



engineering and constructing a better tomorrow

May 18, 2015

Mr. David Szymanski,
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 9
270 Michigan Avenue
Buffalo, New York 14203-2915

Subject: 2014/2015 Periodic Review Report
Alltift Landfill Site
Site Nos. 9-15-054

Dear Mr. Szymanski:

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 deed restrictions. A report titled "2014/2015 Annual Operations, Maintenance, and Monitoring Report, Alltift Landfill Site" (OM&M Report), is included herein as Attachment B. The remainder of this document follows the outline presented in the Site Management Periodic Review Report and IC/EC Certification Submittal reminder notice letter dated March 9, 2015.

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
- 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).

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 the 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.

On April 5, 2013, the NYSDEC accepted and approved the Construction Certification Report and Operation, Maintenance, and Monitoring Plan for the Alltift Landfill Site/Ramco Steel Site. The NYSDEC then re-classified the Alltift Landfill Site (NYSDEC Site No. 9-15-054) from Class 2 to Class 4, and de-listed the Ramco Steel Site (NYSDEC Site No. 9-15-046B).

During the 2014/2015 reporting period, the following routine OM&M activities were completed in accordance with the Operations, Maintenance, and Monitoring Manual, prepared by Parson Engineers, 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 were within the BSA permit limits.
- C. Compliance: The OM&M activities conducted during the reporting period were performed in accordance with the OM&M Manual, as described in the attached OM&M Report.
- D. Recommendations: Implementation of the activities specified in the OM&M Manual will continue, 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 trench 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.

- 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 that include monitoring of landfill vegetation, ground inspections, and visual checks for evidence of erosion or subsidence are conducted. Resulting observations 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 surface drainage and

groundwater collection systems is 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. The contour maps indicate that groundwater at the site is being routed to the groundwater collection trench as designed (see quarterly groundwater contour maps included as Appendix E in the attached OM&M Report).

- Ensuring that the wetlands area is successfully functioning as designed: In its letter addressed to Honeywell, dated October 24, 2012, the USACE indicated that the terms and conditions of Permit No. 98-976-0162(0) had been met and no further actions were required.

- IV. IC/EC Plan Compliance Report – An IC/EC Plan was submitted to the NYSDEC on December 13, 2012. The IC/EC Plan has been adopted, and discussion of the status of institutional controls is included in this PRR. The status of site engineering controls is discussed in the attached OM&M Report.
- 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 surface drainage and groundwater collection systems).

- B. Summary of OM&M Completed During Reporting Period: BSA discharge monitoring, groundwater monitoring, quarterly site inspections, and other OM&M activities were completed in accordance with the OM&M Manual. The following summarizes the activities completed:
- BSA discharge monitoring was conducted on a semi-annual basis in accordance with the BPDES Permit in effect (Permit #09-10-BU098), as modified by BSA's letter dated July 24, 2013. Collected samples were submitted to TestAmerica Laboratories of Amherst, New York for analyses of the required parameters. Honeywell's OM&M Contractor - CH2M Hill (formerly CH2M Hill-OM) - 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.
 - Groundwater levels for site piezometers, wells and groundwater collection trench sumps were recorded on a quarterly basis. The annual groundwater sampling event was completed in September 2014 and included collection of aqueous samples from background monitoring well MW-2 and 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.
 - Quarterly site inspections were conducted as outlined in the OM&M Manual.
 - Routine and non-routine maintenance activities completed during the reporting period included the following:
 - Periodic inspection and cleaning of the lift station flow meter
 - Plowing of snow from the entrance road as necessary
 - Cleared blockage between Sumps #1 and #2 and replaced clean out covers on May 21, 2014
 - Conducted additional cleaning of collection piping and installed Fernco fittings (each double clamped) on clean out covers the week of May 26, 2014
 - Conducted cleanout of sediment from low lift station on June 3, 2014
 - Conducted cleaning of collection piping on July 24, 2014
 - Completed annual landfill cap mowing on October 6, 2014
 - Changed the control board on Sump #2 on October 30, 2014
- C. Evaluation of Remedial Systems: During the reporting period, 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 reporting period:
 - Based on the results of the quarterly inspection reports, which verify that the integrity of the cap is satisfactory and vegetation is established, the remedy remains protective in its ability to eliminate the potential 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 eliminating the potential for impacted groundwater to discharge to the adjacent wetlands.
 - Based on the analytical results from BSA discharge monitoring, concentrations of effluent parameters are within the BSA permit limits.

The following recommendations were developed based on the data collected during the reporting period:

- BSA Discharge Monitoring – In accordance with the current BSA permit, discharge monitoring will be conducted on a semi-annual basis, with reports issued to BSA and copied to the NYSDEC.
- Groundwater Monitoring – Annual groundwater monitoring will be completed in 2015 with groundwater monitoring results reported in the next annual PRR submittal.
- Water Level Measurements – Collection of water level measurements will be conducted on a quarterly basis.
- Landfill Gas Monitoring – Landfill gas monitoring will continue on an annual basis.
- Surface Water Level Measurements – in conjunction with the site inspections, surface water level measurements will continue to be collected 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.
- Routine OM&M activities will continue on a monthly basis, or more frequently as needed based upon results of site inspections or to respond to groundwater collection system autodialer callouts.
- The next PRR submittal, to include the annual OM&M report, should be completed and submitted to NYSDEC by the end of May 2016.

VII. Overall PRR Conclusions

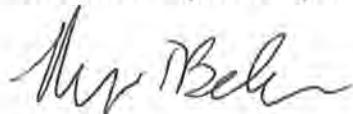
- A. Compliance: Activities were completed during the reporting period as noted above.
- B. Performance and Effectiveness of the Remedy: The condition of the cap system and consistent groundwater flow into the groundwater collection trench indicate that the remedy is performing effectively.
- C. Future PRR submittals: It is anticipated that the next PRR will be submitted by the end of May 2016.

Closing

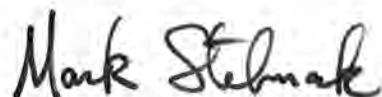
Please contact Ryan Belcher at (207) 828-3530 with any questions or comments on this submittal.

Respectfully,

MACTEC Engineering and Consulting P.C.



Ryan Belcher
Senior Engineer



Mark Stelmack, P.E.
Associate Engineer

Attachments

cc: M. Sweitzer (Honeywell)
D. Sutton (City of Buffalo)
K. Boland (CSX)

ATTACHMENT A

PRR NOTICE

IC/EC CONTROLS CERTIFICATION FORM



Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



Site No. 915054

Site Details

Box 1

Site Name Alltift Landfill

Site Address: 302 Abby Street Zip Code: 14202
City/Town: Buffalo
County: Erie
Site Acreage: 37.8

Reporting Period: April 21, 2014 to April 21, 2015

YES NO

1. Is the information above correct?

If NO, include handwritten above or on a separate sheet.

2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?

If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.

5. Is the site currently undergoing development?

Box 2

YES NO

6. Is the current site use consistent with the use(s) listed below?
Closed Landfill
7. Are all ICs/ECs in place and functioning as designed?

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

SITE NO. 915054

Box 3

Description of Institutional Controls		
Parcel	Owner	Institutional Control
132-12-1-22	CSX Transportation Inc. - Adrian Realty	Ground Water Use Restriction Landuse Restriction O&M Plan

A Declaration of Covenants and Restrictions was placed on this property by the owner on 08/05/2011(Filed 08/11/2011) as a requirement of the ROD dated 3/27/1995 for the Allift Landfill Site, Site #915054.

Deed Restriction - 106 Abby Street:

No activity that will prevent or interfere with ongoing remediation;
will not disturb cap or cover;
prohibition of any new use without Department waiver;
prohibit use of groundwater;
allow Department access;
no interference with maintenance of wetlands;
will not impede maintenance of water elevation control (headwall);
no interference with ECs and Institutional Controls (ICs);
declaration deemed covenant, runs with the land and binding on successors and assigns; and,
any deed of conveyance shall recite the covenants and restrictions.

132.12-1-21	City of Buffalo, Prefecting	Ground Water Use Restriction Site Management Plan IC/EC Plan Monitoring Plan Landuse Restriction O&M Plan
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In addition to the Engineering Controls in place after the remediation, this site is under the control of an Environmental Notice placed by the Department filed 3/12/2012.

Institutional Controls - Environmental Notice:

Property subject to provision of OM&M Manual;
no excavation that threatens engineering control(EC);
no disturbance of EC w/out Department waiver;
restrict re-use to commercial/industrial; and,
prohibit use of groundwater.

133.09-1-17	Skyway Auto Parts	Ground Water Use Restriction Landuse Restriction O&M Plan
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No Engineering controls are required on this site. A Declaration of Covenants and Restrictions was placed on this property by the owner on 2/15/2012(Filed 3/01/2012) as a requirement of the ROD.

Deed Restriction - 637 Tiff Street

No activity that will prevent or interfere with ongoing remediation;
provide 60 day notice of any change of use;
prohibit groundwater use;
allow access for Department;
declaration deemed covenant, runs with the land and binding on successors and assigns; and,
any deed of conveyance shall recite the covenants and restrictions.

Description of Engineering Controls

Box 4

<u>Parcel</u> 132.12-1-21	<u>Engineering Control</u> <u>Groundwater</u> <u>Leachate Collection</u> <u>Cover System</u> <u>Fencing/Access Control</u>
<u>Engineering Controls:</u> <u>Groundwater</u> Cover system - Part 360 composite cap <u>Leachate</u> collection trench and sump system Fencing around entire site	

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

- a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;
- b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

- (a) the Institutional Control and/or Engineering Control(s) 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) 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;
- (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and
- (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.

YES NO

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. 915054

Box 6

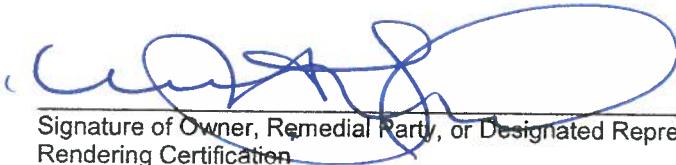
SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 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 Mark A. Sweitzer at HONEYWELL- 101 COLUMBIA RD MURRISTOWN, 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, Remedial Party, or Designated Representative
Rendering Certification

MAY 18, 2015
Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 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.

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

am certifying as a Professional Engineer for the Honeywell International, Inc.
(Owner or Remedial Party)



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

5-18-2015

ATTACHMENT B

2014/2015 ANNUAL OPERATIONS, MAINTENANCE,

AND MONITORING REPORT

2014/2015 ANNUAL OPERATIONS, MAINTENANCE, AND MONITORING REPORT

ALLTIFF LANDFILL SITE

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

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:

The MACTEC logo, which consists of a stylized green graphic followed by the word "MACTEC" in a bold, black, sans-serif font.

**MACTEC Engineering and Consulting, P.C.
511 Congress Street
Portland, Maine 04101**

May 2015

2014/2015 ANNUAL OPERATIONS, MAINTENANCE, AND MONITORING REPORT

ALLTIFF LANDFILL SITE

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

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

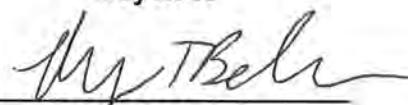
**Submitted By:
Honeywell
101 Columbia Road
Morristown, NJ 07962**

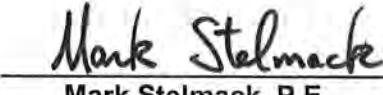
Prepared By:



**MACTEC Engineering and Consulting, P.C.
511 Congress Street
Portland, Maine 04101**

May 2015


**Ryan Belcher
Senior Engineer**


**Mark Stelmack
Mark Stelmack, P.E.
Associate Engineer**

Project Number: 3410120905

TABLE OF CONTENTS

1.0	INTRODUCTION	1-1
1.1	PROJECT BACKGROUND AND SITE DESCRIPTION	1-1
1.2	2014/2015 OM&M ACTIVITIES	1-2
2.0	SUMMARY OF 2014/2015 OM&M ACTIVITIES.....	2-1
2.1	BSA DISCHARGE MONITORING	2-1
2.2	GROUNDWATER MONITORING	2-1
2.2.1	Quarterly Water Level Measurements.....	2-1
2.2.2	Groundwater Sampling	2-1
2.3	LANDFILL GAS MONITORING	2-3
2.4	SITE INSPECTIONS	2-3
2.5	MAINTENANCE ACTIVITIES	2-3
2.5.1	May 2014 Groundwater Collection Trench Overflow Event	2-3
3.0	RESULTS OF 2014/2015 OM&M ACTIVITIES	3-1
3.1	BSA DISCHARGE MONITORING	3-1
3.2	GROUNDWATER MONITORING	3-1
3.2.1	Quarterly Water Level Measurements.....	3-1
3.2.2	Groundwater Sampling	3-1
3.3	SURFACE WATER MEASUREMENTS	3-2
3.4	LANDFILL GAS MONITORING	3-2
3.5	SITE INSPECTIONS	3-3
4.0	CONCLUSIONS AND RECOMMENDATIONS	4-1
5.0	REFERENCES	5-1

TABLES

- Table 1: Summary of Groundwater Analytical Results - 2014
Table 2: Landfill Gas Monitoring Data – 2013 Through 2015

APPENDICES

- A: Site Location and Current Conditions Site Plan Figures
- B: Semi-Annual Discharge Monitoring Reports
- C: Water Level Measurements
- D: Quarterly Groundwater Elevations
- E: Quarterly Groundwater Contour Maps
- F: Laboratory Analytical Reports
- G: Site Inspection Forms

ACRONYMS AND ABBREVIATIONS

BSA	Buffalo Sewer Authority
EPA	Environmental Protection Agency
Honeywell	Honeywell International Inc.
LEL	Lower Explosive Limit
µg/L	micrograms per liter
Mactec	Mactec Engineering and Consulting, P.C.
mg/L	milligrams per liter
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NYSDEC	New York State Department of Environmental Conservation
OM&M	Operations and maintenance Manual
SVOC	Semivolatile Organic Compound
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 International Inc. (Honeywell) (formerly Allied-Signal, Inc.) 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. MACTEC Engineering and Consulting, P.C. (Mactec), has prepared this report on behalf of Honeywell to document the results of the OM&M activities performed during the 2014/2015 reporting period. The activities described in this report were completed in accordance with the Operations, Maintenance, and Monitoring Manual (Parsons, 2006), as amended December 13, 2012.

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 April 21, 2014 through April 21, 2015. 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 May 2016.

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 LTV Steel (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).

On April 5, 2013, the NYSDEC accepted and approved the Construction Certification Report and Operation, Maintenance, and Monitoring Plan for the Alltift Landfill Site/Ramco Steel Site. The NYSDEC then re-classified the Alltift Landfill Site (NYSDEC Site No. 9-15-054) from Class 2 to Class 4, and de-listed the Ramco Steel Site (NYSDEC Site No. 9-15-046B).

1.2 2014/2015 OM&M Activities

OM&M activities conducted at the site during the reporting period 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 2014/2015 OM&M ACTIVITIES

Since September 2007, Honeywell has contracted with CH2M Hill (formerly CH2M HILL-OMI) to perform the OM&M activities at the site. In 2014, the annual groundwater sampling activities were also conducted by CH2M Hill. The following sections summarize the OM&M activities completed during the reporting period.

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 2014. The results of the sampling are discussed in Section 3.1.

2.2 Groundwater Monitoring

The groundwater monitoring activities conducted during the reporting period included the collection of quarterly 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 Quarterly Water Level Measurements

Water level measurements were collected on a quarterly basis from piezometers PZ-1 through PZ-13, piezometer PZ-15, and sumps 1 through 4, and annually from monitoring well MW-2, 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 September 9, 2014 CH2M Hill 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. 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 sums prior to sampling. A peristaltic pump with dedicated tubing was used to collect each sample. Grab samples were collected from each sum, and one composite sample was collected from the four sums 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.

The Sump 4 samples were collected in properly preserved vials for analysis of volatile organic compounds (VOCs); however, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible. The Sump 4 samples were re-collected on October 6, 2014 and results presented herein are for Sump 4 samples collected on this date.

The 2014 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	Environmental Protection Agency (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)
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

Annual landfill gas monitoring was completed basis by CH2M Hill at the three gas vents, the four corners of the landfill and from each of the sumps during the reporting period. The results of the monitoring are described in Section 3.4.

2.4 Site Inspections

Quarterly inspections were completed by CH2M Hill during the reporting period on June 3, 2014, August 21, 2014, October 6, 2014, and January 20, 2015. The inspections were conducted in accordance with the OM&M Manual. 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 CH2M Hill 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 reporting period:

- Periodic inspection and cleaning of the lift station flow meter
- Plowing of snow from the entrance road as necessary
- Cleared blockage between Sumps #1 and #2 and replaced clean out covers on May 21, 2014
- Conducted additional cleaning of collection piping and installed Fernco fittings (each double clamped) on clean out covers the week of May 26, 2014
- Conducted cleanout of sediment from low lift station on June 3, 2014
- Conducted cleaning of collection piping on July 24, 2014
- Completed annual landfill cap mowing on October 6, 2014
- Changed the control board on Sump #2 on October 30, 2014.

2.5.1 May 2014 Groundwater Collection Trench Overflow Event

On the afternoon of Tuesday May 20, 2014, David Szymanski (NYSDEC) contacted Honeywell and Mactec via email to communicate that the NYSDEC had observed the main fence gate to be wide open, no one onsite, and the groundwater control system overflowing along the cleanouts next to the gravel roadway. In response, CH2M Hill visited the site the following morning (May 21, 2014) and found that the chain used with the lock to secure the main gate had been cut. The first cleanout had no flow coming from it but iron staining was observed and overflow of the second cleanout was observed. CH2M Hill had last been on site May 5, 2014 and did not observe any issues with the system or site security at that time. It is also not believed that any high level alarm

condition for the collection system sumps ever occurred as no such autodialer callout was received. The system was shut down while further investigation was conducted. What was observed suggested that a blockage of the line resulted in a pressure build-up that caused the cleanout caps to come loose. Acid cleaning of the line was conducted in order to reduce the blockage. The system was then turned back on and observed to be operating properly.

In response to NYSDEC's request, the following samples were collected on May 22, 2014 and submitted to TestAmerica Laboratories for select VOCs analysis (1,2-dichlorobenzene, 1,4-dichlorobenzene, benzene, chlorobenzene, ethylbenzene, and total xylene). Sediment samples were collected using Terra-Core samplers.

1. SSA1 – Sediment sample from edge of the pond outside (upgradient) of the overflow
2. SSA2 – Sediment sample from edge of the pond in the area of the overflow
3. SW1 – surface water sample from the pond in the area of the overflow
4. Sump 1 (including Field duplicate)
5. Sump 2.

The sample locations are presented in Figure 2 provided in Appendix A. Results for sample locations SSA1, SSA2, and SW1 were non-detect. Chlorobenzene was detected in the sample collected from Sump 1 (and associated duplicate) at a concentration of 1.3 and 1.6 micrograms per liter, respectively. Benzene and Chlorobenzene were detected at a concentration of 4.9 (estimated) and 62 micrograms per liter ($\mu\text{g/L}$), respectively.

CH2M Hill conducted a cleaning of the entire length of the groundwater control system piping to the low-lift station on May 28, 2014. The resulting sediment was subsequently characterized, profiled as non-hazardous, and transported to an off-site disposal facility.

A root-cause analysis was completed, it was determined that the following factors contributed to the occurrence of this event:

1. The groundwater control system piping became blocked with iron sediment due to insufficient preventative maintenance to prevent build-up of iron sediment
2. Flow rates were higher than normal due to increased rainfall
3. Design flaw consisting of the installation of cleanout caps that are not pressure rated
4. Lack of understanding that cleanout caps were not pressure rated. The cleanouts were never inspected by current personnel; otherwise, caps held in place with rocks would have observed. The contractor had not previously experienced issues with line clogging or sump high level alarms, and iron solids generally discharge without restriction to the low lift station.

On the basis of the identified root causes, it is determined that the following corrective actions are required to address the root-cause of this incident and minimize to the extent practicable the potential for such an event to occur in the future:

1. Revise the preventative maintenance plan to include mechanical lancing of the collection lines on biennial (every two years) basis with re-evaluation of this frequency following the next event
2. Replace existing cleanout caps with caps sufficient to withstand the pressures generated in the collection lines due to a blockage
3. Continue periodic acid cleaning of the lines to prevent iron sediment buildup at a frequency of every two months
4. Revise inspection requirements to include annual inspection of the cleanouts.

These corrective actions have been implemented.

3.0 RESULTS OF 2014/2015 OM&M ACTIVITIES

As discussed previously, CH2M Hill completed the OM&M activities at the site and the annual groundwater sampling during the reporting period. The following sections summarize the results of CH2M Hill'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 CH2M HILL on a semi-annual basis during the reporting period. Samples collected were submitted to TestAmerica Laboratories of Amherst, New York for analyses of the required parameters. CH2M HILL prepared and submitted semi-annual discharge monitoring reports documenting 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 as required under the BSA discharge permit (Permit No. 12-12-BU98).

3.2 Groundwater Monitoring

Groundwater monitoring activities completed during the reporting period included collection of quarterly water level measurements and annual groundwater sampling. The results of these activities are described in the following subsections.

3.2.1 Quarterly Water Level Measurements

Groundwater levels in site piezometers, wells and groundwater collection trench sumps were recorded on a quarterly basis. A table presenting the quarterly water level measurements is included in Appendix C. A table presenting the corresponding quarterly groundwater elevations is included in Appendix D. The groundwater elevations were used to prepare the quarterly groundwater contour maps 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 during the reporting period in accordance with the OM&M Manual. The analytical laboratory reports are provided as Appendix F. It should be noted that the Sump 4 samples required re-sampling and analysis due to initial sample pH outside the required criteria when verified by the laboratory.

Analytical results for the groundwater sampling events conducted during the reporting period are summarized on Table 1. During the 2014 sampling event, concentrations of arsenic, iron, manganese, benzene, chlorobenzene, and 4-chloroaniline were detected in

one or more samples of the collection system at concentrations above the corresponding NYSDEC Class GA (groundwater) standard.

Arsenic was detected above the NYSDEC Class GA (groundwater) standard of 0.025 µg/L in the Sumps 1 through 4 composite sample at a concentration of 0.03 milligrams per liter (mg/L).

Iron was detected above the groundwater standard of 0.3 mg/L in the grab sample from Sump 4 and the Sumps 1 through 4 composite sample (25 and 34.5 mg/L, respectively).

Manganese was detected above the groundwater standard of 0.3 mg/L in the grab sample from Sump 4 and the Sumps 1 through 4 composite sample (2.3 and 2.2 mg/L, respectively).

Benzene was detected above the groundwater standard of 1 µg/L in the grab sample from Sump 2 at a concentration of 8 µg/L.

Chlorobenzene was detected above the groundwater standard of 5 µg/L in samples collected from Sumps 1, 2, and 4 (12, 140, and 23 µg/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. Concentrations of benzene and chlorobenzene were not detected in MW-2. No analytes detected in MW-2 exceeded groundwater standards.

The 2014 groundwater monitoring results are generally consistent with the results from prior groundwater monitoring events.

3.3 Surface Water Measurements

Surface water level measurements were collected 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. The water level at the weir was measured as follows:

- May 5, 2014 – measured at 1 inch above the weir.
- June 3, 2014 – measured at 5 inches below the weir.

3.4 Landfill gas monitoring

Landfill gas monitoring was conducted on March 12, 2015. During the event the gas vents (GV-1, GV-2 and GV-3), the four sump locations (Sump 1 through Sump 4), 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 landfill gas monitoring event, one percent of the LEL of methane gas was detected in all three monitoring gas vents GV-1, GV-2, and GV-3, all four ground monitoring locations, and all four sumps. The landfill gas monitoring data is summarized on Table 2. None of the detections require any action to be taken.

3.5 Site Inspections

Quarterly site inspections were performed by CH2M HILL on June 3, 2014, August 21, 2014, October 6, 2014, and January 20, 2015 during the reporting period. The inspections were conducted in accordance with the OM&M Manual. 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.

The 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 were verified during the inspections.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The following conclusions were developed based on the data collected during the 2014/2015 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 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 the 2014/2015 OM&M period:

- BSA Discharge Monitoring – in accordance with the current BSA permit (Permit No. 12-12-BU98, expires November 30, 2015), discharge monitoring will continue on a semi-annual basis, with reports issued to BSA and copied to the NYSDEC.
- Groundwater Monitoring – Annual groundwater monitoring will be completed in 2015 from the same monitoring points used during prior monitoring events. Groundwater monitoring results will be reported in the next annual PRR submittal.
- Water Level Measurements – Water level measurements will continue on a quarterly basis, to be collected from site monitoring wells, piezometers, and sumps, consistent with the requirements presented in Table 2.2 of the OM&M Manual. Collection of water level measurements will be conducted in conjunction with site inspections.
- Landfill Gas Monitoring – measurements of methane gas concentrations at gas vents GV-1, GV-2, GV-3, the four sump locations, and the four ground surface locations have been below the LEL since the third quarter of 2011. Consistent with the requirements set forth in the Operations, Maintenance, and Monitoring Manual, landfill gas monitoring will continue on an annual basis.
- 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.
- Routine OM&M activities will continue on an approximate monthly basis, or more frequently as needed.

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.

Parsons, 2006 (As Amended December 13, 2012). 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.

