shrub survival and 85% tree survival) with a survey to be conducted in September 2012

Honeywell accepted the additional conditions requested by the USACE as indicated in Amec's letter submitted to the USACE on behalf of Honeywell on March 8, 2012. The additional corrective action proposed for the spring of 2012 includes planting trees and shrubs to fulfill the requirement of establishing a woody buffer on the site, a second herbicide application event proposed for the late July or early August of 2012, and a mitigation wetland survey in September 2012. Once these activities have been completed a report will be prepared and submitted to the USACE to document the performance of the corrective actions at the site. Acceptance of the corrective actions by the USACE would result in closure the USACE Permit Application No. 98-976-0162(0).

3.0 RESULTS OF 2011 OM&M ACTIVITIES

As discussed previously, OMI completed the 2011 OM&M activities at the site and the annual groundwater sampling. The following sections summarize the results of OMI's activities.

3.1 BSA Discharge Monitoring

As required under the BSA discharge permit, samples of the system effluent were collected from the lift station by OMI on a semi-annual basis in April and September of 2011. Samples collected were submitted to TestAmerica Laboratories of Amherst, New York for analyses of the required parameters. OMI prepared and submitted semi-annual discharge monitoring reports that documented the results of the monitoring of discharge water to the BSA. All sampling results were within the BSA permit limits. These reports were sent to the BSA and NYSDEC on a semi-annual basis (Appendix B).

Semi-annual sampling will continue in 2012 as required under the BSA discharge permit, with the semi-annual sampling events scheduled to be conducted during the months of April and October 2012.

3.2 Groundwater Monitoring

The 2011 groundwater monitoring activities included the collection of monthly water level measurements and annual groundwater sampling. The results of these activities are described in the following subsections.

3.2.1 Monthly Water Level Measurements

Groundwater levels in site piezometers, wells and groundwater collection trench sumps were recorded on a monthly basis. Copies of the tables that show the monthly water level measurements for 2011 are included in Appendix C. Copies of tables that summarize the quarterly groundwater elevations for 2011 are included in Appendix D. The groundwater elevations were used to prepare the quarterly groundwater contour maps for 2011, which are presented in Appendix E. Based on the groundwater elevation data, it is concluded that groundwater flowing toward the toe of the Alltift landfill is being collected by the groundwater capture trench system, as intended by the system's design.

3.2.2 Groundwater Sampling

Groundwater sampling was conducted at the site in August 2011 in accordance with the OM&M Manual (Parsons, 2006). The analytical laboratory report for the August 2011 groundwater sampling event is provided as Appendix F.

The analytical results for the groundwater sampling event in August 2011 are summarized on Table 1. The analytical results for the discharge samples collected from the low-lift station were within the BSA permit limits (see subsection 3.1). During the August 2011 sampling event, concentrations of chlorobenzene above the NYSDEC Class GA (groundwater) standard of 5 micrograms per liter (µg/L) were detected in grab samples from Sump 2 (140 µg/L) and Sump 4 (21 µg/L); detected concentrations in the Sump 4 and the Sumps 1 through 4 composite samples of iron (1.3, 15.9 milligrams per liter [mg/L], respectively), manganese (6.3 and 3.8 mg/L, respectively), and antimony (0.0111 and 0.0041 mg/L, respectively) exceed the NYSDEC Class GA standards. Iron, manganese, and antimony standards are 0.3, 0.3, and 0.003 mg/L, respectively. Based on a comparison of detections in the sump samples to detections in the background well (MW-2), it does not appear that contaminants of concern are migrating onto the site. Both iron and manganese exceed NYSDEC Class GA standards in MW-2. Neither PCBs nor pesticides were detected in the samples collected from this event or from previous events. The 2011 groundwater monitoring results are consistent with the results from prior groundwater monitoring events.

3.3 Surface Water Measurements

A surface water level measurement was collected in 2011 from a weir structure located at the north end (i.e. outlet end) of Pond A. The top of the concrete weir has an elevation measurement point of 580.26 feet. In May 2011, the water level was measured as 10.75-inches below the top of the concrete weir, which is an elevation of 579.36 feet.

3.4 Landfill gas monitoring

Landfill gas monitoring was conducted on a quarterly basis in 2011. During the first quarter the gas vents (GV-1, GV-2 and GV-3) and four ground monitoring locations were monitored. The four ground monitoring locations were:

- Ground 1 - Northwest corner of landfill

- Ground 2 – West side of landfill
- Ground 3 – Southeast corner of landfill
- Ground 4 – Northeast corner of landfill

The gas vents were monitored for percent of the Lower Explosive Limit (LEL) of Methane, Methane, Oxygen, and Carbon Dioxide (See Table 2). During the second through fourth quarters, the four sumps locations (Sump 1 through Sump 4) were also monitored.

During 2011, a percentage of the LEL of methane gas was detected in the monitoring gas vents GV-1, GV-2, and GV-3.

3.5 Site Inspections

Quarterly site inspections were performed by OMI on March 28, June 23, September 23, and November 30, 2011. The inspections were conducted in accordance with the OM&M Manual (Parsons, 2006). The wetlands, groundwater monitoring wells, drainage system, gas vents, and landfill cap were visually inspected. Copies of the completed inspection checklists are provided in Appendix G.

A representative of the NYSDEC participated in the second, third and fourth quarter inspections. These inspections indicated that the site has a substantial vegetative cover and that the surface drainage system is in good condition. The lack of sediment buildup, ponded water, uncontrolled runoff, or slope instability indicates that the drainage system is adequate and operational. The access road is in good condition. The condition of the perimeter fence, gates, locks, and signs are sufficient to restrict access. The integrity of the groundwater monitoring wells, piezometers, and sumps, with the exception of monitoring points MW-1, PZ-14 and PZ-16, as noted above, were verified during the inspections. More specific information regarding the quarterly inspections are provided in the subsections below.

3.5.1 March 28, 2011 Inspection

The integrity of the cap was acceptable during the inspection. The condition the fence, gates, locks, and access roads were acceptable and there was no evidence of trespassers or vandalism. The gas venting system, groundwater collection system, monitoring well, and sumps were in acceptable condition. Because of snow on the ground covering the entire site, the vegetative cover could not be inspected; the cover was inspected during subsequent inspections.

3.5.2 June 23, 2011 Inspection

The integrity of the cap and vegetative cover were acceptable during the inspection. The condition of the fence, gates, locks, and access roads were acceptable and there was no evidence of trespassers or vandalism. The gas venting system, groundwater collection system, monitoring well, and sumps were observed to be in acceptable condition. A weir was identified as requiring clearing (see the September 23 quarterly inspection, Section 3.5.3). Japanese knotweed was found along the front fence. During the inspection "No Trespassing" signs were installed.

3.5.3 September 23, 2011 Inspection

The integrity of the cap and vegetative cover were acceptable during the inspection. The condition of the fence, gates, locks, and access roads were acceptable and there was no evidence of trespassers or vandalism. The gas venting system, groundwater collection system, monitoring well, and sumps were observed to be in acceptable condition. The weir clearing was performed during the inspection. An animal control trapper was onsite to remove an unspecified burrowing animal.

3.5.4 November 30, 2011 Inspection

The integrity of the cap and vegetative cover were acceptable during the inspection. The condition of the fence, gates, locks, and access roads were acceptable and there was no evidence of trespassers or vandalism. The gas venting system, groundwater collection system, monitoring well, and sumps were observed to be in acceptable condition.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The following conclusions were developed based on the data collected during the 2011 OM&M period:

- Based on the results of the quarterly inspection reports, which verify that the integrity of the cap is adequate and vegetation is established, the remedy remains protective for direct contact with waste and impacted soils and sediments.
- Based on the evaluation of the collected groundwater elevation data, which indicates that impacted groundwater is flowing into the groundwater collection trench as designed, the remedy is preventing impacted groundwater from discharging into the adjacent wetlands.
- Based on the results of the 2011 wetlands mitigation monitoring report and 2011 visual inspections, the wetlands mitigation area is providing wetland functions and values based on observations of wetland hydrology, wetland vegetation, and wildlife, and appears to be functioning as designed. Several work items, including mitigation of invasive plant species, have been identified, and are being implemented as discussed below.
- Based on the analytical results from BSA discharge monitoring, compounds in the discharge are within the BSA permit limits.

The following recommendations were developed based on the data collected during 2011 OM&M period:

- Concentrations of PCBs and pesticides have not been detected in groundwater samples collected at the site since monitoring activities began in 2006. Therefore, it is recommended that the sampling and analysis plan be revised to remove these analytes from the annual groundwater monitoring requirements.
- BSA Discharge Monitoring – in accordance with the current BSA permit, discharge monitoring will be conducted on a semi-annual basis during the months of April and October in 2012, with reports issued to BSA and copied to the NYSDEC.
- Wetlands Mitigation Monitoring – Honeywell is in the process of completing corrective actions agreed to by the USACE and the NYSDEC during a conference call held on September 29, 2011. Completion of the corrective actions is being implemented in accordance with a corrective actions work plan submitted to the USACE on December 22, 2011 (Amec, 2011), as modified in response to comments received from the USACE on February 13, 2012, and will be reported in the next annual Periodic Review Report (PRR) submittal.
- Groundwater Monitoring –Annual groundwater monitoring will be completed in 2012 from the same monitoring points (background well MW-2 and the collection

sumps) used during prior monitoring events. Groundwater monitoring results will be reported in the next annual PRR submittal.

- Water Level Measurements – The frequency of water level measurements collected from site monitoring wells, piezometers, and sumps will be reduced from monthly to quarterly, which is consistent with the requirements presented in Table 2.2 of the OM&M Manual (Parsons, 2006). Collection of water level measurements will be conducted in conjunction with site inspections.
- Landfill Gas Monitoring – in conjunction with the site inspections, measurements of the lower explosive limit and of the percentage of methane gas will continue to be collected on a quarterly basis from gas vents GV-1, GV-2, GV-3, from four sump locations, and from four ground surface locations at the landfill perimeter.
- Surface Water Level Measurements –in conjunction with the site inspections, surface water levels will continue to be collected on a quarterly basis, using the top of the weir structure at the north end of Pond A as a reference.
- Site inspections will continue on a quarterly basis during 2012.
- Routine OM&M activities will continue on a monthly basis, or more frequently as needed, during 2012.
- The next PRR submittal, to include the annual OM&M report, will be completed and submitted to NYSDEC by the end of the 1st quarter 2013.

5.0 REFERENCES

NYSDEC, 1997. Order on Consent between AlliedSignal, Inc. and NYSDEC, Index #B9-87-194, #B9-0358-91-2, Site Codes #9515054 and 915046B. December 1997.

USACE, 2004. March 24, 2004, Application No. 98-976-0162(0), Nationwide Permit No. (38) as Published in the Federal Register, Volume 67, No. 10, on Tuesday, January 15, 2002, signed by Gary E. McDannell.

Parsons, 2006. Operations, Maintenance, and Monitoring Manual for Alltift Landfill Site, NYSDEC Site No. 9-15-054 and Ramco Steel Site, NYSDEC Site No. 9-15-046B, Buffalo, New York. March 2006.

NYSDEC, 2009. September 2, 2009, Alltift Landfill/Ramco Steel, Site Nos. 9-15-054/915046B, Buffalo (c), Erie County, signed by Maurice F. Moore.

BSA, 2009. December 1, 2009, BPDES Permit #09-11-BU098, Authorization to Discharge, Alltift Landfill/Ramco Steel Remediation Sites, Buffalo, New York.

Mactec, 2011a. May 12, 2011, Work Plan for Wetland Mitigation Monitoring "Year 5" for Alltift Landfill, Buffalo, New York, signed by Charles H. Lyman and John M. Scrabis.

Mactec, 2011b. July 1, 2011, Annual Wetland Mitigation Report "Year 5 of 5" for Alltift Landfill, Buffalo, New York, signed by Charles H. Lyman and John M. Scrabis.

Amec, 2011. December 22, 2011, Work Plan – Corrective Action Activities Mitigation Wetland Area, Permit Application No. 98-976-0162(0), Alltift Landfill and Ramco Steel Sites Buffalo, New York, signed by Ryan T. Belcher and John M. Scrabis.

TABLES

TABLE 1
Summary of Groundwater Analytical Results - 2010 and 2011
2011 Annual OM&M Report
Alltift Landfill /Ramco Steel Site

Parameter Name	Units	NYSDEC Class GA Standards	MW-2-080811 8/8/2011	MW-2-080911 8/9/2011	Sump 1-080811 8/8/2011	Sump 2-080811 8/8/2011	Sump 3-080811 8/8/2011	Sump 4-080811 8/8/2011	FDUP-080811 (Sump 4) 8/8/2011	Sump 1-4 Comp-080811 8/8/2011
Metals (Dissolved)										
ANTIMONY	**mg/L**	**0.003**	**0.00025 J**					**0.0111**	**0.0045**	**0.0041**
ARSENIC	**mg/L**	**0.025**	**0.0032**					**0.0078**	**0.0086**	**0.0159**
CADMIUM	**mg/L**	**0.005**	**0.000072 J**					**0.00023 J**	0.0005 U	0.0005 U
CHROMIUM	**mg/L**	**0.05**	**0.0049**					**0.0051**	**0.0039 J**	**0.0084**
IRON	**mg/L**	**0.3**	**2.3**					**1.3**	**1.8**	**15.9**
LEAD	**mg/L**	**0.025**	**0.0048 J**					0.005 U	0.005 U	0.005 U
MANGANESE	**mg/L**	**0.3**	**0.56**					**6.3**	**6.3**	**3.8**
MERCURY	**mg/L**	**0.0007**	0.0002 U					0.0002 U	0.0002 U	0.0002 U
Pesticides										
4,4'-DDE	**ug/L**	**0.2**	0.054 U					**0.015 J**	0.047 U	0.049 U
4,4'-DDD	**ug/L**	**0.3**	0.054 U					0.048 U	0.047 U	0.049 U
PCBs										
AROCLOR-1016	**ug/L**		0.059 U					0.057 U	0.057 U	0.057 U
AROCLOR-1221	**ug/L**		0.059 U					0.057 U	0.057 U	0.057 U
AROCLOR-1232	**ug/L**		0.059 U					0.057 U	0.057 U	0.057 U
AROCLOR-1242	**ug/L**		0.059 U					0.057 U	0.057 U	0.057 U
AROCLOR-1248	**ug/L**		0.059 U					0.057 U	0.057 U	0.057 U
AROCLOR-1254	**ug/L**		0.059 U					0.057 U	0.057 U	0.057 U
AROCLOR-1260	**ug/L**		0.059 U					0.057 U	0.057 U	0.057 U
VOCs										
BENZENE	**ug/L**	**1**	1 U		1 U	**7.2**	**0.65 J**	**0.68 J**	**1.1**	
CHLOROBENZENE	**ug/L**	**5**	1 U		**3.7**	**140 DIL**	1 U	**21**	**24**	
ETHYLBENZENE	**ug/L**	**5**	1 U		1 U	1 U	1 U	1 U	1 U	
XYLENES, TOTAL	**ug/L**	**5**	2 U		2 U	2 U	2 U	2 U	2 U	
1,2-DICHLOROBENZENE	**ug/L**	**3**	1 U		1 U	1 U	1 U	1 U	1 U	
1,4-DICHLOROBENZENE	**ug/L**	**3**	1 U		1 U	**1.4**	1 U	1 U	1 U	
SVOCs										
4-CHLOROANILINE	**ug/L**	**5**		4.7 U				4.7 U	4.7 U	**1.3 J**
NAPHTHALENE	**ug/L**	**10**		4.7 U				4.7 U	4.7 U	4.7 U

Note:
Bold - Detected during Laboratory Analysis
J - Analyte Detected Below Reporting Limit
U - Analyte not detected
DIL - Dilution Required for Analysis
E - Analyzed using E624/E625 Method
Shading indicates exceedance of NYSDEC Class GA Standard