TABLES

TABLE 1
Summary of Groundwater Analytical Results - 2014
2014/2015 Annual OM&M Report
Alltift Landfill /Ramco Steel Site

Parameter Name	Units	NYSDEC Class GA Standards	MW-2-090914	Sump 1-090914	Sump 2-090914	Sump 3-090914	Sump 4-100614	FDUP-100614 (Sump 4)	Sump Comp-090914
			9/9/2014	9/9/2014	9/9/2014	9/9/2014	10/6/2014	10/6/2014	9/9/2014
Metals (Dissolved)									
ANTIMONY	mg/L	0.003	0.00016 J	-- --	-- --	-- --	0.0015	0.00067 J	0.0015
ARSENIC	mg/L	0.025	0.0018	-- --	-- --	-- --	0.0172	0.0142	0.0322
CADMIUM	mg/L	0.005	0.00011 J	-- --	-- --	-- --	0.00048 J	0.0003 J	0.00049 J
CHROMIUM	mg/L	0.05	0.001 J	-- --	-- --	-- --	0.01	0.0042	0.0072
IRON	mg/L	0.3	0.1	-- --	-- --	-- --	25 B	22.3 B	34.5
LEAD	mg/L	0.025	0.0042 J	-- --	-- --	-- --	0.0052	0.005 U	0.0045 J
MANGANESE	mg/L	0.3	0.15 B	-- --	-- --	-- --	2.3	2.2	2.2 B
MERCURY	mg/L	0.0007	0.0002 U	-- --	-- --	-- --	0.0002 U	0.0002 U	0.00020 U
VOCs									
BENZENE	ug/L	1	1.0 U	1.0 U	8.0	4.0 U	4.0 U	4.0 U	-- --
CHLOROBENZENE	ug/L	5	1.0 U	12	140	4.0 U	23	30	-- --
ETHYLBENZENE	ug/L	5	1.0 U	1.0 U	5.0 U	4.0 U	4.0 U	4.0 U	-- --
XYLENES, TOTAL	ug/L	5	2.0 U	2.0 U	10.0 U	8.0 U	8.0 U	8.0 U	-- --
1,2-DICHLOROBENZENE	ug/L	3	1.0 U	1.0 U	5.0 U	4.0 U	4.0 U	4.0 U	-- --
1,4-DICHLOROBENZENE	ug/L	3	1.0 U	1.0 U	5.0 U	4.0 U	4.0 U	4.0 U	-- --
SVOCs									
4-CHLOROANILINE	ug/L	5	4.6 U	-- --	-- --	-- --	4.7 U	4.6 U	8.1
NAPHTHALENE	ug/L	10	4.6 U	-- --	-- --	-- --	4.7 U	4.6 U	4.6 U

Note:

Bold - Detected during Laboratory Analysis

J - Analyte Detected Below Reporting Limit

B - Compound Was Found in the Blank and Sample

U - Analyte not detected

-- Not Analyzed

E - Analyzed using E624/E625 Method

Shading indicates exceedance of NYSDEC Class GA Standard

TABLE 2
Landfill Gas Monitoring Data - 2013 through 2015
2014/2015 Annual OM&M Report
Altift Landfill/Ramco Steel Site

Location:	First Quarter - 1/10/2013				Second Quarter - 5/21/2013				Third Quarter - 9/11/2013				Fourth Quarter - 10/24/2013				2014 - 3/18/2014				2015 - 3/12/2015			
	CH ₄	CO ₂	O ₂	LEL CH ₄	CH ₄	CO ₂	O ₂	LEL CH ₄	CH ₄	CO ₂	O ₂	LEL CH ₄	CH ₄	CO ₂	O ₂	LEL CH ₄	CH ₄	CO ₂	O ₂	LEL CH ₄	CH ₄	CO ₂	O ₂	LEL CH ₄
GV-1	0.1%	0.0%	21.4%	3.0%	0.0%	0.0%	20.3%	0.0%	0.0%	0.0%	20.9%	1.0%	0.0%	0.0%	21.1%	1.0%	0.1%	0.1%	19.1%	1.0%	0.0%	0.1%	21.7%	1.0%
GV-2	0.1%	0.0%	21.3%	3.0%	0.0%	0.0%	20.2%	1.0%	0.0%	0.0%	20.4%	2.0%	0.0%	0.1%	20.8%	2.0%	0.1%	0.1%	18.9%	2.0%	0.0%	0.1%	21.6%	1.0%
GV-3	0.1%	0.0%	21.2%	4.0%	0.0%	0.0%	20.2%	0.0%	0.0%	0.0%	16.7%	0.0%	0.0%	0.9%	20.1%	0.0%	0.1%	0.1%	19.2%	2.0%	0.1%	0.1%	21.9%	1.0%
Ground #1	0.2%	0.0%	21.5%	4.0%	0.1%	0.0%	20.4%	2.0%	0.1%	0.0%	20.4%	2.0%	0.0%	0.1%	20.9%	0.0%	0.3%	0.2%	18.5%	4.0%	0.0%	0.1%	20.8%	1.0%
Ground #2	0.2%	0.0%	21.3%	4.0%	0.1%	0.0%	20.3%	1.0%	0.0%	0.0%	20.6%	0.0%	0.0%	0.1%	20.9%	0.0%	0.2%	0.2%	18.7%	4.0%	0.0%	0.1%	21.8%	1.0%
Ground #3	0.2%	0.0%	21.3%	3.0%	0.0%	0.0%	20.3%	1.0%	0.0%	0.0%	20.4%	0.0%	0.0%	0.1%	20.8%	0.0%	0.2%	0.2%	18.6%	4.0%	0.0%	0.1%	21.7%	1.0%
Ground #4	0.2%	0.0%	21.3%	3.0%	0.0%	0.0%	20.3%	2.0%	0.0%	0.0%	20.7%	0.0%	0.0%	0.0%	21.0%	0.0%	0.0%	0.1%	19.6%	3.0%	0.0%	0.1%	21.8%	1.0%
Sump #1	0.2%	0.0%	21.4%	4.0%	0.0%	0.0%	20.4%	1.0%	0.0%	0.0%	21.2%	0.0%	0.0%	0.1%	20.9%	0.0%	0.0%	0.0%	20.4%	0.0%	0.1%	0.1%	20.9%	1.0%
Sump #2	0.2%	0.0%	21.3%	4.0%	0.2%	0.1%	20.2%	4.0%	0.7%	17.0%	0.6%	15.0%	0.0%	0.1%	20.8%	0.0%	0.2%	0.4%	18.7%	2.0%	0.0%	0.1%	21.4%	1.0%
Sump #3	0.2%	0.0%	21.2%	3.0%	0.1%	0.0%	20.3%	2.0%	0.0%	0.0%	20.4%	0.0%	0.0%	0.1%	20.9%	0.0%	0.1%	0.2%	18.9%	3.0%	0.0%	0.1%	21.8%	1.0%
Sump #4	0.1%	0.0%	21.1%	3.0%	0.0%	0.0%	20.3%	1.0%	0.1%	0.1%	19.9%	0.0%	0.0%	0.1%	20.8%	0.0%	0.2%	0.2%	18.7%	4.0%	0.0%	0.1%	21.8%	1.0%

Notes:

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

LEL - Lower Explosive Limit

CH₄ - Methane

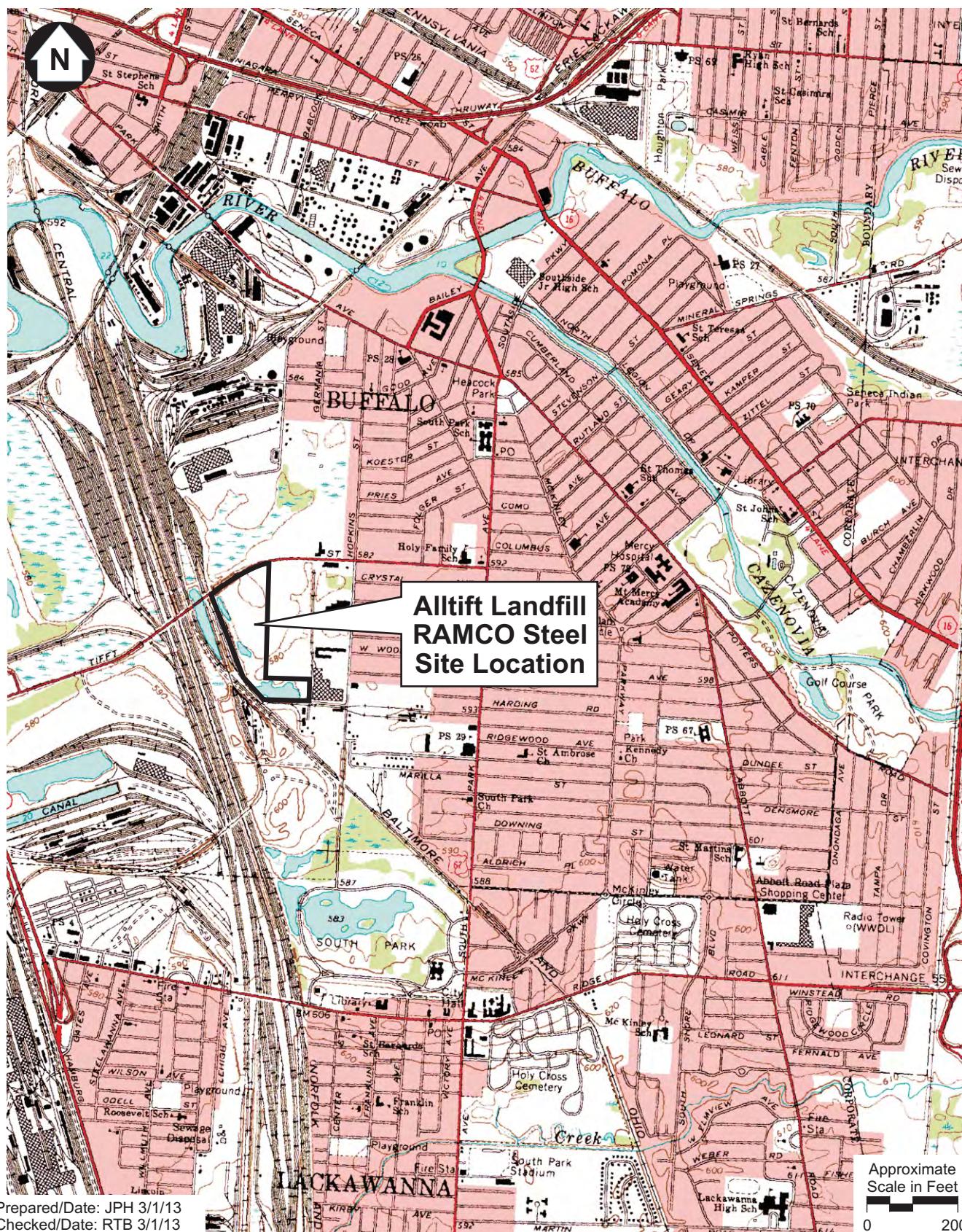
CO₂ - Carbon Dioxide

O₂ - Oxygen

Landfill Gas Monitoring Frequency revised, as approved, to Annual starting in 2014.

APPENDIX A

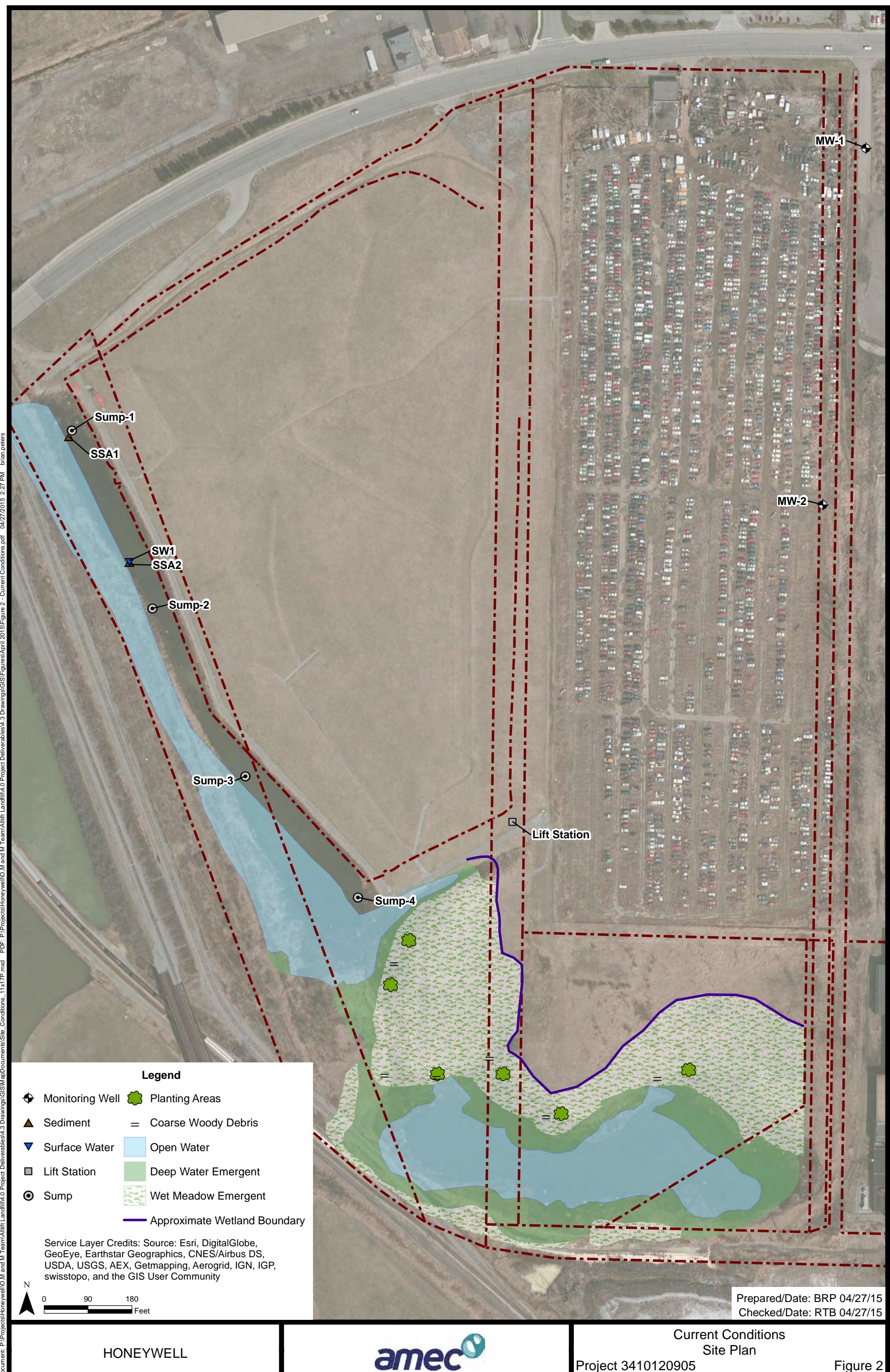
**SITE LOCATION AND CURRENT CONDITIONS SITE PLAN
FIGURES**



Honeywell

amec

Site Location Map
Allift Landfill/Ramco Steel Site
Project No. 3410120905
Figure 1



APPENDIX B

SEMI-ANNUAL DISCHARGE MONITORING REPORTS



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

April 29, 2014

Ms. Traserra Adams
Buffalo Sewer Authority
Industrial Waste Section
90 West Ferry Street
Buffalo, New York 14213

Subject: **Alltift Landfill/Ramco Steel Site
Discharge Monitoring Report
2014 First Semi-Annual Report
Permit Number 12-12-BU098**

Dear Ms. Adams:

Enclosed please find the 2014 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 3,344,778 gallons. The flow was measured from a totalizing meter within the lift station at the Alltift Site from September 9, 2013 through April 14, 2014 for a total of 217 days. Flow metering readings collected during the reporting period are included as Attachment 1.

A time composite discharge sample was collected from within the pump station on April 14, 2014. Four samples were collected over an evenly-spaced work day period for VOCs and SVOCs. The four samples were composited in the laboratory per BSA permit requirements. The sample for metals, total suspended solids, total phosphorus, and pH was collected as a composite sample. 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. The laboratory analytical report is provided as Attachment 2. If you have any questions or require additional information, please contact me at (315) 468-1663.

Sincerely,

CH2M HILL,

A handwritten signature in blue ink that reads "John W. Formoza".

John W. Formoza
Area Manager

QC Review By: Ryan Belcher (Amec Environment & Infrastructure)

cc.: Mr. Rich Galloway (Honeywell)
Mr. Maurice Moore (NYSDEC)
Mr. Dennis Sutton (City of Buffalo)
Mr. Dan Forlastro (Amec Environment & Infrastructure)

Table 1
Allift Landfill/Ramco Steel Site
First Semi-annual Report for 2014
Discharge Monitoring Report

BSA Permit No. 12-12-BU98	April 14, 2014
Sample Date:	
Sample Location:	Onsite Pump Station to BSA

BSA Permit Parameter	Input Analytical Results				Converted Analytical Results				BSA Daily Max Discharge Limit	Unit	Permit Compliance
	Quantity	Qualifier	Reporting Limit	Unit	Quantity	Unit	Quantity	Unit			
pH	7.55	HF	0.100	SU	7.55	SU	5.0 - 12.0	SU	Yes		
Benzene	11	J	50	µg/L	0.0014	lbs/day	0.068	lbs/day	Yes		
Chlorobenzene	71		50	µg/L	0.009	lbs/day	0.148	lbs/day	Yes		
4-Chloroaniline	11		5.0	µg/L	0.001	lbs/day	0.048	lbs/day	Yes		
Naphthalene	ND		5.0	µg/L	ND	lbs/day	0.048	lbs/day	Yes		
Arsenic	0.0099	J	0.010	mg/L	0.001	lbs/day	0.864	lbs/day	Yes		
Barium	0.26		0.002	mg/L	0.03	lbs/day	0.48	lbs/day	Yes		
Chromium	0.0075		0.004	mg/L	0.001	lbs/day	2.4	lbs/day	Yes		
Copper	0.021		0.010	mg/L	0.003	lbs/day	7.68	lbs/day	Yes		
Nickel	0.017		0.010	mg/L	0.0022	lbs/day	6.72	lbs/day	Yes		
Zinc	0.0340		0.010	mg/L	0.0044	lbs/day	12	lbs/day	Yes		
Total Suspended Solids	28		4.0	mg/L	28.0	mg/L	250	mg/L	Yes		
Total Phosphorus	0.081		0.010	mg/L							
USEPA Test Method 624	ND - 71			µg/L							
Total Flow (average)	10.70			gpm	15,414	gpd	57,600	gpd	Yes		

Notes:

J - estimated value below Reporting Limit/Practical Quantitation Limit
 HF - Field parameter
 gpm - gallons per minute

µg/L - micrograms per liter
 mg/L - milligrams per liter
 gpd - gallons per day

ND - Not detected at the reporting limit
 SU - Standard Unit

Flow Calculations	Meter
Initial Reading (pump station)	965900
Final Reading (pump station)	4310678
Total Days in Period	4/14/2014 217
Total Flow for Period	3,344,778
Average Flow for Period	10.70
	gallons gpm

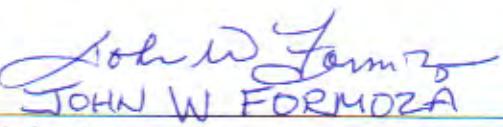
Attachment 1 - Flow Meter Readings

Buffalo Altift Lift Station	
Date	Totalizer Reading (gallons)
9/9/2013	965,900
9/24/2013	966,800
10/4/2013	1,156,700
10/24/2014	1,509,500
11/15/2013	1,852,800
1/15/2014	3,303,900
3/18/2014	3,822,800
3/26/2014	4,003,560
4/14/2014	4,310,678

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

(Your signature here)



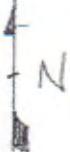
John W. Formoza
JOHN W. FORMOZA

4/29/14

Date

(Print your name & title here)

(Print your company name here) CH2MHILL ON BEHALF OF
HONEYWELL



TIFFT ST.

ALLTIFFT

LANDFILL

HOPKINS ST.

READING



PRETREATMENT BUILDING
S.P. 001



CH2MHILL

Project Name Honeywell - LCP Syracuse
 Job Number 481662.S5.RM.RS
 Field Team Patrick Higgins
 Field Conditions *Partly Cloudy, Breezy 68°F*

Sampling Event Semi Annual Sampling ALTiff

Date April 14th, 2014

Page ____ of ____

Well/Sample Number	BSA Discharge	Start Time	05:48	Finish Time				
Initial Depth to Water	9.44	Measure Point:	PVC	Steel Casing	Other: VAULT CONCRETE			
Purge Method:		Sample ID		Sample Time				
Geopump	Ded. Pump	Duplicate Sample ID		Dupl. Time				
Sample Method:	GRAB	Split Sample ID		Split. Time				
Depth to Bottom (from meas. pt):	13.0	Min. Purge Volume (gal)/(L)		Purge Rate (gpm)/(mLpm)				
Water Quality Parameter Measurement Technique: flow-thru cell in-situ open container								
Time	Vol. Purged gallons / liters	pH (+/-0.1)	Conductivity mS/cm (+/-3%)	Turbidity NTU (+/-10% if >10NTU)	Diss. Oxygen mg/L (+/-10%)	Temp. °C (+/-3%)	Eh / ORP mv +/-10 mV	DTW ft
05:50	7.39							944
06:00	GRAB 1 SAMPLE			2-VOA				
	GRAB 1 SAMPLC			2 - AMBER				
	- composite charbony							
06:00	GRAB 2 SAMPLE			2-VOA				
				2 - Amber				
06:00	GRAB 3 SAMPLE			2 - Amber				
				2 - VOA				
06:00	GRAB 4 SAMPLE			2 AMBER				
				2 VOA				
06:05	Composite SAMPLE							
SAMPLE COLLECTION INFORMATION								
Parameter	Type of Bottle	Volume	Field Filtered (y/n)	Preservative	pH	Notes		
Remarks: _____ _____								

Water Meter 431067B

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: 480-57908-1

Client Project/Site: 30130 - Alltift OM Phase / Semi Annual

Sampling Event: Honeywell - Alltift OM Phase (4,10)

For:

Honeywell International Inc

101 Columbia Road

Morristown, New Jersey 07962

Attn: Mr. Rich Galloway



Authorized for release by:

4/28/2014 9:30:42 AM

Rebecca Jones, Project Management Assistant I

rebecca.jones@testamericainc.com

Designee for

John Schove, Project Manager II

(716)504-9838

john.schove@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
Surrogate Summary	10
QC Sample Results	11
QC Association Summary	18
Lab Chronicle	20
Certification Summary	21
Method Summary	22
Sample Summary	23
Chain of Custody	24
Receipt Checklists	25

Definitions/Glossary

Client: Honeywell International Inc
Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-57908-1

Qualifiers

GC/MS 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/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.
*	ISTD response or retention time outside acceptable limits
*	LCS or LCSD exceeds the control limits

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.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Honeywell International Inc
Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-57908-1

Job ID: 480-57908-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-57908-1

Comments

No additional comments.

Receipt

The samples were received on 4/14/2014 5:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7° C.

GC/MS VOA

Method(s) 624: The following sample(s) was composited by the laboratory on 4/15/14 as requested on the chain-of-custody: Alltift Collection Sump - Grab (480-57908-7).

Method(s) 624: The following volatiles sample(s) was diluted due to foaming at the time of purging during the original sample analysis: Alltift Collection Sump - Grab (480-57908-7). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC/MS Semi VOA

Method(s) 625: The laboratory control sample (LCS) for preparation batch 176482 recovered outside control limits for the following analyte: Pyrene. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 625: Internal standard responses were outside of acceptance limits for the following sample: Alltift Collection Sump - Grab (480-57908-7). The sample shows evidence of matrix interference. There were no detections for any target analyte associated with the failing internal standard, therefore the data has been reported.

No other analytical or quality issues were noted.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method(s) 9040C, SM 4500 H+ B: The following sample(s) was received outside of holding time: Alltift Collection Sump - Comp (480-57908-6).

No other analytical or quality issues were noted.

Organic Prep

Method(s) 625: The following sample was composited by the laboratory on 4/17/14 as requested on the chain-of-custody: Alltift Collection Sump - Grab (480-57908-7).

No other analytical or quality issues were noted.

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Detection Summary

Client: Honeywell International Inc
 Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-57908-1

Client Sample ID: Alltift Collection Sump - Comp

Lab Sample ID: 480-57908-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0099	J	0.010	0.0056	mg/L	1		200.7 Rev 4.4	Total/NA
Barium	0.26		0.0020	0.00070	mg/L	1		200.7 Rev 4.4	Total/NA
Chromium	0.0075		0.0040	0.0010	mg/L	1		200.7 Rev 4.4	Total/NA
Copper	0.021		0.010	0.0016	mg/L	1		200.7 Rev 4.4	Total/NA
Nickel	0.017		0.010	0.0013	mg/L	1		200.7 Rev 4.4	Total/NA
Zinc	0.034		0.010	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA
Phosphorus, Total	0.081		0.010	0.0050	mg/L	1		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Solids	28.0		4.0	4.0	mg/L	1		SM 2540D	Total/NA
pH	7.55	HF	0.100	0.100	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: Alltift Collection Sump - Grab

Lab Sample ID: 480-57908-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	11	J	50	6.0	ug/L	10		624	Total/NA
Chlorobenzene	71		50	4.8	ug/L	10		624	Total/NA
4-Chloroaniline	11		5.0	0.69	ug/L	1		625	Total/NA
Acenaphthene	0.29	J	5.0	0.060	ug/L	1		625	Total/NA
N-Nitrosodiphenylamine	1.1	J	5.0	0.40	ug/L	1		625	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Honeywell International Inc

TestAmerica Job ID: 480-57908-1

Project/Site: 30130 - Alltift OM Phase / Semi Annual

Client Sample ID: Alltift Collection Sump - Comp

Lab Sample ID: 480-57908-6

Matrix: Water

Date Collected: 04/14/14 12:15

Date Received: 04/14/14 17:00

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0099	J	0.010	0.0056	mg/L		04/16/14 09:10	04/17/14 03:13	1
Barium	0.26		0.0020	0.00070	mg/L		04/16/14 09:10	04/17/14 03:13	1
Chromium	0.0075		0.0040	0.0010	mg/L		04/16/14 09:10	04/17/14 03:13	1
Copper	0.021		0.010	0.0016	mg/L		04/16/14 09:10	04/17/14 03:13	1
Nickel	0.017		0.010	0.0013	mg/L		04/16/14 09:10	04/17/14 03:13	1
Zinc	0.034		0.010	0.0015	mg/L		04/16/14 09:10	04/17/14 03:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus, Total	0.081		0.010	0.0050	mg/L			04/23/14 13:22	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	28.0		4.0	4.0	mg/L			04/15/14 17:45	1
pH	7.55	HF	0.100	0.100	SU			04/15/14 21:05	1

Client Sample Results

Client: Honeywell International Inc

TestAmerica Job ID: 480-57908-1

Project/Site: 30130 - Alltift OM Phase / Semi Annual

Client Sample ID: Alltift Collection Sump - Grab

Lab Sample ID: 480-57908-7

Matrix: Water

Date Collected: 04/14/14 12:00

Date Received: 04/14/14 17:00

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		50	3.9	ug/L			04/15/14 16:17	10
1,1,2,2-Tetrachloroethane	ND		50	2.6	ug/L			04/15/14 16:17	10
1,1,2-Trichloroethane	ND		50	4.8	ug/L			04/15/14 16:17	10
1,1-Dichloroethane	ND		50	5.9	ug/L			04/15/14 16:17	10
1,1-Dichloroethene	ND		50	8.5	ug/L			04/15/14 16:17	10
1,2-Dichlorobenzene	ND		50	4.4	ug/L			04/15/14 16:17	10
1,2-Dichloroethane	ND		50	6.0	ug/L			04/15/14 16:17	10
1,2-Dichloroethene, Total	ND		100	32	ug/L			04/15/14 16:17	10
1,2-Dichloropropane	ND		50	6.1	ug/L			04/15/14 16:17	10
1,3-Dichlorobenzene	ND		50	5.4	ug/L			04/15/14 16:17	10
1,4-Dichlorobenzene	ND		50	5.1	ug/L			04/15/14 16:17	10
2-Chloroethyl vinyl ether	ND		250	19	ug/L			04/15/14 16:17	10
Acrolein	ND		1000	170	ug/L			04/15/14 16:17	10
Acrylonitrile	ND		500	19	ug/L			04/15/14 16:17	10
Benzene	11	J	50	6.0	ug/L			04/15/14 16:17	10
Bromoform	ND		50	4.7	ug/L			04/15/14 16:17	10
Bromomethane	ND		50	12	ug/L			04/15/14 16:17	10
Carbon tetrachloride	ND		50	5.1	ug/L			04/15/14 16:17	10
Chlorobenzene	71		50	4.8	ug/L			04/15/14 16:17	10
Chlorodibromomethane	ND		50	4.1	ug/L			04/15/14 16:17	10
Chloroethane	ND		50	8.7	ug/L			04/15/14 16:17	10
Chloroform	ND		50	5.4	ug/L			04/15/14 16:17	10
Chloromethane	ND		50	6.4	ug/L			04/15/14 16:17	10
cis-1,3-Dichloropropene	ND		50	3.3	ug/L			04/15/14 16:17	10
Dichlorobromomethane	ND		50	5.4	ug/L			04/15/14 16:17	10
Ethylbenzene	ND		50	4.6	ug/L			04/15/14 16:17	10
Methylene Chloride	ND		50	8.1	ug/L			04/15/14 16:17	10
Tetrachloroethene	ND		50	3.4	ug/L			04/15/14 16:17	10
Toluene	ND		50	4.5	ug/L			04/15/14 16:17	10
trans-1,2-Dichloroethene	ND		50	5.9	ug/L			04/15/14 16:17	10
trans-1,3-Dichloropropene	ND		50	4.4	ug/L			04/15/14 16:17	10
Trichloroethene	ND		50	6.0	ug/L			04/15/14 16:17	10
Vinyl chloride	ND		50	7.5	ug/L			04/15/14 16:17	10
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92			72 - 130				04/15/14 16:17	10
4-Bromofluorobenzene (Surr)	96			69 - 121				04/15/14 16:17	10
Toluene-d8 (Surr)	85			70 - 123				04/15/14 16:17	10

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.49	ug/L		04/17/14 11:25	04/18/14 17:53	1
1,2-Dichlorobenzene	ND		10	0.15	ug/L		04/17/14 11:25	04/18/14 17:53	1
1,2-Diphenylhydrazine	ND		10	0.063	ug/L		04/17/14 11:25	04/18/14 17:53	1
1,3-Dichlorobenzene	ND		10	0.069	ug/L		04/17/14 11:25	04/18/14 17:53	1
1,4-Dichlorobenzene	ND		10	0.090	ug/L		04/17/14 11:25	04/18/14 17:53	1
2,4,6-Trichlorophenol	ND		5.0	0.23	ug/L		04/17/14 11:25	04/18/14 17:53	1
2,4-Dichlorophenol	ND		5.0	0.30	ug/L		04/17/14 11:25	04/18/14 17:53	1
2,4-Dimethylphenol	ND		5.0	0.13	ug/L		04/17/14 11:25	04/18/14 17:53	1
2,4-Dinitrophenol	ND		10	0.84	ug/L		04/17/14 11:25	04/18/14 17:53	1