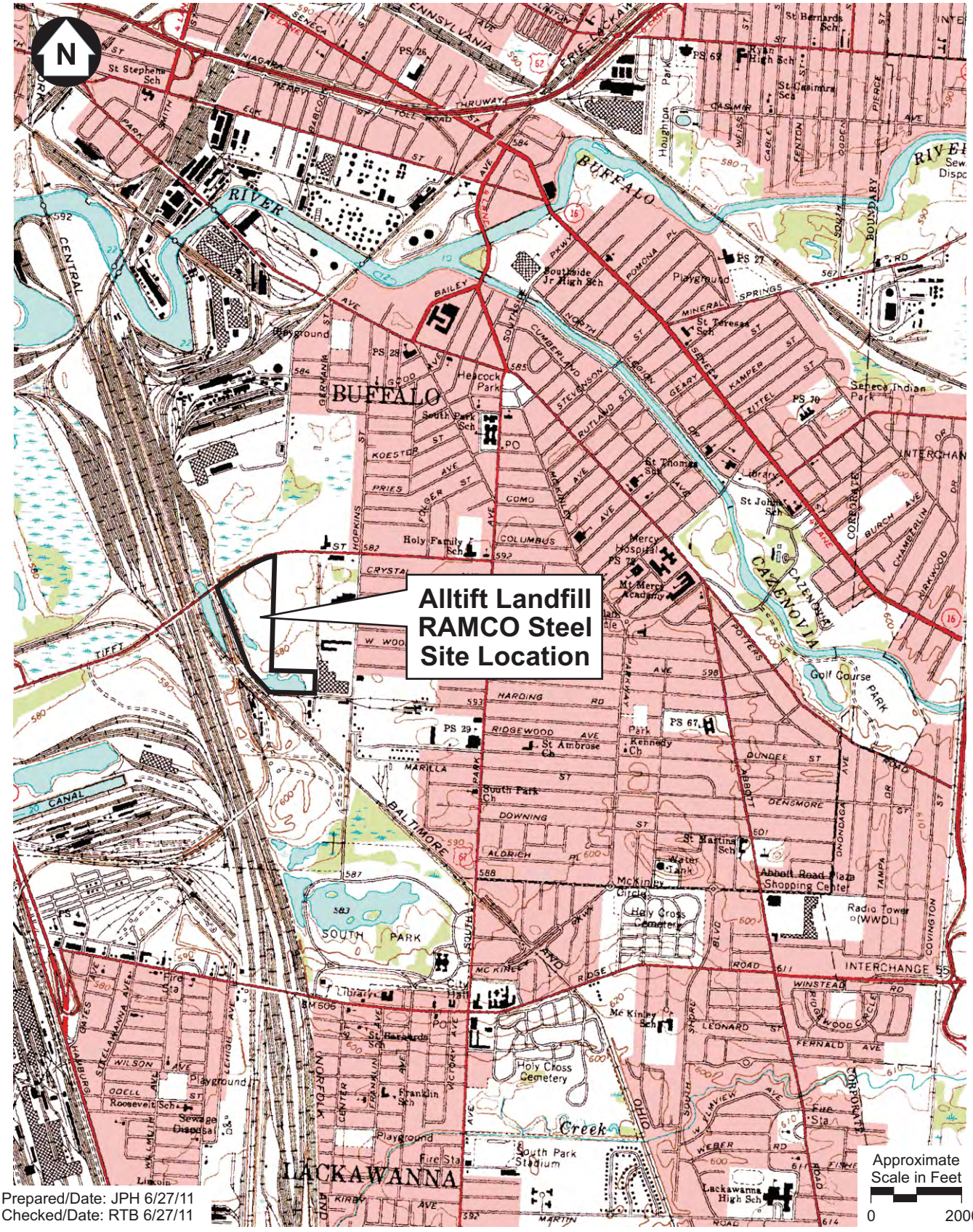
TABLE 2
Quarterly Landfill Gas Monitoring Data - 2011
2011 Annual OM Report
Alltift Landfill/Ramco Steel Site

	First Quarter					Second Quarter					Third Quarter					Fourth Quarter				
	LEL	CH_4	O_2	LEL CH_4	CO_2	LEL	CH_4	O_2	LEL CH_4	CO_2	LEL	CH_4	O_2	LEL CH_4	CO_2	LEL	CH_4	O_2	LEL CH_4	CO_2
GV-1	NA	0.0%	21.4%	0.0%	0.0%	NA	0.6%	19.0%	11.0%	0.5%	NA	0.0%	20.4%	0.0%	0.0%	NA	0.0%	21.6%	0.00%	0.0%
GV-2	NA	0.0%	20.8%	0.0%	0.0%	NA	30.0%	1.7%	OR	1.7%	NA	1.6%	18.5%	31.0%	0.7%	NA	0.0%	20.9%	0.02%	3.0%
GV-3	NA	0.0%	21.4%	0.0%	0.0%	NA	0.0%	20.0%	0	0	NA	0.2%	20.0%	0.0%	0.0%	NA	0.0%	21.5%	0.00%	0.0%
Ground 1	NA	0.0%	21.4%	0.0%	0.0%	NA	0.0%	20.4%	0	0	NA	0.0%	20.4%	0.0%	0.0%	NA	0.0%	21.3%	0.00%	0.0%
Ground 2	NA	0.0%	21.4%	0.0%	0.0%	NA	0.0%	20.4%	0	0	NA	0.0%	20.4%	0.0%	0.0%	NA	0.0%	21.4%	0.00%	0.0%
Ground 3	NA	0.0%	20.7%	0.0%	0.0%	NA	0.0%	20.3%	0	0	NA	0.0%	20.4%	0.0%	0.0%	NA	0.0%	21.4%	0.00%	0.0%
Ground 4	NA	0.0%	21.4%	0.0%	0.0%	NA	0.0%	20.4%	0	0	NA	0.0%	20.4%	0.0%	0.0%	NA	0.0%	20.5%	0.00%	0.0%
Sump 1	NA	NA	NA	NA	NA	NA	0.0%	20.4%	0	0	NA	0.0%	0.0%	0.0%	0.0%	NA	0.0%	21.3%	0.00%	0.0%
Sump 2	NA	NA	NA	NA	NA	NA	0.0%	20.6%	0	0	NA	0.2%	19.8%	0.0%	0.3%	NA	0.0%	21.4%	0.00%	0.0%
Sump 3	NA	NA	NA	NA	NA	NA	0.0%	20.5%	0	0	NA	0.0%	20.3%	0.0%	0.0%	NA	0.0%	21.4%	0.00%	0.0%
Sump 4	NA	NA	NA	NA	NA	NA	0.0%	20.5%	0	0	NA	0.0%	20.3%	0.0%	0.0%	NA	0.0%	21.4%	0.00%	0.0%

All numbers are in percent (%)
NA - This parameter Not Analyzed during Site Visit
OR - Out of Range of Instrument
Ground 1 - Monitoring location in the Northwest corner of Landfill
Ground 2 - Monitoring location on the West side of Landfill
Ground 3 - Monitoring location in the Southeast corner of Landfill
Ground 4 - Monitoring location in the Northeast corner of Landfill

APPENDIX A

SITE LOCATION AND CURRENT CONDITIONS SITE PLAN FIGURES



Honeywell	amec	Site Location Map Alltift Landfill Wetland Monitoring Project No. 3612102173 Figure 1

PORT2011018a.cdr

Legend

- Coarse Woody Debris
- Proposed Tree/Shrub Planting Area
- upland, mechanical treatment
- wetland, herbicide treatment
- Open Water
- Deep Water Emergent
- Wet Meadow Emergent

Note:
Mowing to occur in upland areas as shown. Mowing may be expanded into wetland areas based on site conditions at the time mowing occurs.

N

0 90 180 Feet

Prepared/Date: CHL 01/03/12
Checked/Date: RTB 01/03/12

HONEYWELL

amec

Current Conditions

Project 3612122224 Figure 2

Document: P:\Projects\HoneywellO,M and M Team\Alltift Landfill\4.0 Project Deliverables\4.3 Drawings\GIS\MapDocuments\Alltift_Wetland_Zones_current_conditionsl_11x17P.mxd PDF: P:\Projects\HoneywellO,M and M Team\Alltift Landfill\4.0 Project Deliverables\4.3 Drawings\GIS\Figures\Figure 2 - Current Conditions_NYDEC_annual_rpt.pdf 1/3/2012 10:49 AM charles.lyman

APPENDIX B

DISCHARGE MONITORING REPORTS – MAY AND NOVEMBER 2011

CH2M HILL OMI
Syracuse Honeywell
1563 Willis Avenue
Syracuse, NY 13204
Tel 315.468.1663
Fax 315.468.1664

CH2MHILL
OMI

May 21, 2011

Mr. James Overholt
Buffalo Sewer Authority
90 West Ferry Street
Buffalo, New York 14213-1799

Subject: **Alltift Landfill/Ramco Steel Site**
Discharge Monitoring Report
2011 First Semi-Annual Report
Permit Number 09-11-BU098

Dear Mr. Overholt:

Enclosed please find the 2011 First Semi-Annual discharge monitoring report for the pumping facility located at the Alltift Landfill/Ramco Steel (Alltift) Site. The total flow to the Buffalo Sewer Authority (BSA) during this period was 2,985,000 gallons. The flow was measured from a totalizing meter within the lift station at the Alltift Site from October 26, 2010 through April 29, 2011 for a total of 185 days.

A time composite discharge sample was collected from within the pump station on April 29, 2011. Four samples were collected over an evenly-spaced work day period for VOCs and SVOCs, composited in the laboratory. The sample for TSS and pH were collected as one sample over an evenly-spaced work day period and composited in the field. A summary of the analytical results, compared to permit limits, is provided in Table 1. All parameters were in compliance with the BSA permit limits.

If you have any questions or require additional information, please contact me at (315) 468-1663.

Sincerely,

CH2M HILL OMI, INC.

John W. Formoza
Project Manager

QC Review By: Ryan Belcher

cc.: Mr. Rich Galloway (Honeywell)
Mr. Maurice Moore (NYSDEC)
Mr. Dennis Sutton (City of Buffalo)

Table 1
Alltift Landfill/Ramco Steel Site
First Semi-annual Report for 2011
Discharge Monitoring Report

BSA Permit No. 09-11-BU98	
Sample Date:	April 29, 2011
Sample Location:	Onsite Pump Station to BSA

BSA Permit Parameter	Input Analytical Results			Converted Analytical Results		BSA Daily Max Discharge Limit		Permit Compliance
	Quantity	Reporting Limit	Unit	Quantity	Unit	Quantity	Unit	
pH	7.60	NA	SU	7.60	SU	5.0 - 12.0	SU	Yes
Benzene	ND	100	ug/L	ND	lbs/day	0.068	lbs/day	Yes
Chlorobenzene	67	100	ug/L	0.0090	lbs/day	0.148	lbs/day	Yes
4-Chloroaniline	16	4.9	ug/L	0.0022	lbs/day	0.048	lbs/day	Yes
Naphthalene	ND	4.9	ug/L	ND	lbs/day	0.048	lbs/day	Yes
Total Suspended Solids	22.8	4.0	mg/L	22.8	mg/L	250	mg/L	Yes
Total Flow (average)	11.20		gpm	16,135	gpd	57,600	gpd	Yes

Flow Calculations ***(see note1)***	**Old Meter**	**New Meter**		
Initial Reading (pump station)	3019000	0		10/26/2010
Final Reading (pump station)	5609200	394800		4/29/2011
Total Days in Period			185	
Total Flow for Period	**2,590,200**	**394,800**	**2,985,000**	gallons
Average Flow for Period			**11.20**	gpm

Note1: A new flow meter was installed on March 25, 2011, at which time the flow totalizing meter reading was 5609200.

CH2M HILL OMI
Syracuse Honeywell
1563 Willis Avenue
Syracuse, NY 13204
Tel 315.468.1663
Fax 315.468.1664

CH2MHILL
OMI

October 6, 2011

Mr. James Overholt
Buffalo Sewer Authority
90 West Ferry Street
Buffalo, New York 14213-1799

Subject: **Alltift Landfill/Ramco Steel Site**
Discharge Monitoring Report
2011 Second Semi-Annual Report
Permit Number 09-11-BU098

Dear Mr. Overholt:

Enclosed please find the 2011 Second Semi-Annual discharge monitoring report for the pumping facility located at the Alltift Landfill/Ramco Steel (Alltift) Site. The total flow to the Buffalo Sewer Authority (BSA) during this period was 1,274,300 gallons. The flow was measured from a totalizing meter within the lift station at the Alltift Site from April 29, 2011 through September 14, 2011 for a total of 138 days.

A time composite discharge sample was collected from within the pump station on September 14, 2011. Four samples were collected over an evenly-spaced work day period for VOCs and SVOCs, composited in the laboratory. The sample for TSS and pH were collected as one sample over an evenly-spaced work day period and composited in the field. A summary of the analytical results, compared to permit limits, is provided in Table 1. All parameters were in compliance with the BSA permit limits.

If you have any questions or require additional information, please contact me at (315) 468-1663.

Sincerely,

CH2M HILL OMI, INC.

John W. Formoza
Project Manager

QC Review By: Ryan Belcher

cc.: Mr. Rich Galloway (Honeywell)
Mr. Maurice Moore (NYSDEC)
Mr. Dennis Sutton (City of Buffalo)

Table 1
Alltift Landfill/Ramco Steel Site
Second Semi-annual Report for 2011
Discharge Monitoring Report

BSA Permit No. 09-11-BU98	
Sample Date:	September 14, 2011
Sample Location:	Onsite Pump Station to BSA

BSA Permit Parameter	Input Analytical Results			Converted Analytical Results		BSA Daily Max Discharge Limit		Permit Compliance
	Quantity	Reporting Limit	Unit	Quantity	Unit	Quantity	Unit	
pH	7.49	NA	SU	7.49	SU	5.0 - 12.0	SU	Yes
Benzene	ND	100	ug/L	ND	lbs/day	0.068	lbs/day	Yes
Chlorobenzene	85	100	ug/L	0.0065	lbs/day	0.148	lbs/day	Yes
4-Chloroaniline	4	4.9	ug/L	0.0003	lbs/day	0.048	lbs/day	Yes
Naphthalene	ND	4.9	ug/L	ND	lbs/day	0.048	lbs/day	Yes
Total Suspended Solids	51.6	4.0	mg/L	51.6	mg/L	250	mg/L	Yes
Total Flow (average)	6.41		gpm	9,234	gpd	57,600	gpd	Yes

Flow Calculations	Meter		
Initial Reading (pump station)	394800	4/29/2011	
Final Reading (pump station)	1669100	9/14/2011	
Total Days in Period		138	
Total Flow for Period	**1,274,300**		**gallons**
Average Flow for Period		**6.41**	**gpm**

APPENDIX C

MONTHLY WATER LEVEL MEASUREMENTS –2011

Alltift Landfill
Buffalo, New York

Monthly Procedure :

1) Read water levels at all below indicated monitoring points.
2) Read Electric Meter and note reading below.
3) All samples taken at low lift station as follows :
   A) One gallon glass jug filled in 1/4 increments every two hours with composite distributed to 5 various bottles for metals/pH testing.
   B) (8) liter amber glass jars to be sampled directly at Lift Station, filled two at a time with 1 gal composite.
   C) (8) small vials to be sampled directly from Lift Station, filled two at a time with 1 gal composite.
4) Overall site inspection with focus on cap erosion, maintenance items, security, animal burrowing, etc. Report any maintenance issues found.
5) Sump inspection and level sensor inspection/cleaning.

Piezometer Readings

	12-Jan-11	28-Feb-11	31-Mar-11	29-Apr-11	25-May-11	########	27-Jul-11	17-Aug-11	14-Sep-11	27-Oct-11	22-Nov-11
PZ-1	8.10	6.10	7.96	8.11	6.08	6.10	7.09	6.15	6.14		6.21
PZ-2	9.27	8.57	9.19	9.27	7.96	8.09	8.63	8.35	8.38		5.54
PZ-3	10.63	12.95	11.95	11.93	10.21	10.23	10.95	11.27	11.17		6.42
PZ-4	7.51	5.44	6.78	6.94	5.73	5.85	6.94	6.23	6.3		6.00
PZ-5	7.49	7.55	7.45	7.50	6.99	7.13	7.55	7.36	7.39		5.13
PZ-6	9.95	11.47	10.19	11.19	9.01	9.21	9.91	10.19	10.06		6.35
PZ-7	8.77	9.05	8.98	9.11	7.43	7.71	8.69	8.85	8.87		6.50
PZ-8	7.34	7.34	7.29	7.63	5.81	5.97	6.33	7.26	7.32		6.17
PZ-9	7.96	6.52	7.15	7.89							6.58
PZ-10	10.23	7.45	8.84	9.59	7.78	7.79	8.74	10.81	10.48		8.21
PZ-11	9.40	8.78	9.29	9.62	6.97	6.97	9.23	8.72	9.28		8.00
PZ-12	10.58	10.12	10.36	10.66	7.54	7.63	9.98	9.87	10.36		8.46
PZ-13	8.14	5.11	8.15	8.21	5.14	7.59	7.57	7.95	8.67		5.79
PZ-14	10.29(1)	10.29(1)	10.29(1)	10.29(1)	10.29(1)	10.29	10.29(1)	10.29	10.29		
PZ-15	8.73	8.07	8.81	8.95	7.42	7.55	8.10	7.4	7.86		7.67
PZ-16	32.50(2)	32.50(2)	32.50(2)	32.50(2)	32.50(2)	32.50(2)	32.50(2)	32.5	32.5		

Groundwater Collection Trench Sumps

GWCT-1	10.73	6.70	9.45	10.69	7.65	9.73	10.11	7.2	7.26		6.42
GWCT-2	18.48	22.30	19.01	19.86	13.10	14.11	15.79	13.84	14.42		7.17
GWCT-3	9.71	10.63	10.48	10.55	8.58	9.14	9.81	9.83	9.81		6.71
GWCT-4	7.98	7.51	7.97	8.09	6.50	7.47	7.54	8.13	8.15		6.17

Relief Trench Sumps

GWR-1	8.38	8.21	8.37	8.37	8.37	8.37	8.39	8.39	8.35		8.25
GWR-2	8.36	5.85	8.35	8.36	8.35	8.38	8.35	8.37	8.34		8.17

Lift Station

Lift	11.85	11.91	11.87	11.86	11.76	11.86	11.91	11.56	11.98		12.00

Offsite Background Wells

MW-1	n/a(2)	n/a(2)	n/a(2)	n/a(2)	n/a(2)	n/a(2)	n/a(2)				
MW-2	10.1	9.98	9.79	10.23	4.36	5.26	6.12	6.24	6.29		

Lift Station Totalizer Reading

Total Flow	4477300	5335900	58300	394800.00	729000.00	1071000	1167100	1468900	1669100	2050300	2262800
Delta							96100	301800	200200	381200	212500

Electric Meter

Current	50932	1223	2153	3040.00	3566.00	4024	4614	5327	5866	5866	
Delta											

Comments :

*1 : PZ-14 : Unable to obtain reading at well. Seems as if well casement has collapsed. Tape stops at 10.29 ft.