TestAmerica Buffalo

Client Sample Results

Client: Honeywell International Inc

Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-57908-1

Client Sample ID: Alltift Collection Sump - Grab

Lab Sample ID: 480-57908-7

Matrix: Water

Date Collected: 04/14/14 12:00

Date Received: 04/14/14 17:00

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		5.0	0.26	ug/L		04/17/14 11:25	04/18/14 17:53	1
2,6-Dinitrotoluene	ND		5.0	0.72	ug/L		04/17/14 11:25	04/18/14 17:53	1
2-Chloronaphthalene	ND		5.0	0.068	ug/L		04/17/14 11:25	04/18/14 17:53	1
2-Chlorophenol	ND		5.0	0.16	ug/L		04/17/14 11:25	04/18/14 17:53	1
2-Nitrophenol	ND		5.0	0.14	ug/L		04/17/14 11:25	04/18/14 17:53	1
3,3'-Dichlorobenzidine	ND		5.0	0.82	ug/L		04/17/14 11:25	04/18/14 17:53	1
4,6-Dinitro-2-methylphenol	ND		10	0.76	ug/L		04/17/14 11:25	04/18/14 17:53	1
4-Bromophenyl phenyl ether	ND		5.0	0.11	ug/L		04/17/14 11:25	04/18/14 17:53	1
4-Chloro-3-methylphenol	ND		5.0	0.56	ug/L		04/17/14 11:25	04/18/14 17:53	1
4-Chloroaniline	11		5.0	0.69	ug/L		04/17/14 11:25	04/18/14 17:53	1
4-Chlorophenyl phenyl ether	ND		5.0	0.21	ug/L		04/17/14 11:25	04/18/14 17:53	1
4-Nitrophenol	ND		10	1.3	ug/L		04/17/14 11:25	04/18/14 17:53	1
Acenaphthene	0.29 J		5.0	0.060	ug/L		04/17/14 11:25	04/18/14 17:53	1
Acenaphthylene	ND		5.0	0.034	ug/L		04/17/14 11:25	04/18/14 17:53	1
Anthracene	ND		5.0	0.052	ug/L		04/17/14 11:25	04/18/14 17:53	1
Benzidine	ND		80	2.5	ug/L		04/17/14 11:25	04/18/14 17:53	1
Benzo[a]anthracene	ND		5.0	0.043	ug/L		04/17/14 11:25	04/18/14 17:53	1
Benzo[a]pyrene	ND *		5.0	0.058	ug/L		04/17/14 11:25	04/18/14 17:53	1
Benzo[b]fluoranthene	ND *		5.0	0.062	ug/L		04/17/14 11:25	04/18/14 17:53	1
Benzo[g,h,i]perylene	ND *		5.0	0.10	ug/L		04/17/14 11:25	04/18/14 17:53	1
Benzo[k]fluoranthene	ND *		5.0	0.042	ug/L		04/17/14 11:25	04/18/14 17:53	1
bis (2-chloroisopropyl) ether	ND		5.0	0.086	ug/L		04/17/14 11:25	04/18/14 17:53	1
Bis(2-chloroethoxy)methane	ND		5.0	0.085	ug/L		04/17/14 11:25	04/18/14 17:53	1
Bis(2-chloroethyl)ether	ND		5.0	1.1	ug/L		04/17/14 11:25	04/18/14 17:53	1
Bis(2-ethylhexyl) phthalate	ND		10	0.86	ug/L		04/17/14 11:25	04/18/14 17:53	1
Butyl benzyl phthalate	ND		5.0	1.3	ug/L		04/17/14 11:25	04/18/14 17:53	1
Chrysene	ND		5.0	0.036	ug/L		04/17/14 11:25	04/18/14 17:53	1
Dibenz(a,h)anthracene	ND *		5.0	0.055	ug/L		04/17/14 11:25	04/18/14 17:53	1
Diethyl phthalate	ND		5.0	0.17	ug/L		04/17/14 11:25	04/18/14 17:53	1
Dimethyl phthalate	ND		5.0	0.17	ug/L		04/17/14 11:25	04/18/14 17:53	1
Di-n-butyl phthalate	ND		5.0	0.94	ug/L		04/17/14 11:25	04/18/14 17:53	1
Di-n-octyl phthalate	ND		5.0	4.5	ug/L		04/17/14 11:25	04/18/14 17:53	1
Fluoranthene	ND		5.0	0.11	ug/L		04/17/14 11:25	04/18/14 17:53	1
Fluorene	ND		5.0	0.043	ug/L		04/17/14 11:25	04/18/14 17:53	1
Hexachlorobenzene	ND		5.0	0.28	ug/L		04/17/14 11:25	04/18/14 17:53	1
Hexachlorobutadiene	ND		5.0	0.62	ug/L		04/17/14 11:25	04/18/14 17:53	1
Hexachlorocyclopentadiene	ND		5.0	0.45	ug/L		04/17/14 11:25	04/18/14 17:53	1
Hexachloroethane	ND		5.0	0.48	ug/L		04/17/14 11:25	04/18/14 17:53	1
Indeno[1,2,3-cd]pyrene	ND *		5.0	0.19	ug/L		04/17/14 11:25	04/18/14 17:53	1
Isophorone	ND		5.0	0.16	ug/L		04/17/14 11:25	04/18/14 17:53	1
Naphthalene	ND		5.0	0.080	ug/L		04/17/14 11:25	04/18/14 17:53	1
Nitrobenzene	ND		5.0	0.11	ug/L		04/17/14 11:25	04/18/14 17:53	1
N-Nitrosodimethylamine	ND		10	0.96	ug/L		04/17/14 11:25	04/18/14 17:53	1
N-Nitrosodi-n-propylamine	ND		5.0	0.23	ug/L		04/17/14 11:25	04/18/14 17:53	1
N-Nitrosodiphenylamine	1.1 J		5.0	0.40	ug/L		04/17/14 11:25	04/18/14 17:53	1
Pentachlorophenol	ND		10	0.41	ug/L		04/17/14 11:25	04/18/14 17:53	1
Phenanthrene	ND		5.0	0.071	ug/L		04/17/14 11:25	04/18/14 17:53	1
Phenol	ND		5.0	0.12	ug/L		04/17/14 11:25	04/18/14 17:53	1
Pyrene	ND *		5.0	0.041	ug/L		04/17/14 11:25	04/18/14 17:53	1

TestAmerica Buffalo

Client Sample Results

Client: Honeywell International Inc

TestAmerica Job ID: 480-57908-1

Project/Site: 30130 - Alltift OM Phase / Semi Annual

Client Sample ID: Alltift Collection Sump - Grab

Lab Sample ID: 480-57908-7

Date Collected: 04/14/14 12:00

Matrix: Water

Date Received: 04/14/14 17:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	86		52 - 151	04/17/14 11:25	04/18/14 17:53	1
2-Fluorobiphenyl	70		44 - 120	04/17/14 11:25	04/18/14 17:53	1
2-Fluorophenol	37		17 - 120	04/17/14 11:25	04/18/14 17:53	1
Nitrobenzene-d5	66		42 - 120	04/17/14 11:25	04/18/14 17:53	1
Phenol-d5	26		10 - 120	04/17/14 11:25	04/18/14 17:53	1
p-Terphenyl-d14	97		22 - 125	04/17/14 11:25	04/18/14 17:53	1

Surrogate Summary

Client: Honeywell International Inc
Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-57908-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		12DCE (72-130)	BFB (69-121)	TOL (70-123)
480-57908-7	Alltift Collection Sump - Grab	92	96	85
LCS 480-175909/5	Lab Control Sample	86	96	88
MB 480-175909/6	Method Blank	89	95	87

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (52-151)	FBP (44-120)	2FP (17-120)	NBZ (42-120)	PHL (10-120)	TPH (22-125)
480-57908-7	Alltift Collection Sump - Grab	86	70	37	66	26	97
LCS 480-176482/2-A	Lab Control Sample	95	78	46	79	33	121
MB 480-176482/1-A	Method Blank	81	80	46	81	33	117

Surrogate Legend

TBP = 2,4,6-Tribromophenol

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol

NBZ = Nitrobenzene-d5

PHL = Phenol-d5

TPH = p-Terphenyl-d14

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-57908-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-175909/6

Matrix: Water

Analysis Batch: 175909

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier				
1,1,1-Trichloroethane	ND		5.0	0.39 ug/L	04/15/14 14:48	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26 ug/L	04/15/14 14:48	1
1,1,2-Trichloroethane	ND		5.0	0.48 ug/L	04/15/14 14:48	1
1,1-Dichloroethane	ND		5.0	0.59 ug/L	04/15/14 14:48	1
1,1-Dichloroethene	ND		5.0	0.85 ug/L	04/15/14 14:48	1
1,2-Dichlorobenzene	ND		5.0	0.44 ug/L	04/15/14 14:48	1
1,2-Dichloroethane	ND		5.0	0.60 ug/L	04/15/14 14:48	1
1,2-Dichloroethene, Total	ND		10	3.2 ug/L	04/15/14 14:48	1
1,2-Dichloropropane	ND		5.0	0.61 ug/L	04/15/14 14:48	1
1,3-Dichlorobenzene	ND		5.0	0.54 ug/L	04/15/14 14:48	1
1,4-Dichlorobenzene	ND		5.0	0.51 ug/L	04/15/14 14:48	1
2-Chloroethyl vinyl ether	ND		25	1.9 ug/L	04/15/14 14:48	1
Acrolein	ND		100	17 ug/L	04/15/14 14:48	1
Acrylonitrile	ND		50	1.9 ug/L	04/15/14 14:48	1
Benzene	ND		5.0	0.60 ug/L	04/15/14 14:48	1
Bromoform	ND		5.0	0.47 ug/L	04/15/14 14:48	1
Bromomethane	ND		5.0	1.2 ug/L	04/15/14 14:48	1
Carbon tetrachloride	ND		5.0	0.51 ug/L	04/15/14 14:48	1
Chlorobenzene	ND		5.0	0.48 ug/L	04/15/14 14:48	1
Chlorodibromomethane	ND		5.0	0.41 ug/L	04/15/14 14:48	1
Chloroethane	ND		5.0	0.87 ug/L	04/15/14 14:48	1
Chloroform	ND		5.0	0.54 ug/L	04/15/14 14:48	1
Chloromethane	ND		5.0	0.64 ug/L	04/15/14 14:48	1
cis-1,3-Dichloropropene	ND		5.0	0.33 ug/L	04/15/14 14:48	1
Dichlorobromomethane	ND		5.0	0.54 ug/L	04/15/14 14:48	1
Ethylbenzene	ND		5.0	0.46 ug/L	04/15/14 14:48	1
Methylene Chloride	ND		5.0	0.81 ug/L	04/15/14 14:48	1
Tetrachloroethene	ND		5.0	0.34 ug/L	04/15/14 14:48	1
Toluene	ND		5.0	0.45 ug/L	04/15/14 14:48	1
trans-1,2-Dichloroethene	ND		5.0	0.59 ug/L	04/15/14 14:48	1
trans-1,3-Dichloropropene	ND		5.0	0.44 ug/L	04/15/14 14:48	1
Trichloroethene	ND		5.0	0.60 ug/L	04/15/14 14:48	1
Vinyl chloride	ND		5.0	0.75 ug/L	04/15/14 14:48	1
Surrogate	MB	MB	Prepared	Analyzed	Dil Fac	
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	89		72 - 130			
4-Bromofluorobenzene (Surr)	95		69 - 121			
Toluene-d8 (Surr)	87		70 - 123			

Lab Sample ID: LCS 480-175909/5

Matrix: Water

Analysis Batch: 175909

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

Analyte	Spike	LCS	LCS	D	%Rec	Limits
	Added	Result	Qualifier			
1,1,1-Trichloroethane	20.0	20.5		ug/L	102	52 - 162
1,1,2,2-Tetrachloroethane	20.0	18.8		ug/L	94	46 - 157
1,1,2-Trichloroethane	20.0	19.2		ug/L	96	52 - 150
1,1-Dichloroethane	20.0	22.2		ug/L	111	59 - 155

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc

TestAmerica Job ID: 480-57908-1

Project/Site: 30130 - Alltift OM Phase / Semi Annual

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-175909/5

Matrix: Water

Analysis Batch: 175909

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec.
		Result	Qualifier				
1,1-Dichloroethene	20.0	21.8		ug/L		109	1 - 234
1,2-Dichlorobenzene	20.0	18.7		ug/L		93	18 - 190
1,2-Dichloroethane	20.0	20.7		ug/L		103	49 - 155
1,2-Dichloropropane	20.0	22.1		ug/L		110	1 - 210
1,3-Dichlorobenzene	20.0	19.0		ug/L		95	59 - 156
1,4-Dichlorobenzene	20.0	19.1		ug/L		96	18 - 190
2-Chloroethyl vinyl ether	20.0	21.6	J	ug/L		108	1 - 305
Benzene	20.0	22.2		ug/L		111	37 - 151
Bromoform	20.0	16.0		ug/L		80	45 - 169
Bromomethane	20.0	24.3		ug/L		121	1 - 242
Carbon tetrachloride	20.0	21.1		ug/L		106	70 - 140
Chlorobenzene	20.0	20.4		ug/L		102	37 - 160
Chlorodibromomethane	19.6	17.7		ug/L		90	53 - 149
Chloroethane	20.0	21.4		ug/L		107	14 - 230
Chloroform	20.0	21.7		ug/L		109	51 - 138
Chloromethane	20.0	20.8		ug/L		104	1 - 273
cis-1,3-Dichloropropene	20.0	22.0		ug/L		110	1 - 227
Dichlorobromomethane	20.0	20.5		ug/L		102	35 - 155
Ethylbenzene	20.0	20.6		ug/L		103	37 - 162
Methylene Chloride	20.0	20.5		ug/L		103	1 - 221
Tetrachloroethene	20.0	20.1		ug/L		100	64 - 148
Toluene	20.0	18.9		ug/L		94	47 - 150
trans-1,2-Dichloroethene	20.0	21.7		ug/L		108	54 - 156
trans-1,3-Dichloropropene	20.0	20.0		ug/L		100	17 - 183
Trichloroethene	20.0	22.6		ug/L		113	71 - 157
Vinyl chloride	20.0	21.1		ug/L		106	1 - 251
Surrogate		LCS	LCS				
		%Recovery	Qualifier	Limits			
1,2-Dichloroethane-d4 (Surr)		86		72 - 130			
4-Bromofluorobenzene (Surr)		96		69 - 121			
Toluene-d8 (Surr)		88		70 - 123			

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-176482/1-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 176761

Prep Batch: 176482

Analyte	Result	MB Qualifier	MB RL	MDL	Unit	D	Prepared		Analyzed	Dil Fac
							Prepared	Analyzed		
1,2,4-Trichlorobenzene	ND		10	0.49	ug/L		04/17/14 11:25	04/18/14 14:04		1
1,2-Dichlorobenzene	ND		10	0.15	ug/L		04/17/14 11:25	04/18/14 14:04		1
1,2-Diphenylhydrazine	ND		10	0.063	ug/L		04/17/14 11:25	04/18/14 14:04		1
1,3-Dichlorobenzene	ND		10	0.069	ug/L		04/17/14 11:25	04/18/14 14:04		1
1,4-Dichlorobenzene	ND		10	0.090	ug/L		04/17/14 11:25	04/18/14 14:04		1
2,4,6-Trichlorophenol	ND		5.0	0.23	ug/L		04/17/14 11:25	04/18/14 14:04		1
2,4-Dichlorophenol	ND		5.0	0.30	ug/L		04/17/14 11:25	04/18/14 14:04		1
2,4-Dimethylphenol	ND		5.0	0.13	ug/L		04/17/14 11:25	04/18/14 14:04		1
2,4-Dinitrophenol	ND		10	0.84	ug/L		04/17/14 11:25	04/18/14 14:04		1

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
 Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-57908-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-176482/1-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 176761

Prep Batch: 176482

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		ND		5.0	0.26	ug/L	04/17/14 11:25	04/18/14 14:04		1
2,6-Dinitrotoluene	ND		ND		5.0	0.72	ug/L	04/17/14 11:25	04/18/14 14:04		1
2-Chloronaphthalene	ND		ND		5.0	0.068	ug/L	04/17/14 11:25	04/18/14 14:04		1
2-Chlorophenol	ND		ND		5.0	0.16	ug/L	04/17/14 11:25	04/18/14 14:04		1
2-Nitrophenol	ND		ND		5.0	0.14	ug/L	04/17/14 11:25	04/18/14 14:04		1
3,3'-Dichlorobenzidine	ND		ND		5.0	0.82	ug/L	04/17/14 11:25	04/18/14 14:04		1
4,6-Dinitro-2-methylphenol	ND		ND		10	0.76	ug/L	04/17/14 11:25	04/18/14 14:04		1
4-Bromophenyl phenyl ether	ND		ND		5.0	0.11	ug/L	04/17/14 11:25	04/18/14 14:04		1
4-Chloro-3-methylphenol	ND		ND		5.0	0.56	ug/L	04/17/14 11:25	04/18/14 14:04		1
4-Chloroaniline	ND		ND		5.0	0.69	ug/L	04/17/14 11:25	04/18/14 14:04		1
4-Chlorophenyl phenyl ether	ND		ND		5.0	0.21	ug/L	04/17/14 11:25	04/18/14 14:04		1
4-Nitrophenol	ND		ND		10	1.3	ug/L	04/17/14 11:25	04/18/14 14:04		1
Acenaphthene	ND		ND		5.0	0.060	ug/L	04/17/14 11:25	04/18/14 14:04		1
Acenaphthylene	ND		ND		5.0	0.034	ug/L	04/17/14 11:25	04/18/14 14:04		1
Anthracene	ND		ND		5.0	0.052	ug/L	04/17/14 11:25	04/18/14 14:04		1
Benzidine	ND		ND		80	2.5	ug/L	04/17/14 11:25	04/18/14 14:04		1
Benzo[a]anthracene	ND		ND		5.0	0.043	ug/L	04/17/14 11:25	04/18/14 14:04		1
Benzo[a]pyrene	ND		ND		5.0	0.058	ug/L	04/17/14 11:25	04/18/14 14:04		1
Benzo[b]fluoranthene	ND		ND		5.0	0.062	ug/L	04/17/14 11:25	04/18/14 14:04		1
Benzo[g,h,i]perylene	ND		ND		5.0	0.10	ug/L	04/17/14 11:25	04/18/14 14:04		1
Benzo[k]fluoranthene	ND		ND		5.0	0.042	ug/L	04/17/14 11:25	04/18/14 14:04		1
bis (2-chloroisopropyl) ether	ND		ND		5.0	0.086	ug/L	04/17/14 11:25	04/18/14 14:04		1
Bis(2-chloroethoxy)methane	ND		ND		5.0	0.085	ug/L	04/17/14 11:25	04/18/14 14:04		1
Bis(2-chloroethyl)ether	ND		ND		5.0	1.1	ug/L	04/17/14 11:25	04/18/14 14:04		1
Bis(2-ethylhexyl) phthalate	ND		ND		10	0.86	ug/L	04/17/14 11:25	04/18/14 14:04		1
Butyl benzyl phthalate	ND		ND		5.0	1.3	ug/L	04/17/14 11:25	04/18/14 14:04		1
Chrysene	ND		ND		5.0	0.036	ug/L	04/17/14 11:25	04/18/14 14:04		1
Dibenz(a,h)anthracene	ND		ND		5.0	0.055	ug/L	04/17/14 11:25	04/18/14 14:04		1
Diethyl phthalate	ND		ND		5.0	0.17	ug/L	04/17/14 11:25	04/18/14 14:04		1
Dimethyl phthalate	ND		ND		5.0	0.17	ug/L	04/17/14 11:25	04/18/14 14:04		1
Di-n-butyl phthalate	ND		ND		5.0	0.94	ug/L	04/17/14 11:25	04/18/14 14:04		1
Di-n-octyl phthalate	ND		ND		5.0	4.5	ug/L	04/17/14 11:25	04/18/14 14:04		1
Fluoranthene	ND		ND		5.0	0.11	ug/L	04/17/14 11:25	04/18/14 14:04		1
Fluorene	ND		ND		5.0	0.043	ug/L	04/17/14 11:25	04/18/14 14:04		1
Hexachlorobenzene	ND		ND		5.0	0.28	ug/L	04/17/14 11:25	04/18/14 14:04		1
Hexachlorobutadiene	ND		ND		5.0	0.62	ug/L	04/17/14 11:25	04/18/14 14:04		1
Hexachlorocyclopentadiene	ND		ND		5.0	0.45	ug/L	04/17/14 11:25	04/18/14 14:04		1
Hexachloroethane	ND		ND		5.0	0.48	ug/L	04/17/14 11:25	04/18/14 14:04		1
Indeno[1,2,3-cd]pyrene	ND		ND		5.0	0.19	ug/L	04/17/14 11:25	04/18/14 14:04		1
Isophorone	ND		ND		5.0	0.16	ug/L	04/17/14 11:25	04/18/14 14:04		1
Naphthalene	ND		ND		5.0	0.080	ug/L	04/17/14 11:25	04/18/14 14:04		1
Nitrobenzene	ND		ND		5.0	0.11	ug/L	04/17/14 11:25	04/18/14 14:04		1
N-Nitrosodimethylamine	ND		ND		10	0.96	ug/L	04/17/14 11:25	04/18/14 14:04		1
N-Nitrosodi-n-propylamine	ND		ND		5.0	0.23	ug/L	04/17/14 11:25	04/18/14 14:04		1
N-Nitrosodiphenylamine	ND		ND		5.0	0.40	ug/L	04/17/14 11:25	04/18/14 14:04		1
Pentachlorophenol	ND		ND		10	0.41	ug/L	04/17/14 11:25	04/18/14 14:04		1
Phenanthrene	ND		ND		5.0	0.071	ug/L	04/17/14 11:25	04/18/14 14:04		1
Phenol	ND		ND		5.0	0.12	ug/L	04/17/14 11:25	04/18/14 14:04		1

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
 Project/Site: 30130 - Alltiff OM Phase / Semi Annual

TestAmerica Job ID: 480-57908-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-176482/1-A

Matrix: Water

Analysis Batch: 176761

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 176482

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	ND	5.0							04/17/14 11:25	04/18/14 14:04	1
Pyrene											
Surrogate	MB	MB									
2,4,6-Tribromophenol	81				52 - 151				04/17/14 11:25	04/18/14 14:04	1
2-Fluorobiphenyl	80				44 - 120				04/17/14 11:25	04/18/14 14:04	1
2-Fluorophenol	46				17 - 120				04/17/14 11:25	04/18/14 14:04	1
Nitrobenzene-d5	81				42 - 120				04/17/14 11:25	04/18/14 14:04	1
Phenol-d5	33				10 - 120				04/17/14 11:25	04/18/14 14:04	1
p-Terphenyl-d14	117				22 - 125				04/17/14 11:25	04/18/14 14:04	1

Lab Sample ID: LCS 480-176482/2-A

Matrix: Water

Analysis Batch: 176761

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 176482

Analyte	Spike Added	LCS	LCS	Result	Qualifier	Unit	D	%Rec	%Rec.	
		Added	Result						D	%Rec
1,2,4-Trichlorobenzene	100		70.5			ug/L		71	44 - 142	
1,2-Dichlorobenzene	100		66.3			ug/L		66	32 - 129	
1,3-Dichlorobenzene	100		62.7			ug/L		63	1 - 172	
1,4-Dichlorobenzene	100		64.4			ug/L		64	20 - 124	
2,4,6-Trichlorophenol	100		88.6			ug/L		89	37 - 144	
2,4-Dichlorophenol	100		86.6			ug/L		87	39 - 135	
2,4-Dimethylphenol	100		86.7			ug/L		87	32 - 119	
2,4-Dinitrophenol	200		194			ug/L		97	1 - 191	
2,4-Dinitrotoluene	100		97.4			ug/L		97	39 - 139	
2,6-Dinitrotoluene	100		93.4			ug/L		93	50 - 158	
2-Chloronaphthalene	100		82.3			ug/L		82	60 - 118	
2-Chlorophenol	100		78.5			ug/L		79	23 - 134	
2-Nitrophenol	100		85.4			ug/L		85	29 - 182	
3,3'-Dichlorobenzidine	100		64.3			ug/L		64	1 - 262	
4,6-Dinitro-2-methylphenol	200		231			ug/L		116	1 - 181	
4-Bromophenyl phenyl ether	100		91.7			ug/L		92	53 - 127	
4-Chloro-3-methylphenol	100		92.6			ug/L		93	22 - 147	
4-Chlorophenyl phenyl ether	100		85.7			ug/L		86	25 - 158	
4-Nitrophenol	200		102			ug/L		51	1 - 132	
Acenaphthene	100		86.3			ug/L		86	47 - 145	
Acenaphthylene	100		81.3			ug/L		81	33 - 145	
Anthracene	100		98.3			ug/L		98	27 - 133	
Benzo[a]anthracene	100		105			ug/L		105	33 - 143	
Benzo[a]pyrene	100		107			ug/L		107	17 - 163	
Benzo[b]fluoranthene	100		97.3			ug/L		97	24 - 159	
Benzo[g,h,i]perylene	100		114			ug/L		114	1 - 219	
Benzo[k]fluoranthene	100		104			ug/L		104	11 - 162	
bis (2-chloroisopropyl) ether	100		81.2			ug/L		81	36 - 166	
Bis(2-chloroethoxy)methane	100		84.0			ug/L		84	33 - 184	
Bis(2-chloroethyl)ether	100		78.9			ug/L		79	12 - 158	
Bis(2-ethylhexyl) phthalate	100		110			ug/L		110	8 - 158	
Butyl benzyl phthalate	100		115			ug/L		115	1 - 152	
Chrysene	100		109			ug/L		109	17 - 168	

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-57908-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-176482/2-A

Matrix: Water

Analysis Batch: 176761

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 176482

Analyte	Spike Added	LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Dibenz(a,h)anthracene	100	110		ug/L		110	1 - 227
Diethyl phthalate	100	98.2		ug/L		98	1 - 114
Dimethyl phthalate	100	92.1		ug/L		92	1 - 112
Di-n-butyl phthalate	100	101		ug/L		101	1 - 118
Di-n-octyl phthalate	100	96.6		ug/L		97	4 - 146
Fluoranthene	100	102		ug/L		102	26 - 137
Fluorene	100	87.7		ug/L		88	59 - 121
Hexachlorobenzene	100	91.4		ug/L		91	1 - 152
Hexachlorocyclopentadiene	100	43.5		ug/L		44	5 - 120
Hexachloroethane	100	61.5		ug/L		62	40 - 113
Indeno[1,2,3-cd]pyrene	100	100		ug/L		100	1 - 171
Isophorone	100	85.4		ug/L		85	21 - 196
Naphthalene	100	79.6		ug/L		80	21 - 133
Nitrobenzene	100	82.5		ug/L		83	35 - 180
N-Nitrosodi-n-propylamine	100	84.4		ug/L		84	1 - 230
N-Nitrosodiphenylamine	100	96.4		ug/L		96	54 - 125
Pentachlorophenol	200	202		ug/L		101	14 - 176
Phenanthrene	100	97.4		ug/L		97	54 - 120
Phenol	100	38.2		ug/L		38	5 - 112
Pyrene	100	119 *		ug/L		119	52 - 115

Surrogate	LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol	95		52 - 151
2-Fluorobiphenyl	78		44 - 120
2-Fluorophenol	46		17 - 120
Nitrobenzene-d5	79		42 - 120
Phenol-d5	33		10 - 120
p-Terphenyl-d14	121		22 - 125

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-176065/1-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 176375

Prep Batch: 176065

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	ND		0.010	0.0056	mg/L		04/16/14 09:10	04/17/14 02:25	1
Barium	ND		0.0020	0.00070	mg/L		04/16/14 09:10	04/17/14 02:25	1
Chromium	ND		0.0040	0.0010	mg/L		04/16/14 09:10	04/17/14 02:25	1
Copper	ND		0.010	0.0016	mg/L		04/16/14 09:10	04/17/14 02:25	1
Nickel	ND		0.010	0.0013	mg/L		04/16/14 09:10	04/17/14 02:25	1
Zinc	ND		0.010	0.0015	mg/L		04/16/14 09:10	04/17/14 02:25	1

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-57908-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-176065/2-A

Matrix: Water

Analysis Batch: 176375

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 176065

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
	Added	Result	Qualifier				
Arsenic	0.200	0.213		mg/L		107	85 - 115
Barium	0.200	0.212		mg/L		106	85 - 115
Chromium	0.200	0.205		mg/L		103	85 - 115
Copper	0.200	0.204		mg/L		102	85 - 115
Nickel	0.200	0.202		mg/L		101	85 - 115
Zinc	0.200	0.207		mg/L		103	85 - 115

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-175929/1

Matrix: Water

Analysis Batch: 175929

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
Total Suspended Solids	ND				4.0	4.0	mg/L			04/15/14 17:07	1

Lab Sample ID: LCS 480-175929/2

Matrix: Water

Analysis Batch: 175929

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
	Added	Result	Qualifier				
Total Suspended Solids	225	207.6		mg/L		92	88 - 110

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-176036/1

Matrix: Water

Analysis Batch: 176036

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
	Added	Result	Qualifier				
pH	7.00	6.990		SU		100	99 - 101

Lab Sample ID: 480-57908-6 DU

Matrix: Water

Analysis Batch: 176036

Client Sample ID: Alltift Collection Sump - Comp

Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier						
pH	7.55	HF	7.560		SU		0.1	5

Method: SM 4500 P E - Phosphorus

Lab Sample ID: MB 480-177841/27

Matrix: Water

Analysis Batch: 177841

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
Phosphorus, Total	ND		0.010		0.0050	mg/L				04/23/14 13:22	1

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
 Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-57908-1

Method: SM 4500 P E - Phosphorus (Continued)

Lab Sample ID: MB 480-177841/75

Matrix: Water

Analysis Batch: 177841

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phosphorus, Total	ND		0.010	0.0050	mg/L			04/23/14 13:22	1

Lab Sample ID: LCS 480-177841/28

Matrix: Water

Analysis Batch: 177841

Analyte	Spike	LCS	LCS	Unit	D	%Rec.	Limits
	Added	Result	Qualifier				
Phosphorus, Total	0.200	0.208		mg/L		104	90 - 110

Lab Sample ID: LCS 480-177841/76

Matrix: Water

Analysis Batch: 177841

Analyte	Spike	LCS	LCS	Unit	D	%Rec.	Limits
	Added	Result	Qualifier				
Phosphorus, Total	0.200	0.190		mg/L		95	90 - 110

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QC Association Summary

Client: Honeywell International Inc
Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-57908-1

GC/MS VOA

Analysis Batch: 175909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57908-7	Alltift Collection Sump - Grab	Total/NA	Water	624	
LCS 480-175909/5	Lab Control Sample	Total/NA	Water	624	
MB 480-175909/6	Method Blank	Total/NA	Water	624	

GC/MS Semi VOA

Prep Batch: 176482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57908-7	Alltift Collection Sump - Grab	Total/NA	Water	625	
LCS 480-176482/2-A	Lab Control Sample	Total/NA	Water	625	
MB 480-176482/1-A	Method Blank	Total/NA	Water	625	

Analysis Batch: 176761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57908-7	Alltift Collection Sump - Grab	Total/NA	Water	625	176482
LCS 480-176482/2-A	Lab Control Sample	Total/NA	Water	625	176482
MB 480-176482/1-A	Method Blank	Total/NA	Water	625	176482

Metals

Prep Batch: 176065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57908-6	Alltift Collection Sump - Comp	Total/NA	Water	200.7	
LCS 480-176065/2-A	Lab Control Sample	Total/NA	Water	200.7	
MB 480-176065/1-A	Method Blank	Total/NA	Water	200.7	

Analysis Batch: 176375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57908-6	Alltift Collection Sump - Comp	Total/NA	Water	200.7 Rev 4.4	176065
LCS 480-176065/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	176065
MB 480-176065/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	176065

General Chemistry

Analysis Batch: 175929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57908-6	Alltift Collection Sump - Comp	Total/NA	Water	SM 2540D	
LCS 480-175929/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 480-175929/1	Method Blank	Total/NA	Water	SM 2540D	

Analysis Batch: 176036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57908-6	Alltift Collection Sump - Comp	Total/NA	Water	SM 4500 H+ B	
480-57908-6 DU	Alltift Collection Sump - Comp	Total/NA	Water	SM 4500 H+ B	
LCS 480-176036/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 177841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57908-6	Alltift Collection Sump - Comp	Total/NA	Water	SM 4500 P E	
LCS 480-177841/28	Lab Control Sample	Total/NA	Water	SM 4500 P E	

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QC Association Summary

Client: Honeywell International Inc
Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-57908-1

General Chemistry (Continued)

Analysis Batch: 177841 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-177841/76	Lab Control Sample	Total/NA	Water	SM 4500 P E	
MB 480-177841/27	Method Blank	Total/NA	Water	SM 4500 P E	
MB 480-177841/75	Method Blank	Total/NA	Water	SM 4500 P E	

Lab Chronicle

Client: Honeywell International Inc
Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-57908-1

Client Sample ID: Alltift Collection Sump - Comp

Lab Sample ID: 480-57908-6

Matrix: Water

Date Collected: 04/14/14 12:15
Date Received: 04/14/14 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.7			176065	04/16/14 09:10	EHD	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	176375	04/17/14 03:13	LMH	TAL BUF
Total/NA	Analysis	SM 2540D		1	175929	04/15/14 17:45	KS	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	176036	04/15/14 21:05	KS	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	177841	04/23/14 13:22	KMF	TAL BUF

Client Sample ID: Alltift Collection Sump - Grab

Lab Sample ID: 480-57908-7

Matrix: Water

Date Collected: 04/14/14 12:00
Date Received: 04/14/14 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		10	175909	04/15/14 16:17	TRB	TAL BUF
Total/NA	Prep	625			176482	04/17/14 11:25	MCZ	TAL BUF
Total/NA	Analysis	625		1	176761	04/18/14 17:53	ANM	TAL BUF

Laboratory References:

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

TestAmerica Buffalo

Certification Summary

Client: Honeywell International Inc

TestAmerica Job ID: 480-57908-1

Project/Site: 30130 - Alltift OM Phase / Semi Annual

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-15

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
624		Water	1,2-Dichloroethene, Total
625	625	Water	1,2-Dichlorobenzene
625	625	Water	1,2-Diphenylhydrazine
625	625	Water	1,3-Dichlorobenzene
625	625	Water	1,4-Dichlorobenzene
625	625	Water	4-Chloroaniline
SM 4500 H+B		Water	pH

Method Summary

Client: Honeywell International Inc

Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-57908-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
625	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF
SM 4500 P E	Phosphorus	SM	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.

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

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

Sample Summary

Client: Honeywell International Inc

Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-57908-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-57908-6	Alltift Collection Sump - Comp	Water	04/14/14 12:15	04/14/14 17:00
480-57908-7	Alltift Collection Sump - Grab	Water	04/14/14 12:00	04/14/14 17:00

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TestAmerica Buffalo



Client Information	
Sampler:	Patrick Higgins
Phone:	315-468-1663
480-57908 Chain of Custody	

CCN No:
480-21387-2026.1
Page:
Page 1 of 1
Job #:

Analysis Requested

Location Identification	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, T=tissue, A=air)	Preservation Code	Special Instructions/Note:				
							S	D	N	A	N
BSA Discharge	GRAB 1	4/14/14	0600	G	W	N			2	2	
BSA Discharge	GRAB 2	4/14/14	0800	G	W	N			2	2	
BSA Discharge	GRAB 3	4/14/14	1000	G	W	N			2	2	
BSA Discharge	GRAB 4	4/14/14	1200	G	W	N			2	2	
BSA Discharge	COMP	4/14/14	1215	C	W	N			1	1	
TRIPBLANK	-TB	4/14/14	1215		W	N					

Possible Hazard Identification

- Non-Hazard Flammable
 Irritant Skin Irritant
 Unknown Poison A
 Radioactive

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	John Formoza	Date:	4/14/14	Time:	17:00	Method of Shipment:	Company
Relinquished by:	John Formoza	Date:	4/14/14	Time:	17:00	Date/Time:	4/14/14
Relinquished by:	John Formoza	Date:	4/14/14	Time:	17:00	Date/Time:	4/14/14

4/28/2014
Yes : No :

Comments/Temperture(s) °C and Other Remarks:

3 2-7

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Login Sample Receipt Checklist

Client: Honeywell International Inc

Job Number: 480-57908-1

Login Number: 57908

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

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.	True	
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.	False	Lab to comp 624/625 volume
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	True	Ok



CH2MHILL
OMI

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

October 28, 2014

Ms. Traserra Adams
Buffalo Sewer Authority
Industrial Waste Section
90 West Ferry Street
Buffalo, New York 14213

**Subject: Alltift Landfill/Ramco Steel Site
Discharge Monitoring Report
2014 Second Semi-Annual Report
BPDES Permit Number 12-12-BU098**

Dear Ms. Adams:

Enclosed please find the 2014 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 1,661,064 gallons. The flow was measured from a totalizing meter within the lift station at the Alltift Site from April 14, 2014 through September 9, 2014 for a total of 148 days. Flow metering readings collected during the reporting period are included as Attachment 1.

A time composite discharge sample was collected from within the pump station on September 9, 2014. Four samples were collected over an evenly-spaced work day period for VOCs and SVOCs. The four samples were composited in the laboratory per permit requirements. The sample for metals, total suspended solids, total phosphorus, and pH was collected as a composite sample. A summary of the analytical results, compared to permit limits, is provided in Table 1. All parameters were in compliance with permit limits. The laboratory analytical report is provided as Attachment 2. If you have any questions or require additional information, please contact me at (315) 468-1663.

Sincerely,

CH2M HILL,

John W. Formoza
Area Manager

QC Review By: Ryan Belcher (Amec Environment & Infrastructure)

cc.: Mr. Mark Sweitzer (Honeywell)
Mr. Maurice Moore (NYSDEC)
Mr. Dennis Sutton (City of Buffalo)
Mr. Dan Forlastro (Amec Environment & Infrastructure)

Table 1
Allift Landfill/Ramco Steel Site
Second Semi-annual Report for 2014
Discharge Monitoring Report

BSA Permit No. 12-12-BU98
 Sample Date:
 Sample Location:

September 9, 2014
 Onsite Pump Station to BSA

BSA Permit Parameter	Input Analytical Results				Converted Analytical Results				BSA Daily Max Discharge Limit	Permit Compliance
	Quantity	Qualifier	Reporting Limit	Unit	Quantity	Unit	Quantity	Unit		
pH	7.28		0.100	SU	7.28	SU	5.0 - 12.0	SU	Yes	
Benzene	ND		50	µg/L	ND	Ibs/day	0.068	Ibs/day	Yes	
Chlorobenzene	70		50	µg/L	0.007	Ibs/day	0.148	Ibs/day	Yes	
4-Chloraniline	24		5.0	µg/L	0.002	Ibs/day	0.048	Ibs/day	Yes	
Naphthalene	ND		5.0	µg/L	ND	Ibs/day	0.048	Ibs/day	Yes	
Arsenic	0.018		0.010	mg/L	0.002	Ibs/day	0.864	Ibs/day	Yes	
Barium	0.24		0.002	mg/L	0.02	Ibs/day	0.48	Ibs/day	Yes	
Chromium	0.0044		0.004	mg/L	0.000	Ibs/day	2.4	Ibs/day	Yes	
Copper	0.0066	J	0.010	mg/L	0.001	Ibs/day	7.68	Ibs/day	Yes	
Nickel	0.013		0.010	mg/L	0.0012	Ibs/day	6.72	Ibs/day	Yes	
Zinc	0.0055	J	0.010	mg/L	0.0005	Ibs/day	12	Ibs/day	Yes	
Total Suspended Solids	53.2		4.0	mg/L	53.2	mg/L	250	mg/L	Yes	
Total Phosphorus	0.077		0.010	mg/L						
USEPA Test Method 624	ND-70			µg/L						
USEPA Test Method 625	ND-24			µg/L						
Total Flow (average)				gpm	11,223	gpd	57,600	gpd	Yes	

Notes:
 J - estimated value below Reporting Limit/Practical Quantitation Limit
 ND - Not detected at the reporting limit

µg/L - micrograms per liter
 mg/L - milligrams per liter

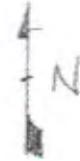
Monitor Only
 gpm - gallons per minute
 gpd - gallons per day
 SU - Standard Units

Prepared by, Date: Poornima R, 10/24/2014
 Checked by, Date: Ryan Belcher, 10/27/2014

Flow Calculations	Meter	
Initial Reading (pump station)	4310678	4/14/2014
Final Reading (pump station)	5971742	9/9/2014
Total Days in Period	148	
Total Flow for Period	1,661,064	gallons
Average Flow for Period	7.79	gpm

Attachment 1 - Flow Meter Readings

Buffalo Altift Lift Station	
Date	Totalizer Reading (gallons)
5/5/2014	4,727,561
6/3/2014	5,019,428
6/26/2014	5,308,886
7/24/2014	5,545,600
8/13/2014	5,667,690
8/20/2014	5,763,644
9/9/2015	5,971,742



TIFFT ST.

ALLTIFFT

LANDFILL

HOPKINS ST.

READING

RETREATMENT BUILDING
S.P. 001

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

(Your signature here)

John W Formoza
JOHN W FORMOZA

10/28/2014

Date

(Print your name & title here)

CH2M HILL ON BEHALF OF

(Print your company name here)

Honeywell.

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: 480-66924-1

Client Project/Site: 30130 - Alltift OM Phase / Semi Annual
Sampling Event: Honeywell - Alltift OM Phase (4,10)

For:

Honeywell International Inc
101 Columbia Road
Morristown, New Jersey 07962

Attn: Mr. Rich Galloway

Authorized for release by:

9/23/2014 3:56:41 PM

Rebecca Jones, Project Management Assistant I

rebecca.jones@testamericainc.com

Designee for

John Schove, Project Manager II
(716)504-9838

john.schove@testamericainc.com

LINKS

Review your project
results through

Total Access

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The
Expert

Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	22
Lab Chronicle	24
Certification Summary	25
Method Summary	26
Sample Summary	27
Chain of Custody	28
Receipt Checklists	30

Definitions/Glossary

Client: Honeywell International Inc
Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-66924-1

Qualifiers

GC/MS 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.
F2	MS/MSD RPD exceeds control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
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.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

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Case Narrative

Client: Honeywell International Inc
Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-66924-1

Job ID: 480-66924-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-66924-1

Comments

No additional comments.

Receipt

The samples were received on 9/9/2014 2:05 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.8° C.

GC/MS VOA

Method(s) 624: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: Alltift Collection Sump - Grab 1-4 (480-66924-2 MS), Alltift Collection Sump - Grab 1-4 (480-66924-2), Alltift Collection Sump - Grab 1-4 (480-66924-2 MSD). Elevated reporting limits (RLs) are provided.

Method(s) 624: The following samples were composed by the laboratory on 09/09/14 as requested on the chain-of-custody: Alltift Collection Sump - Grab 1-4 (480-66924-2), Alltift Collection Sump - Grab 1-4 (480-66924-2 MS), Alltift Collection Sump - Grab 1-4 (480-66924-2 MSD).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 625: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for batch 118075 recovered outside control limits for the following analyte(s): 2-Chloronaphthalene. 2-Chloronaphthalene has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method(s) 9040C, SM 4500 H+ B: The following sample(s) was received outside of holding time: Alltift Collection Sump - Comp (480-66924-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method(s) 625: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with batch 118075. comp. 480-66924-2

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Honeywell International Inc

TestAmerica Job ID: 480-66924-1

Project/Site: 30130 - Alltift OM Phase / Semi Annual

Client Sample ID: Alltift Collection Sump - Comp

Lab Sample ID: 480-66924-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.018		0.010	0.0056	mg/L	1		200.7 Rev 4.4	Total/NA
Barium	0.24		0.0020	0.00070	mg/L	1		200.7 Rev 4.4	Total/NA
Chromium	0.0044		0.0040	0.0010	mg/L	1		200.7 Rev 4.4	Total/NA
Copper	0.0066	J	0.010	0.0016	mg/L	1		200.7 Rev 4.4	Total/NA
Nickel	0.013		0.010	0.0013	mg/L	1		200.7 Rev 4.4	Total/NA
Zinc	0.0055	J	0.010	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA
Phosphorus, Total	0.077		0.010	0.0050	mg/L	1		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Solids	53.2		4.0	4.0	mg/L	1		SM 2540D	Total/NA
pH	7.28	HF	0.100	0.100	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: Alltift Collection Sump - Grab 1-4

Lab Sample ID: 480-66924-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	70		50	4.8	ug/L	10		624	Total/NA
Vinyl chloride	9.6	J	50	7.5	ug/L	10		624	Total/NA
4-Chloroaniline	24		5.0	0.89	ug/L	1		625	Total/NA
Butyl benzyl phthalate	1.5	J	5.0	1.4	ug/L	1		625	Total/NA
Di-n-butyl phthalate	1.5	J	5.0	1.2	ug/L	1		625	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-66924-3

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Honeywell International Inc

TestAmerica Job ID: 480-66924-1

Project/Site: 30130 - Alltift OM Phase / Semi Annual

Client Sample ID: Alltift Collection Sump - Comp

Lab Sample ID: 480-66924-1

Matrix: Water

Date Collected: 09/09/14 13:45

Date Received: 09/09/14 14:05

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.018		0.010	0.0056	mg/L		09/10/14 10:54	09/12/14 18:41	1
Barium	0.24		0.0020	0.00070	mg/L		09/10/14 10:54	09/12/14 18:41	1
Chromium	0.0044		0.0040	0.0010	mg/L		09/10/14 10:54	09/12/14 18:41	1
Copper	0.0066 J		0.010	0.0016	mg/L		09/10/14 10:54	09/12/14 18:41	1
Nickel	0.013		0.010	0.0013	mg/L		09/10/14 10:54	09/12/14 18:41	1
Zinc	0.0055 J		0.010	0.0015	mg/L		09/10/14 10:54	09/12/14 18:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus, Total	0.077		0.010	0.0050	mg/L			09/17/14 09:27	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	53.2		4.0	4.0	mg/L			09/11/14 09:52	1
pH	7.28 HF		0.100	0.100	SU			09/10/14 01:36	1

Client Sample Results

Client: Honeywell International Inc

TestAmerica Job ID: 480-66924-1

Project/Site: 30130 - Alltift OM Phase / Semi Annual

Client Sample ID: Alltift Collection Sump - Grab 1-4

Lab Sample ID: 480-66924-2

Matrix: Water

Date Collected: 09/09/14 13:30

Date Received: 09/09/14 14:05

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		50	3.9	ug/L			09/10/14 10:20	10
1,1,2,2-Tetrachloroethane	ND		50	2.6	ug/L			09/10/14 10:20	10
1,1,2-Trichloroethane	ND		50	4.8	ug/L			09/10/14 10:20	10
1,1-Dichloroethane	ND		50	5.9	ug/L			09/10/14 10:20	10
1,1-Dichloroethene	ND		50	8.5	ug/L			09/10/14 10:20	10
1,2-Dichlorobenzene	ND		50	4.4	ug/L			09/10/14 10:20	10
1,2-Dichloroethane	ND		50	6.0	ug/L			09/10/14 10:20	10
1,2-Dichloroethene, Total	ND		100	32	ug/L			09/10/14 10:20	10
1,2-Dichloropropane	ND		50	6.1	ug/L			09/10/14 10:20	10
1,3-Dichlorobenzene	ND		50	5.4	ug/L			09/10/14 10:20	10
1,4-Dichlorobenzene	ND		50	5.1	ug/L			09/10/14 10:20	10
2-Chloroethyl vinyl ether	ND		250	19	ug/L			09/10/14 10:20	10
Acrolein	ND		1000	170	ug/L			09/10/14 10:20	10
Acrylonitrile	ND		500	19	ug/L			09/10/14 10:20	10
Benzene	ND		50	6.0	ug/L			09/10/14 10:20	10
Bromoform	ND		50	4.7	ug/L			09/10/14 10:20	10
Bromomethane	ND		50	12	ug/L			09/10/14 10:20	10
Carbon tetrachloride	ND		50	5.1	ug/L			09/10/14 10:20	10
Chlorobenzene	70		50	4.8	ug/L			09/10/14 10:20	10
Chlorodibromomethane	ND		50	4.1	ug/L			09/10/14 10:20	10
Chloroethane	ND		50	8.7	ug/L			09/10/14 10:20	10
Chloroform	ND		50	5.4	ug/L			09/10/14 10:20	10
Chloromethane	ND		50	6.4	ug/L			09/10/14 10:20	10
cis-1,3-Dichloropropene	ND		50	3.3	ug/L			09/10/14 10:20	10
Dichlorobromomethane	ND		50	5.4	ug/L			09/10/14 10:20	10
Ethylbenzene	ND		50	4.6	ug/L			09/10/14 10:20	10
Methylene Chloride	ND		50	8.1	ug/L			09/10/14 10:20	10
Tetrachloroethene	ND		50	3.4	ug/L			09/10/14 10:20	10
Toluene	ND		50	4.5	ug/L			09/10/14 10:20	10
trans-1,2-Dichloroethene	ND		50	5.9	ug/L			09/10/14 10:20	10
trans-1,3-Dichloropropene	ND		50	4.4	ug/L			09/10/14 10:20	10
Trichloroethene	ND		50	6.0	ug/L			09/10/14 10:20	10
Vinyl chloride	9.6 J		50	7.5	ug/L			09/10/14 10:20	10
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115			72 - 130				09/10/14 10:20	10
4-Bromofluorobenzene (Surr)	100			69 - 121				09/10/14 10:20	10
Toluene-d8 (Surr)	98			70 - 123				09/10/14 10:20	10

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.71	ug/L			09/15/14 14:06	09/19/14 01:08
1,2-Dichlorobenzene	ND		10	0.75	ug/L			09/15/14 14:06	09/19/14 01:08
1,2-Diphenylhydrazine	ND		10	0.66	ug/L			09/15/14 14:06	09/19/14 01:08
1,3-Dichlorobenzene	ND		10	0.74	ug/L			09/15/14 14:06	09/19/14 01:08
1,4-Dichlorobenzene	ND		10	0.74	ug/L			09/15/14 14:06	09/19/14 01:08
2,4,6-Trichlorophenol	ND		5.0	1.7	ug/L			09/15/14 14:06	09/19/14 01:08
2,4-Dichlorophenol	ND		5.0	0.33	ug/L			09/15/14 14:06	09/19/14 01:08
2,4-Dimethylphenol	ND		5.0	0.85	ug/L			09/15/14 14:06	09/19/14 01:08
2,4-Dinitrophenol	ND		10	6.1	ug/L			09/15/14 14:06	09/19/14 01:08

TestAmerica Buffalo

Client Sample Results

Client: Honeywell International Inc

Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-66924-1

Client Sample ID: Alltift Collection Sump - Grab 1-4

Lab Sample ID: 480-66924-2

Matrix: Water

Date Collected: 09/09/14 13:30

Date Received: 09/09/14 14:05

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		5.0	0.54	ug/L		09/15/14 14:06	09/19/14 01:08	1
2,6-Dinitrotoluene	ND		5.0	0.80	ug/L		09/15/14 14:06	09/19/14 01:08	1
2-Chloronaphthalene	ND *		5.0	0.15	ug/L		09/15/14 14:06	09/19/14 01:08	1
2-Chlorophenol	ND		5.0	1.7	ug/L		09/15/14 14:06	09/19/14 01:08	1
2-Nitrophenol	ND		5.0	1.7	ug/L		09/15/14 14:06	09/19/14 01:08	1
3,3'-Dichlorobenzidine	ND		5.0	1.1	ug/L		09/15/14 14:06	09/19/14 01:08	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		09/15/14 14:06	09/19/14 01:08	1
4-Bromophenyl phenyl ether	ND		5.0	0.64	ug/L		09/15/14 14:06	09/19/14 01:08	1
4-Chloro-3-methylphenol	ND		5.0	0.75	ug/L		09/15/14 14:06	09/19/14 01:08	1
4-Chloroaniline	24		5.0	0.89	ug/L		09/15/14 14:06	09/19/14 01:08	1
4-Chlorophenyl phenyl ether	ND		5.0	0.50	ug/L		09/15/14 14:06	09/19/14 01:08	1
4-Nitrophenol	ND		10	6.5	ug/L		09/15/14 14:06	09/19/14 01:08	1
Acenaphthene	ND		5.0	0.14	ug/L		09/15/14 14:06	09/19/14 01:08	1
Acenaphthylene	ND		5.0	0.15	ug/L		09/15/14 14:06	09/19/14 01:08	1
Anthracene	ND		5.0	0.15	ug/L		09/15/14 14:06	09/19/14 01:08	1
Benzidine	ND		80	35	ug/L		09/15/14 14:06	09/19/14 01:08	1
Benzo[a]anthracene	ND		5.0	0.15	ug/L		09/15/14 14:06	09/19/14 01:08	1
Benzo[a]pyrene	ND		5.0	0.13	ug/L		09/15/14 14:06	09/19/14 01:08	1
Benzo[b]fluoranthene	ND		5.0	0.16	ug/L		09/15/14 14:06	09/19/14 01:08	1
Benzo[g,h,i]perylene	ND		5.0	0.15	ug/L		09/15/14 14:06	09/19/14 01:08	1
Benzo[k]fluoranthene	ND		5.0	0.55	ug/L		09/15/14 14:06	09/19/14 01:08	1
bis (2-chloroisopropyl) ether	ND		5.0	0.20	ug/L		09/15/14 14:06	09/19/14 01:08	1
Bis(2-chloroethoxy)methane	ND		5.0	0.58	ug/L		09/15/14 14:06	09/19/14 01:08	1
Bis(2-chloroethyl)ether	ND		5.0	0.25	ug/L		09/15/14 14:06	09/19/14 01:08	1
Bis(2-ethylhexyl) phthalate	ND		13	13	ug/L		09/15/14 14:06	09/19/14 01:08	1
Butyl benzyl phthalate	1.5 J		5.0	1.4	ug/L		09/15/14 14:06	09/19/14 01:08	1
Chrysene	ND		5.0	0.14	ug/L		09/15/14 14:06	09/19/14 01:08	1
Dibenz(a,h)anthracene	ND		5.0	0.16	ug/L		09/15/14 14:06	09/19/14 01:08	1
Diethyl phthalate	ND		5.0	1.5	ug/L		09/15/14 14:06	09/19/14 01:08	1
Dimethyl phthalate	ND		5.0	0.77	ug/L		09/15/14 14:06	09/19/14 01:08	1
Di-n-butyl phthalate	1.5 J		5.0	1.2	ug/L		09/15/14 14:06	09/19/14 01:08	1
Di-n-octyl phthalate	ND		5.0	2.1	ug/L		09/15/14 14:06	09/19/14 01:08	1
Fluoranthene	ND		5.0	0.16	ug/L		09/15/14 14:06	09/19/14 01:08	1
Fluorene	ND		5.0	0.22	ug/L		09/15/14 14:06	09/19/14 01:08	1
Hexachlorobenzene	ND		5.0	0.18	ug/L		09/15/14 14:06	09/19/14 01:08	1
Hexachlorobutadiene	ND		5.0	0.17	ug/L		09/15/14 14:06	09/19/14 01:08	1
Hexachlorocyclopentadiene	ND		5.0	0.52	ug/L		09/15/14 14:06	09/19/14 01:08	1
Hexachloroethane	ND		5.0	0.63	ug/L		09/15/14 14:06	09/19/14 01:08	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.20	ug/L		09/15/14 14:06	09/19/14 01:08	1
Isophorone	ND		5.0	0.64	ug/L		09/15/14 14:06	09/19/14 01:08	1
Naphthalene	ND		5.0	0.14	ug/L		09/15/14 14:06	09/19/14 01:08	1
Nitrobenzene	ND		5.0	0.84	ug/L		09/15/14 14:06	09/19/14 01:08	1
N-Nitrosodimethylamine	ND		10	0.74	ug/L		09/15/14 14:06	09/19/14 01:08	1
N-Nitrosodi-n-propylamine	ND		5.0	0.31	ug/L		09/15/14 14:06	09/19/14 01:08	1
N-Nitrosodiphenylamine	ND		5.0	0.85	ug/L		09/15/14 14:06	09/19/14 01:08	1
Pentachlorophenol	ND		10	0.66	ug/L		09/15/14 14:06	09/19/14 01:08	1
Phenanthrene	ND		5.0	0.43	ug/L		09/15/14 14:06	09/19/14 01:08	1
Phenol	ND		5.0	0.58	ug/L		09/15/14 14:06	09/19/14 01:08	1
Pyrene	ND		5.0	0.16	ug/L		09/15/14 14:06	09/19/14 01:08	1

TestAmerica Buffalo

Client Sample Results

Client: Honeywell International Inc

TestAmerica Job ID: 480-66924-1

Project/Site: 30130 - Alltift OM Phase / Semi Annual

Client Sample ID: Alltift Collection Sump - Grab 1-4

Lab Sample ID: 480-66924-2

Matrix: Water

Date Collected: 09/09/14 13:30

Date Received: 09/09/14 14:05

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	60		21 - 122	09/15/14 14:06	09/19/14 01:08	1
2-Fluorobiphenyl	52		30 - 110	09/15/14 14:06	09/19/14 01:08	1
2-Fluorophenol	49		31 - 104	09/15/14 14:06	09/19/14 01:08	1
Nitrobenzene-d5	51		32 - 112	09/15/14 14:06	09/19/14 01:08	1
Phenol-d5	54		30 - 117	09/15/14 14:06	09/19/14 01:08	1
Terphenyl-d14	36		21 - 121	09/15/14 14:06	09/19/14 01:08	1

Client Sample Results

Client: Honeywell International Inc
 Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-66924-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-66924-3

Matrix: Water

Date Collected: 09/09/14 00:00

Date Received: 09/09/14 14:05

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			09/10/14 10:45	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			09/10/14 10:45	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			09/10/14 10:45	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			09/10/14 10:45	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			09/10/14 10:45	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			09/10/14 10:45	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			09/10/14 10:45	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			09/10/14 10:45	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			09/10/14 10:45	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			09/10/14 10:45	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			09/10/14 10:45	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			09/10/14 10:45	1
Acrolein	ND		100	17	ug/L			09/10/14 10:45	1
Acrylonitrile	ND		50	1.9	ug/L			09/10/14 10:45	1
Benzene	ND		5.0	0.60	ug/L			09/10/14 10:45	1
Bromoform	ND		5.0	0.47	ug/L			09/10/14 10:45	1
Bromomethane	ND		5.0	1.2	ug/L			09/10/14 10:45	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			09/10/14 10:45	1
Chlorobenzene	ND		5.0	0.48	ug/L			09/10/14 10:45	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			09/10/14 10:45	1
Chloroethane	ND		5.0	0.87	ug/L			09/10/14 10:45	1
Chloroform	ND		5.0	0.54	ug/L			09/10/14 10:45	1
Chloromethane	ND		5.0	0.64	ug/L			09/10/14 10:45	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			09/10/14 10:45	1
Dichlorobromomethane	ND		5.0	0.54	ug/L			09/10/14 10:45	1
Ethylbenzene	ND		5.0	0.46	ug/L			09/10/14 10:45	1
Methylene Chloride	ND		5.0	0.81	ug/L			09/10/14 10:45	1
Tetrachloroethene	ND		5.0	0.34	ug/L			09/10/14 10:45	1
Toluene	ND		5.0	0.45	ug/L			09/10/14 10:45	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			09/10/14 10:45	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			09/10/14 10:45	1
Trichloroethene	ND		5.0	0.60	ug/L			09/10/14 10:45	1
Vinyl chloride	ND		5.0	0.75	ug/L			09/10/14 10:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		72 - 130		09/10/14 10:45	1
4-Bromofluorobenzene (Surr)	100		69 - 121		09/10/14 10:45	1
Toluene-d8 (Surr)	98		70 - 123		09/10/14 10:45	1