(2) : MW 1: Removed and paved over.

(3): PZ-16: Tape stops at 32.5 feet and well indicates dry at this level.

Alltift Quarterly Methane Gas Readings

Date: 4th Quarter 2011 - November 22, 2011

Location	CH_4	CO_2	O_2	Balance O_2	CH_4 LEL
Sump #1	0.0%	0.0%	21.3%	78.7%	0.00%
Ground #1	0.0%	0.0%	21.3%	78.7%	0.00%
Sump #2	0.0%	0.0%	21.4%	78.6%	0.00%
Sump #3	0.0%	0.0%	21.4%	78.6%	0.00%
Ground #2	0.0%	0.0%	21.4%	78.6%	0.00%
Sump #4	0.0%	0.0%	21.4%	78.6%	0.00%
Ground #3	0.0%	0.0%	21.4%	78.6%	0.00%
Ground #4	0.0%	0.0%	20.5%	79.4%	0.00%
GV1	0.0%	0.0%	21.6%	78.3%	0.00%
GV2	0.0%	3.0%	20.9%	77.7%	0.02%
GV3	0.0%	0.0%	21.5%	78.4%	0.00%

Wier Elevation Reading: _____ 10" above water level

APPENDIX D

QUARTERLY GROUNDWATER ELEVATIONS –2011

SUMMARY OF 2011 QUARTERLY GROUNDWATER ELEVATIONS
ALLTIFT LANDFILL SITE
BUFFALO, NEW YORK

			3/31/2011		6/30/2011		9/14/2011		11/22/2011	
MONITORING POINT	**TOTAL DEPTH (FT.)**	**TOP OF CASING ELEVATION**	**DEPTH TO WATER**	**GROUND WATER ELEVATION**	**DEPTH TO WATER**	**GROUND WATER ELEVATION**	**DEPTH TO WATER**	**GROUND WATER ELEVATION**	**DEPTH TO WATER**	**GROUND WATER ELEVATION**
PIEZOMETERS										
PZ-1	16.8	585.01	7.96	577.05	6.10	578.91	6.14	578.87	6.21	578.80
PZ-2	16.9	584.96	9.19	575.77	8.09	576.87	8.38	576.58	5.54	579.42
PZ-3	16.9	585.05	11.95	573.10	10.23	574.82	11.17	573.88	6.42	578.63
PZ-4	16.6	585.79	6.78	579.01	5.85	579.94	6.30	579.49	6	579.79
PZ-5	16.9	584.52	7.45	577.07	7.13	577.39	7.39	577.13	5.13	579.39
PZ-6	17.8	584.74	10.19	574.55	9.21	575.53	10.06	574.68	6.35	578.39
PZ-7	20.0	584.99	8.98	576.01	7.71	577.28	8.87	576.12	6.50	578.49
PZ-8	20.7	584.48	7.29	577.19	5.97	578.51	7.32	577.16	6.17	578.31
PZ-9	15.1	586.86	7.15	579.71	NM		NM		6.58	580.28
PZ-10	11.5	589.41	8.84	580.57	7.79	581.62	10.48	578.93	8.21	581.20
PZ-11	19.5	594.72	9.29	585.43	6.97	587.75	9.28	585.44	8.00	586.72
PZ-12	21.8	592.78	10.36	582.42	7.63	585.15	10.36	582.42	8.46	584.32
PZ-13	22.5	589.04	8.15	580.89	7.59	581.45	8.67	580.37	5.79	583.25
PZ-14	55.0	619.11	*	*	*	*	10.29	*	*	*
PZ-15	17.0	588.79	8.81	579.98	7.55	581.24	7.86	580.93	7.67	581.12
PZ-16	66.5	629.30	***	**	***	**	***	**	***	**
BACKGROUND WELLS										
MW-1	20.4	585.22	***	***	***	***	***	***	***	***
MW-2	17.0	586.67	9.79	576.88	5.26	581.41	6.29	580.38	NM	NM
GROUNDWATER COLLECTION TRENCH SUMPS										
S-1	17.2	585.19	9.45	575.74	9.73	575.46	7.26	577.93	6.42	578.77
S-2	24.8	585.45	19.01	566.44	14.11	571.34	14.42	571.03	7.17	578.28
S-3	17.3	585.25	10.48	574.77	9.14	576.11	9.81	575.44	6.71	578.54
S-4	17.8	585.00	7.97	577.03	7.47	577.53	8.15	576.85	6.17	578.83

*PZ-14 riser pipe damaged; no depth to water level measurement possible. Tape stops at 10.29 feet below top of casing.
**PZ-16: Tape stops at 32.50 feet below top of casing; indicates that the well is dry at this level.
***Background well MW-1 removed or paved over by property owner sometime after July 2006 site visit.
NM - Not measured

CREATED BY: SCC
CHECKED BY: ESW

APPENDIX E

QUARTERLY GROUNDWATER CONTOUR MAPS – 2011

GRID

TIFFT STREET

Stone Road

STATE OF NEW YORK PROPERTY (NYSDOT)

ENTRANCE GATE

CONTROL SHED

WEIR

GWR-1

GWCT Sump-1 575.74

PZ-4 579.01

PZ-1 577.05

PZ-2 575.71

PZ-5 577.07

GROUNDWATER COLLECTION TRENCH

GWCT Sump-2 566.44

RELIEF TRENCH

PZ-3 573.10

PZ-6 574.55

GWR-2

GWCT Sump-3 574.77

PZ-7 576.01

PZ-8 577.19

GWCT Sump-4 577.03

PZ-15 579.98

PZ-13 580.89

GV-3

GV-1

PZ-14

PZ-12 582.42

PZ-11 585.43

GV-2

PZ-16

PZ-9 579.71

PZ-10 580.57

LIFT STATION

FORCE MAIN CONNECTED TO BSA

AREA NOT TO BE MOWED

MW-1

MW-2

667 TIFFT STREET (PROCESS WELDING & FABRICATIONS) PROPERTY (JD COUSINS)

LANDS NOW OR FORMERLY OF SKYWAY AUTOPARTS, INC. L.9170/P.229

ALLTIFT LANDFILL SITE

RAMCO STEEL SITE

BUZZARD CORP.

SOUTH BUFFALO RAILWAY/ BUFFALO PITTSBURG RAILROAD, INC.

SOUTH BUFFALO RAILWAY, CO. L.4019/P.541

CSX/ ADRIAN REALTY CO. L.1436/P.446

CITY OF BUFFALO L.9580/P.710

CITY OF BUFFALO L.8769/P.238

WETLANDS

NIAGARA

MH

Hopkins Street

EXISTING STREET BOUNDARY

GERMANIA STREET (66' WIDE RIGHT-OF-WAY)

ABBY STREET (66' WIDE ROW)

HOPKINS STREET (66' WIDE)

576 577 578 579 580

LEGEND

- MW-1 MONITORING WELL
- PZ-16 PIEZOMETER
- Sump-3 GROUNDWATER COLLECTION SUMP
- GV-2 GAS VENT
- SURFACE DRAINAGE FLOW
- PROPERTY LINE
- CHAINLINK FENCE
- RAILROAD TRACKS

250 0 250

SCALE: 1"=250'

NOTE:
BASEMAP PROVIDED BY PARSONS, MARCH 2007.

Prepared/Date: KAW 11-11-11
Checked/Date: ESW 01-20-12

Honeywell Alltift Landfill Site
Buffalo, New York

amec

Groundwater Contours
March 31, 2011
Project 3410-09-675
Figure 1

GRID

Stone Road

TIFT STREET

Stone Road

STATE OF NEW YORK PROPERTY (NYSDOT)

ENTRANCE GATE

PZ-15 581.24

GV-1

PZ-14 579.01

CONTROL SHED

GWR-1

GWCT Sump-1 575.46

PZ-13 581.45

GV-3

667 TIFT STREET (PROCESS WELDING & FABRICATIONS) PROPERTY (JD COUSINS)

MW-1

PZ-12 585.15

LANDS NOW OR FORMERLY OF SKYWAY AUTOPARTS, INC. L.9170/P.229

WEIR

PZ-14

PZ-2 576.87

PZ-5 577.39

ALLTIFT LANDFILL SITE

MW-2

GROUNDWATER COLLECTION TRENCH

PZ-11 587.75

GWCT Sump-2 571.34

GV-2

RELIEF TRENCH

CITY OF BUFFALO L.8769/P.238

PZ-16

WETLANDS

PZ-3 574.82

PZ-6 575.53

GWR-2

GWCT Sump-3 576.11

LIFT STATION

BUZZARD CORP.

MH

SOUTH BUFFALO RAILWAY/ BUFFALO PITTSBURG RAILROAD, INC.

PZ-7 577.28

PZ-8 578.51

PZ-9

SOUTH BUFFALO RAILWAY, CO. L.4019/P.541

FORCE MAIN CONNECTED TO BSA

AREA NOT TO BE MOWED

GWCT Sump-4 577.63

PZ-10 581.62

580 579 578 581 582

RAMCO STEEL SITE

CSX/ ADRIAN REALTY CO. L.1436/P.446

CITY OF BUFFALO L.9580/P.710

Hopkins Street

NIAGARA

WETLANDS

NOTE:
BASEMAP PROVIDED BY PARSONS, MARCH 2007.

LEGEND

- MW-1 MONITORING WELL
- PZ-16 PIEZOMETER
- Sump-3 GROUNDWATER COLLECTION SUMP
- GV-2 GAS VENT
- SURFACE DRAINAGE FLOW
- PROPERTY LINE
- CHAINLINK FENCE
- RAILROAD TRACKS

250 0 250

SCALE: 1"=250'

Prepared/Date: KAW 11-11-11
Checked/Date: ESW 01-20-12

Honeywell Alltift Landfill Site
Buffalo, New York

amec

Groundwater Contours
June 30, 2011
Project 3410-09-675
Figure 2

GRID

TIFFT STREET

Stone Road

STATE OF NEW YORK PROPERTY (NYSDOT)

ENTRANCE GATE

CONTROL SHED

WEIR

GWR-1

GWCT Sump-1 577.93

PZ-1 579.49

PZ-13 578.87

PZ-14

PZ-2 576.58

PZ-5 577.13

ALLTIFT LANDFILL SITE

GROUNDWATER COLLECTION TRENCH

GWCT Sump-2 577.05

RELIEF TRENCH

WETLANDS

PZ-3 573.48

PZ-4 574.68

GWCT Sump-3 575.44

SOUTH BUFFALO RAILWAY/ BUFFALO PITTSBURG RAILROAD, INC.

PZ-7 576.12

PZ-8 577.16

GWCT Sump-4 576.85

PZ-15 580.37

PZ-15 580.93

GV-1

GV-3

GV-2

CITY OF BUFFALO L.9769/P.238

PZ-16

PZ-12 582.42

PZ-11 585.44

PZ-9

PZ-10 578.93

LIFT STATION

581

580 FORCE MAIN CONNECTED TO BSA

AREA NOT TO BE MOWED

579

578

577

LANDS NOW OR FORMERLY OF SKYWAY AUTOPARTS, INC. L.9170/P.229

667 TIFFT STREET (PROCESS WELDING & FABRICATIONS) PROPERTY (JD COUSINS)

MW-1

MW-2

BUZZARD CORP.

SOUTH BUFFALO RAILWAY, CO. L.4019/P.541

EXISTING STREET BOUNDARY

GERMANIA STREET (66' WIDE RIGHT-OF-WAY)

MH

Hopkins Street

HOPKINS STREET (66' WIDE)

RAMCO STEEL SITE

CITY OF BUFFALO L.9560/P.710

CSX/ ADRIAN REALTY CO. L.1438/P.446

ABBY STREET (66' WIDE ROW)

NIAGARA

WETLANDS

NOTE:
BASEMAP PROVIDED BY PARSONS, MARCH 2007.

LEGEND

- MW-1 MONITORING WELL
- PZ-16 PIEZOMETER
- Sump-3 GROUNDWATER COLLECTION SUMP
- GV-2 GAS VENT
- SURFACE DRAINAGE FLOW
- PROPERTY LINE
- CHAINLINK FENCE
- RAILROAD TRACKS

250 0 250

SCALE: 1"=250'

Prepared/Date: KAW 11-11-11
Checked/Date: ESW 01-20-12

Honeywell Alltift Landfill Site
Buffalo, New York

amec

Groundwater Contours
September 14, 2011
Project 3410-09-675
Figure 3

GRID

TIFFT STREET

Stone Road

Stone Road

STATE OF NEW YORK PROPERTY (NYSDOT)

ENTRANCE GATE

CONTROL SHED

WEIR

GWR-1

GWCT Sump-1

GWCT Sump-2

GWCT Sump-3

GWCT Sump-4

GROUNDWATER COLLECTION TRENCH

RELIEF TRENCH

LIFT STATION

FORCE MAIN CONNECTED TO BSA

AREA NOT TO BE MOWED

ALLTIFT LANDFILL SITE

RAMCO STEEL SITE

WETLANDS

WETLANDS

667 TIFFT STREET (PROCESS WELDING & FABRICATIONS) PROPERTY (JD COUSINS)

LANDS NOW OR FORMERLY OF SKYWAY AUTOPARTS, INC. L.9170/P.229

CITY OF BUFFALO L.8709/P.238

CITY OF BUFFALO L.9580/P.710

CSX/ ADRIAN REALTY CO. L.1436/P.446

SOUTH BUFFALO RAILWAY/ BUFFALO PITTSBURG RAILROAD, INC.

SOUTH BUFFALO RAILWAY, CO. L.4019/P.541

BUZZARD CORP.

NIAGARA

MH

Hopkins Street

EXISTING STREET BOUNDARY

GERMANIA STREET (66' WIDE RIGHT-OF-WAY)

ABBY STREET (66' WIDE ROW)

HOPKINS STREET (66' WIDE)

MW-1 583.25

PZ-15 581.12

PZ-14 579.79

PZ-13 578.80

GWCT Sump-1 578.77

PZ-2 579.42

PZ-6 579.39

571.03

GWCT Sump-2 578.28

PZ-3 578.68

PZ-5 578.39

GWCT Sump-3 578.54

PZ-7 579.49

PZ-8 578.31

GWCT Sump-4 578.83

PZ-9 580.28

PZ-10 581.20

PZ-11 586.72

PZ-12 584.32

MW-2

PZ-16

GV-1

GV-2

GV-3

GWR-2

583

585

587

580

579

LEGEND

- MW-1 MONITORING WELL
- PZ-16 PIEZOMETER
- Sump-3 GROUNDWATER COLLECTION SUMP
- GV-2 GAS VENT
- SURFACE DRAINAGE FLOW
- PROPERTY LINE
- CHAINLINK FENCE
- RAILROAD TRACKS

250 0 250

SCALE: 1"=250'

NOTE:
BASEMAP PROVIDED BY PARSONS, MARCH 2007.