TestAmerica Buffalo

Surrogate Summary

Client: Honeywell International Inc
 Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-66924-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		12DCE (72-130)	BFB (69-121)	TOL (70-123)
480-66924-2	Alltift Collection Sump - Grab 1-4	115	100	98
480-66924-2 MS	Alltift Collection Sump - Grab 1-4	116	102	99
480-66924-2 MSD	Alltift Collection Sump - Grab 1-4	107	102	99
480-66924-3	TRIP BLANK	117	100	98
LCS 480-201524/13	Lab Control Sample	106	100	101
MB 480-201524/15	Method Blank	112	98	103

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (21-122)	FBP (30-110)	2FP (31-104)	NBZ (32-112)	PHL (30-117)	TPH (21-121)
480-66924-2	Alltift Collection Sump - Grab 1-4	60	52	49	51	54	36
LCS 180-118075/2-A	Lab Control Sample	61	58	51	55	60	66
LCSD 180-118075/3-A	Lab Control Sample Dup	66	56	52	54	58	68
MB 180-118075/1-A	Method Blank	51	59	62	60	60	69

Surrogate Legend

TBP = 2,4,6-Tribromophenol

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol

NBZ = Nitrobenzene-d5

PHL = Phenol-d5

TPH = Terphenyl-d14

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-66924-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-201524/15

Matrix: Water

Analysis Batch: 201524

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
1,1,1-Trichloroethane	ND				5.0	0.39	ug/L			09/10/14 01:08	1
1,1,2,2-Tetrachloroethane	ND				5.0	0.26	ug/L			09/10/14 01:08	1
1,1,2-Trichloroethane	ND				5.0	0.48	ug/L			09/10/14 01:08	1
1,1-Dichloroethane	ND				5.0	0.59	ug/L			09/10/14 01:08	1
1,1-Dichloroethene	ND				5.0	0.85	ug/L			09/10/14 01:08	1
1,2-Dichlorobenzene	ND				5.0	0.44	ug/L			09/10/14 01:08	1
1,2-Dichloroethane	ND				5.0	0.60	ug/L			09/10/14 01:08	1
1,2-Dichloroethene, Total	ND				10	3.2	ug/L			09/10/14 01:08	1
1,2-Dichloropropane	ND				5.0	0.61	ug/L			09/10/14 01:08	1
1,3-Dichlorobenzene	ND				5.0	0.54	ug/L			09/10/14 01:08	1
1,4-Dichlorobenzene	ND				5.0	0.51	ug/L			09/10/14 01:08	1
2-Chloroethyl vinyl ether	ND				25	1.9	ug/L			09/10/14 01:08	1
Acrolein	ND				100	17	ug/L			09/10/14 01:08	1
Acrylonitrile	ND				50	1.9	ug/L			09/10/14 01:08	1
Benzene	ND				5.0	0.60	ug/L			09/10/14 01:08	1
Bromoform	ND				5.0	0.47	ug/L			09/10/14 01:08	1
Bromomethane	ND				5.0	1.2	ug/L			09/10/14 01:08	1
Carbon tetrachloride	ND				5.0	0.51	ug/L			09/10/14 01:08	1
Chlorobenzene	ND				5.0	0.48	ug/L			09/10/14 01:08	1
Chlorodibromomethane	ND				5.0	0.41	ug/L			09/10/14 01:08	1
Chloroethane	ND				5.0	0.87	ug/L			09/10/14 01:08	1
Chloroform	ND				5.0	0.54	ug/L			09/10/14 01:08	1
Chloromethane	ND				5.0	0.64	ug/L			09/10/14 01:08	1
cis-1,3-Dichloropropene	ND				5.0	0.33	ug/L			09/10/14 01:08	1
Dichlorobromomethane	ND				5.0	0.54	ug/L			09/10/14 01:08	1
Ethylbenzene	ND				5.0	0.46	ug/L			09/10/14 01:08	1
Methylene Chloride	ND				5.0	0.81	ug/L			09/10/14 01:08	1
Tetrachloroethene	ND				5.0	0.34	ug/L			09/10/14 01:08	1
Toluene	ND				5.0	0.45	ug/L			09/10/14 01:08	1
trans-1,2-Dichloroethene	ND				5.0	0.59	ug/L			09/10/14 01:08	1
trans-1,3-Dichloropropene	ND				5.0	0.44	ug/L			09/10/14 01:08	1
Trichloroethene	ND				5.0	0.60	ug/L			09/10/14 01:08	1
Vinyl chloride	ND				5.0	0.75	ug/L			09/10/14 01:08	1
Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
	%Recovery	Qualifier									
1,2-Dichloroethane-d4 (Surr)	112		72 - 130								
4-Bromofluorobenzene (Surr)	98		69 - 121								
Toluene-d8 (Surr)	103		70 - 123								

Lab Sample ID: LCS 480-201524/13

Matrix: Water

Analysis Batch: 201524

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

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits	Prepared	Analyzed	Dil Fac
	Added	Result	Qualifier							
1,1,1-Trichloroethane	20.0	18.4		ug/L		92	52 - 162			
1,1,2,2-Tetrachloroethane	20.0	18.1		ug/L		91	46 - 157			
1,1,2-Trichloroethane	20.0	19.2		ug/L		96	52 - 150			
1,1-Dichloroethane	20.0	20.1		ug/L		101	59 - 155			

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc

TestAmerica Job ID: 480-66924-1

Project/Site: 30130 - Alltift OM Phase / Semi Annual

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-201524/13

Matrix: Water

Analysis Batch: 201524

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

Analyte	Spike		LCS		Unit	D	%Rec.		Limits
	Added	Result	Qualifier	%Rec					
1,1-Dichloroethene	20.0	18.9		94	ug/L				1 - 234
1,2-Dichlorobenzene	20.0	17.7		88	ug/L				18 - 190
1,2-Dichloroethane	20.0	18.8		94	ug/L				49 - 155
1,2-Dichloropropane	20.0	19.4		97	ug/L				1 - 210
1,3-Dichlorobenzene	20.0	17.9		89	ug/L				59 - 156
1,4-Dichlorobenzene	20.0	17.8		89	ug/L				18 - 190
2-Chloroethyl vinyl ether	20.0	18.0	J	90	ug/L				1 - 305
Benzene	20.0	19.2		96	ug/L				37 - 151
Bromoform	20.0	16.2		81	ug/L				45 - 169
Bromomethane	20.0	20.7		103	ug/L				1 - 242
Carbon tetrachloride	20.0	18.0		90	ug/L				70 - 140
Chlorobenzene	20.0	18.3		92	ug/L				37 - 160
Chlorodibromomethane	20.0	17.3		86	ug/L				53 - 149
Chloroethane	20.0	19.5		98	ug/L				14 - 230
Chloroform	20.0	19.7		98	ug/L				51 - 138
Chloromethane	20.0	20.0		100	ug/L				1 - 273
cis-1,3-Dichloropropene	20.0	18.2		91	ug/L				1 - 227
Dichlorobromomethane	20.0	18.1		91	ug/L				35 - 155
Ethylbenzene	20.0	18.3		91	ug/L				37 - 162
Methylene Chloride	20.0	18.9		94	ug/L				1 - 221
Tetrachloroethene	20.0	17.6		88	ug/L				64 - 148
Toluene	20.0	18.5		92	ug/L				47 - 150
trans-1,2-Dichloroethene	20.0	20.1		100	ug/L				54 - 156
trans-1,3-Dichloropropene	20.0	19.7		98	ug/L				17 - 183
Trichloroethene	20.0	18.6		93	ug/L				71 - 157
Vinyl chloride	20.0	18.1		91	ug/L				1 - 251

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	106		72 - 130
4-Bromofluorobenzene (Surr)	100		69 - 121
Toluene-d8 (Surr)	101		70 - 123

Lab Sample ID: 480-66924-2 MS

Matrix: Water

Analysis Batch: 201524

Client Sample ID: Alltift Collection Sump - Grab 1-4
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec.		Limits
	Result	Qualifier	Added	Result	Qualifier					
1,1,1-Trichloroethane	ND		200	178		ug/L		89		52 - 162
1,1,2,2-Tetrachloroethane	ND		200	167		ug/L		84		46 - 157
1,1,2-Trichloroethane	ND		200	168		ug/L		84		52 - 150
1,1-Dichloroethane	ND		200	185		ug/L		92		59 - 155
1,1-Dichloroethene	ND		200	210		ug/L		105		1 - 234
1,2-Dichlorobenzene	ND		200	165		ug/L		82		18 - 190
1,2-Dichloroethane	ND		200	184		ug/L		92		49 - 155
1,2-Dichloropropane	ND		200	168		ug/L		84		1 - 210
1,3-Dichlorobenzene	ND		200	163		ug/L		82		59 - 156
1,4-Dichlorobenzene	ND		200	160		ug/L		80		18 - 190
2-Chloroethyl vinyl ether	ND		200	159	J	ug/L		79		1 - 305

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-66924-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-66924-2 MS

Matrix: Water

Analysis Batch: 201524

Client Sample ID: Alltift Collection Sump - Grab 1-4
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Benzene	ND		200	177		ug/L		89	37 - 151
Bromoform	ND		200	122		ug/L		61	45 - 169
Bromomethane	ND		200	188		ug/L		94	1 - 242
Carbon tetrachloride	ND		200	177		ug/L		88	70 - 140
Chlorobenzene	70		200	232		ug/L		81	37 - 160
Chlorodibromomethane	ND		200	143		ug/L		72	53 - 149
Chloroethane	ND		200	194		ug/L		97	14 - 230
Chloroform	ND		200	181		ug/L		91	51 - 138
Chloromethane	ND		200	185		ug/L		92	1 - 273
cis-1,3-Dichloropropene	ND		200	150		ug/L		75	1 - 227
Dichlorobromomethane	ND		200	154		ug/L		77	35 - 155
Ethylbenzene	ND		200	167		ug/L		84	37 - 162
Methylene Chloride	ND		200	175		ug/L		87	1 - 221
Tetrachloroethene	ND		200	168		ug/L		84	64 - 148
Toluene	ND		200	167		ug/L		84	47 - 150
trans-1,2-Dichloroethene	ND		200	193		ug/L		96	54 - 156
trans-1,3-Dichloropropene	ND		200	162		ug/L		81	17 - 183
Trichloroethene	ND		200	171		ug/L		86	71 - 157
Vinyl chloride	9.6	J	200	200		ug/L		95	1 - 251
<hr/>									
Surrogate		MS	MS						
		%Recovery	Qualifier			Limits			
1,2-Dichloroethane-d4 (Surr)		116		72 - 130					
4-Bromofluorobenzene (Surr)		102		69 - 121					
Toluene-d8 (Surr)		99		70 - 123					

Lab Sample ID: 480-66924-2 MSD

Matrix: Water

Analysis Batch: 201524

Client Sample ID: Alltift Collection Sump - Grab 1-4
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
1,1,1-Trichloroethane	ND		200	201		ug/L		100	52 - 162	12	15
1,1,2,2-Tetrachloroethane	ND		200	195		ug/L		98	46 - 157	15	15
1,1,2-Trichloroethane	ND		200	193		ug/L		97	52 - 150	14	15
1,1-Dichloroethane	ND		200	204		ug/L		102	59 - 155	10	15
1,1-Dichloroethene	ND		200	212		ug/L		106	1 - 234	1	15
1,2-Dichlorobenzene	ND		200	189		ug/L		95	18 - 190	14	15
1,2-Dichloroethane	ND		200	196		ug/L		98	49 - 155	6	15
1,2-Dichloropropane	ND		200	187		ug/L		94	1 - 210	11	15
1,3-Dichlorobenzene	ND		200	186		ug/L		93	59 - 156	13	15
1,4-Dichlorobenzene	ND		200	185		ug/L		93	18 - 190	15	15
2-Chloroethyl vinyl ether	ND		200	173	J	ug/L		86	1 - 305	8	15
Benzene	ND		200	199		ug/L		100	37 - 151	12	15
Bromoform	ND		200	154	F2	ug/L		77	45 - 169	23	15
Bromomethane	ND		200	187		ug/L		93	1 - 242	0	15
Carbon tetrachloride	ND		200	196		ug/L		98	70 - 140	10	15
Chlorobenzene	70		200	258		ug/L		94	37 - 160	11	15
Chlorodibromomethane	ND		200	166		ug/L		83	53 - 149	15	15
Chloroethane	ND		200	190		ug/L		95	14 - 230	2	15

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
 Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-66924-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-66924-2 MSD

Matrix: Water

Analysis Batch: 201524

Client Sample ID: Alltift Collection Sump - Grab 1-4
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
Chloroform	ND		200	204		ug/L		102	51 - 138	12	15
Chloromethane	ND		200	187		ug/L		93	1 - 273	1	15
cis-1,3-Dichloropropene	ND		200	170		ug/L		85	1 - 227	13	15
Dichlorobromomethane	ND		200	176		ug/L		88	35 - 155	13	15
Ethylbenzene	ND		200	191		ug/L		96	37 - 162	14	15
Methylene Chloride	ND		200	197		ug/L		98	1 - 221	12	15
Tetrachloroethene	ND		200	190		ug/L		95	64 - 148	12	15
Toluene	ND		200	184		ug/L		92	47 - 150	10	15
trans-1,2-Dichloroethene	ND		200	204		ug/L		102	54 - 156	6	15
trans-1,3-Dichloropropene	ND		200	176		ug/L		88	17 - 183	8	15
Trichloroethene	ND		200	190		ug/L		95	71 - 157	11	15
Vinyl chloride	9.6	J	200	194		ug/L		92	1 - 251	3	15
Surrogate		MSD	MSD								
Surrogate		%Recovery	Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)		107		72 - 130							
4-Bromofluorobenzene (Surr)		102		69 - 121							
Toluene-d8 (Surr)		99		70 - 123							

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-118075/1-A

Matrix: Water

Analysis Batch: 118471

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 118075

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trichlorobenzene	ND		10	0.71	ug/L		09/15/14 10:35	09/18/14 23:17	1
1,2-Dichlorobenzene	ND		10	0.75	ug/L		09/15/14 10:35	09/18/14 23:17	1
1,2-Diphenylhydrazine	ND		10	0.66	ug/L		09/15/14 10:35	09/18/14 23:17	1
1,3-Dichlorobenzene	ND		10	0.74	ug/L		09/15/14 10:35	09/18/14 23:17	1
1,4-Dichlorobenzene	ND		10	0.74	ug/L		09/15/14 10:35	09/18/14 23:17	1
2,4,6-Trichlorophenol	ND		5.0	1.7	ug/L		09/15/14 10:35	09/18/14 23:17	1
2,4-Dichlorophenol	ND		5.0	0.33	ug/L		09/15/14 10:35	09/18/14 23:17	1
2,4-Dimethylphenol	ND		5.0	0.85	ug/L		09/15/14 10:35	09/18/14 23:17	1
2,4-Dinitrophenol	ND		10	6.1	ug/L		09/15/14 10:35	09/18/14 23:17	1
2,4-Dinitrotoluene	ND		5.0	0.54	ug/L		09/15/14 10:35	09/18/14 23:17	1
2,6-Dinitrotoluene	ND		5.0	0.80	ug/L		09/15/14 10:35	09/18/14 23:17	1
2-Chloronaphthalene	ND		5.0	0.15	ug/L		09/15/14 10:35	09/18/14 23:17	1
2-Chlorophenol	ND		5.0	1.7	ug/L		09/15/14 10:35	09/18/14 23:17	1
2-Nitrophenol	ND		5.0	1.7	ug/L		09/15/14 10:35	09/18/14 23:17	1
3,3'-Dichlorobenzidine	ND		5.0	1.1	ug/L		09/15/14 10:35	09/18/14 23:17	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		09/15/14 10:35	09/18/14 23:17	1
4-Bromophenyl phenyl ether	ND		5.0	0.64	ug/L		09/15/14 10:35	09/18/14 23:17	1
4-Chloro-3-methylphenol	ND		5.0	0.75	ug/L		09/15/14 10:35	09/18/14 23:17	1
4-Chloroaniline	ND		5.0	0.89	ug/L		09/15/14 10:35	09/18/14 23:17	1
4-Chlorophenyl phenyl ether	ND		5.0	0.50	ug/L		09/15/14 10:35	09/18/14 23:17	1
4-Nitrophenol	ND		10	6.5	ug/L		09/15/14 10:35	09/18/14 23:17	1
Acenaphthene	ND		5.0	0.14	ug/L		09/15/14 10:35	09/18/14 23:17	1
Acenaphthylene	ND		5.0	0.15	ug/L		09/15/14 10:35	09/18/14 23:17	1

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc

TestAmerica Job ID: 480-66924-1

Project/Site: 30130 - Alltift OM Phase / Semi Annual

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 180-118075/1-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 118471

Prep Batch: 118075

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		5.0	0.15	ug/L		09/15/14 10:35	09/18/14 23:17	1
Benzidine	ND		80	35	ug/L		09/15/14 10:35	09/18/14 23:17	1
Benzo[a]anthracene	ND		5.0	0.15	ug/L		09/15/14 10:35	09/18/14 23:17	1
Benzo[a]pyrene	ND		5.0	0.13	ug/L		09/15/14 10:35	09/18/14 23:17	1
Benzo[b]fluoranthene	ND		5.0	0.16	ug/L		09/15/14 10:35	09/18/14 23:17	1
Benzo[g,h,i]perylene	ND		5.0	0.15	ug/L		09/15/14 10:35	09/18/14 23:17	1
Benzo[k]fluoranthene	ND		5.0	0.55	ug/L		09/15/14 10:35	09/18/14 23:17	1
bis (2-chloroisopropyl) ether	ND		5.0	0.20	ug/L		09/15/14 10:35	09/18/14 23:17	1
Bis(2-chloroethoxy)methane	ND		5.0	0.58	ug/L		09/15/14 10:35	09/18/14 23:17	1
Bis(2-chloroethyl)ether	ND		5.0	0.25	ug/L		09/15/14 10:35	09/18/14 23:17	1
Bis(2-ethylhexyl) phthalate	ND		13	13	ug/L		09/15/14 10:35	09/18/14 23:17	1
Butyl benzyl phthalate	ND		5.0	1.4	ug/L		09/15/14 10:35	09/18/14 23:17	1
Chrysene	ND		5.0	0.14	ug/L		09/15/14 10:35	09/18/14 23:17	1
Dibenz(a,h)anthracene	ND		5.0	0.16	ug/L		09/15/14 10:35	09/18/14 23:17	1
Diethyl phthalate	ND		5.0	1.5	ug/L		09/15/14 10:35	09/18/14 23:17	1
Dimethyl phthalate	ND		5.0	0.77	ug/L		09/15/14 10:35	09/18/14 23:17	1
Di-n-butyl phthalate	ND		5.0	1.2	ug/L		09/15/14 10:35	09/18/14 23:17	1
Di-n-octyl phthalate	ND		5.0	2.1	ug/L		09/15/14 10:35	09/18/14 23:17	1
Fluoranthene	ND		5.0	0.16	ug/L		09/15/14 10:35	09/18/14 23:17	1
Fluorene	ND		5.0	0.22	ug/L		09/15/14 10:35	09/18/14 23:17	1
Hexachlorobenzene	ND		5.0	0.18	ug/L		09/15/14 10:35	09/18/14 23:17	1
Hexachlorobutadiene	ND		5.0	0.17	ug/L		09/15/14 10:35	09/18/14 23:17	1
Hexachlorocyclopentadiene	ND		5.0	0.52	ug/L		09/15/14 10:35	09/18/14 23:17	1
Hexachloroethane	ND		5.0	0.63	ug/L		09/15/14 10:35	09/18/14 23:17	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.20	ug/L		09/15/14 10:35	09/18/14 23:17	1
Isophorone	ND		5.0	0.64	ug/L		09/15/14 10:35	09/18/14 23:17	1
Naphthalene	ND		5.0	0.14	ug/L		09/15/14 10:35	09/18/14 23:17	1
Nitrobenzene	ND		5.0	0.84	ug/L		09/15/14 10:35	09/18/14 23:17	1
N-Nitrosodimethylamine	ND		10	0.74	ug/L		09/15/14 10:35	09/18/14 23:17	1
N-Nitrosodi-n-propylamine	ND		5.0	0.31	ug/L		09/15/14 10:35	09/18/14 23:17	1
N-Nitrosodiphenylamine	ND		5.0	0.85	ug/L		09/15/14 10:35	09/18/14 23:17	1
Pentachlorophenol	ND		10	0.66	ug/L		09/15/14 10:35	09/18/14 23:17	1
Phenanthrene	ND		5.0	0.43	ug/L		09/15/14 10:35	09/18/14 23:17	1
Phenol	ND		5.0	0.58	ug/L		09/15/14 10:35	09/18/14 23:17	1
Pyrene	ND		5.0	0.16	ug/L		09/15/14 10:35	09/18/14 23:17	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	51		21 - 122		09/15/14 10:35	09/18/14 23:17
2-Fluorobiphenyl	59		30 - 110		09/15/14 10:35	09/18/14 23:17
2-Fluorophenol	62		31 - 104		09/15/14 10:35	09/18/14 23:17
Nitrobenzene-d5	60		32 - 112		09/15/14 10:35	09/18/14 23:17
Phenol-d5	60		30 - 117		09/15/14 10:35	09/18/14 23:17
Terphenyl-d14	69		21 - 121		09/15/14 10:35	09/18/14 23:17

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc

TestAmerica Job ID: 480-66924-1

Project/Site: 30130 - Alltift OM Phase / Semi Annual

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-118075/2-A

Matrix: Water

Analysis Batch: 118471

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 118075

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,2,4-Trichlorobenzene	100	59.8		ug/L	60	44 - 142	
1,2-Dichlorobenzene	100	54.6		ug/L	55	32 - 129	
1,3-Dichlorobenzene	100	53.3		ug/L	53	32 - 102	
1,4-Dichlorobenzene	100	56.5		ug/L	56	28 - 110	
2,4,6-Trichlorophenol	100	68.1		ug/L	68	37 - 144	
2,4-Dichlorophenol	100	64.7		ug/L	65	39 - 135	
2,4-Dimethylphenol	100	63.6		ug/L	64	32 - 119	
2,4-Dinitrophenol	200	68.2		ug/L	34	10 - 150	
2,4-Dinitrotoluene	100	73.8		ug/L	74	39 - 139	
2,6-Dinitrotoluene	100	74.6		ug/L	75	50 - 158	
2-Chloronaphthalene	100	56.8	*	ug/L	57	60 - 118	
2-Chlorophenol	100	59.0		ug/L	59	23 - 124	
2-Nitrophenol	100	62.3		ug/L	62	29 - 132	
3,3'-Dichlorobenzidine	100	75.0		ug/L	75	10 - 150	
4,6-Dinitro-2-methylphenol	200	108		ug/L	54	10 - 150	
4-Bromophenyl phenyl ether	100	72.0		ug/L	72	53 - 127	
4-Chloro-3-methylphenol	100	67.9		ug/L	68	22 - 134	
4-Chlorophenyl phenyl ether	100	64.9		ug/L	65	28 - 125	
4-Nitrophenol	200	151		ug/L	75	19 - 132	
Acenaphthene	100	64.1		ug/L	64	47 - 145	
Acenaphthylene	100	65.7		ug/L	66	33 - 145	
Anthracene	100	70.2		ug/L	70	27 - 133	
Benzo[a]anthracene	100	69.7		ug/L	70	33 - 143	
Benzo[a]pyrene	100	67.0		ug/L	67	34 - 122	
Benzo[b]fluoranthene	100	59.6		ug/L	60	24 - 159	
Benzo[g,h,i]perylene	100	80.6		ug/L	81	10 - 149	
Benzo[k]fluoranthene	100	65.5		ug/L	65	28 - 126	
bis (2-chloroisopropyl) ether	100	57.1		ug/L	57	21 - 115	
Bis(2-chloroethoxy)methane	100	61.9		ug/L	62	28 - 115	
Bis(2-chloroethyl)ether	100	58.3		ug/L	58	30 - 140	
Bis(2-ethylhexyl) phthalate	100	79.3		ug/L	79	21 - 126	
Butyl benzyl phthalate	100	81.1		ug/L	81	25 - 119	
Chrysene	100	69.4		ug/L	69	32 - 120	
Dibenz(a,h)anthracene	100	73.7		ug/L	74	11 - 146	
Diethyl phthalate	100	74.4		ug/L	74	10 - 114	
Dimethyl phthalate	100	72.0		ug/L	72	13 - 112	
Di-n-butyl phthalate	100	78.0		ug/L	78	36 - 118	
Di-n-octyl phthalate	100	75.4		ug/L	75	18 - 125	
Fluoranthene	100	74.4		ug/L	74	26 - 137	
Fluorene	100	69.9		ug/L	70	59 - 121	
Hexachlorobenzene	100	68.2		ug/L	68	28 - 128	
Hexachlorocyclopentadiene	100	50.8		ug/L	51	10 - 138	
Hexachloroethane	100	53.2		ug/L	53	40 - 113	
Indeno[1,2,3-cd]pyrene	100	74.3		ug/L	74	10 - 150	
Isophorone	100	68.5		ug/L	68	21 - 122	
Naphthalene	100	59.2		ug/L	59	21 - 133	
Nitrobenzene	100	61.7		ug/L	62	35 - 150	
N-Nitrosodi-n-propylamine	100	67.8		ug/L	68	30 - 115	

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
 Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-66924-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-118075/2-A

Matrix: Water

Analysis Batch: 118471

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 118075

Analyte	Spike Added	LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
N-Nitrosodiphenylamine	100	70.5		ug/L	71	25 - 118	
Pentachlorophenol	200	138		ug/L	69	14 - 140	
Phenanthrene	100	69.1		ug/L	69	54 - 120	
Phenol	100	59.7		ug/L	60	31 - 112	
Pyrene	100	66.6		ug/L	67	52 - 115	

Surrogate	LCS %Recovery	LCS		Limits
		Qualifier		
2,4,6-Tribromophenol	61		21 - 122	
2-Fluorobiphenyl	58		30 - 110	
2-Fluorophenol	51		31 - 104	
Nitrobenzene-d5	55		32 - 112	
Phenol-d5	60		30 - 117	
Terphenyl-d4	66		21 - 121	

Lab Sample ID: LCSD 180-118075/3-A

Matrix: Water

Analysis Batch: 118471

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 118075

Analyte	Spike Added	LCSD		Unit	D	%Rec	Limits	RPD	Limit
		Result	Qualifier						
1,2,4-Trichlorobenzene	100	58.2		ug/L	58	44 - 142		3	35
1,2-Dichlorobenzene	100	54.3		ug/L	54	32 - 129		1	20
1,3-Dichlorobenzene	100	53.5		ug/L	53	32 - 102		0	35
1,4-Dichlorobenzene	100	53.7		ug/L	54	28 - 110		5	35
2,4,6-Trichlorophenol	100	68.6		ug/L	69	37 - 144		1	27
2,4-Dichlorophenol	100	62.9		ug/L	63	39 - 135		3	35
2,4-Dimethylphenol	100	61.6		ug/L	62	32 - 119		3	20
2,4-Dinitrophenol	200	72.3		ug/L	36	10 - 150		6	35
2,4-Dinitrotoluene	100	75.7		ug/L	76	39 - 139		3	32
2,6-Dinitrotoluene	100	72.4		ug/L	72	50 - 158		3	20
2-Chloronaphthalene	100	55.3 *		ug/L	55	60 - 118		3	20
2-Chlorophenol	100	57.5		ug/L	57	23 - 124		3	35
2-Nitrophenol	100	60.3		ug/L	60	29 - 132		3	32
3,3'-Dichlorobenzidine	100	76.9		ug/L	77	10 - 150		3	35
4,6-Dinitro-2-methylphenol	200	120		ug/L	60	10 - 150		10	35
4-Bromophenyl phenyl ether	100	69.2		ug/L	69	53 - 127		4	20
4-Chloro-3-methylphenol	100	67.8		ug/L	68	22 - 134		0	35
4-Chlorophenyl phenyl ether	100	65.6		ug/L	66	28 - 125		1	27
4-Nitrophenol	200	152		ug/L	76	19 - 132		1	34
Acenaphthene	100	64.4		ug/L	64	47 - 145		0	35
Acenaphthylene	100	63.2		ug/L	63	33 - 145		4	23
Anthracene	100	70.2		ug/L	70	27 - 133		0	22
Benzo[a]anthracene	100	70.1		ug/L	70	33 - 143		1	23
Benzo[a]pyrene	100	67.9		ug/L	68	34 - 122		1	31
Benzo[b]fluoranthene	100	62.5		ug/L	62	24 - 159		5	28
Benzo[g,h,i]perylene	100	81.5		ug/L	81	10 - 149		1	35
Benzo[k]fluoranthene	100	67.0		ug/L	67	28 - 126		2	31
bis (2-chloroisopropyl) ether	100	56.3		ug/L	56	21 - 115		1	27
Bis(2-chloroethoxy)methane	100	61.1		ug/L	61	28 - 115		1	30