Prepared/Date: KAW 01-03-2012
Checked/Date: ESW 01-20-12

Honeywell Alltift Landfill Site
Buffalo, New York

amec

Groundwater Contours
November 22, 2011
Project 3410-09-675
Figure 4

APPENDIX F

GROUNDWATER ANALYTICAL RESULTS – AUGUST 2011

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-8252-1
Client Project/Site: 30130 - Honeywell- Alltift LF
Sampling Event: Honeywell Alltift GW Monitoring

For:
Ontario Specialty Contracting, Inc.
333 Ganson St.
Buffalo, New York 14203

Attn: Andrew Madden

Authorized for release by:
08/22/2011 02:00:12 PM
Lisa Shaffer
Project Administrator
lisa.shaffer@testamericainc.com

Designee for

John Schove
Department Manager I
john.schove@testamericainc.com

Table of Contents

Definitions/Glossary

Client: Ontario Specialty Contracting, Inc.
Project/Site: 30130 - Honeywell- Alltift LF

TestAmerica Job ID: 480-8252-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	MS or MSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit (Dioxin)
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or method detection limit if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-8252-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-8252-1

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
Method(s) 8260B: The following samples were diluted due to the abundance of target analytes: Sump 2-080811 (480-8252-2). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 26944 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

GC/MS Semi VOA
No analytical or quality issues were noted.

GC Semi VOA
No analytical or quality issues were noted.

Metals
Method(s) 6020: The Serial Dilution (480-8252-4 SD) in batch 26896, exhibited results outside the quality control limits for total arsenic. However, the Post Digestion Spike was compliant so no corrective action was necessary

Method(s) 6020: The Matrix Spike/ Matrix Spike Duplicate (MS/MSD) recoveries for total arsenic in batch 26896 were outside control limits. The associated Laboratory Control Sample (LCS) recovery met acceptance criteria, therefore no corrective action was necessary.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: 30130 - Honeywell- Alltift LF

TestAmerica Job ID: 480-8252-1

Client Sample ID: Sump 1-080811 — Lab Sample ID: 480-8252-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	3.7		1.0	0.75	ug/L	1		8260B	Total/NA

Client Sample ID: Sump 2-080811 — Lab Sample ID: 480-8252-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	1.4		1.0	0.84	ug/L	1		8260B	Total/NA
Benzene	7.2		1.0	0.41	ug/L	1		8260B	Total/NA
Chlorobenzene	140	E	1.0	0.75	ug/L	1		8260B	Total/NA
Benzene - DL	7.4		2.0	0.82	ug/L	2		8260B	Total/NA
Chlorobenzene - DL	140		2.0	1.5	ug/L	2		8260B	Total/NA

Client Sample ID: Sump 3-080811 — Lab Sample ID: 480-8252-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.65	J	1.0	0.41	ug/L	1		8260B	Total/NA

Client Sample ID: Sump 4-080811 — Lab Sample ID: 480-8252-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.68	J	1.0	0.41	ug/L	1		8260B	Total/NA
Chlorobenzene	21		1.0	0.75	ug/L	1		8260B	Total/NA
4,4'-DDE	0.015	J	0.048	0.011	ug/L	1		8081A	Total/NA
Chromium	0.0051		0.0040	0.00087	mg/L	1		6010B	Total/NA
Iron	1.3		0.050	0.019	mg/L	1		6010B	Total/NA
Manganese	6.3		0.0030	0.00030	mg/L	1		6010B	Total/NA
Antimony	11.1		1.0	0.15	ug/L	1		6020	Total/NA
Arsenic	7.3		1.0	0.078	ug/L	1		6020	Total/NA
Cadmium	0.23	J	0.50	0.018	ug/L	1		6020	Total/NA

Client Sample ID: Sump Comp-080811 — Lab Sample ID: 480-8252-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4-Chloroaniline	1.3	J	4.7	0.56	ug/L	1		8270C	Total/NA
Chromium	0.0084		0.0040	0.00087	mg/L	1		6010B	Total/NA
Iron	15.9		0.050	0.019	mg/L	1		6010B	Total/NA
Manganese	3.8		0.0030	0.00030	mg/L	1		6010B	Total/NA
Antimony	4.1		1.0	0.15	ug/L	1		6020	Total/NA
Arsenic	15.9		1.0	0.078	ug/L	1		6020	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-8252-6

No Detections

Client Sample ID: FDUP-Sump 4-080811 — Lab Sample ID: 480-8252-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.1		1.0	0.41	ug/L	1		8260B	Total/NA
Chlorobenzene	24		1.0	0.75	ug/L	1		8260B	Total/NA
Chromium	0.0039	J	0.0040	0.00087	mg/L	1		6010B	Total/NA
Iron	1.8		0.050	0.019	mg/L	1		6010B	Total/NA
Manganese	6.3		0.0030	0.00030	mg/L	1		6010B	Total/NA
Antimony	4.5		1.0	0.15	ug/L	1		6020	Total/NA
Arsenic	8.6		1.0	0.078	ug/L	1		6020	Total/NA

Detection Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: 30130 - Honeywell- Alltift LF

TestAmerica Job ID: 480-8252-1

Client Sample ID: MW-2-080811 — Lab Sample ID: 480-8252-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.0049		0.0040	0.00087	mg/L	1		6010B	Total/NA
Lead	0.0048	J	0.0050	0.0030	mg/L	1		6010B	Total/NA
Iron	2.3		0.050	0.019	mg/L	1		6010B	Total/NA
Manganese	0.56		0.0030	0.00030	mg/L	1		6010B	Total/NA
Antimony	0.25	J	1.0	0.15	ug/L	1		6020	Total/NA
Arsenic	3.2		1.0	0.078	ug/L	1		6020	Total/NA
Cadmium	0.072	J	0.50	0.018	ug/L	1		6020	Total/NA

Client Sample ID: MW-2-080911 — Lab Sample ID: 480-8252-9

No Detections

Client Sample ID: Sump 1-080811

Date Collected: 08/08/11 10:38
Date Received: 08/08/11 17:55

Lab Sample ID: 480-8252-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/10/11 15:20	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/10/11 15:20	1
Benzene	ND		1.0	0.41	ug/L			08/10/11 15:20	1
Chlorobenzene	**3.7**		1.0	0.75	ug/L			08/10/11 15:20	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/10/11 15:20	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/10/11 15:20	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*66 - 137*		*08/10/11 15:20*	*1*
Toluene-d8 (Surr)	*120*		*71 - 126*		*08/10/11 15:20*	*1*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*08/10/11 15:20*	*1*

Client Sample ID: Sump 2-080811

Date Collected: 08/08/11 11:10
Date Received: 08/08/11 17:55

Lab Sample ID: 480-8252-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/10/11 15:43	1
1,4-Dichlorobenzene	**1.4**		1.0	0.84	ug/L			08/10/11 15:43	1
Benzene	**7.2**		1.0	0.41	ug/L			08/10/11 15:43	1
Chlorobenzene	**140**	**E**	1.0	0.75	ug/L			08/10/11 15:43	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/10/11 15:43	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/10/11 15:43	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*66 - 137*		*08/10/11 15:43*	*1*
Toluene-d8 (Surr)	*118*		*71 - 126*		*08/10/11 15:43*	*1*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*		*08/10/11 15:43*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			08/11/11 11:44	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			08/11/11 11:44	2
Benzene	**7.4**		2.0	0.82	ug/L			08/11/11 11:44	2
Chlorobenzene	**140**		2.0	1.5	ug/L			08/11/11 11:44	2
Ethylbenzene	ND		2.0	1.5	ug/L			08/11/11 11:44	2
Xylenes, Total	ND		4.0	1.3	ug/L			08/11/11 11:44	2

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*66 - 137*		*08/11/11 11:44*	*2*
Toluene-d8 (Surr)	*116*		*71 - 126*		*08/11/11 11:44*	*2*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*08/11/11 11:44*	*2*

Client Sample ID: Sump 3-080811

Date Collected: 08/08/11 11:38
Date Received: 08/08/11 17:55

Lab Sample ID: 480-8252-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/10/11 16:05	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/10/11 16:05	1
Benzene	**0.65**	**J**	1.0	0.41	ug/L			08/10/11 16:05	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/10/11 16:05	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/10/11 16:05	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/10/11 16:05	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*66 - 137*		*08/10/11 16:05*	*1*
Toluene-d8 (Surr)	*118*		*71 - 126*		*08/10/11 16:05*	*1*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*08/10/11 16:05*	*1*

Client Sample ID: Sump 4-080811

Date Collected: 08/08/11 12:08
Date Received: 08/08/11 17:55

Lab Sample ID: 480-8252-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/10/11 16:28	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/10/11 16:28	1
Benzene	**0.68**	**J**	1.0	0.41	ug/L			08/10/11 16:28	1
Chlorobenzene	**21**		1.0	0.75	ug/L			08/10/11 16:28	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/10/11 16:28	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/10/11 16:28	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*66 - 137*		*08/10/11 16:28*	*1*
Toluene-d8 (Surr)	*118*		*71 - 126*		*08/10/11 16:28*	*1*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*08/10/11 16:28*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		4.7	0.56	ug/L		08/10/11 16:08	08/11/11 16:39	1
Naphthalene	ND		4.7	0.72	ug/L		08/10/11 16:08	08/11/11 16:39	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*80*		*46 - 120*	*08/10/11 16:08*	*08/11/11 16:39*	*1*
2-Fluorobiphenyl	*96*		*48 - 120*	*08/10/11 16:08*	*08/11/11 16:39*	*1*
p-Terphenyl-d14	*76*		*24 - 136*	*08/10/11 16:08*	*08/11/11 16:39*	*1*

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.057	0.036	ug/L		08/10/11 18:58	08/11/11 13:43	1
PCB-1221	ND		0.057	0.036	ug/L		08/10/11 18:58	08/11/11 13:43	1
PCB-1232	ND		0.057	0.036	ug/L		08/10/11 18:58	08/11/11 13:43	1
PCB-1242	ND		0.057	0.036	ug/L		08/10/11 18:58	08/11/11 13:43	1
PCB-1248	ND		0.057	0.036	ug/L		08/10/11 18:58	08/11/11 13:43	1
PCB-1254	ND		0.057	0.029	ug/L		08/10/11 18:58	08/11/11 13:43	1
PCB-1260	ND		0.057	0.029	ug/L		08/10/11 18:58	08/11/11 13:43	1

Client Sample ID: Sump 4-080811

Date Collected: 08/08/11 12:08
Date Received: 08/08/11 17:55

Lab Sample ID: 480-8252-4
Matrix: Water

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*53*		*26 - 145*	*08/10/11 18:58*	*08/11/11 13:43*	*1*
Tetrachloro-m-xylene	*80*		*25 - 152*	*08/10/11 18:58*	*08/11/11 13:43*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.048	0.0088	ug/L		08/10/11 18:21	08/13/11 01:02	1
4,4'-DDE	**0.015**	**J**	0.048	0.011	ug/L		08/10/11 18:21	08/13/11 01:02	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*63*		*15 - 139*	*08/10/11 18:21*	*08/13/11 01:02*	*1*
Tetrachloro-m-xylene	*61*		*30 - 139*	*08/10/11 18:21*	*08/13/11 01:02*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**0.0051**		0.0040	0.00087	mg/L		08/10/11 08:10	08/10/11 15:55	1
Lead	ND		0.0050	0.0030	mg/L		08/10/11 08:10	08/10/11 15:55	1
Iron	**1.3**		0.050	0.019	mg/L		08/10/11 08:10	08/10/11 15:55	1
Manganese	**6.3**		0.0030	0.00030	mg/L		08/10/11 08:10	08/10/11 15:55	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**11.1**		1.0	0.15	ug/L		08/10/11 08:30	08/11/11 11:01	1
Arsenic	**7.3**		1.0	0.078	ug/L		08/10/11 08:30	08/11/11 11:01	1
Cadmium	**0.23**	**J**	0.50	0.018	ug/L		08/10/11 08:30	08/11/11 11:01	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/10/11 10:10	08/10/11 13:56	1

Client Sample ID: Sump Comp-080811

Date Collected: 08/08/11 12:59
Date Received: 08/08/11 17:55

Lab Sample ID: 480-8252-5
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	**1.3**	**J**	4.7	0.56	ug/L		08/10/11 16:08	08/11/11 17:02	1
Naphthalene	ND		4.7	0.72	ug/L		08/10/11 16:08	08/11/11 17:02	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*87*		*46 - 120*	*08/10/11 16:08*	*08/11/11 17:02*	*1*
2-Fluorobiphenyl	*101*		*48 - 120*	*08/10/11 16:08*	*08/11/11 17:02*	*1*
p-Terphenyl-d14	*70*		*24 - 136*	*08/10/11 16:08*	*08/11/11 17:02*	*1*

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.057	0.036	ug/L		08/10/11 18:58	08/11/11 14:31	1
PCB-1221	ND		0.057	0.036	ug/L		08/10/11 18:58	08/11/11 14:31	1
PCB-1232	ND		0.057	0.036	ug/L		08/10/11 18:58	08/11/11 14:31	1
PCB-1242	ND		0.057	0.036	ug/L		08/10/11 18:58	08/11/11 14:31	1
PCB-1248	ND		0.057	0.036	ug/L		08/10/11 18:58	08/11/11 14:31	1
PCB-1254	ND		0.057	0.030	ug/L		08/10/11 18:58	08/11/11 14:31	1

Client Sample ID: Sump Comp-080811

Lab Sample ID: 480-8252-5

Date Collected: 08/08/11 12:59
Date Received: 08/08/11 17:55

Matrix: Water

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	ND		0.057	0.030	ug/L		08/10/11 18:58	08/11/11 14:31	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*43*		*26 - 145*	*08/10/11 18:58*	*08/11/11 14:31*	*1*
Tetrachloro-m-xylene	*80*		*25 - 152*	*08/10/11 18:58*	*08/11/11 14:31*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.049	0.0090	ug/L		08/10/11 18:21	08/13/11 01:38	1
4,4'-DDE	ND		0.049	0.011	ug/L		08/10/11 18:21	08/13/11 01:38	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*63*		*15 - 139*	*08/10/11 18:21*	*08/13/11 01:38*	*1*
Tetrachloro-m-xylene	*60*		*30 - 139*	*08/10/11 18:21*	*08/13/11 01:38*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**0.0084**		0.0040	0.00087	mg/L		08/10/11 08:10	08/10/11 16:06	1
Lead	ND		0.0050	0.0030	mg/L		08/10/11 08:10	08/10/11 16:06	1
Iron	**15.9**		0.050	0.019	mg/L		08/10/11 08:10	08/10/11 16:06	1
Manganese	**3.8**		0.0030	0.00030	mg/L		08/10/11 08:10	08/10/11 16:06	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**4.1**		1.0	0.15	ug/L		08/10/11 08:30	08/11/11 11:50	1
Arsenic	**15.9**		1.0	0.078	ug/L		08/10/11 08:30	08/11/11 11:50	1
Cadmium	ND		0.50	0.018	ug/L		08/10/11 08:30	08/11/11 11:50	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/10/11 10:10	08/10/11 14:06	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-8252-6

Date Collected: 08/08/11 14:00
Date Received: 08/08/11 17:55

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/10/11 17:35	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/10/11 17:35	1
Benzene	ND		1.0	0.41	ug/L			08/10/11 17:35	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/10/11 17:35	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/10/11 17:35	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/10/11 17:35	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*66 - 137*		*08/10/11 17:35*	*1*
Toluene-d8 (Surr)	*115*		*71 - 126*		*08/10/11 17:35*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*08/10/11 17:35*	*1*

Client Sample ID: FDUP-Sump 4-080811
Date Collected: 08/08/11 12:23
Date Received: 08/08/11 17:55

Lab Sample ID: 480-8252-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/10/11 17:58	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/10/11 17:58	1
Benzene	**1.1**		1.0	0.41	ug/L			08/10/11 17:58	1
Chlorobenzene	**24**		1.0	0.75	ug/L			08/10/11 17:58	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/10/11 17:58	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/10/11 17:58	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*66 - 137*		*08/10/11 17:58*	*1*
Toluene-d8 (Surr)	*118*		*71 - 126*		*08/10/11 17:58*	*1*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*08/10/11 17:58*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		4.7	0.56	ug/L		08/10/11 16:08	08/11/11 17:25	1
Naphthalene	ND		4.7	0.72	ug/L		08/10/11 16:08	08/11/11 17:25	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*80*		*46 - 120*	*08/10/11 16:08*	*08/11/11 17:25*	*1*
2-Fluorobiphenyl	*95*		*48 - 120*	*08/10/11 16:08*	*08/11/11 17:25*	*1*
p-Terphenyl-d14	*55*		*24 - 136*	*08/10/11 16:08*	*08/11/11 17:25*	*1*

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.057	0.036	ug/L		08/10/11 18:58	08/11/11 14:47	1
PCB-1221	ND		0.057	0.036	ug/L		08/10/11 18:58	08/11/11 14:47	1
PCB-1232	ND		0.057	0.036	ug/L		08/10/11 18:58	08/11/11 14:47	1
PCB-1242	ND		0.057	0.036	ug/L		08/10/11 18:58	08/11/11 14:47	1
PCB-1248	ND		0.057	0.036	ug/L		08/10/11 18:58	08/11/11 14:47	1
PCB-1254	ND		0.057	0.029	ug/L		08/10/11 18:58	08/11/11 14:47	1
PCB-1260	ND		0.057	0.029	ug/L		08/10/11 18:58	08/11/11 14:47	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*58*		*26 - 145*	*08/10/11 18:58*	*08/11/11 14:47*	*1*
Tetrachloro-m-xylene	*81*		*25 - 152*	*08/10/11 18:58*	*08/11/11 14:47*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.047	0.0087	ug/L		08/10/11 18:21	08/13/11 02:14	1
4,4'-DDE	ND		0.047	0.011	ug/L		08/10/11 18:21	08/13/11 02:14	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*65*		*15 - 139*	*08/10/11 18:21*	*08/13/11 02:14*	*1*
Tetrachloro-m-xylene	*61*		*30 - 139*	*08/10/11 18:21*	*08/13/11 02:14*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**0.0039**	**J**	0.0040	0.00087	mg/L		08/10/11 08:10	08/10/11 16:13	1
Lead	ND		0.0050	0.0030	mg/L		08/10/11 08:10	08/10/11 16:13	1
Iron	**1.8**		0.050	0.019	mg/L		08/10/11 08:10	08/10/11 16:13	1
Manganese	**6.3**		0.0030	0.00030	mg/L		08/10/11 08:10	08/10/11 16:13	1

Client: Ontario Specialty Contracting, Inc.
Project/Site: 30130 - Honeywell- Alltift LF

TestAmerica Job ID: 480-8252-1

Client Sample ID: FDUP-Sump 4-080811

Lab Sample ID: 480-8252-7

Date Collected: 08/08/11 12:23
Matrix: Water
Date Received: 08/08/11 17:55

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.5		1.0	0.15	ug/L		08/10/11 08:30	08/11/11 11:56	1
Arsenic	8.6		1.0	0.078	ug/L		08/10/11 08:30	08/11/11 11:56	1
Cadmium	ND		0.50	0.018	ug/L		08/10/11 08:30	08/11/11 11:56	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/10/11 10:10	08/10/11 14:08	1

Client Sample ID: MW-2-080811

Lab Sample ID: 480-8252-8

Date Collected: 08/08/11 14:14
Matrix: Water
Date Received: 08/08/11 17:55

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/10/11 18:20	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/10/11 18:20	1
Benzene	ND		1.0	0.41	ug/L			08/10/11 18:20	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/10/11 18:20	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/10/11 18:20	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/10/11 18:20	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*66 - 137*		*08/10/11 18:20*	*1*
Toluene-d8 (Surr)	*122*		*71 - 126*		*08/10/11 18:20*	*1*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*08/10/11 18:20*	*1*

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.059	0.038	ug/L		08/10/11 18:58	08/11/11 15:03	1
PCB-1221	ND		0.059	0.038	ug/L		08/10/11 18:58	08/11/11 15:03	1
PCB-1232	ND		0.059	0.038	ug/L		08/10/11 18:58	08/11/11 15:03	1
PCB-1242	ND		0.059	0.038	ug/L		08/10/11 18:58	08/11/11 15:03	1
PCB-1248	ND		0.059	0.038	ug/L		08/10/11 18:58	08/11/11 15:03	1
PCB-1254	ND		0.059	0.031	ug/L		08/10/11 18:58	08/11/11 15:03	1
PCB-1260	ND		0.059	0.031	ug/L		08/10/11 18:58	08/11/11 15:03	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*51*		*26 - 145*	*08/10/11 18:58*	*08/11/11 15:03*	*1*
Tetrachloro-m-xylene	*77*		*25 - 152*	*08/10/11 18:58*	*08/11/11 15:03*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.054	0.0099	ug/L		08/10/11 18:21	08/13/11 02:50	1
4,4'-DDE	ND		0.054	0.012	ug/L		08/10/11 18:21	08/13/11 02:50	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*71*		*15 - 139*	*08/10/11 18:21*	*08/13/11 02:50*	*1*
Tetrachloro-m-xylene	*82*		*30 - 139*	*08/10/11 18:21*	*08/13/11 02:50*	*1*

Client: Ontario Specialty Contracting, Inc.
Project/Site: 30130 - Honeywell- Alltift LF

TestAmerica Job ID: 480-8252-1

Client Sample ID: MW-2-080811

Lab Sample ID: 480-8252-8

Date Collected: 08/08/11 14:14
Date Received: 08/08/11 17:55

Matrix: Water

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.0049		0.0040	0.00087	mg/L		08/10/11 08:10	08/10/11 16:15	1
Lead	0.0048	J	0.0050	0.0030	mg/L		08/10/11 08:10	08/10/11 16:15	1
Iron	2.3		0.050	0.019	mg/L		08/10/11 08:10	08/10/11 16:15	1
Manganese	0.56		0.0030	0.00030	mg/L		08/10/11 08:10	08/10/11 16:15	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.25	J	1.0	0.15	ug/L		08/10/11 08:30	08/11/11 12:01	1
Arsenic	3.2		1.0	0.078	ug/L		08/10/11 08:30	08/11/11 12:01	1
Cadmium	0.072	J	0.50	0.018	ug/L		08/10/11 08:30	08/11/11 12:01	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/10/11 10:10	08/10/11 14:09	1

Client Sample ID: MW-2-080911

Lab Sample ID: 480-8252-9

Date Collected: 08/09/11 08:47
Date Received: 08/08/11 17:55

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		4.7	0.56	ug/L		08/10/11 16:08	08/11/11 17:47	1
Naphthalene	ND		4.7	0.72	ug/L		08/10/11 16:08	08/11/11 17:47	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*72*		*46 - 120*	*08/10/11 16:08*	*08/11/11 17:47*	*1*
2-Fluorobiphenyl	*83*		*48 - 120*	*08/10/11 16:08*	*08/11/11 17:47*	*1*
p-Terphenyl-d14	*57*		*24 - 136*	*08/10/11 16:08*	*08/11/11 17:47*	*1*

Surrogate Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: 30130 - Honeywell- Alltift LF

TestAmerica Job ID: 480-8252-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		12DCE	TOL	BFB
Lab Sample ID	Client Sample ID	(66-137)	(71-126)	(73-120)
480-8252-1	Sump 1-080811	117	120	106
480-8252-2	Sump 2-080811	117	118	108
480-8252-2 - DL	Sump 2-080811	117	116	102
480-8252-3	Sump 3-080811	114	118	105
480-8252-4	Sump 4-080811	115	118	106
480-8252-4 MS	Sump 4-080811	116	119	108
480-8252-4 MSD	Sump 4-080811	116	120	109
480-8252-6	TRIP BLANK	117	115	102
480-8252-7	FDUP-Sump 4-080811	116	118	105
480-8252-8	MW-2-080811	118	122	106
LCS 480-26944/4	Lab Control Sample	112	120	112
LCS 480-27113/4	Lab Control Sample	117	118	112
MB 480-26944/5	Method Blank	116	120	108
MB 480-27113/5	Method Blank	121	118	105

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		NBZ	FBP	TPH
Lab Sample ID	Client Sample ID	(46-120)	(48-120)	(24-136)
480-8252-4	Sump 4-080811	80	96	76
480-8252-4 MS	Sump 4-080811	87	99	89
480-8252-4 MSD	Sump 4-080811	97	108	92
480-8252-5	Sump Comp-080811	87	101	70
480-8252-7	FDUP-Sump 4-080811	80	95	55
480-8252-9	MW-2-080911	72	83	57
LCS 480-27009/2-A	Lab Control Sample	87	96	116
MB 480-27009/1-A	Method Blank	72	79	106

Surrogate Legend

NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl
TPH = p-Terphenyl-d14

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB2	TCX2
Lab Sample ID	Client Sample ID	(26-145)	(25-152)
480-8252-4	Sump 4-080811	53	80
480-8252-4 MS	Sump 4-080811	50	82
480-8252-4 MSD	Sump 4-080811	51	84
480-8252-5	Sump Comp-080811	43	80
480-8252-7	FDUP-Sump 4-080811	58	81

Surrogate Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: 30130 - Honeywell- Alltift LF

TestAmerica Job ID: 480-8252-1

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	DCB2 (26-145)	TCX2 (25-152)								
480-8252-8	MW-2-080811	51	77								
LCS 480-27041/2-A	Lab Control Sample	49	81								
MB 480-27041/1-A	Method Blank	45	76								

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	DCB1 (15-139)	TCX1 (30-139)								
480-8252-4	Sump 4-080811	63	61								
480-8252-4 MS	Sump 4-080811	63	57								
480-8252-4 MSD	Sump 4-080811	84	60								
480-8252-5	Sump Comp-080811	63	60								
480-8252-7	FDUP-Sump 4-080811	65	61								
480-8252-8	MW-2-080811	71	82								
LCS 480-27040/2-A	Lab Control Sample	54	63								
MB 480-27040/1-A	Method Blank	62	49								

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-26944/5
Matrix: Water
Analysis Batch: 26944

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/10/11 14:52	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/10/11 14:52	1
Benzene	ND		1.0	0.41	ug/L			08/10/11 14:52	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/10/11 14:52	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/10/11 14:52	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/10/11 14:52	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*66 - 137*		*08/10/11 14:52*	*1*
Toluene-d8 (Surr)	*120*		*71 - 126*		*08/10/11 14:52*	*1*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*		*08/10/11 14:52*	*1*

Lab Sample ID: LCS 480-26944/4
Matrix: Water
Analysis Batch: 26944

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
1,2-Dichlorobenzene	25.0	21.9		ug/L		88	77 - 120
Benzene	25.0	19.7		ug/L		79	71 - 124
Chlorobenzene	25.0	21.7		ug/L		87	72 - 120
Ethylbenzene	25.0	21.6		ug/L		86	77 - 123
Xylenes, Total	75.0	66.6		ug/L		89	76 - 122

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*112*		*66 - 137*
Toluene-d8 (Surr)	*120*		*71 - 126*
4-Bromofluorobenzene (Surr)	*112*		*73 - 120*

Lab Sample ID: 480-8252-4 MS
Matrix: Water
Analysis Batch: 26944

Client Sample ID: Sump 4-080811
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
1,2-Dichlorobenzene	ND		25.0	27.7		ug/L		111	77 - 120
Benzene	0.68	J	25.0	27.8		ug/L		108	71 - 124
Chlorobenzene	21		25.0	56.4	F	ug/L		144	72 - 120
Ethylbenzene	ND		25.0	28.6		ug/L		114	77 - 123
Xylenes, Total	ND		75.0	86.3		ug/L		115	76 - 122

Surrogate	*MS % Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*116*		*66 - 137*
Toluene-d8 (Surr)	*119*		*71 - 126*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-8252-4 MSD
Matrix: Water
Analysis Batch: 26944

Client Sample ID: Sump 4-080811
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	ND		25.0	26.8		ug/L		107	77 - 120	3	20
Benzene	0.68	J	25.0	26.6		ug/L		104	71 - 124	4	13
Chlorobenzene	21		25.0	57.1	F	ug/L		146	72 - 120	1	25
Ethylbenzene	ND		25.0	27.2		ug/L		109	77 - 123	5	15
Xylenes, Total	ND		75.0	81.9		ug/L		109	76 - 122	5	16

Surrogate	*MSD % Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*116*		*66 - 137*
Toluene-d8 (Surr)	*120*		*71 - 126*
4-Bromofluorobenzene (Surr)	*109*		*73 - 120*

Lab Sample ID: MB 480-27113/5
Matrix: Water
Analysis Batch: 27113

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/11/11 11:08	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/11/11 11:08	1
Benzene	ND		1.0	0.41	ug/L			08/11/11 11:08	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/11/11 11:08	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/11/11 11:08	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/11/11 11:08	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*121*		*66 - 137*		*08/11/11 11:08*	*1*
Toluene-d8 (Surr)	*118*		*71 - 126*		*08/11/11 11:08*	*1*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*08/11/11 11:08*	*1*

Lab Sample ID: LCS 480-27113/4
Matrix: Water
Analysis Batch: 27113

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
1,2-Dichlorobenzene	25.0	23.2		ug/L		93	77 - 120
Benzene	25.0	22.0		ug/L		88	71 - 124
Chlorobenzene	25.0	23.8		ug/L		95	72 - 120
Ethylbenzene	25.0	24.0		ug/L		96	77 - 123
Xylenes, Total	75.0	72.9		ug/L		97	76 - 122

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*117*		*66 - 137*
Toluene-d8 (Surr)	*118*		*71 - 126*
4-Bromofluorobenzene (Surr)	*112*		*73 - 120*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-27009/1-A
Matrix: Water
Analysis Batch: 27082

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27009

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		5.0	0.59	ug/L		08/10/11 16:08	08/11/11 10:55	1
Naphthalene	ND		5.0	0.76	ug/L		08/10/11 16:08	08/11/11 10:55	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*72*		*46 - 120*	*08/10/11 16:08*	*08/11/11 10:55*	*1*
2-Fluorobiphenyl	*79*		*48 - 120*	*08/10/11 16:08*	*08/11/11 10:55*	*1*
p-Terphenyl-d14	*106*		*24 - 136*	*08/10/11 16:08*	*08/11/11 10:55*	*1*

Lab Sample ID: LCS 480-27009/2-A
Matrix: Water
Analysis Batch: 27082

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27009

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*87*		*46 - 120*
2-Fluorobiphenyl	*96*		*48 - 120*
p-Terphenyl-d14	*116*		*24 - 136*

Lab Sample ID: 480-8252-4 MS
Matrix: Water
Analysis Batch: 27082

Client Sample ID: Sump 4-080811
Prep Type: Total/NA
Prep Batch: 27009

Surrogate	*MS % Recovery*	*MS Qualifier*	*Limits*
Nitrobenzene-d5	*87*		*46 - 120*
2-Fluorobiphenyl	*99*		*48 - 120*
p-Terphenyl-d14	*89*		*24 - 136*

Lab Sample ID: 480-8252-4 MSD
Matrix: Water
Analysis Batch: 27082

Client Sample ID: Sump 4-080811
Prep Type: Total/NA
Prep Batch: 27009

Surrogate	*MSD % Recovery*	*MSD Qualifier*	*Limits*
Nitrobenzene-d5	*97*		*46 - 120*
2-Fluorobiphenyl	*108*		*48 - 120*
p-Terphenyl-d14	*92*		*24 - 136*

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 480-27041/1-A
Matrix: Water
Analysis Batch: 27110

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27041

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.060	0.038	ug/L		08/10/11 18:58	08/11/11 12:56	1
PCB-1221	ND		0.060	0.038	ug/L		08/10/11 18:58	08/11/11 12:56	1
PCB-1232	ND		0.060	0.038	ug/L		08/10/11 18:58	08/11/11 12:56	1
PCB-1242	ND		0.060	0.038	ug/L		08/10/11 18:58	08/11/11 12:56	1
PCB-1248	ND		0.060	0.038	ug/L		08/10/11 18:58	08/11/11 12:56	1
PCB-1254	ND		0.060	0.031	ug/L		08/10/11 18:58	08/11/11 12:56	1

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: MB 480-27041/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 27110 — **Prep Batch: 27041**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	ND		0.060	0.031	ug/L		08/10/11 18:58	08/11/11 12:56	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*45*		*26 - 145*	*08/10/11 18:58*	*08/11/11 12:56*	*1*
Tetrachloro-m-xylene	*76*		*25 - 152*	*08/10/11 18:58*	*08/11/11 12:56*	*1*

Lab Sample ID: LCS 480-27041/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 27110 — **Prep Batch: 27041**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
PCB-1016			1.00	1.03		ug/L		103	58 - 141		
PCB-1260			1.00	0.724		ug/L		72	56 - 144		

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*49*		*26 - 145*
Tetrachloro-m-xylene	*81*		*25 - 152*

Lab Sample ID: 480-8252-4 MS — **Client Sample ID: Sump 4-080811**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 27110 — **Prep Batch: 27041**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits		
PCB-1016	ND		0.943	0.964		ug/L		102	58 - 141		
PCB-1260	ND		0.943	0.643		ug/L		68	56 - 144		

Surrogate	*MS % Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*50*		*26 - 145*
Tetrachloro-m-xylene	*82*		*25 - 152*

Lab Sample ID: 480-8252-4 MSD — **Client Sample ID: Sump 4-080811**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 27110 — **Prep Batch: 27041**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
PCB-1016	ND		0.943	0.986		ug/L		105	58 - 141	2	30
PCB-1260	ND		0.943	0.665		ug/L		70	56 - 144	3	30

Surrogate	*MSD % Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*51*		*26 - 145*
Tetrachloro-m-xylene	*84*		*25 - 152*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-27040/1-A
Matrix: Water
Analysis Batch: 27392