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-66924-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 180-118075/3-A

Matrix: Water

Analysis Batch: 118471

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 118075

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	RPD	Limit
	Added	Result	Qualifier							
Bis(2-chloroethyl)ether	100	56.5		ug/L		57	30 - 140	3	30	
Bis(2-ethylhexyl) phthalate	100	80.6		ug/L		81	21 - 126	2	31	
Butyl benzyl phthalate	100	79.9		ug/L		80	25 - 119	1	35	
Chrysene	100	69.7		ug/L		70	32 - 120	1	31	
Dibenz(a,h)anthracene	100	75.5		ug/L		75	11 - 146	2	35	
Diethyl phthalate	100	74.6		ug/L		75	10 - 114	0	24	
Dimethyl phthalate	100	72.2		ug/L		72	13 - 112	0	22	
Di-n-butyl phthalate	100	76.1		ug/L		76	36 - 118	3	24	
Di-n-octyl phthalate	100	74.2		ug/L		74	18 - 125	2	29	
Fluoranthene	100	74.2		ug/L		74	26 - 137	0	23	
Fluorene	100	70.0		ug/L		70	59 - 121	0	20	
Hexachlorobenzene	100	69.8		ug/L		70	28 - 128	2	22	
Hexachlorocyclopentadiene	100	50.1		ug/L		50	10 - 138	2	35	
Hexachloroethane	100	52.1		ug/L		52	40 - 113	2	33	
Indeno[1,2,3-cd]pyrene	100	75.7		ug/L		76	10 - 150	2	35	
Isophorone	100	66.4		ug/L		66	21 - 122	3	35	
Naphthalene	100	58.0		ug/L		58	21 - 133	2	23	
Nitrobenzene	100	58.0		ug/L		58	35 - 150	6	35	
N-Nitrosodi-n-propylamine	100	66.0		ug/L		66	30 - 115	3	36	
N-Nitrosodiphenylamine	100	70.0		ug/L		70	25 - 118	1	35	
Pentachlorophenol	200	138		ug/L		69	14 - 140	0	35	
Phenanthrene	100	68.1		ug/L		68	54 - 120	1	20	
Phenol	100	57.8		ug/L		58	31 - 112	3	35	
Pyrene	100	68.9		ug/L		69	52 - 115	3	31	

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol	66		21 - 122
2-Fluorobiphenyl	56		30 - 110
2-Fluorophenol	52		31 - 104
Nitrobenzene-d5	54		32 - 112
Phenol-d5	58		30 - 117
Terphenyl-d14	68		21 - 121

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-201609/1-A

Matrix: Water

Analysis Batch: 202449

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 201609

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	ND		0.010	0.0056	mg/L		09/10/14 10:54	09/12/14 18:00	1
Barium	ND		0.0020	0.00070	mg/L		09/10/14 10:54	09/12/14 18:00	1
Chromium	ND		0.0040	0.0010	mg/L		09/10/14 10:54	09/12/14 18:00	1
Copper	ND		0.010	0.0016	mg/L		09/10/14 10:54	09/12/14 18:00	1
Nickel	ND		0.010	0.0013	mg/L		09/10/14 10:54	09/12/14 18:00	1
Zinc	ND		0.010	0.0015	mg/L		09/10/14 10:54	09/12/14 18:00	1

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-66924-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-201609/2-A

Matrix: Water

Analysis Batch: 202449

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 201609

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
	Added	Result	Qualifier				
Arsenic	0.200	0.196		mg/L	98	85 - 115	
Barium	0.200	0.197		mg/L	99	85 - 115	
Chromium	0.200	0.194		mg/L	97	85 - 115	
Copper	0.200	0.206		mg/L	103	85 - 115	
Nickel	0.200	0.187		mg/L	94	85 - 115	
Zinc	0.200	0.201		mg/L	101	85 - 115	

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-201862/1

Matrix: Water

Analysis Batch: 201862

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
Total Suspended Solids	ND				4.0	4.0	mg/L			09/11/14 09:35	1

Lab Sample ID: LCS 480-201862/2

Matrix: Water

Analysis Batch: 201862

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
	Added	Result	Qualifier				
Total Suspended Solids	271	263.2		mg/L	97	88 - 110	

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-201570/1

Matrix: Water

Analysis Batch: 201570

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
	Added	Result	Qualifier				
pH	7.00	6.950		SU		99	99 - 101

Lab Sample ID: LCS 480-201570/23

Matrix: Water

Analysis Batch: 201570

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
	Added	Result	Qualifier				
pH	7.00	6.990		SU		100	99 - 101

Method: SM 4500 P E - Phosphorus

Lab Sample ID: MB 480-202916/27

Matrix: Water

Analysis Batch: 202916

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
Phosphorus, Total	ND		0.010		0.0050	mg/L				09/17/14 09:27	1

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc

TestAmerica Job ID: 480-66924-1

Project/Site: 30130 - Alltift OM Phase / Semi Annual

Method: SM 4500 P E - Phosphorus (Continued)

Lab Sample ID: MB 480-202916/75

Matrix: Water

Analysis Batch: 202916

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phosphorus, Total	ND		0.010	0.0050	mg/L			09/17/14 09:27	1

Lab Sample ID: LCS 480-202916/28

Matrix: Water

Analysis Batch: 202916

Analyte	Spike	LCS	LCS	Unit	D	%Rec.	Limits
	Added	Result	Qualifier				
Phosphorus, Total	0.200	0.214		mg/L		107	90 - 110

Lab Sample ID: LCS 480-202916/76

Matrix: Water

Analysis Batch: 202916

Analyte	Spike	LCS	LCS	Unit	D	%Rec.	Limits
	Added	Result	Qualifier				
Phosphorus, Total	0.200	0.192		mg/L		96	90 - 110

QC Association Summary

Client: Honeywell International Inc
Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-66924-1

GC/MS VOA

Analysis Batch: 201524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-66924-2	Alltift Collection Sump - Grab 1-4	Total/NA	Water	624	
480-66924-2 MS	Alltift Collection Sump - Grab 1-4	Total/NA	Water	624	
480-66924-2 MSD	Alltift Collection Sump - Grab 1-4	Total/NA	Water	624	
480-66924-3	TRIP BLANK	Total/NA	Water	624	
LCS 480-201524/13	Lab Control Sample	Total/NA	Water	624	
MB 480-201524/15	Method Blank	Total/NA	Water	624	

GC/MS Semi VOA

Prep Batch: 118075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-66924-2	Alltift Collection Sump - Grab 1-4	Total/NA	Water	625	
LCS 180-118075/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 180-118075/3-A	Lab Control Sample Dup	Total/NA	Water	625	
MB 180-118075/1-A	Method Blank	Total/NA	Water	625	

Analysis Batch: 118471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-66924-2	Alltift Collection Sump - Grab 1-4	Total/NA	Water	625	118075
LCS 180-118075/2-A	Lab Control Sample	Total/NA	Water	625	118075
LCSD 180-118075/3-A	Lab Control Sample Dup	Total/NA	Water	625	118075
MB 180-118075/1-A	Method Blank	Total/NA	Water	625	118075

Metals

Prep Batch: 201609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-66924-1	Alltift Collection Sump - Comp	Total/NA	Water	200.7	
LCS 480-201609/2-A	Lab Control Sample	Total/NA	Water	200.7	
MB 480-201609/1-A	Method Blank	Total/NA	Water	200.7	

Analysis Batch: 202449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-66924-1	Alltift Collection Sump - Comp	Total/NA	Water	200.7 Rev 4.4	201609
LCS 480-201609/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	201609
MB 480-201609/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	201609

General Chemistry

Analysis Batch: 201570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-66924-1	Alltift Collection Sump - Comp	Total/NA	Water	SM 4500 H+ B	
LCS 480-201570/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
LCS 480-201570/23	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 201862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-66924-1	Alltift Collection Sump - Comp	Total/NA	Water	SM 2540D	
LCS 480-201862/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 480-201862/1	Method Blank	Total/NA	Water	SM 2540D	

TestAmerica Buffalo

QC Association Summary

Client: Honeywell International Inc

Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-66924-1

General Chemistry (Continued)

Analysis Batch: 202916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-66924-1	Alltift Collection Sump - Comp	Total/NA	Water	SM 4500 P E	5
LCS 480-202916/28	Lab Control Sample	Total/NA	Water	SM 4500 P E	6
LCS 480-202916/76	Lab Control Sample	Total/NA	Water	SM 4500 P E	7
MB 480-202916/27	Method Blank	Total/NA	Water	SM 4500 P E	8
MB 480-202916/75	Method Blank	Total/NA	Water	SM 4500 P E	9

Lab Chronicle

Client: Honeywell International Inc
Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-66924-1

Client Sample ID: Alltift Collection Sump - Comp

Lab Sample ID: 480-66924-1

Matrix: Water

Date Collected: 09/09/14 13:45
Date Received: 09/09/14 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.7			201609	09/10/14 10:54	SLB	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	202449	09/12/14 18:41	LMH	TAL BUF
Total/NA	Analysis	SM 2540D		1	201862	09/11/14 09:52	KJ1	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	201570	09/10/14 01:36	VAJ	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	202916	09/17/14 09:27	KMF	TAL BUF

Client Sample ID: Alltift Collection Sump - Grab 1-4

Lab Sample ID: 480-66924-2

Matrix: Water

Date Collected: 09/09/14 13:30
Date Received: 09/09/14 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		10	201524	09/10/14 10:20	NMD1	TAL BUF
Total/NA	Prep	625			118075	09/15/14 14:06	BJT	TAL PIT
Total/NA	Analysis	625		1	118471	09/19/14 01:08	VVP	TAL PIT

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-66924-3

Matrix: Water

Date Collected: 09/09/14 00:00
Date Received: 09/09/14 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	201524	09/10/14 10:45	NMD1	TAL BUF

Laboratory References:

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

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

TestAmerica Buffalo

Certification Summary

Client: Honeywell International Inc

TestAmerica Job ID: 480-66924-1

Project/Site: 30130 - Alltift OM Phase / Semi Annual

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-15

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
624		Water	1,2-Dichloroethene, Total
SM 4500 H+B		Water	pH

Laboratory: TestAmerica Pittsburgh

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-15
California	State Program	9	2891	03-31-15
Connecticut	State Program	1	PH-0688	09-30-14 *
Florida	NELAP	4	E871008	06-30-15
Illinois	NELAP	5	002602	06-30-15
Kansas	NELAP	7	E-10350	01-31-15
Louisiana	NELAP	6	04041	06-30-15
New Hampshire	NELAP	1	203011	04-04-15
New Jersey	NELAP	2	PA005	06-30-15
New York	NELAP	2	11182	03-31-15
North Carolina (WW/SW)	State Program	4	434	12-31-14
Pennsylvania	NELAP	3	02-00416	04-30-15
South Carolina	State Program	4	89014	04-30-15
Texas	NELAP	6	T104704528	03-31-15
US Fish & Wildlife	Federal		LE94312A-1	11-30-14
USDA	Federal		P330-10-00139	05-23-16
Utah	NELAP	8	STLP	05-31-15
Virginia	NELAP	3	460189	09-14-15
West Virginia DEP	State Program	3	142	01-31-15

* Certification renewal pending - certification considered valid.

Method Summary

Client: Honeywell International Inc

Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-66924-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
625	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL PIT
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF
SM 4500 P E	Phosphorus	SM	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.

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

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

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Sample Summary

Client: Honeywell International Inc

Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-66924-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-66924-1	Alltift Collection Sump - Comp	Water	09/09/14 13:45	09/09/14 14:05
480-66924-2	Alltift Collection Sump - Grab 1-4	Water	09/09/14 13:30	09/09/14 14:05
480-66924-3	TRIP BLANK	Water	09/09/14 00:00	09/09/14 14:05

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TestAmerica Buffalo

Chain of Custody Re

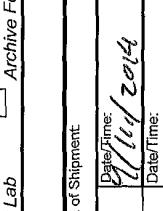
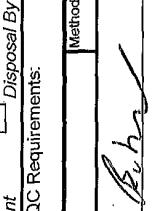
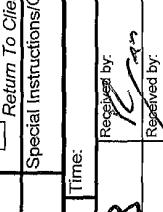
Client Information		Lab PM: John Schove Phone: 315-468-1663 E-Mail: john.schove@testamericaninc.com		Carrier Tracking No(s): COC No: 480-21387-2026-1 Page: Page 1 of 1 Job #:																									
Analysis Requested																													
<p>Preservation Codes:</p> <table border="0"> <tr><td>A - HCl</td><td>M - Hexane</td></tr> <tr><td>B - NaOH</td><td>N - None</td></tr> <tr><td>C - Zn Acetate</td><td>O - AsNaO2</td></tr> <tr><td>D - Nitric Acid</td><td>P - Na2OAs</td></tr> <tr><td>E - NaHSO4</td><td>Q - Na2SCo3</td></tr> <tr><td>F - MeOH</td><td>R - Na2S2Co3</td></tr> <tr><td>G - Anchior</td><td>S - H2SO4</td></tr> <tr><td>H - Ascorbic Acid</td><td>T - TSP Dodecahydrate</td></tr> <tr><td>I - ice</td><td></td></tr> <tr><td>J - DI Water</td><td>V - Acetone</td></tr> <tr><td>K - EDTA</td><td>W - pH 4-5</td></tr> <tr><td>L - EDA</td><td>Z - other (specify)</td></tr> </table> <p>Other:</p>						A - HCl	M - Hexane	B - NaOH	N - None	C - Zn Acetate	O - AsNaO2	D - Nitric Acid	P - Na2OAs	E - NaHSO4	Q - Na2SCo3	F - MeOH	R - Na2S2Co3	G - Anchior	S - H2SO4	H - Ascorbic Acid	T - TSP Dodecahydrate	I - ice		J - DI Water	V - Acetone	K - EDTA	W - pH 4-5	L - EDA	Z - other (specify)
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B - NaOH	N - None																												
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E - NaHSO4	Q - Na2SCo3																												
F - MeOH	R - Na2S2Co3																												
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J - DI Water	V - Acetone																												
K - EDTA	W - pH 4-5																												
L - EDA	Z - other (specify)																												
<p>Total Number of Contaminants:</p> <table border="0"> <tr><td>625 - Priority Pollutant List - SVOA - 625</td></tr> <tr><td>624 - Priority Pollutant List - VOA - 624</td></tr> <tr><td>2640D - Total Suspended Solids</td></tr> <tr><td>200,7 - Metals ICP - As, Ba, Cr, Cu, Zn</td></tr> <tr><td>4800 P - E - Phosphorous, Total</td></tr> <tr><td>4800 L - Manganese/MSD/Metals</td></tr> <tr><td>4800 F - Filtered Samples (Yes or No)</td></tr> <tr><td>SM4500 H+ - pH</td></tr> </table>						625 - Priority Pollutant List - SVOA - 625	624 - Priority Pollutant List - VOA - 624	2640D - Total Suspended Solids	200,7 - Metals ICP - As, Ba, Cr, Cu, Zn	4800 P - E - Phosphorous, Total	4800 L - Manganese/MSD/Metals	4800 F - Filtered Samples (Yes or No)	SM4500 H+ - pH																
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4800 L - Manganese/MSD/Metals																													
4800 F - Filtered Samples (Yes or No)																													
SM4500 H+ - pH																													
<p>Special Instructions/Note:</p> <p><input checked="" type="checkbox"/> Prior to analysis grab samples to be composited by lab</p>																													
Location Identification	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Oil, Co-natural, BFT=Issue A/Air)																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="6" style="text-align: center; padding: 2px;">Preservation Code</th> </tr> <tr> <th style="text-align: center; padding: 2px;">S</th> <th style="text-align: center; padding: 2px;">D</th> <th style="text-align: center; padding: 2px;">N</th> <th style="text-align: center; padding: 2px;">A</th> <th style="text-align: center; padding: 2px;">N</th> <th style="text-align: center; padding: 2px;">A</th> </tr> </thead> <tbody> <tr><td style="text-align: center; padding: 2px;">X</td><td style="text-align: center; padding: 2px;">X</td></tr> </tbody> </table>						Preservation Code						S	D	N	A	N	A	X	X	X	X	X	X						
Preservation Code																													
S	D	N	A	N	A																								
X	X	X	X	X	X																								
BSA Discharge	GRAB 1	9/14/14	0730	G	W N N																								
BSA Discharge	GRAB 2	9/14/14	0930	G	W N N																								
BSA Discharge	GRAB 3	9/14/14	1130	G	W N N																								
BSA Discharge	GRAB 4	9/14/14	1330	G	W N N																								
BSA Discharge	COMP 090914	9/14/14	1345	C	W N N																								
TRIPBLANK	090914-TB	9/14/14	1350	W	W N N																								
					1 TRIBLANK																								
<input type="checkbox"/> Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																													
<p>Possible Hazard Identification</p> <p><input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radio logical</p> <p>Deliverable Requested: I, II, III, IV, Other (specify)</p>																													
<p>Empty Kit Relinquished by:</p> <p><i>John Schove</i></p> <p>Date/Time: 9/14/14 09:45 AM Received by: <i>John Schove</i> Received by: <i>John Schove</i> Company Date/Time: 9/14/14 09:45 AM Received by: <i>John Schove</i> Received by: <i>John Schove</i> Company</p>																													
<p>Custody Seal Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Cooler Temperature(s) <input type="checkbox"/> and Other Remarks: <i>#2 4.8</i></p>																													

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TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

BNAI
Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL SERVICES SINCE 1972

Client Information (Sub Contract Lab)		Sampler:	Lab P/M: Schove, John R	Carrier Tracking No(s): COC No: 480-19303.1
Shipping/Receiving Company:	Phone:	E-Mail: john.schove@testamericainc.com	Page:	Page #: 1 of 1
Analysis Requested				
<input checked="" type="checkbox"/> Preservation Codes: A - HCl M - Hexane B - NaOH N - None C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anhydride H - Ascorbic Acid I - Ice J - Di Water K - EDTA L - EDA Other:				
Total Number of control(s): 6				
Sample Identification - Client ID (Lab ID) Alltiff Collection Sump - Grab 14 (480-66924-2)				
Sample Date: 9/9/14 Sample Time: 13:30 Eastern Matrix (Water, Sediment, Oil/Wastewater, En/Tissue, Ash) Preservation Code: X				
Project #: 48004175 SSOW#:				
Special Instructions/Note: 625/625_Prep (M0D) Priority Pollutant List - SVOA - 6 Filtered Sample (Yes or No)				
Special Instructions/Note: MAC01 - Composite Samples Prior to Analysis 4-7				
 480-66924 Chain of Custody				
Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)				
Empty Kit Relinquished by: John Schove Relinquished by: Relinquished by: Custody Seal intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cooler Temperature(s) °C and Other Remarks:				
Date/Time: 9-10-14 100 Company Received by:  Date/Time:  Company Received by: Date/Time: Company Received by: Date/Time: Company				
Method of Shipment: Date/Time: 9/11/2014 0905 Company Date/Time:  Company Date/Time: Company Date/Time: Company				
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months				
Special Instructions/QC Requirements:				

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Login Sample Receipt Checklist

Client: Honeywell International Inc

Job Number: 480-66924-1

Login Number: 66924

List Source: TestAmerica Buffalo

List Number: 1

Creator: Stau, Brandon M

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.	True	
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	omi
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	True	

Login Sample Receipt Checklist

Client: Honeywell International Inc

Job Number: 480-66924-1

Login Number: 66924

List Source: TestAmerica Pittsburgh

List Number: 2

List Creation: 09/15/14 01:16 PM

Creator: Kovitch, Christina M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received 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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX C

WATER LEVEL MEASUREMENTS

Alltift Landfill
Buffalo, New York

Piezometer Readings (DTW, ft)	5-May-14	3-Jun-14	26-Jun-14	24-Jul-14	13-Aug-14	20-Aug-14	9-Sep-14	10-Sep-14	26-Sep-14	6-Oct-14	30-Oct-14	16-Dec-14	20-Jan-15	12-Mar-15
PZ-1	8.80		8.42					7.04		6.91			8.13	10.78
PZ-2	8.93		8.84					8.85		8.90			8.92	8.55
PZ-3	10.15		10.34					11.80		13.35			6.99	7.32
PZ-4	7.72		7.20					6.84		6.60			7.63	8.57
PZ-5	8.88		7.78					7.85		7.90			7.52	7.68
PZ-6	9.28		9.32					10.60		12.10			6.51	6.77
PZ-7	7.95		6.50					9.10		10.22			6.12	6.40
PZ-8	6.40		6.04					7.32		8.30			5.20	5.43
PZ-9	6.82		8.55					7.68		8.40			6.48	6.66
PZ-10	7.91		8.60					10.02		9.34			7.98	7.88
PZ-11	6.94		7.95					8.78		8.95			7.76	8.81
PZ-12	7.68		8.84					9.87		10.12			8.62	9.95
PZ-13	5.95		6.80					7.62		7.38			5.82	5.84
PZ-14	dry		dry					dry		dry			dry	dry
PZ-15	7.84		7.72					7.97		8.20			7.98	8.37
PZ-16	dry		dry					dry		dry			dry	dry
Groundwater Collection Trench Sumps (DTW, ft)														
GWCT-1	9.95		9.82					7.72		8.00			13.43	13.59
GWCT-2	9.58		12.70					19.70		22.50			8.14	8.93
GWCT-3	8.95		9.08					10.19		11.40			6.59	6.85
GWCT-4	7.15		7.35					8.30		9.30			5.78	5.90
Relief Trench Sumps (DTW, ft)														
GWR-1	8.25		8.40					8.27		8.10			8.60	7.52
GWR-2	8.32		8.30					8.15		8.10			8.32	7.55
Lift Station (DTW, ft)														
Lift	9.62		9.52					9.90		9.60			9.45	9.50

APPENDIX D

QUARTERLY GROUNDWATER ELEVATIONS

QUARTERLY GROUNDWATER ELEVATIONS

2014/2015 ANNUAL REPORT

ALLTIFT LANDFILL SITE

BUFFALO, NEW YORK

MONITORING POINT	TOTAL DEPTH (FT.)	TOP OF CASING ELEVATION	5/5/2014		6/26/2014		9/10/2014		10/6/2014		1/20/2015		3/12/2015	
			DEPTH TO WATER	GROUND WATER ELEVATION										
PIEZOMETERS														
PZ-1	16.8	585.01	8.80	576.21	8.42	576.59	7.04	577.97	6.91	578.10	8.13	576.88	10.78	574.23
PZ-2	16.9	584.96	8.93	576.03	8.84	576.12	8.85	576.11	8.90	576.06	8.92	576.04	8.55	576.41
PZ-3	16.9	585.05	10.15	574.90	10.34	574.71	11.80	573.25	13.35	571.70	6.99	578.06	7.32	577.73
PZ-4	16.6	585.79	7.72	578.07	7.20	578.59	6.84	578.95	6.60	579.19	7.63	578.16	8.57	577.22
PZ-5	16.9	584.52	8.88	575.64	7.78	576.74	7.85	576.67	7.90	576.62	7.52	577.00	7.68	576.84
PZ-6	17.8	584.74	9.28	575.46	9.32	575.42	10.60	574.14	12.10	572.64	6.51	578.23	6.77	577.97
PZ-7	20.0	584.99	7.95	577.04	6.50	578.49	9.10	575.89	10.22	574.77	6.12	578.87	6.40	578.59
PZ-8	20.7	584.48	6.40	578.08	6.04	578.44	7.32	577.16	8.30	576.18	5.20	579.28	5.43	579.05
PZ-9	15.1	586.86	6.82	580.04	8.55	578.31	7.68	579.18	8.40	578.46	6.48	580.38	6.66	580.20
PZ-10	11.5	589.41	7.91	581.50	8.60	580.81	10.02	579.39	9.34	580.07	7.98	581.43	7.88	581.53
PZ-11	19.5	594.72	6.94	587.78	7.95	586.77	8.78	585.94	8.95	585.77	7.76	586.96	8.81	585.91
PZ-12	21.8	592.78	7.68	585.10	8.84	583.94	9.87	582.91	10.12	582.66	8.62	584.16	9.95	582.83
PZ-13	22.5	589.04	5.95	583.09	6.80	582.24	7.62	581.42	7.38	581.66	5.82	583.22	5.84	583.20
PZ-14	55.0	619.11	dry	*	dry	dry								
PZ-15	17.0	588.79	7.84	580.95	7.72	581.07	7.97	580.82	8.20	580.59	7.98	580.81	8.37	580.42
PZ-16	66.5	629.30	dry	**	dry	dry								
BACKGROUND WELLS														
MW-1	20.4	585.22	NM	***	NM	NM								
MW-2	17.0	586.67	NM	****	NM	****	11.30	575.37	NM	****	NM	****	NM	NM
GROUNDWATER COLLECTION TRENCH SUMPS														
S1	17.2	585.19	9.95	575.24	9.82	575.37	7.72	577.47	8.00	577.19	13.43	571.76	13.59	571.60
S2	24.8	585.45	9.58	575.87	12.70	572.75	19.70	565.75	22.50	562.95	8.14	577.31	8.93	576.52
S3	17.3	585.25	8.95	576.30	9.08	576.17	10.19	575.06	11.40	573.85	6.59	578.66	6.85	578.40
S4	17.8	585.00	7.15	577.85	7.35	577.65	8.30	576.70	9.30	575.70	5.78	579.22	5.90	579.10

*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, previously believed to have been destroyed, is believed to have been found but was not sampled or measured due to concerns regarding impacts.

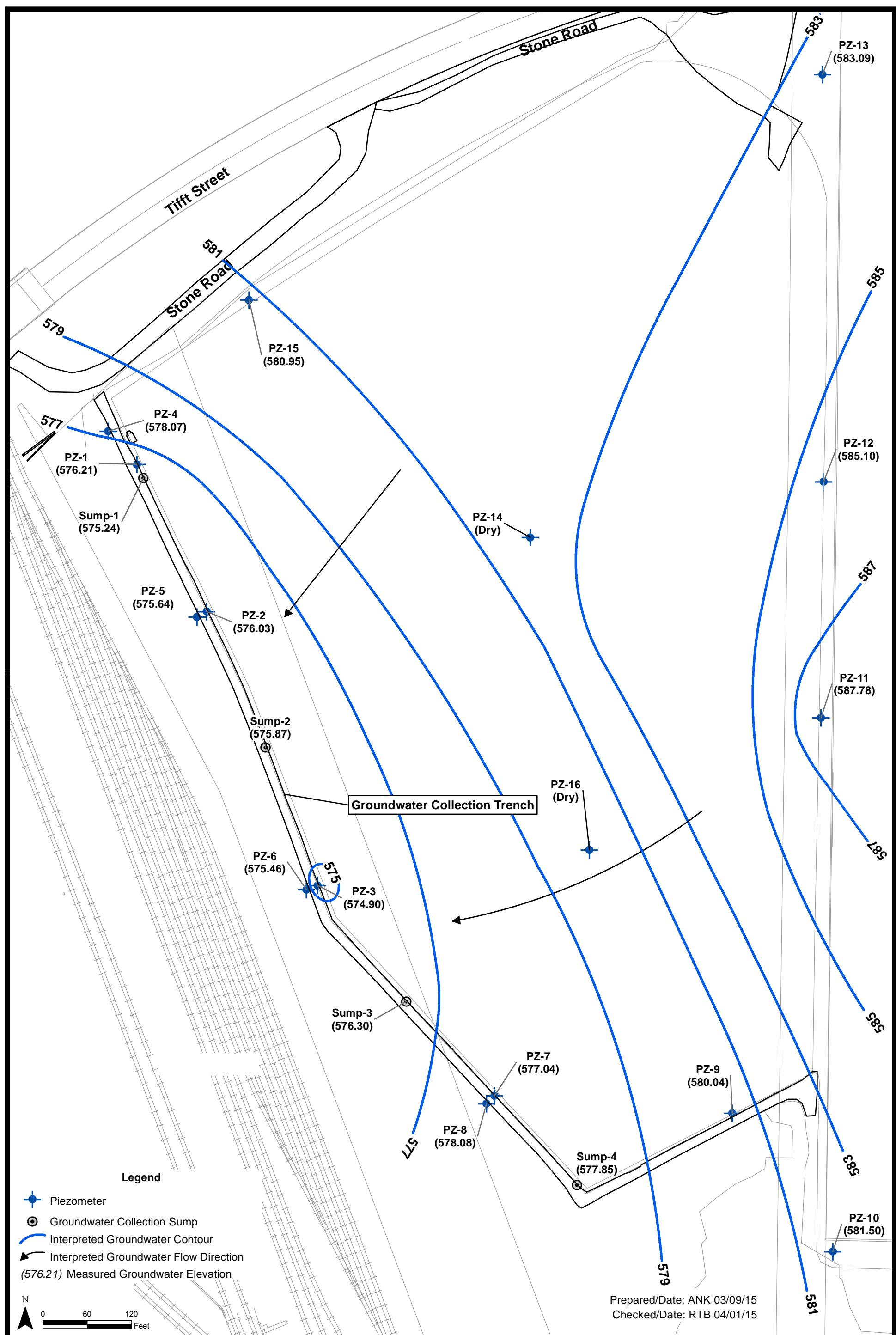
**** Depth to Water for MW-2 is measured on annual basis.