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27040

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		08/10/11 18:21	08/12/11 21:57	1
4,4'-DDE	ND		0.050	0.012	ug/L		08/10/11 18:21	08/12/11 21:57	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*62*		*15 - 139*	*08/10/11 18:21*	*08/12/11 21:57*	*1*
Tetrachloro-m-xylene	*49*		*30 - 139*	*08/10/11 18:21*	*08/12/11 21:57*	*1*

Lab Sample ID: LCS 480-27040/2-A
Matrix: Water
Analysis Batch: 27392

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27040

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
4,4'-DDD	0.500	0.414		ug/L		83	25 - 139
4,4'-DDE	0.500	0.372		ug/L		74	49 - 127

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*54*		*15 - 139*
Tetrachloro-m-xylene	*63*		*30 - 139*

Lab Sample ID: 480-8252-4 MS
Matrix: Water
Analysis Batch: 27392

Client Sample ID: Sump 4-080811
Prep Type: Total/NA
Prep Batch: 27040

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
4,4'-DDD	ND		0.472	0.367		ug/L		78	25 - 139
4,4'-DDE	0.015	J	0.472	0.336		ug/L		71	49 - 127

Surrogate	*MS % Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*63*		*15 - 139*
Tetrachloro-m-xylene	*57*		*30 - 139*

Lab Sample ID: 480-8252-4 MSD
Matrix: Water
Analysis Batch: 27392

Client Sample ID: Sump 4-080811
Prep Type: Total/NA
Prep Batch: 27040

Surrogate	*MSD % Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*84*		*15 - 139*
Tetrachloro-m-xylene	*60*		*30 - 139*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 480-26836/1-A
Matrix: Water
Analysis Batch: 27099

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26836

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.0040	0.00087	mg/L		08/10/11 08:10	08/10/11 15:51	1
Lead	ND		0.0050	0.0030	mg/L		08/10/11 08:10	08/10/11 15:51	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 480-26836/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 27099 — **Prep Batch: 26836**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		08/10/11 08:10	08/10/11 15:51	1
Manganese	ND		0.0030	0.00030	mg/L		08/10/11 08:10	08/10/11 15:51	1

Lab Sample ID: LCS 480-26836/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 27099 — **Prep Batch: 26836**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Chromium	0.200	0.206		mg/L		103	80 - 120
Lead	0.200	0.208		mg/L		104	80 - 120
Iron	10.0	10.13		mg/L		101	80 - 120
Manganese	0.200	0.204		mg/L		102	80 - 120

Lab Sample ID: 480-8252-4 MS — **Client Sample ID: Sump 4-080811**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 27099 — **Prep Batch: 26836**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Chromium	0.0051		0.200	0.211		mg/L		103	75 - 125
Lead	ND		0.200	0.219		mg/L		110	75 - 125
Iron	1.3		10.0	12.36		mg/L		111	75 - 125
Manganese	6.3		0.200	6.22	4	mg/L		-38	75 - 125

Lab Sample ID: 480-8252-4 MSD — **Client Sample ID: Sump 4-080811**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 27099 — **Prep Batch: 26836**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Chromium	0.0051		0.200	0.211		mg/L		103	75 - 125	0	20
Lead	ND		0.200	0.217		mg/L		108	75 - 125	1	20
Iron	1.3		10.0	12.54		mg/L		113	75 - 125	1	20
Manganese	6.3		0.200	6.14	4	mg/L		-79	75 - 125	1	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 480-26896/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 27171 — **Prep Batch: 26896**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0	0.15	ug/L		08/10/11 08:30	08/11/11 10:29	1
Arsenic	ND		1.0	0.078	ug/L		08/10/11 08:30	08/11/11 10:29	1
Cadmium	ND		0.50	0.018	ug/L		08/10/11 08:30	08/11/11 10:29	1

Lab Sample ID: LCS 480-26896/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 27171 — **Prep Batch: 26896**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Antimony	20.0	20.53		ug/L		103	80 - 120
Arsenic	20.0	19.75		ug/L		99	80 - 120

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 480-26896/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 27171 — **Prep Batch: 26896**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Cadmium			20.0	20.96		ug/L		105	80 - 120		

Lab Sample ID: 480-8252-4 MS — **Client Sample ID: Sump 4-080811**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 27171 — **Prep Batch: 26896**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits		
Antimony	11.1		20.0	22.48	F	ug/L		57	75 - 125		
Arsenic	7.3		20.0	27.92		ug/L		103	75 - 125		
Cadmium	0.23	J	20.0	19.63		ug/L		97	75 - 125		

Lab Sample ID: 480-8252-4 MSD — **Client Sample ID: Sump 4-080811**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 27171 — **Prep Batch: 26896**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Antimony	11.1		20.0	22.22	F	ug/L		55	75 - 125	1	20
Arsenic	7.3		20.0	27.96		ug/L		103	75 - 125	0	20
Cadmium	0.23	J	20.0	19.37		ug/L		96	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-26916/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 27190 — **Prep Batch: 26916**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/10/11 10:10	08/10/11 13:50	1

Lab Sample ID: LCS 480-26916/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 27190 — **Prep Batch: 26916**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Mercury			0.00667	0.00640		mg/L		96	80 - 120		

Lab Sample ID: 480-8252-4 MS — **Client Sample ID: Sump 4-080811**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 27190 — **Prep Batch: 26916**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits		
Mercury	ND		0.00667	0.00607		mg/L		91	75 - 125		

Lab Sample ID: 480-8252-4 MSD — **Client Sample ID: Sump 4-080811**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 27190 — **Prep Batch: 26916**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00667	0.00610		mg/L		91	75 - 125	1	20

GC/MS VOA

Analysis Batch: 26944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-26944/4	Lab Control Sample	Total/NA	Water	8260B	
MB 480-26944/5	Method Blank	Total/NA	Water	8260B	
480-8252-1	Sump 1-080811	Total/NA	Water	8260B	
480-8252-2	Sump 2-080811	Total/NA	Water	8260B	
480-8252-3	Sump 3-080811	Total/NA	Water	8260B	
480-8252-4	Sump 4-080811	Total/NA	Water	8260B	
480-8252-4 MS	Sump 4-080811	Total/NA	Water	8260B	
480-8252-4 MSD	Sump 4-080811	Total/NA	Water	8260B	
480-8252-6	TRIP BLANK	Total/NA	Water	8260B	
480-8252-7	FDUP-Sump 4-080811	Total/NA	Water	8260B	
480-8252-8	MW-2-080811	Total/NA	Water	8260B	

Analysis Batch: 27113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-27113/4	Lab Control Sample	Total/NA	Water	8260B	
MB 480-27113/5	Method Blank	Total/NA	Water	8260B	
480-8252-2 - DL	Sump 2-080811	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 27009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-27009/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-27009/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-8252-4 MS	Sump 4-080811	Total/NA	Water	3510C	
480-8252-4 MSD	Sump 4-080811	Total/NA	Water	3510C	
480-8252-4	Sump 4-080811	Total/NA	Water	3510C	
480-8252-5	Sump Comp-080811	Total/NA	Water	3510C	
480-8252-7	FDUP-Sump 4-080811	Total/NA	Water	3510C	
480-8252-9	MW-2-080911	Total/NA	Water	3510C	

Analysis Batch: 27082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-27009/1-A	Method Blank	Total/NA	Water	8270C	27009
LCS 480-27009/2-A	Lab Control Sample	Total/NA	Water	8270C	27009
480-8252-4 MS	Sump 4-080811	Total/NA	Water	8270C	27009
480-8252-4 MSD	Sump 4-080811	Total/NA	Water	8270C	27009
480-8252-4	Sump 4-080811	Total/NA	Water	8270C	27009
480-8252-5	Sump Comp-080811	Total/NA	Water	8270C	27009
480-8252-7	FDUP-Sump 4-080811	Total/NA	Water	8270C	27009
480-8252-9	MW-2-080911	Total/NA	Water	8270C	27009

GC Semi VOA

Prep Batch: 27040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-27040/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-27040/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-8252-4 MS	Sump 4-080811	Total/NA	Water	3510C	
480-8252-4 MSD	Sump 4-080811	Total/NA	Water	3510C	
480-8252-4	Sump 4-080811	Total/NA	Water	3510C	
480-8252-5	Sump Comp-080811	Total/NA	Water	3510C	

GC Semi VOA (Continued)

Prep Batch: 27040 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-8252-7	FDUP-Sump 4-080811	Total/NA	Water	3510C	
480-8252-8	MW-2-080811	Total/NA	Water	3510C	

Prep Batch: 27041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-27041/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-27041/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-8252-4 MS	Sump 4-080811	Total/NA	Water	3510C	
480-8252-4 MSD	Sump 4-080811	Total/NA	Water	3510C	
480-8252-4	Sump 4-080811	Total/NA	Water	3510C	
480-8252-5	Sump Comp-080811	Total/NA	Water	3510C	
480-8252-7	FDUP-Sump 4-080811	Total/NA	Water	3510C	
480-8252-8	MW-2-080811	Total/NA	Water	3510C	

Analysis Batch: 27110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-27041/1-A	Method Blank	Total/NA	Water	608	27041
LCS 480-27041/2-A	Lab Control Sample	Total/NA	Water	608	27041
480-8252-4	Sump 4-080811	Total/NA	Water	608	27041
480-8252-4 MS	Sump 4-080811	Total/NA	Water	608	27041
480-8252-4 MSD	Sump 4-080811	Total/NA	Water	608	27041
480-8252-5	Sump Comp-080811	Total/NA	Water	608	27041
480-8252-7	FDUP-Sump 4-080811	Total/NA	Water	608	27041
480-8252-8	MW-2-080811	Total/NA	Water	608	27041

Analysis Batch: 27392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-27040/1-A	Method Blank	Total/NA	Water	8081A	27040
LCS 480-27040/2-A	Lab Control Sample	Total/NA	Water	8081A	27040
480-8252-4 MS	Sump 4-080811	Total/NA	Water	8081A	27040
480-8252-4 MSD	Sump 4-080811	Total/NA	Water	8081A	27040
480-8252-4	Sump 4-080811	Total/NA	Water	8081A	27040
480-8252-5	Sump Comp-080811	Total/NA	Water	8081A	27040
480-8252-7	FDUP-Sump 4-080811	Total/NA	Water	8081A	27040
480-8252-8	MW-2-080811	Total/NA	Water	8081A	27040

Metals

Prep Batch: 26836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-26836/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-26836/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-8252-4	Sump 4-080811	Total/NA	Water	3005A	
480-8252-4 MS	Sump 4-080811	Total/NA	Water	3005A	
480-8252-4 MSD	Sump 4-080811	Total/NA	Water	3005A	
480-8252-5	Sump Comp-080811	Total/NA	Water	3005A	
480-8252-7	FDUP-Sump 4-080811	Total/NA	Water	3005A	
480-8252-8	MW-2-080811	Total/NA	Water	3005A	

Prep Batch: 26896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-26896/1-A	Method Blank	Total/NA	Water	3020A	

Metals (Continued)

Prep Batch: 26896 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-26896/2-A	Lab Control Sample	Total/NA	Water	3020A	
480-8252-4	Sump 4-080811	Total/NA	Water	3020A	
480-8252-4 MS	Sump 4-080811	Total/NA	Water	3020A	
480-8252-4 MSD	Sump 4-080811	Total/NA	Water	3020A	
480-8252-5	Sump Comp-080811	Total/NA	Water	3020A	
480-8252-7	FDUP-Sump 4-080811	Total/NA	Water	3020A	
480-8252-8	MW-2-080811	Total/NA	Water	3020A	

Prep Batch: 26916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-26916/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-26916/2-A	Lab Control Sample	Total/NA	Water	7470A	
480-8252-4	Sump 4-080811	Total/NA	Water	7470A	
480-8252-4 MS	Sump 4-080811	Total/NA	Water	7470A	
480-8252-4 MSD	Sump 4-080811	Total/NA	Water	7470A	
480-8252-5	Sump Comp-080811	Total/NA	Water	7470A	
480-8252-7	FDUP-Sump 4-080811	Total/NA	Water	7470A	
480-8252-8	MW-2-080811	Total/NA	Water	7470A	

Analysis Batch: 27099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-26836/1-A	Method Blank	Total/NA	Water	6010B	26836
LCS 480-26836/2-A	Lab Control Sample	Total/NA	Water	6010B	26836
480-8252-4	Sump 4-080811	Total/NA	Water	6010B	26836
480-8252-4 MS	Sump 4-080811	Total/NA	Water	6010B	26836
480-8252-4 MSD	Sump 4-080811	Total/NA	Water	6010B	26836
480-8252-5	Sump Comp-080811	Total/NA	Water	6010B	26836
480-8252-7	FDUP-Sump 4-080811	Total/NA	Water	6010B	26836
480-8252-8	MW-2-080811	Total/NA	Water	6010B	26836

Analysis Batch: 27171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-26896/1-A	Method Blank	Total/NA	Water	6020	26896
LCS 480-26896/2-A	Lab Control Sample	Total/NA	Water	6020	26896
480-8252-4	Sump 4-080811	Total/NA	Water	6020	26896
480-8252-4 MS	Sump 4-080811	Total/NA	Water	6020	26896
480-8252-4 MSD	Sump 4-080811	Total/NA	Water	6020	26896
480-8252-5	Sump Comp-080811	Total/NA	Water	6020	26896
480-8252-7	FDUP-Sump 4-080811	Total/NA	Water	6020	26896
480-8252-8	MW-2-080811	Total/NA	Water	6020	26896

Analysis Batch: 27190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-26916/1-A	Method Blank	Total/NA	Water	7470A	26916
LCS 480-26916/2-A	Lab Control Sample	Total/NA	Water	7470A	26916
480-8252-4	Sump 4-080811	Total/NA	Water	7470A	26916
480-8252-4 MS	Sump 4-080811	Total/NA	Water	7470A	26916
480-8252-4 MSD	Sump 4-080811	Total/NA	Water	7470A	26916
480-8252-5	Sump Comp-080811	Total/NA	Water	7470A	26916
480-8252-7	FDUP-Sump 4-080811	Total/NA	Water	7470A	26916
480-8252-8	MW-2-080811	Total/NA	Water	7470A	26916

Lab Chronicle

Client: Ontario Specialty Contracting, Inc.
Project/Site: 30130 - Honeywell- Alltift LF

TestAmerica Job ID: 480-8252-1

Client Sample ID: Sump 1-080811
Lab Sample ID: 480-8252-1
Date Collected: 08/08/11 10:38
Matrix: Water
Date Received: 08/08/11 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	26944	08/10/11 15:20	DC	TAL BUF

Client Sample ID: Sump 2-080811
Lab Sample ID: 480-8252-2
Date Collected: 08/08/11 11:10
Matrix: Water
Date Received: 08/08/11 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	26944	08/10/11 15:43	DC	TAL BUF
Total/NA	Analysis	8260B	DL	2	27113	08/11/11 11:44	ND	TAL BUF

Client Sample ID: Sump 3-080811
Lab Sample ID: 480-8252-3
Date Collected: 08/08/11 11:38
Matrix: Water
Date Received: 08/08/11 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	26944	08/10/11 16:05	DC	TAL BUF

Client Sample ID: Sump 4-080811
Lab Sample ID: 480-8252-4
Date Collected: 08/08/11 12:08
Matrix: Water
Date Received: 08/08/11 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	26944	08/10/11 16:28	DC	TAL BUF
Total/NA	Prep	3510C			27009	08/10/11 16:08	LT	TAL BUF
Total/NA	Analysis	8270C		1	27082	08/11/11 16:39	MP	TAL BUF
Total/NA	Prep	3510C			27041	08/10/11 18:58	LT	TAL BUF
Total/NA	Analysis	608		1	27110	08/11/11 13:43	JM	TAL BUF
Total/NA	Prep	3510C			27040	08/10/11 18:21	LT	TAL BUF
Total/NA	Analysis	8081A		1	27392	08/13/11 01:02	DB	TAL BUF
Total/NA	Prep	3005A			26836	08/10/11 08:10	JM	TAL BUF
Total/NA	Analysis	6010B		1	27099	08/10/11 15:55	AH	TAL BUF
Total/NA	Prep	3020A			26896	08/10/11 08:30	JM	TAL BUF
Total/NA	Analysis	6020		1	27171	08/11/11 11:01	JRK	TAL BUF
Total/NA	Prep	7470A			26916	08/10/11 10:10	MM	TAL BUF
Total/NA	Analysis	7470A		1	27190	08/10/11 13:56	MM	TAL BUF

Client Sample ID: Sump Comp-080811
Lab Sample ID: 480-8252-5
Date Collected: 08/08/11 12:59
Matrix: Water
Date Received: 08/08/11 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			27009	08/10/11 16:08	LT	TAL BUF
Total/NA	Analysis	8270C		1	27082	08/11/11 17:02	MP	TAL BUF
Total/NA	Prep	3510C			27041	08/10/11 18:58	LT	TAL BUF