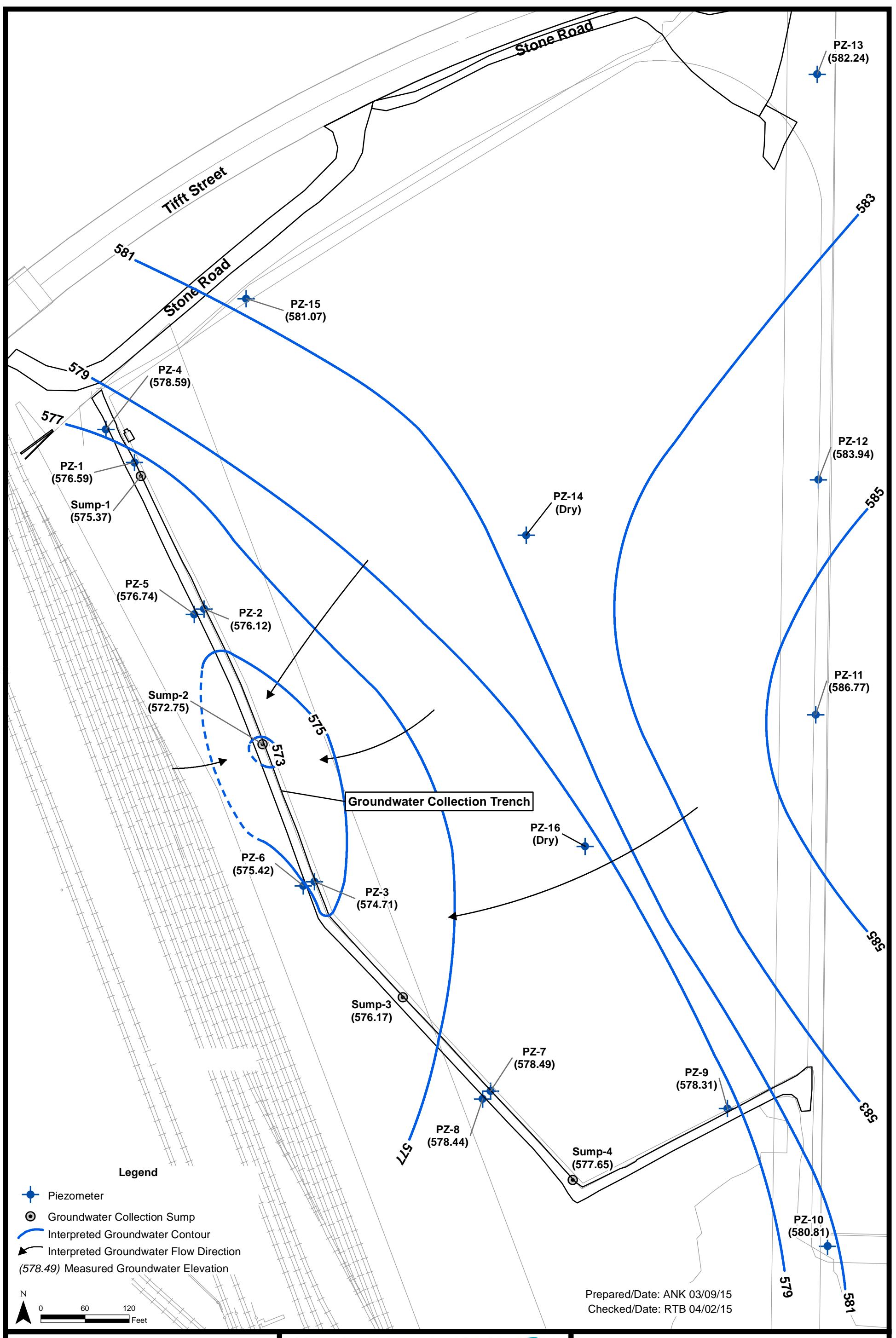
MW-2 Depth to Water was measured on 9/9/2014.

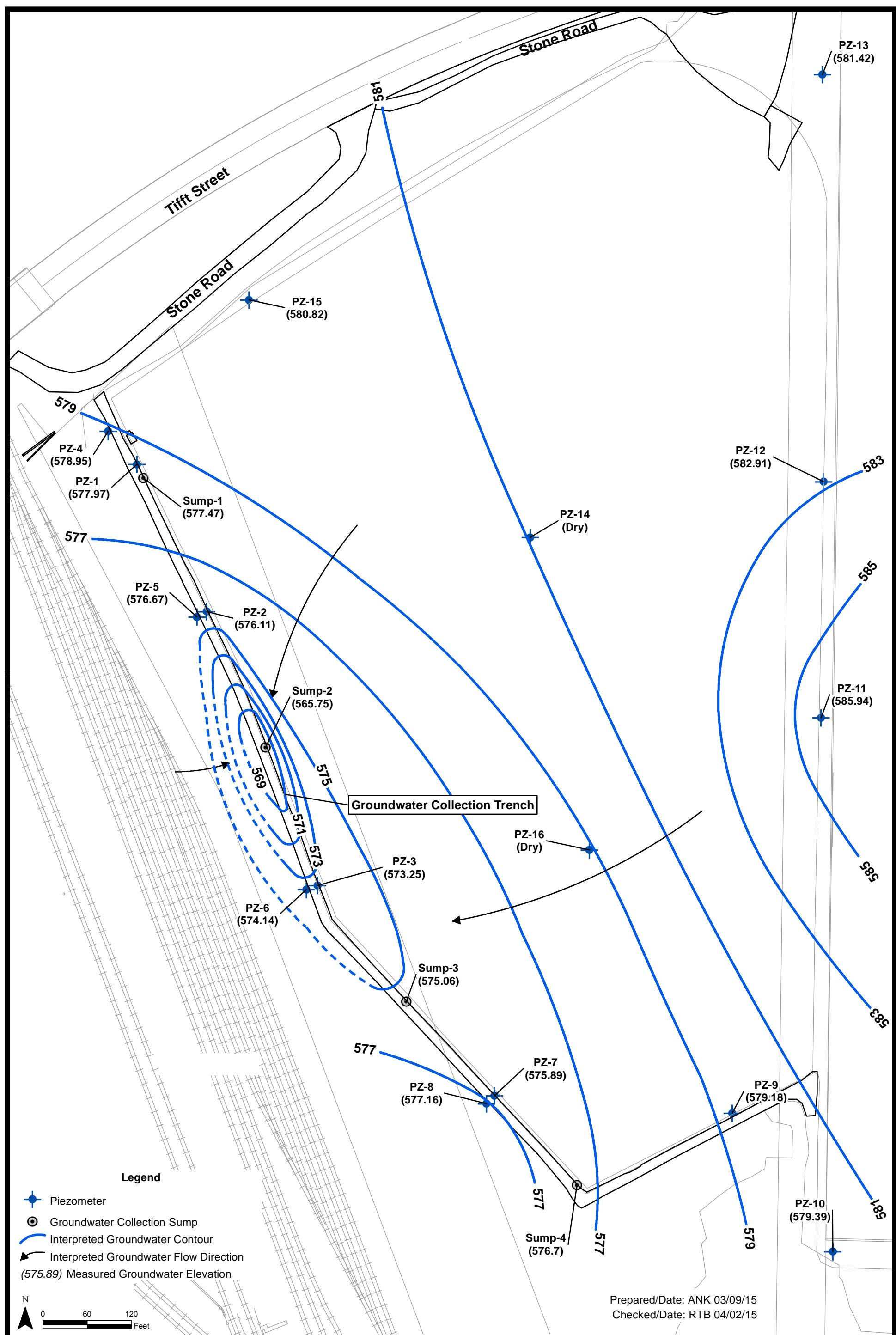
NM - Not measured

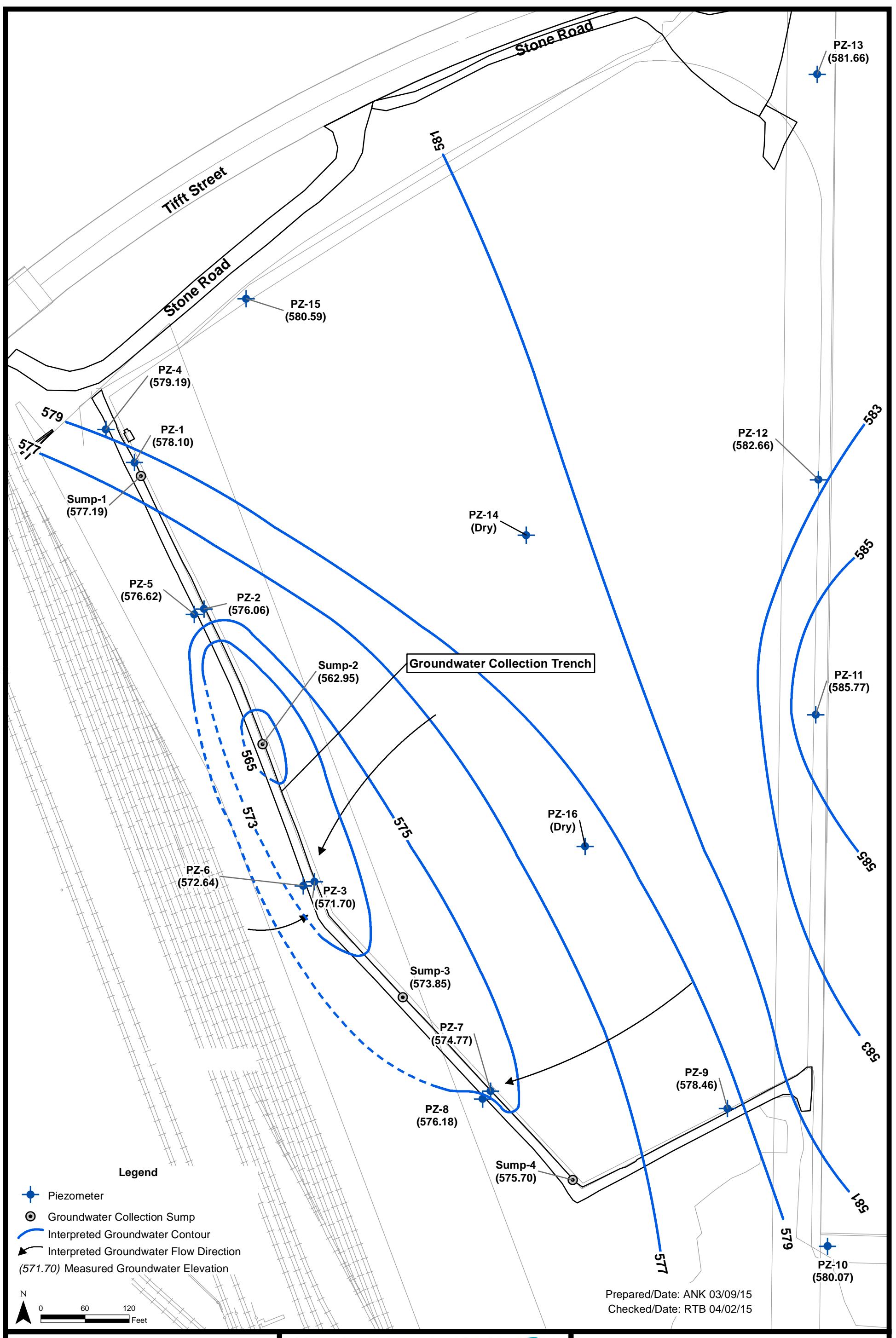
APPENDIX E

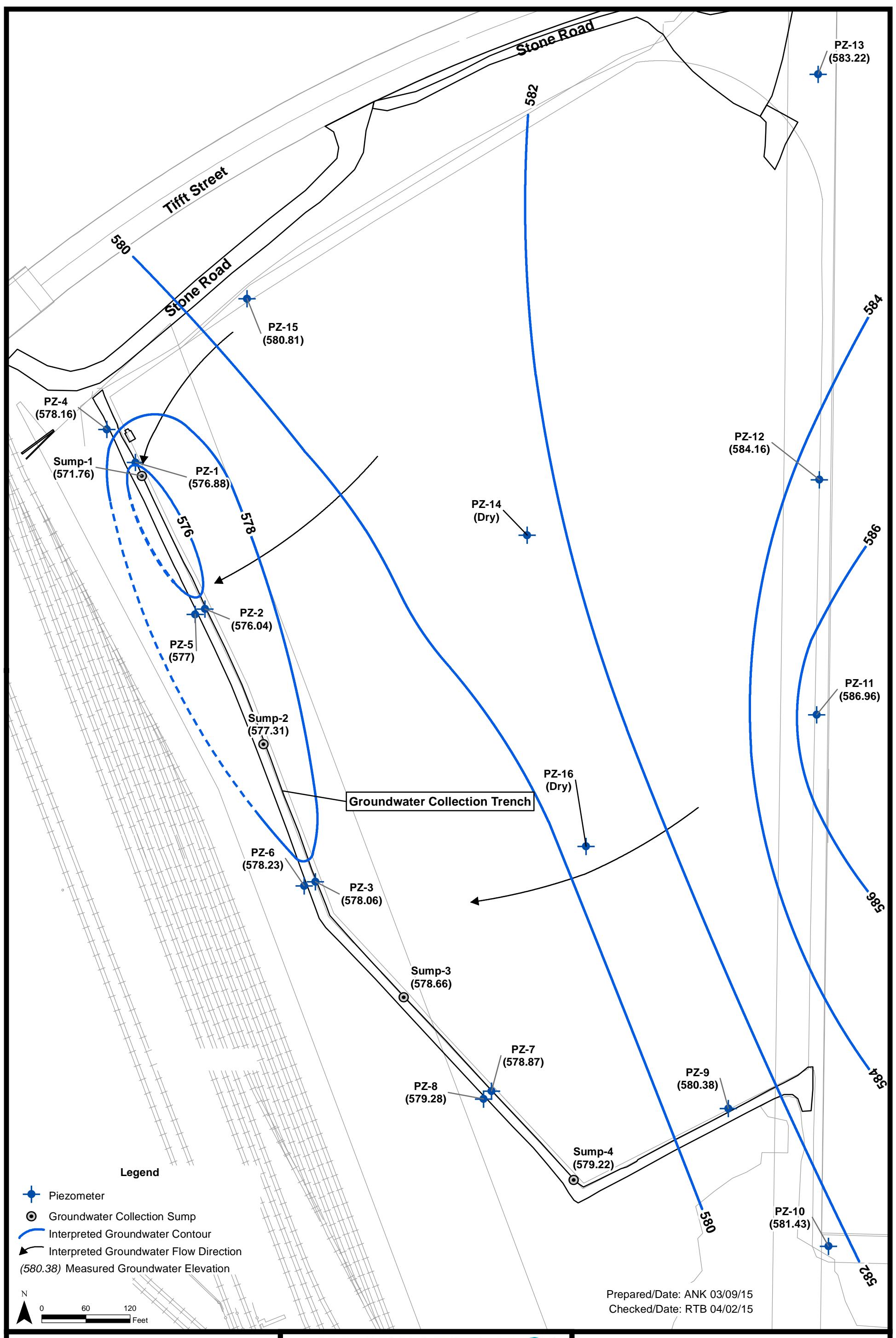
QUARTERLY GROUNDWATER CONTOUR MAPS

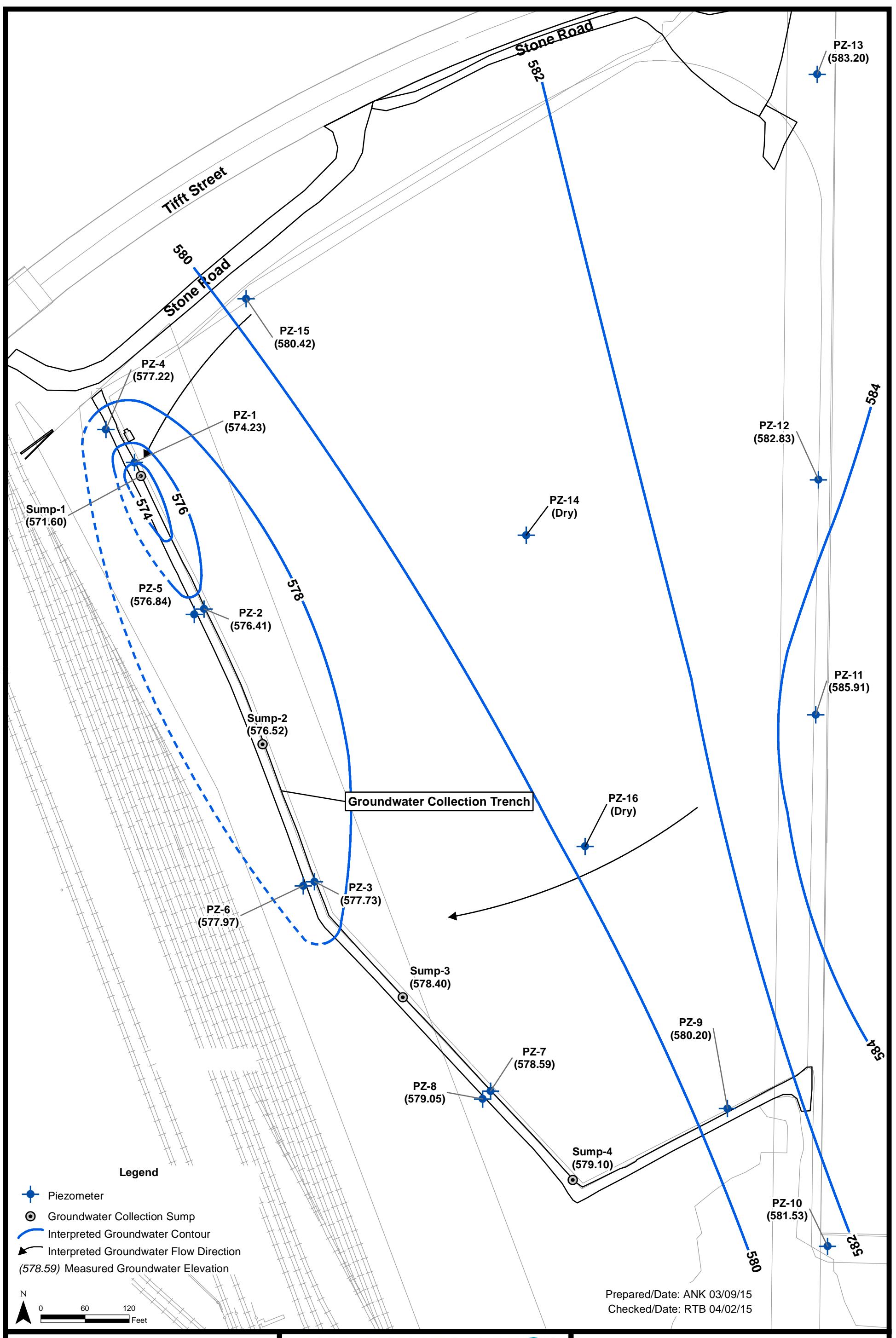












APPENDIX F

LABORATORY ANALYTICAL REPORTS

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: 480-57908-1

Client Project/Site: 30130 - Alltift OM Phase / Semi Annual
Sampling Event: Honeywell - Alltift OM Phase (4,10)

For:

Honeywell International Inc
101 Columbia Road
Morristown, New Jersey 07962

Attn: Mr. Rich Galloway

Authorized for release by:

4/28/2014 9:30:42 AM

Rebecca Jones, Project Management Assistant I

rebecca.jones@testamericainc.com

Designee for

John Schove, Project Manager II
(716)504-9838

john.schove@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
Surrogate Summary	10
QC Sample Results	11
QC Association Summary	18
Lab Chronicle	20
Certification Summary	21
Method Summary	22
Sample Summary	23
Chain of Custody	24
Receipt Checklists	25

Definitions/Glossary

Client: Honeywell International Inc
Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-57908-1

Qualifiers

GC/MS 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/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.
*	ISTD response or retention time outside acceptable limits
*	LCS or LCSD exceeds the control limits

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.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Honeywell International Inc
Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-57908-1

Job ID: 480-57908-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-57908-1

Comments

No additional comments.

Receipt

The samples were received on 4/14/2014 5:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7° C.

GC/MS VOA

Method(s) 624: The following sample(s) was composited by the laboratory on 4/15/14 as requested on the chain-of-custody: Alltift Collection Sump - Grab (480-57908-7).

Method(s) 624: The following volatiles sample(s) was diluted due to foaming at the time of purging during the original sample analysis: Alltift Collection Sump - Grab (480-57908-7). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC/MS Semi VOA

Method(s) 625: The laboratory control sample (LCS) for preparation batch 176482 recovered outside control limits for the following analyte: Pyrene. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 625: Internal standard responses were outside of acceptance limits for the following sample: Alltift Collection Sump - Grab (480-57908-7). The sample shows evidence of matrix interference. There were no detections for any target analyte associated with the failing internal standard, therefore the data has been reported.

No other analytical or quality issues were noted.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method(s) 9040C, SM 4500 H+ B: The following sample(s) was received outside of holding time: Alltift Collection Sump - Comp (480-57908-6).

No other analytical or quality issues were noted.

Organic Prep

Method(s) 625: The following sample was composited by the laboratory on 4/17/14 as requested on the chain-of-custody: Alltift Collection Sump - Grab (480-57908-7).

No other analytical or quality issues were noted.

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Detection Summary

Client: Honeywell International Inc
 Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-57908-1

Client Sample ID: Alltift Collection Sump - Comp

Lab Sample ID: 480-57908-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0099	J	0.010	0.0056	mg/L	1		200.7 Rev 4.4	Total/NA
Barium	0.26		0.0020	0.00070	mg/L	1		200.7 Rev 4.4	Total/NA
Chromium	0.0075		0.0040	0.0010	mg/L	1		200.7 Rev 4.4	Total/NA
Copper	0.021		0.010	0.0016	mg/L	1		200.7 Rev 4.4	Total/NA
Nickel	0.017		0.010	0.0013	mg/L	1		200.7 Rev 4.4	Total/NA
Zinc	0.034		0.010	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA
Phosphorus, Total	0.081		0.010	0.0050	mg/L	1		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Solids	28.0		4.0	4.0	mg/L	1		SM 2540D	Total/NA
pH	7.55	HF	0.100	0.100	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: Alltift Collection Sump - Grab

Lab Sample ID: 480-57908-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	11	J	50	6.0	ug/L	10		624	Total/NA
Chlorobenzene	71		50	4.8	ug/L	10		624	Total/NA
4-Chloroaniline	11		5.0	0.69	ug/L	1		625	Total/NA
Acenaphthene	0.29	J	5.0	0.060	ug/L	1		625	Total/NA
N-Nitrosodiphenylamine	1.1	J	5.0	0.40	ug/L	1		625	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Honeywell International Inc

TestAmerica Job ID: 480-57908-1

Project/Site: 30130 - Alltift OM Phase / Semi Annual

Client Sample ID: Alltift Collection Sump - Comp

Lab Sample ID: 480-57908-6

Matrix: Water

Date Collected: 04/14/14 12:15

Date Received: 04/14/14 17:00

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0099	J	0.010	0.0056	mg/L		04/16/14 09:10	04/17/14 03:13	1
Barium	0.26		0.0020	0.00070	mg/L		04/16/14 09:10	04/17/14 03:13	1
Chromium	0.0075		0.0040	0.0010	mg/L		04/16/14 09:10	04/17/14 03:13	1
Copper	0.021		0.010	0.0016	mg/L		04/16/14 09:10	04/17/14 03:13	1
Nickel	0.017		0.010	0.0013	mg/L		04/16/14 09:10	04/17/14 03:13	1
Zinc	0.034		0.010	0.0015	mg/L		04/16/14 09:10	04/17/14 03:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus, Total	0.081		0.010	0.0050	mg/L			04/23/14 13:22	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	28.0		4.0	4.0	mg/L			04/15/14 17:45	1
pH	7.55	HF	0.100	0.100	SU			04/15/14 21:05	1

Client Sample Results

Client: Honeywell International Inc

TestAmerica Job ID: 480-57908-1

Project/Site: 30130 - Alltift OM Phase / Semi Annual

Client Sample ID: Alltift Collection Sump - Grab

Lab Sample ID: 480-57908-7

Matrix: Water

Date Collected: 04/14/14 12:00

Date Received: 04/14/14 17:00

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		50	3.9	ug/L			04/15/14 16:17	10
1,1,2,2-Tetrachloroethane	ND		50	2.6	ug/L			04/15/14 16:17	10
1,1,2-Trichloroethane	ND		50	4.8	ug/L			04/15/14 16:17	10
1,1-Dichloroethane	ND		50	5.9	ug/L			04/15/14 16:17	10
1,1-Dichloroethene	ND		50	8.5	ug/L			04/15/14 16:17	10
1,2-Dichlorobenzene	ND		50	4.4	ug/L			04/15/14 16:17	10
1,2-Dichloroethane	ND		50	6.0	ug/L			04/15/14 16:17	10
1,2-Dichloroethene, Total	ND		100	32	ug/L			04/15/14 16:17	10
1,2-Dichloropropane	ND		50	6.1	ug/L			04/15/14 16:17	10
1,3-Dichlorobenzene	ND		50	5.4	ug/L			04/15/14 16:17	10
1,4-Dichlorobenzene	ND		50	5.1	ug/L			04/15/14 16:17	10
2-Chloroethyl vinyl ether	ND		250	19	ug/L			04/15/14 16:17	10
Acrolein	ND		1000	170	ug/L			04/15/14 16:17	10
Acrylonitrile	ND		500	19	ug/L			04/15/14 16:17	10
Benzene	11	J	50	6.0	ug/L			04/15/14 16:17	10
Bromoform	ND		50	4.7	ug/L			04/15/14 16:17	10
Bromomethane	ND		50	12	ug/L			04/15/14 16:17	10
Carbon tetrachloride	ND		50	5.1	ug/L			04/15/14 16:17	10
Chlorobenzene	71		50	4.8	ug/L			04/15/14 16:17	10
Chlorodibromomethane	ND		50	4.1	ug/L			04/15/14 16:17	10
Chloroethane	ND		50	8.7	ug/L			04/15/14 16:17	10
Chloroform	ND		50	5.4	ug/L			04/15/14 16:17	10
Chloromethane	ND		50	6.4	ug/L			04/15/14 16:17	10
cis-1,3-Dichloropropene	ND		50	3.3	ug/L			04/15/14 16:17	10
Dichlorobromomethane	ND		50	5.4	ug/L			04/15/14 16:17	10
Ethylbenzene	ND		50	4.6	ug/L			04/15/14 16:17	10
Methylene Chloride	ND		50	8.1	ug/L			04/15/14 16:17	10
Tetrachloroethene	ND		50	3.4	ug/L			04/15/14 16:17	10
Toluene	ND		50	4.5	ug/L			04/15/14 16:17	10
trans-1,2-Dichloroethene	ND		50	5.9	ug/L			04/15/14 16:17	10
trans-1,3-Dichloropropene	ND		50	4.4	ug/L			04/15/14 16:17	10
Trichloroethene	ND		50	6.0	ug/L			04/15/14 16:17	10
Vinyl chloride	ND		50	7.5	ug/L			04/15/14 16:17	10
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92			72 - 130				04/15/14 16:17	10
4-Bromofluorobenzene (Surr)	96			69 - 121				04/15/14 16:17	10
Toluene-d8 (Surr)	85			70 - 123				04/15/14 16:17	10

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.49	ug/L		04/17/14 11:25	04/18/14 17:53	1
1,2-Dichlorobenzene	ND		10	0.15	ug/L		04/17/14 11:25	04/18/14 17:53	1
1,2-Diphenylhydrazine	ND		10	0.063	ug/L		04/17/14 11:25	04/18/14 17:53	1
1,3-Dichlorobenzene	ND		10	0.069	ug/L		04/17/14 11:25	04/18/14 17:53	1
1,4-Dichlorobenzene	ND		10	0.090	ug/L		04/17/14 11:25	04/18/14 17:53	1
2,4,6-Trichlorophenol	ND		5.0	0.23	ug/L		04/17/14 11:25	04/18/14 17:53	1
2,4-Dichlorophenol	ND		5.0	0.30	ug/L		04/17/14 11:25	04/18/14 17:53	1
2,4-Dimethylphenol	ND		5.0	0.13	ug/L		04/17/14 11:25	04/18/14 17:53	1
2,4-Dinitrophenol	ND		10	0.84	ug/L		04/17/14 11:25	04/18/14 17:53	1