Client Sample ID: Sump Comp-080811

Lab Sample ID: 480-8252-5

Date Collected: 08/08/11 12:59

Matrix: Water

Date Received: 08/08/11 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	608		1	27110	08/11/11 14:31	JM	TAL BUF
Total/NA	Prep	3510C			27040	08/10/11 18:21	LT	TAL BUF
Total/NA	Analysis	8081A		1	27392	08/13/11 01:38	DB	TAL BUF
Total/NA	Prep	3005A			26836	08/10/11 08:10	JM	TAL BUF
Total/NA	Analysis	6010B		1	27099	08/10/11 16:06	AH	TAL BUF
Total/NA	Prep	3020A			26896	08/10/11 08:30	JM	TAL BUF
Total/NA	Analysis	6020		1	27171	08/11/11 11:50	JRK	TAL BUF
Total/NA	Prep	7470A			26916	08/10/11 10:10	MM	TAL BUF
Total/NA	Analysis	7470A		1	27190	08/10/11 14:06	MM	TAL BUF

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-8252-6

Date Collected: 08/08/11 14:00

Matrix: Water

Date Received: 08/08/11 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	26944	08/10/11 17:35	DC	TAL BUF

Client Sample ID: FDUP-Sump 4-080811

Lab Sample ID: 480-8252-7

Date Collected: 08/08/11 12:23

Matrix: Water

Date Received: 08/08/11 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	26944	08/10/11 17:58	DC	TAL BUF
Total/NA	Prep	3510C			27009	08/10/11 16:08	LT	TAL BUF
Total/NA	Analysis	8270C		1	27082	08/11/11 17:25	MP	TAL BUF
Total/NA	Prep	3510C			27041	08/10/11 18:58	LT	TAL BUF
Total/NA	Analysis	608		1	27110	08/11/11 14:47	JM	TAL BUF
Total/NA	Prep	3510C			27040	08/10/11 18:21	LT	TAL BUF
Total/NA	Analysis	8081A		1	27392	08/13/11 02:14	DB	TAL BUF
Total/NA	Prep	3005A			26836	08/10/11 08:10	JM	TAL BUF
Total/NA	Analysis	6010B		1	27099	08/10/11 16:13	AH	TAL BUF
Total/NA	Prep	3020A			26896	08/10/11 08:30	JM	TAL BUF
Total/NA	Analysis	6020		1	27171	08/11/11 11:56	JRK	TAL BUF
Total/NA	Prep	7470A			26916	08/10/11 10:10	MM	TAL BUF
Total/NA	Analysis	7470A		1	27190	08/10/11 14:08	MM	TAL BUF

Client Sample ID: MW-2-080811

Lab Sample ID: 480-8252-8

Date Collected: 08/08/11 14:14

Matrix: Water

Date Received: 08/08/11 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	26944	08/10/11 18:20	DC	TAL BUF
Total/NA	Prep	3510C			27041	08/10/11 18:58	LT	TAL BUF
Total/NA	Analysis	608		1	27110	08/11/11 15:03	JM	TAL BUF

Lab Chronicle

Client: Ontario Specialty Contracting, Inc.
Project/Site: 30130 - Honeywell- Alltift LF

TestAmerica Job ID: 480-8252-1

Client Sample ID: MW-2-080811

Lab Sample ID: 480-8252-8

Date Collected: 08/08/11 14:14

Matrix: Water

Date Received: 08/08/11 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			27040	08/10/11 18:21	LT	TAL BUF
Total/NA	Analysis	8081A		1	27392	08/13/11 02:50	DB	TAL BUF
Total/NA	Prep	3005A			26836	08/10/11 08:10	JM	TAL BUF
Total/NA	Analysis	6010B		1	27099	08/10/11 16:15	AH	TAL BUF
Total/NA	Prep	3020A			26896	08/10/11 08:30	JM	TAL BUF
Total/NA	Analysis	6020		1	27171	08/11/11 12:01	JRK	TAL BUF
Total/NA	Prep	7470A			26916	08/10/11 10:10	MM	TAL BUF
Total/NA	Analysis	7470A		1	27190	08/10/11 14:09	MM	TAL BUF

Client Sample ID: MW-2-080911

Lab Sample ID: 480-8252-9

Date Collected: 08/09/11 08:47

Matrix: Water

Date Received: 08/08/11 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			27009	08/10/11 16:08	LT	TAL BUF
Total/NA	Analysis	8270C		1	27082	08/11/11 17:47	MP	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: 30130 - Honeywell- Alltift LF

TestAmerica Job ID: 480-8252-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas	State Program	6	88-0686
TestAmerica Buffalo	California	NELAC	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAC	4	E87672
TestAmerica Buffalo	Georgia	Georgia EPD	4	N/A
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Illinois	NELAC	5	100325 / 200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAC	7	E-10187
TestAmerica Buffalo	Kentucky	Kentucky UST	4	30
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Louisiana	NELAC	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY0044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAC	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAC	1	68-00281
TestAmerica Buffalo	New Hampshire	NELAC	1	2337
TestAmerica Buffalo	New Jersey	NELAC	2	NY455
TestAmerica Buffalo	New York	NELAC	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAC	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAC	3	68-00281
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAC	6	T104704412-08-TX
TestAmerica Buffalo	USDA	USDA		P330-08-00242
TestAmerica Buffalo	Virginia	State Program	3	278
TestAmerica Buffalo	Washington	State Program	10	C1677
TestAmerica Buffalo	West Virginia	West Virginia DEP	3	252
TestAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: 30130 - Honeywell- Alltift LF

TestAmerica Job ID: 480-8252-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL BUF
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
608	Polychlorinated Biphenyls (PCBs) (GC)	40CFR136A	TAL BUF
8081A	Organochlorine Pesticides (GC)	SW846	TAL BUF
6010B	Metals (ICP)	SW846	TAL BUF
6020	Metals (ICP/MS)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: 30130 - Honeywell- Alltift LF

TestAmerica Job ID: 480-8252-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-8252-1	Sump 1-080811	Water	08/08/11 10:38	08/08/11 17:55
480-8252-2	Sump 2-080811	Water	08/08/11 11:10	08/08/11 17:55
480-8252-3	Sump 3-080811	Water	08/08/11 11:38	08/08/11 17:55
480-8252-4	Sump 4-080811	Water	08/08/11 12:08	08/08/11 17:55
480-8252-5	Sump Comp-080811	Water	08/08/11 12:59	08/08/11 17:55
480-8252-6	TRIP BLANK	Water	08/08/11 14:00	08/08/11 17:55
480-8252-7	FDUP-Sump 4-080811	Water	08/08/11 12:23	08/08/11 17:55
480-8252-8	MW-2-080811	Water	08/08/11 14:14	08/08/11 17:55
480-8252-9	MW-2-080911	Water	08/09/11 08:47	08/08/11 17:55

Chain of Custody Record

TestAmerica

Client Information	Sampler	Lab PM: Bogolin, Anthony	Carrier Tracking No(s):	COC No: 480-15491-3542.1
Client Contact: John Formoza	Phone:	E-Mail: tony.bogolin@testamericainc.com		Page: Page 1 of 2
Company: Honeywell International Inc		Analysis Requested		Job #:
Address: Remediation & Evaluation Services, Mey-3	Due Date Requested:			Preservation Codes:
City: Morristown	TAT Requested (days):			A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - ph 4-5; Z - other (specify)
State, Zip: NJ, 07962				
Phone	PO #: Purchase Order Requested			
Email: John.Formoza@CH2M.com	WO #:			
Project Name: Honeywell - Buffalo Sites/ Event Desc: Honeywell Allift GW Mon	Project #: 48003159			Other:
Site: New York	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8010B, 8020, 7470A	608_PCB - Priority Pollutant PCBs	8081A - (MOD) Pesticides	8270C - (MOD) Semi-volatiles	8260B - (MOD) Volatiles										Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	N	N	N	A											
Sump Comp-080511	8/8/11		C	Water	N	N	1	2	2	2											7	
Sump 1-080811	8/8/11		G	Water	N	N					3										3	
Sump 2-080811	8/8/11		G	Water	N	N					3										3	
Sump 3-080811	8/8/11		G	Water	N	N					3										3	
Sump 4-080811	8/8/11		G	Water	N		1	2	2	2	3										10	
FDUP-Sump 4-080811	8/8/11		G	Water	N	N	1	2	2	2	3										10	
Sump 4-080811_MS	8/8/11		G	Water	N	Y	1	2	2	2	3										10	
Sump 4-080811_SD	8/8/11		G	Water	N	Y	1	2	2	2	3										10	
TRIP BLANK	8/8/11		G	Water	N	N					1										1	
MW-2-080811	8/8/11		G	Water	N	N	1	1	1		3										6	
				Water																		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks

Chain of Custody Record

TestAmerica

Client Information	Sampler	Lab PM: Bogolin, Anthony	Carrier Tracking No(s)	COC No: 480-15401-3542 2
Client Contact: John Formoza	Phone:	E-Mail: tony.bogolin@testamericainc.com		Page: Page 2 of 2
Company: Honeywell International Inc				Job #:
Address: Remediation & Evaluation Services; Mey-3	Due Date Requested:			
City: Morristown	TAT Requested (days):			
State, Zip: NJ, 07962				
Phone:	PO #: Purchase Order Requested			
Email: John.Formoza@CH2M.com	WO #:			
Project Name: Honeywell - Buffalo Sites/ Event Desc: Honeywell Airlift GW Mon	Project #: 48003159			
Site: New York	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010B, 6020, 7470A	608_PCB - Priority Pollutant PCBs	8081A - (HOD) Pesticides	8270C - (MOD) Semi-volatiles	8260B - (HOD) Volatiles												Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	D	N	N	N	A												X	
MW-2-080911	8/9/11		G	Water	N	N		1	1	2													4	

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date:	Time:	Method of Shipment
Relinquished by: Jeff Hayes	Date/Time: 8/9/11 1750	Company	Received by:	Date/Time: 8/9/11 1755	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks

Login Sample Receipt Checklist

Client: Ontario Specialty Contracting, Inc.

Job Number: 480-8252-1

Login Number: 8252

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	No: No sample date and/or time on COC, logged in per container labels.
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	CH2M HILL OMI
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

APPENDIX G

SITE INSPECTION FORMS

Site Inspection Form

Site Name: Alltift
Project Number: 30130
Date: 3/28/11

Weather: Sunny 35 degrees
Assessment by: Scott Sayles

Yes	No	N/A	
			A. Security
☒	☐	☐	1. Does fence exist? _____
☐	☒	☐	2. Is there a breach in fence? _____
☒	☐	☐	3. Locks on gate? _____
☒	☐	☐	4. Posted signs? _____
☐	☒	☐	5. Signs of trespassers/vandalism? _____
			6. Other _____
			B. General Site Conditions
☐	☒	☐	1. Vegetation stress? _____
☐	☒	☐	2. Mowing required? _____
☒	☐	☐	3. Access road drivable? _____
☐	☒	☐	4. Odors? _____
			5. Other _____
			C. Cap Inspection
☐	☒	☐	1. Exposed waste? _____
☒	☐	☐	2. Side slope stable? _____
☐	☒	☐	3. Erosion? _____
☐	☒	☐	4. Leachate seeps (discolored vegetation)? _____
☐	☒	☐	5. Synthetic liner exposed? _____
☐	☒	☐	6. Bare spots? _____
☐	☒	☐	7. Presence of burrowing animals? _____
☐	☒	☐	8. Deep rooted vegetation? _____
☐	☒	☐	9. Cracking? _____
☐	☒	☐	10. Ponding water? _____
☐	☒	☐	11. Evidence of methane seeps? _____
			12. Other _____
			D. Surface Water
☐	☒	☐	1. Obstruction of flow ditches? _____
☐	☒	☐	2. Erosion of ditches? _____
☒	☐	☐	3. Silt & erosion control? _____
☒	☐	☐	4. Culverts in good condition? _____
☐	☒	☐	5. Evidence of overflow or uncontrolled flow? _____
☒	☐	☐	6. Outfalls in good condition? _____
☐	☐	☒	7. Sedimentation basin/ponds secure? _____
			8. Other _____
			E. Methane Gas Control
☒	☐	☐	1. Does one exist? _____

Site Inspection Form

Yes	No	N/A	
☐	☐	☐	2. Is system active or passive? active
☐	☒	☐	3. Permanent methane gas probes? _____
☒	☐	☐	4. Locks on monitoring wells? _____
☒	☐	☐	5. Vents in working order? _____
☒	☐	☐	6. Well seals in place? _____
☒	☐	☐	7. Methane levels within LEL limits? _____
☒	☐	☐	8. Monitoring reports current? _____
			9. Other _____

F. Leachate Collection System

☒	☐	☐	1. Does one exist? _____
			2. Collection method:
☒	☐	☐	a. Sump? 2
☐	☐	☒	b. Well point? _____
☐	☐	☒	c. Earthen basin/pond? _____
☐	☐	☒	d. Structure secured? _____
			e. Other _____
			3. Pumping system:
☒	☐	☐	a. Automatic? _____
☒	☐	☐	b. Manual? _____
☒	☐	☐	c. Mechanically operable? _____
☐	☒	☐	d. Leaks/failures? _____
			4. Disposals:
☐	☐	☒	a. Onsite pretreatment/treatment? _____
☐	☐	☒	b. Surface discharge? (NPDES/SPDES) _____
☒	☐	☐	c. POTW – hardpiped? _____
☐	☐	☒	d. Quick disconnect caps in place? _____
			5. Transportation (if any):
☐	☐	☒	a. Chemicals? _____
☐	☐	☒	b. Filter cake? _____
☒	☐	☐	6. Ancillary equipment in good condition? (Pipes, valves, pumps, vaults, instruments and etc.) _____
☐	☐	☒	7. Monitoring reports current? _____
			8. Other _____

G. Groundwater Monitoring & Recovery Wells (if any)

☒	☐	☐	1. Locks on wells? _____
☒	☐	☐	2. Wells in good condition? _____
☒	☐	☐	3. Well seals in good condition? _____
☒	☐	☐	4. Access to wells? _____
☒	☐	☐	5. Monitoring reports current? _____
			6. Other _____

Site Inspection Form

Yes	No	N/A	
☐	☐	☒	**H. Treatment Plant**
☐	☐	☒	1. Building in good condition? (Doors, windows, wells, roof) _____
☐	☐	☒	2. Visual tank inspection performed? _____
☐	☐	☒	3. Visual inspection of pipes, valves, fittings etc.? _____
☐	☐	☒	4. Pump operation/inspection performed? _____
☐	☐	☒	5. Instruments operation/calibration? _____
☐	☐	☒	6. Mixer operation/inspection? _____
☐	☐	☒	7. Proper personal protection equipment? _____
☐	☐	☒	8. Air compressor system functioning properly? _____
☐	☐	☒	9. Filter press inspected? _____
☐	☐	☒	10. Emergency generator functioning properly? _____
			I. Polymeric Marine Mattress (PMM)
☐	☐	☒	1. Damage due to burrowing animals? _____
☐	☐	☒	2. Damage due ice and/or ice flowages? _____
☐	☐	☒	3. Impacts or damage due to the periodic dredging of the Buffalo River? _____
☐	☐	☒	4. Impacts or damage due to navigation activities in the Buffalo River? _____
☐	☐	☒	5. Establishment of woody plant growth causing displacement or stress on the system? _____
☐	☐	☒	6. Areas of settlement or displacement of the system? _____
☐	☐	☒	7. Erosion at the upstream and downstream limits of the system? _____
☐	☐	☒	8. Damage to the stone infill adjacent to Outfall #006 and the concrete wall/sheet pile along the upstream limit of the system? _____
☐	☐	☒	9. Damage to the stone infill within the marine mattresses? _____
☐	☐	☒	10. Damage to the general integrity of the system (Look for splits, cuts and gaps)? _____

J. General Comments

DEC UNABLE TO ATTEND INSPECTION

CH2MHILL

Site Inspection Form

Site Name: Alltift
Project Number: 30130
Date: 6/23/11

Weather: Sunny 71 degrees
Assessment by: Scott Sayles

Yes	No	N/A	
			A. Security
☒	☐	☐	1. Does fence exist?
☐	☒	☐	2. Is there a breach in fence?
☒	☐	☐	3. Locks on gate?
☒	☐	☐	4. Posted signs?
☐	☒	☐	5. Signs of trespassers/vandalism?
			6. Other
			B. General Site Conditions
☐	☒	☐	1. Vegetation stress?
☐	☒	☐	2. Mowing required?
☒	☐	☐	3. Access road drivable?
☐	☒	☐	4. Odors?
			5. Other
			C. Cap Inspection
☐	☒	☐	1. Exposed waste?
☒	☐	☐	2. Side slope stable?
☐	☒	☐	3. Erosion?
☐	☒	☐	4. Leachate seeps (discolored vegetation)?
☐	☒	☐	5. Synthetic liner exposed?
☐	☒	☐	6. Bare spots?
☐	☒	☐	7. Presence of burrowing animals?
☐	☒	☐	8. Deep rooted vegetation?
☐	☒	☐	9. Cracking?
☐	☒	☐	10. Ponding water?
☐	☒	☐	11. Evidence of methane seeps?
			12. Other
			D. Surface Water
☐	☒	☐	1. Obstruction of flow ditches?
☐	☒	☐	2. Erosion of ditches?
☐	☐	☒	3. Silt & erosion control?
☒	☐	☐	4. Culverts in good condition?
☐	☒	☐	5. Evidence of overflow or uncontrolled flow?
☐	☒	☐	6. Outfalls in good condition? NEW OUTFALL NEEDS TO BE cleared
☐	☐	☒	7. Sedimentation basin/ponds secure?
			8. Other
			E. Methane Gas Control
☒	☐	☐	1. Does one exist?

Site Inspection Form

Yes	No	N/A	
☐	☐	☐	2. Is system active or passive? active
☐	☒	☐	3. Permanent methane gas probes? ____
☐	☐	☒	4. Locks on monitoring wells? ____
☒	☐	☐	5. Vents in working order? ____
☐	☐	☒	6. Well seals in place? ____
☒	☐	☐	7. Methane levels within LEL limits? ____
☒	☐	☐	8. Monitoring reports current? ____
			9. Other ____

Ground water Collection

~~F. Leachate Collection System~~

☒	☐	☐	1. Does one exist? ____
			2. Collection method:
☒	☐	☐	a. Sump? 2
☐	☐	☒	b. Well point? ____
☐	☐	☒	c. Earthen basin/pond? ____
☐	☐	☒	d. Structure secured? ____
			e. Other ____
			3. Pumping system:
☒	☐	☐	a. Automatic? ____
☒	☐	☐	b. Manual? ____
☒	☐	☐	c. Mechanically operable? ____
☐	☒	☐	d. Leaks/failures? ____
			4. Disposals:
☐	☒	☐	a. Onsite pretreatment/treatment? ____
☐	☒	☐	b. Surface discharge? (NPDES/SPDES) ____
☒	☒	☐	c. POTW – hardpiped? ____
☐	☐	☒	d. Quick disconnect caps in place? ____
			5. Transportation (if any):
☐	☐	☒	a. Chemicals? ____
☐	☐	☒	b. Filter cake? ____
☒	☐	☐	6. Ancillary equipment in good condition? (Pipes, valves, pumps, vaults, instruments and etc.) ____
☒	☐	☐	7. Monitoring reports current? ____
			8. Other ____

G. Groundwater Monitoring & Recovery Wells (if any)

☒	☐	☐	1. Locks on wells? ____
☒	☐	☐	2. Wells in good condition? ____
☒	☐	☐	3. Well seals in good condition? ____
☒	☐	☐	4. Access to wells? ____
☒	☐	☐	5. Monitoring reports current? ____
			6. Other ____

CH2MHILL

Site Inspection Form

Yes	No	N/A	
			H. Treatment Plant
☐	☐	☒	1. Building in good condition? (Doors, windows, wells, roof) ____
☐	☐	☒	2. Visual tank inspection performed? ____
☐	☐	☒	3. Visual inspection of pipes, valves, fittings etc.? ____
☐	☐	☒	4. Pump operation/inspection performed? ____
☐	☐	☒	5. Instruments operation/calibration? ____
☐	☐	☒	6. Mixer operation/inspection? ____
☐	☐	☒	7. Proper personal protection equipment? ____
☐	☐	☒	8. Air compressor system functioning properly? ____
☐	☐	☒	9. Filter press inspected? ____
☐	☐	☒	10. Emergency generator functioning properly? ____
			I. Polymeric Marine Mattress (PMM)
☐	☐	☒	1. Damage due to burrowing animals? ____
☐	☐	☒	2. Damage due ice and/or ice flowages? ____
☐	☐	☒	3. Impacts or damage due to the periodic dredging of the Buffalo River? ____
☐	☐	☒	4. Impacts or damage due to navigation activities in the Buffalo River? ____
☐	☐	☒	5. Establishment of woody plant growth causing displacement or stress on the system? ____
☐	☐	☒	6. Areas of settlement or displacement of the system? ____
☐	☐	☒	7. Erosion at the upstream and downstream limits of the system? ____
☐	☐	☒	8. Damage to the stone infill adjacent to Outfall #006 and the concrete wall/sheet pile along the upstream limit of the system? ____
☐	☐	☒	9. Damage to the stone infill within the marine mattresses? ____
☐	☐	☒	10. Damage to the general integrity of the system (Look for splits, cuts and gaps)? ____

J. General Comments

____

Outlet to weir may be blocked 3" water @ top of weir

Presence of Japanese Knotweed along front fence needs to be eraticated.

Put up "NO TRESSPASS" signs.

Site Inspection Form

Site Name: Alltift
Project Number: 30130
Date: 09/23/11

Weather: Cloudy 71 degrees
Assessment by: Scott Sayles

Yes	No	N/A	
			A. Security
☒	☐	☐	1. Does fence exist? _____
☐	☒	☐	2. Is there a breach in fence? _____
☒	☐	☐	3. Locks on gate? _____
☒	☐	☐	4. Posted signs? _____
☐	☒	☐	5. Signs of trespassers/vandalism? _____
			6. Other _____
			B. General Site Conditions
☐	☒	☐	1. Vegetation stress? _____
☐	☒	☐	2. Mowing required? _____
☒	☐	☐	3. Access road drivable? _____
☐	☒	☐	4. Odors? _____
			5. Other _____
			C. Cap Inspection
☐	☒	☐	1. Exposed waste? _____
☒	☐	☐	2. Side slope stable? _____
☐	☒	☐	3. Erosion? _____
☐	☒	☐	4. Leachate seeps (discolored vegetation)? _____
☒	☐	☐	5. Synthetic liner exposed? _____
☐	☐	☐	6. Bare spots? _____
☒	☐	☐	7. Presence of burrowing animals? Trapper on site
☐	☒	☐	8. Deep rooted vegetation? _____
☐	☒	☐	9. Cracking? _____
☐	☒	☐	10. Ponding water? _____
☐	☒	☐	11. Evidence of methane seeps? _____
			12. Other _____
			D. Surface Water
☐	☒	☐	1. Obstruction of flow ditches? _____
☐	☒	☐	2. Erosion of ditches? _____
☐	☐	☒	3. Silt & erosion control? _____
☒	☐	☐	4. Culverts in good condition? _____
☐	☒	☐	5. Evidence of overflow or uncontrolled flow? _____
☐	☒	☐	6. Outfalls in good condition? Wier outfall needs to be cleared. Done
☐	☐	☒	7. Sedimentation basin/ponds secure? _____
			8. Other _____
			E. Methane Gas Control
☒	☐	☐	1. Does one exist? _____

Site Inspection Form

Yes	No	N/A	
☒	☐	☐	2. Is system active or passive? passive
☐	☒	☐	3. Permanent methane gas probes? _____
☐	☒	☐	4. Locks on monitoring wells? _____
☒	☐	☐	5. Vents in working order? _____
☒	☐	☐	6. Well seals in place? _____
☒	☐	☐	7. Methane levels within LEL limits? _____
☒	☐	☐	8. Monitoring reports current? _____
			9. Other _____

F. Leachate Collection System

☒	☐	☐	1. Does one exist? _____
			2. Collection method:
☒	☐	☐	a. Sump? 2
☐	☐	☒	b. Well point? _____
☐	☐	☒	c. Earthen basin/pond? _____
☐	☐	☒	d. Structure secured? _____
			e. Other _____
			3. Pumping system:
☒	☐	☐	a. Automatic? _____
☒	☐	☐	b. Manual? _____
☒	☐	☐	c. Mechanically operable? _____
☐	☒	☐	d. Leaks/failures? _____
			4. Disposals:
☐	☒	☐	a. Onsite pretreatment/treatment? _____
☐	☒	☐	b. Surface discharge? (NPDES/SPDES) _____
☒	☐	☐	c. POTW – hardpiped? _____
☐	☐	☒	d. Quick disconnect caps in place? _____
			5. Transportation (if any):
☐	☐	☒	a. Chemicals? _____
☐	☐	☒	b. Filter cake? _____
☒	☐	☐	6. Ancillary equipment in good condition? (Pipes, valves, pumps, vaults, instruments and etc.) _____
☒	☐	☐	7. Monitoring reports current? _____
			8. Other _____

G. Groundwater Monitoring & Recovery Wells (if any)

☒	☐	☐	1. Locks on wells? _____
☒	☐	☐	2. Wells in good condition? _____
☒	☐	☐	3. Well seals in good condition? _____
☒	☐	☐	4. Access to wells? _____
☒	☐	☐	5. Monitoring reports current? _____
			6. Other _____

Site Inspection Form

Yes	No	N/A	
			H. Treatment Plant
☐	☐	☒	1. Building in good condition? (Doors, windows, wells, roof) _____
☐	☐	☒	2. Visual tank inspection performed? _____
☐	☐	☒	3. Visual inspection of pipes, valves, fittings etc.? _____
☐	☐	☒	4. Pump operation/inspection performed? _____
☐	☐	☒	5. Instruments operation/calibration? _____
☐	☐	☒	6. Mixer operation/inspection? _____
☐	☐	☒	7. Proper personal protection equipment? _____
☐	☐	☒	8. Air compressor system functioning properly? _____
☐	☐	☒	9. Filter press inspected? _____
☐	☐	☒	10. Emergency generator functioning properly? _____
			I. Polymeric Marine Mattress (PMM)
☐	☐	☒	1. Damage due to burrowing animals? _____
☐	☐	☒	2. Damage due ice and/or ice flowages? _____
☐	☐	☒	3. Impacts or damage due to the periodic dredging of the Buffalo River? _____
☐	☐	☒	4. Impacts or damage due to navigation activities in the Buffalo River? _____
☐	☐	☒	5. Establishment of woody plant growth causing displacement or stress on the system? _____
☐	☐	☒	6. Areas of settlement or displacement of the system? _____
☐	☐	☒	7. Erosion at the upstream and downstream limits of the system? _____
☐	☐	☒	8. Damage to the stone infill adjacent to Outfall #006 and the concrete wall/sheet pile along the upstream limit of the system? _____
☐	☐	☒	9. Damage to the stone infill within the marine mattresses? _____
☐	☐	☒	10. Damage to the general integrity of the system (Look for splits, cuts and gaps)? _____

J. General Comments

None

Scott Sayles 9/25/11

Site Inspection Form

Site Name: Alltift
Project Number: 30130
Date: 11/30/11

Weather: Cloudy/Windy 37 degrees
Assessment by: John W. Formoza

Yes	No	N/A	
			A. Security
☒	☐	☐	1. Does fence exist? _____
☐	☒	☐	2. Is there a breach in fence? _____
☒	☐	☐	3. Locks on gate? _____
☒	☐	☐	4. Posted signs? _____
☐	☒	☐	5. Signs of trespassers/vandalism? _____
			6. Other _____
			B. General Site Conditions
☐	☒	☐	1. Vegetation stress? _____
☐	☒	☐	2. Mowing required? _____
☒	☐	☐	3. Access road drivable? _____
☐	☒	☐	4. Odors? _____
			5. Other _____
			C. Cap Inspection
☐	☒	☐	1. Exposed waste? _____
☒	☐	☐	2. Side slope stable? _____
☐	☒	☐	3. Erosion? _____
☐	☒	☐	4. Leachate seeps (discolored vegetation)? _____
☐	☒	☐	5. Synthetic liner exposed? _____
☐	☒	☐	6. Bare spots? _____
☐	☒	☐	7. Presence of burrowing animals? _____
☐	☒	☐	8. Deep rooted vegetation? _____
☐	☒	☐	9. Cracking? _____
☐	☒	☐	10. Ponding water? _____
☐	☒	☐	11. Evidence of methane seeps? _____
			12. Other _____
			D. Surface Water
☐	☒	☐	1. Obstruction of flow ditches? _____
☐	☒	☐	2. Erosion of ditches? _____
☒	☐	☐	3. Silt & erosion control? _____
☒	☐	☐	4. Culverts in good condition? _____
☐	☒	☐	5. Evidence of overflow or uncontrolled flow? _____
☒	☐	☐	6. Outfalls in good condition? _____
☐	☐	☒	7. Sedimentation basin/ponds secure? _____
			8. Other _____
			E. Methane Gas Control
☒	☐	☐	1. Does one exist? _____

Site Inspection Form

Yes	No	N/A	
☒	☐	☐	2. Is system active or passive? passive
☐	☒	☐	3. Permanent methane gas probes? _____
☒	☐	☐	4. Locks on monitoring wells? _____
☒	☐	☐	5. Vents in working order? _____
☒	☐	☐	6. Well seals in place? _____
☒	☐	☐	7. Methane levels within LEL limits? Readings taken November 22, 2011
☒	☐	☐	8. Monitoring reports current?
			9. Other _____

F. Leachate Collection System

☒	☐	☐	1. Does one exist? _____
			2. Collection method:
☒	☐	☐	a. Sump? 2
☐	☐	☒	b. Well point? _____
☐	☐	☒	c. Earthen basin/pond? _____
☐	☐	☒	d. Structure secured? _____
			e. Other _____
			3. Pumping system:
☒	☐	☐	a. Automatic? _____
☐	☒	☐	b. Manual? _____
☒	☐	☐	c. Mechanically operable? _____
☐	☒	☐	d. Leaks/failures? _____
			4. Disposals:
☐	☐	☒	a. Onsite pretreatment/treatment? _____
☐	☐	☒	b. Surface discharge? (NPDES/SPDES) _____
☐	☐	☒	c. POTW – hardpiped? _____
☐	☐	☒	d. Quick disconnect caps in place? _____
			5. Transportation (if any):
☐	☐	☒	a. Chemicals? _____
☐	☐	☒	b. Filter cake? _____
☒	☐	☐	6. Ancillary equipment in good condition? (Pipes, valves, pumps, vaults, instruments and etc.) _____
☒	☐	☐	7. Monitoring reports current? _____
			8. Other _____

G. Groundwater Monitoring & Recovery Wells (if any)

☒	☐	☐	1. Locks on wells? Replaced 2 locks
☒	☐	☐	2. Wells in good condition? _____
☒	☐	☐	3. Well seals in good condition? _____
☒	☐	☐	4. Access to wells? _____
☒	☐	☐	5. Monitoring reports current? _____
			6. Other _____

Site Inspection Form

Yes	No	N/A	
☐	☐	☒	**H. Treatment Plant**
☐	☐	☒	1. Building in good condition? (Doors, windows, wells, roof) _____
☐	☐	☒	2. Visual tank inspection performed? _____
☐	☐	☒	3. Visual inspection of pipes, valves, fittings etc.? _____
☐	☐	☒	4. Pump operation/inspection performed? _____
☐	☐	☒	5. Instruments operation/calibration? _____
☐	☐	☒	6. Mixer operation/inspection? _____
☐	☐	☒	7. Proper personal protection equipment? _____
☐	☐	☒	8. Air compressor system functioning properly? _____
☐	☐	☒	9. Filter press inspected? _____
☐	☐	☒	10. Emergency generator functioning properly? _____
			I. Polymeric Marine Mattress (PMM)
☐	☐	☒	1. Damage due to burrowing animals? _____
☐	☐	☒	2. Damage due ice and/or ice flowages? _____
☐	☐	☒	3. Impacts or damage due to the periodic dredging of the Buffalo River? _____
☐	☐	☒	4. Impacts or damage due to navigation activities in the Buffalo River? _____
☐	☐	☒	5. Establishment of woody plant growth causing displacement or stress on the system? _____
☐	☐	☒	6. Areas of settlement or displacement of the system? _____
☐	☐	☒	7. Erosion at the upstream and downstream limits of the system? _____
☐	☐	☒	8. Damage to the stone infill adjacent to Outfall #006 and the concrete wall/sheet pile along the upstream limit of the system? _____
☐	☐	☒	9. Damage to the stone infill within the marine mattresses? _____
☐	☐	☒	10. Damage to the general integrity of the system (Look for splits, cuts and gaps)? _____

J. General Comments

John W. Formoza met Mr. Dave Syrmanske from the NYSDEC at Alltift on November 30, 2011 at 10:30 am. We walked the site and he took numerous pictures of the most recent phragmitie control effort. Mr Syrmanske expressed interest in coming to the site during the next mowing of the phragmities. The only comment that he had was to remove some woody plants along the fence on the north side of the landfill. The quaterly inspection took approximately 1 hour.