TestAmerica Buffalo

Client Sample Results

Client: Honeywell International Inc

Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-57908-1

Client Sample ID: Alltift Collection Sump - Grab

Lab Sample ID: 480-57908-7

Matrix: Water

Date Collected: 04/14/14 12:00

Date Received: 04/14/14 17:00

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		5.0	0.26	ug/L	04/17/14 11:25	04/18/14 17:53		1
2,6-Dinitrotoluene	ND		5.0	0.72	ug/L	04/17/14 11:25	04/18/14 17:53		1
2-Chloronaphthalene	ND		5.0	0.068	ug/L	04/17/14 11:25	04/18/14 17:53		1
2-Chlorophenol	ND		5.0	0.16	ug/L	04/17/14 11:25	04/18/14 17:53		1
2-Nitrophenol	ND		5.0	0.14	ug/L	04/17/14 11:25	04/18/14 17:53		1
3,3'-Dichlorobenzidine	ND		5.0	0.82	ug/L	04/17/14 11:25	04/18/14 17:53		1
4,6-Dinitro-2-methylphenol	ND		10	0.76	ug/L	04/17/14 11:25	04/18/14 17:53		1
4-Bromophenyl phenyl ether	ND		5.0	0.11	ug/L	04/17/14 11:25	04/18/14 17:53		1
4-Chloro-3-methylphenol	ND		5.0	0.56	ug/L	04/17/14 11:25	04/18/14 17:53		1
4-Chloroaniline	11		5.0	0.69	ug/L	04/17/14 11:25	04/18/14 17:53		1
4-Chlorophenyl phenyl ether	ND		5.0	0.21	ug/L	04/17/14 11:25	04/18/14 17:53		1
4-Nitrophenol	ND		10	1.3	ug/L	04/17/14 11:25	04/18/14 17:53		1
Acenaphthene	0.29 J		5.0	0.060	ug/L	04/17/14 11:25	04/18/14 17:53		1
Acenaphthylene	ND		5.0	0.034	ug/L	04/17/14 11:25	04/18/14 17:53		1
Anthracene	ND		5.0	0.052	ug/L	04/17/14 11:25	04/18/14 17:53		1
Benzidine	ND		80	2.5	ug/L	04/17/14 11:25	04/18/14 17:53		1
Benzo[a]anthracene	ND		5.0	0.043	ug/L	04/17/14 11:25	04/18/14 17:53		1
Benzo[a]pyrene	ND *		5.0	0.058	ug/L	04/17/14 11:25	04/18/14 17:53		1
Benzo[b]fluoranthene	ND *		5.0	0.062	ug/L	04/17/14 11:25	04/18/14 17:53		1
Benzo[g,h,i]perylene	ND *		5.0	0.10	ug/L	04/17/14 11:25	04/18/14 17:53		1
Benzo[k]fluoranthene	ND *		5.0	0.042	ug/L	04/17/14 11:25	04/18/14 17:53		1
bis (2-chloroisopropyl) ether	ND		5.0	0.086	ug/L	04/17/14 11:25	04/18/14 17:53		1
Bis(2-chloroethoxy)methane	ND		5.0	0.085	ug/L	04/17/14 11:25	04/18/14 17:53		1
Bis(2-chloroethyl)ether	ND		5.0	1.1	ug/L	04/17/14 11:25	04/18/14 17:53		1
Bis(2-ethylhexyl) phthalate	ND		10	0.86	ug/L	04/17/14 11:25	04/18/14 17:53		1
Butyl benzyl phthalate	ND		5.0	1.3	ug/L	04/17/14 11:25	04/18/14 17:53		1
Chrysene	ND		5.0	0.036	ug/L	04/17/14 11:25	04/18/14 17:53		1
Dibenz(a,h)anthracene	ND *		5.0	0.055	ug/L	04/17/14 11:25	04/18/14 17:53		1
Diethyl phthalate	ND		5.0	0.17	ug/L	04/17/14 11:25	04/18/14 17:53		1
Dimethyl phthalate	ND		5.0	0.17	ug/L	04/17/14 11:25	04/18/14 17:53		1
Di-n-butyl phthalate	ND		5.0	0.94	ug/L	04/17/14 11:25	04/18/14 17:53		1
Di-n-octyl phthalate	ND		5.0	4.5	ug/L	04/17/14 11:25	04/18/14 17:53		1
Fluoranthene	ND		5.0	0.11	ug/L	04/17/14 11:25	04/18/14 17:53		1
Fluorene	ND		5.0	0.043	ug/L	04/17/14 11:25	04/18/14 17:53		1
Hexachlorobenzene	ND		5.0	0.28	ug/L	04/17/14 11:25	04/18/14 17:53		1
Hexachlorobutadiene	ND		5.0	0.62	ug/L	04/17/14 11:25	04/18/14 17:53		1
Hexachlorocyclopentadiene	ND		5.0	0.45	ug/L	04/17/14 11:25	04/18/14 17:53		1
Hexachloroethane	ND		5.0	0.48	ug/L	04/17/14 11:25	04/18/14 17:53		1
Indeno[1,2,3-cd]pyrene	ND *		5.0	0.19	ug/L	04/17/14 11:25	04/18/14 17:53		1
Isophorone	ND		5.0	0.16	ug/L	04/17/14 11:25	04/18/14 17:53		1
Naphthalene	ND		5.0	0.080	ug/L	04/17/14 11:25	04/18/14 17:53		1
Nitrobenzene	ND		5.0	0.11	ug/L	04/17/14 11:25	04/18/14 17:53		1
N-Nitrosodimethylamine	ND		10	0.96	ug/L	04/17/14 11:25	04/18/14 17:53		1
N-Nitrosodi-n-propylamine	ND		5.0	0.23	ug/L	04/17/14 11:25	04/18/14 17:53		1
N-Nitrosodiphenylamine	1.1 J		5.0	0.40	ug/L	04/17/14 11:25	04/18/14 17:53		1
Pentachlorophenol	ND		10	0.41	ug/L	04/17/14 11:25	04/18/14 17:53		1
Phenanthrene	ND		5.0	0.071	ug/L	04/17/14 11:25	04/18/14 17:53		1
Phenol	ND		5.0	0.12	ug/L	04/17/14 11:25	04/18/14 17:53		1
Pyrene	ND *		5.0	0.041	ug/L	04/17/14 11:25	04/18/14 17:53		1

TestAmerica Buffalo

Client Sample Results

Client: Honeywell International Inc

TestAmerica Job ID: 480-57908-1

Project/Site: 30130 - Alltift OM Phase / Semi Annual

Client Sample ID: Alltift Collection Sump - Grab

Lab Sample ID: 480-57908-7

Date Collected: 04/14/14 12:00

Matrix: Water

Date Received: 04/14/14 17:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	86		52 - 151	04/17/14 11:25	04/18/14 17:53	1
2-Fluorobiphenyl	70		44 - 120	04/17/14 11:25	04/18/14 17:53	1
2-Fluorophenol	37		17 - 120	04/17/14 11:25	04/18/14 17:53	1
Nitrobenzene-d5	66		42 - 120	04/17/14 11:25	04/18/14 17:53	1
Phenol-d5	26		10 - 120	04/17/14 11:25	04/18/14 17:53	1
p-Terphenyl-d14	97		22 - 125	04/17/14 11:25	04/18/14 17:53	1

Surrogate Summary

Client: Honeywell International Inc
Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-57908-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		12DCE (72-130)	BFB (69-121)	TOL (70-123)
480-57908-7	Alltift Collection Sump - Grab	92	96	85
LCS 480-175909/5	Lab Control Sample	86	96	88
MB 480-175909/6	Method Blank	89	95	87

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (52-151)	FBP (44-120)	2FP (17-120)	NBZ (42-120)	PHL (10-120)	TPH (22-125)
480-57908-7	Alltift Collection Sump - Grab	86	70	37	66	26	97
LCS 480-176482/2-A	Lab Control Sample	95	78	46	79	33	121
MB 480-176482/1-A	Method Blank	81	80	46	81	33	117

Surrogate Legend

TBP = 2,4,6-Tribromophenol

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol

NBZ = Nitrobenzene-d5

PHL = Phenol-d5

TPH = p-Terphenyl-d14

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QC Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-57908-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-175909/6

Matrix: Water

Analysis Batch: 175909

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

Analyte	MB	MB	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier				
1,1,1-Trichloroethane	ND		5.0	0.39 ug/L	04/15/14 14:48	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26 ug/L	04/15/14 14:48	1
1,1,2-Trichloroethane	ND		5.0	0.48 ug/L	04/15/14 14:48	1
1,1-Dichloroethane	ND		5.0	0.59 ug/L	04/15/14 14:48	1
1,1-Dichloroethene	ND		5.0	0.85 ug/L	04/15/14 14:48	1
1,2-Dichlorobenzene	ND		5.0	0.44 ug/L	04/15/14 14:48	1
1,2-Dichloroethane	ND		5.0	0.60 ug/L	04/15/14 14:48	1
1,2-Dichloroethene, Total	ND		10	3.2 ug/L	04/15/14 14:48	1
1,2-Dichloropropane	ND		5.0	0.61 ug/L	04/15/14 14:48	1
1,3-Dichlorobenzene	ND		5.0	0.54 ug/L	04/15/14 14:48	1
1,4-Dichlorobenzene	ND		5.0	0.51 ug/L	04/15/14 14:48	1
2-Chloroethyl vinyl ether	ND		25	1.9 ug/L	04/15/14 14:48	1
Acrolein	ND		100	17 ug/L	04/15/14 14:48	1
Acrylonitrile	ND		50	1.9 ug/L	04/15/14 14:48	1
Benzene	ND		5.0	0.60 ug/L	04/15/14 14:48	1
Bromoform	ND		5.0	0.47 ug/L	04/15/14 14:48	1
Bromomethane	ND		5.0	1.2 ug/L	04/15/14 14:48	1
Carbon tetrachloride	ND		5.0	0.51 ug/L	04/15/14 14:48	1
Chlorobenzene	ND		5.0	0.48 ug/L	04/15/14 14:48	1
Chlorodibromomethane	ND		5.0	0.41 ug/L	04/15/14 14:48	1
Chloroethane	ND		5.0	0.87 ug/L	04/15/14 14:48	1
Chloroform	ND		5.0	0.54 ug/L	04/15/14 14:48	1
Chloromethane	ND		5.0	0.64 ug/L	04/15/14 14:48	1
cis-1,3-Dichloropropene	ND		5.0	0.33 ug/L	04/15/14 14:48	1
Dichlorobromomethane	ND		5.0	0.54 ug/L	04/15/14 14:48	1
Ethylbenzene	ND		5.0	0.46 ug/L	04/15/14 14:48	1
Methylene Chloride	ND		5.0	0.81 ug/L	04/15/14 14:48	1
Tetrachloroethene	ND		5.0	0.34 ug/L	04/15/14 14:48	1
Toluene	ND		5.0	0.45 ug/L	04/15/14 14:48	1
trans-1,2-Dichloroethene	ND		5.0	0.59 ug/L	04/15/14 14:48	1
trans-1,3-Dichloropropene	ND		5.0	0.44 ug/L	04/15/14 14:48	1
Trichloroethene	ND		5.0	0.60 ug/L	04/15/14 14:48	1
Vinyl chloride	ND		5.0	0.75 ug/L	04/15/14 14:48	1
Surrogate	MB	MB	Prepared	Analyzed	Dil Fac	
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	89		72 - 130		1	
4-Bromofluorobenzene (Surr)	95		69 - 121		1	
Toluene-d8 (Surr)	87		70 - 123		1	

Lab Sample ID: LCS 480-175909/5

Matrix: Water

Analysis Batch: 175909

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

Analyte	Spike	LCS	LCS	D	%Rec	Limits
	Added	Result	Qualifier			
1,1,1-Trichloroethane	20.0	20.5		ug/L	102	52 - 162
1,1,2,2-Tetrachloroethane	20.0	18.8		ug/L	94	46 - 157
1,1,2-Trichloroethane	20.0	19.2		ug/L	96	52 - 150
1,1-Dichloroethane	20.0	22.2		ug/L	111	59 - 155

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QC Sample Results

Client: Honeywell International Inc
 Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-57908-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-175909/5

Matrix: Water

Analysis Batch: 175909

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

Analyte	Spike Added	LCS			Unit	D	%Rec	%Rec.
		Result	Qualifier	Limits				
1,1-Dichloroethene	20.0	21.8		ug/L		109	1 - 234	
1,2-Dichlorobenzene	20.0	18.7		ug/L		93	18 - 190	
1,2-Dichloroethane	20.0	20.7		ug/L		103	49 - 155	
1,2-Dichloropropane	20.0	22.1		ug/L		110	1 - 210	
1,3-Dichlorobenzene	20.0	19.0		ug/L		95	59 - 156	
1,4-Dichlorobenzene	20.0	19.1		ug/L		96	18 - 190	
2-Chloroethyl vinyl ether	20.0	21.6 J		ug/L		108	1 - 305	
Benzene	20.0	22.2		ug/L		111	37 - 151	
Bromoform	20.0	16.0		ug/L		80	45 - 169	
Bromomethane	20.0	24.3		ug/L		121	1 - 242	
Carbon tetrachloride	20.0	21.1		ug/L		106	70 - 140	
Chlorobenzene	20.0	20.4		ug/L		102	37 - 160	
Chlorodibromomethane	19.6	17.7		ug/L		90	53 - 149	
Chloroethane	20.0	21.4		ug/L		107	14 - 230	
Chloroform	20.0	21.7		ug/L		109	51 - 138	
Chloromethane	20.0	20.8		ug/L		104	1 - 273	
cis-1,3-Dichloropropene	20.0	22.0		ug/L		110	1 - 227	
Dichlorobromomethane	20.0	20.5		ug/L		102	35 - 155	
Ethylbenzene	20.0	20.6		ug/L		103	37 - 162	
Methylene Chloride	20.0	20.5		ug/L		103	1 - 221	
Tetrachloroethene	20.0	20.1		ug/L		100	64 - 148	
Toluene	20.0	18.9		ug/L		94	47 - 150	
trans-1,2-Dichloroethene	20.0	21.7		ug/L		108	54 - 156	
trans-1,3-Dichloropropene	20.0	20.0		ug/L		100	17 - 183	
Trichloroethene	20.0	22.6		ug/L		113	71 - 157	
Vinyl chloride	20.0	21.1		ug/L		106	1 - 251	
Surrogate		LCS	LCS					
		%Recovery	Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)		86		72 - 130				
4-Bromofluorobenzene (Surr)		96		69 - 121				
Toluene-d8 (Surr)		88		70 - 123				

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-176482/1-A

Matrix: Water

Analysis Batch: 176761

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 176482

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared		Analyzed	Dil Fac
							Prepared	Analyzed		
1,2,4-Trichlorobenzene	ND		10	0.49	ug/L		04/17/14 11:25	04/18/14 14:04		1
1,2-Dichlorobenzene	ND		10	0.15	ug/L		04/17/14 11:25	04/18/14 14:04		1
1,2-Diphenylhydrazine	ND		10	0.063	ug/L		04/17/14 11:25	04/18/14 14:04		1
1,3-Dichlorobenzene	ND		10	0.069	ug/L		04/17/14 11:25	04/18/14 14:04		1
1,4-Dichlorobenzene	ND		10	0.090	ug/L		04/17/14 11:25	04/18/14 14:04		1
2,4,6-Trichlorophenol	ND		5.0	0.23	ug/L		04/17/14 11:25	04/18/14 14:04		1
2,4-Dichlorophenol	ND		5.0	0.30	ug/L		04/17/14 11:25	04/18/14 14:04		1
2,4-Dimethylphenol	ND		5.0	0.13	ug/L		04/17/14 11:25	04/18/14 14:04		1
2,4-Dinitrophenol	ND		10	0.84	ug/L		04/17/14 11:25	04/18/14 14:04		1

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QC Sample Results

Client: Honeywell International Inc

Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-57908-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-176482/1-A

Matrix: Water

Analysis Batch: 176761

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 176482

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	MB	MB									
2,4-Dinitrotoluene	ND	ND	ND		5.0	0.26	ug/L	04/17/14 11:25	04/18/14 14:04		1
2,6-Dinitrotoluene	ND	ND	ND		5.0	0.72	ug/L	04/17/14 11:25	04/18/14 14:04		1
2-Chloronaphthalene	ND	ND	ND		5.0	0.068	ug/L	04/17/14 11:25	04/18/14 14:04		1
2-Chlorophenol	ND	ND	ND		5.0	0.16	ug/L	04/17/14 11:25	04/18/14 14:04		1
2-Nitrophenol	ND	ND	ND		5.0	0.14	ug/L	04/17/14 11:25	04/18/14 14:04		1
3,3'-Dichlorobenzidine	ND	ND	ND		5.0	0.82	ug/L	04/17/14 11:25	04/18/14 14:04		1
4,6-Dinitro-2-methylphenol	ND	ND	ND		10	0.76	ug/L	04/17/14 11:25	04/18/14 14:04		1
4-Bromophenyl phenyl ether	ND	ND	ND		5.0	0.11	ug/L	04/17/14 11:25	04/18/14 14:04		1
4-Chloro-3-methylphenol	ND	ND	ND		5.0	0.56	ug/L	04/17/14 11:25	04/18/14 14:04		1
4-Chloroaniline	ND	ND	ND		5.0	0.69	ug/L	04/17/14 11:25	04/18/14 14:04		1
4-Chlorophenyl phenyl ether	ND	ND	ND		5.0	0.21	ug/L	04/17/14 11:25	04/18/14 14:04		1
4-Nitrophenol	ND	ND	ND		10	1.3	ug/L	04/17/14 11:25	04/18/14 14:04		1
Acenaphthene	ND	ND	ND		5.0	0.060	ug/L	04/17/14 11:25	04/18/14 14:04		1
Acenaphthylene	ND	ND	ND		5.0	0.034	ug/L	04/17/14 11:25	04/18/14 14:04		1
Anthracene	ND	ND	ND		5.0	0.052	ug/L	04/17/14 11:25	04/18/14 14:04		1
Benzidine	ND	ND	ND		80	2.5	ug/L	04/17/14 11:25	04/18/14 14:04		1
Benzo[a]anthracene	ND	ND	ND		5.0	0.043	ug/L	04/17/14 11:25	04/18/14 14:04		1
Benzo[a]pyrene	ND	ND	ND		5.0	0.058	ug/L	04/17/14 11:25	04/18/14 14:04		1
Benzo[b]fluoranthene	ND	ND	ND		5.0	0.062	ug/L	04/17/14 11:25	04/18/14 14:04		1
Benzo[g,h,i]perylene	ND	ND	ND		5.0	0.10	ug/L	04/17/14 11:25	04/18/14 14:04		1
Benzo[k]fluoranthene	ND	ND	ND		5.0	0.042	ug/L	04/17/14 11:25	04/18/14 14:04		1
bis (2-chloroisopropyl) ether	ND	ND	ND		5.0	0.086	ug/L	04/17/14 11:25	04/18/14 14:04		1
Bis(2-chloroethoxy)methane	ND	ND	ND		5.0	0.085	ug/L	04/17/14 11:25	04/18/14 14:04		1
Bis(2-chloroethyl)ether	ND	ND	ND		5.0	1.1	ug/L	04/17/14 11:25	04/18/14 14:04		1
Bis(2-ethylhexyl) phthalate	ND	ND	ND		10	0.86	ug/L	04/17/14 11:25	04/18/14 14:04		1
Butyl benzyl phthalate	ND	ND	ND		5.0	1.3	ug/L	04/17/14 11:25	04/18/14 14:04		1
Chrysene	ND	ND	ND		5.0	0.036	ug/L	04/17/14 11:25	04/18/14 14:04		1
Dibenz(a,h)anthracene	ND	ND	ND		5.0	0.055	ug/L	04/17/14 11:25	04/18/14 14:04		1
Diethyl phthalate	ND	ND	ND		5.0	0.17	ug/L	04/17/14 11:25	04/18/14 14:04		1
Dimethyl phthalate	ND	ND	ND		5.0	0.17	ug/L	04/17/14 11:25	04/18/14 14:04		1
Di-n-butyl phthalate	ND	ND	ND		5.0	0.94	ug/L	04/17/14 11:25	04/18/14 14:04		1
Di-n-octyl phthalate	ND	ND	ND		5.0	4.5	ug/L	04/17/14 11:25	04/18/14 14:04		1
Fluoranthene	ND	ND	ND		5.0	0.11	ug/L	04/17/14 11:25	04/18/14 14:04		1
Fluorene	ND	ND	ND		5.0	0.043	ug/L	04/17/14 11:25	04/18/14 14:04		1
Hexachlorobenzene	ND	ND	ND		5.0	0.28	ug/L	04/17/14 11:25	04/18/14 14:04		1
Hexachlorobutadiene	ND	ND	ND		5.0	0.62	ug/L	04/17/14 11:25	04/18/14 14:04		1
Hexachlorocyclopentadiene	ND	ND	ND		5.0	0.45	ug/L	04/17/14 11:25	04/18/14 14:04		1
Hexachloroethane	ND	ND	ND		5.0	0.48	ug/L	04/17/14 11:25	04/18/14 14:04		1
Indeno[1,2,3-cd]pyrene	ND	ND	ND		5.0	0.19	ug/L	04/17/14 11:25	04/18/14 14:04		1
Isophorone	ND	ND	ND		5.0	0.16	ug/L	04/17/14 11:25	04/18/14 14:04		1
Naphthalene	ND	ND	ND		5.0	0.080	ug/L	04/17/14 11:25	04/18/14 14:04		1
Nitrobenzene	ND	ND	ND		5.0	0.11	ug/L	04/17/14 11:25	04/18/14 14:04		1
N-Nitrosodimethylamine	ND	ND	ND		10	0.96	ug/L	04/17/14 11:25	04/18/14 14:04		1
N-Nitrosodi-n-propylamine	ND	ND	ND		5.0	0.23	ug/L	04/17/14 11:25	04/18/14 14:04		1
N-Nitrosodiphenylamine	ND	ND	ND		5.0	0.40	ug/L	04/17/14 11:25	04/18/14 14:04		1
Pentachlorophenol	ND	ND	ND		10	0.41	ug/L	04/17/14 11:25	04/18/14 14:04		1
Phenanthrene	ND	ND	ND		5.0	0.071	ug/L	04/17/14 11:25	04/18/14 14:04		1
Phenol	ND	ND	ND		5.0	0.12	ug/L	04/17/14 11:25	04/18/14 14:04		1

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
 Project/Site: 30130 - Alltiff OM Phase / Semi Annual

TestAmerica Job ID: 480-57908-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-176482/1-A

Matrix: Water

Analysis Batch: 176761

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 176482

Analyte	MB		Result	Qualifier	RL	MDL	Unit	D	Prepared		Analyzed	Dil Fac
	MB	MB							Prepared	Analyzed		
Pyrene	ND				5.0	0.041	ug/L		04/17/14 11:25	04/18/14 14:04	1	
Surrogate	MB	MB	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
2,4,6-Tribromophenol	81		52 - 151						04/17/14 11:25	04/18/14 14:04	1	
2-Fluorobiphenyl	80		44 - 120						04/17/14 11:25	04/18/14 14:04	1	
2-Fluorophenol	46		17 - 120						04/17/14 11:25	04/18/14 14:04	1	
Nitrobenzene-d5	81		42 - 120						04/17/14 11:25	04/18/14 14:04	1	
Phenol-d5	33		10 - 120						04/17/14 11:25	04/18/14 14:04	1	
p-Terphenyl-d14	117		22 - 125						04/17/14 11:25	04/18/14 14:04	1	

Lab Sample ID: LCS 480-176482/2-A

Matrix: Water

Analysis Batch: 176761

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 176482

Analyte	Spike Added	LCS		Unit	D	%Rec	Limits	%Rec.
		Result	Qualifier					
1,2,4-Trichlorobenzene	100	70.5		ug/L		71	44 - 142	
1,2-Dichlorobenzene	100	66.3		ug/L		66	32 - 129	
1,3-Dichlorobenzene	100	62.7		ug/L		63	1 - 172	
1,4-Dichlorobenzene	100	64.4		ug/L		64	20 - 124	
2,4,6-Trichlorophenol	100	88.6		ug/L		89	37 - 144	
2,4-Dichlorophenol	100	86.6		ug/L		87	39 - 135	
2,4-Dimethylphenol	100	86.7		ug/L		87	32 - 119	
2,4-Dinitrophenol	200	194		ug/L		97	1 - 191	
2,4-Dinitrotoluene	100	97.4		ug/L		97	39 - 139	
2,6-Dinitrotoluene	100	93.4		ug/L		93	50 - 158	
2-Chloronaphthalene	100	82.3		ug/L		82	60 - 118	
2-Chlorophenol	100	78.5		ug/L		79	23 - 134	
2-Nitrophenol	100	85.4		ug/L		85	29 - 182	
3,3'-Dichlorobenzidine	100	64.3		ug/L		64	1 - 262	
4,6-Dinitro-2-methylphenol	200	231		ug/L		116	1 - 181	
4-Bromophenyl phenyl ether	100	91.7		ug/L		92	53 - 127	
4-Chloro-3-methylphenol	100	92.6		ug/L		93	22 - 147	
4-Chlorophenyl phenyl ether	100	85.7		ug/L		86	25 - 158	
4-Nitrophenol	200	102		ug/L		51	1 - 132	
Acenaphthene	100	86.3		ug/L		86	47 - 145	
Acenaphthylene	100	81.3		ug/L		81	33 - 145	
Anthracene	100	98.3		ug/L		98	27 - 133	
Benzo[a]anthracene	100	105		ug/L		105	33 - 143	
Benzo[a]pyrene	100	107		ug/L		107	17 - 163	
Benzo[b]fluoranthene	100	97.3		ug/L		97	24 - 159	
Benzo[g,h,i]perylene	100	114		ug/L		114	1 - 219	
Benzo[k]fluoranthene	100	104		ug/L		104	11 - 162	
bis (2-chloroisopropyl) ether	100	81.2		ug/L		81	36 - 166	
Bis(2-chloroethoxy)methane	100	84.0		ug/L		84	33 - 184	
Bis(2-chloroethyl)ether	100	78.9		ug/L		79	12 - 158	
Bis(2-ethylhexyl) phthalate	100	110		ug/L		110	8 - 158	
Butyl benzyl phthalate	100	115		ug/L		115	1 - 152	
Chrysene	100	109		ug/L		109	17 - 168	

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
 Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-57908-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-176482/2-A

Matrix: Water

Analysis Batch: 176761

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 176482

Analyte	Spike Added	LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Dibenz(a,h)anthracene	100	110		ug/L		110	1 - 227
Diethyl phthalate	100	98.2		ug/L		98	1 - 114
Dimethyl phthalate	100	92.1		ug/L		92	1 - 112
Di-n-butyl phthalate	100	101		ug/L		101	1 - 118
Di-n-octyl phthalate	100	96.6		ug/L		97	4 - 146
Fluoranthene	100	102		ug/L		102	26 - 137
Fluorene	100	87.7		ug/L		88	59 - 121
Hexachlorobenzene	100	91.4		ug/L		91	1 - 152
Hexachlorocyclopentadiene	100	43.5		ug/L		44	5 - 120
Hexachloroethane	100	61.5		ug/L		62	40 - 113
Indeno[1,2,3-cd]pyrene	100	100		ug/L		100	1 - 171
Isophorone	100	85.4		ug/L		85	21 - 196
Naphthalene	100	79.6		ug/L		80	21 - 133
Nitrobenzene	100	82.5		ug/L		83	35 - 180
N-Nitrosodi-n-propylamine	100	84.4		ug/L		84	1 - 230
N-Nitrosodiphenylamine	100	96.4		ug/L		96	54 - 125
Pentachlorophenol	200	202		ug/L		101	14 - 176
Phenanthrene	100	97.4		ug/L		97	54 - 120
Phenol	100	38.2		ug/L		38	5 - 112
Pyrene	100	119 *		ug/L		119	52 - 115

Surrogate	LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol	95		52 - 151
2-Fluorobiphenyl	78		44 - 120
2-Fluorophenol	46		17 - 120
Nitrobenzene-d5	79		42 - 120
Phenol-d5	33		10 - 120
p-Terphenyl-d14	121		22 - 125

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-176065/1-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 176375

Prep Batch: 176065

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	ND		0.010	0.0056	mg/L		04/16/14 09:10	04/17/14 02:25	1
Barium	ND		0.0020	0.00070	mg/L		04/16/14 09:10	04/17/14 02:25	1
Chromium	ND		0.0040	0.0010	mg/L		04/16/14 09:10	04/17/14 02:25	1
Copper	ND		0.010	0.0016	mg/L		04/16/14 09:10	04/17/14 02:25	1
Nickel	ND		0.010	0.0013	mg/L		04/16/14 09:10	04/17/14 02:25	1
Zinc	ND		0.010	0.0015	mg/L		04/16/14 09:10	04/17/14 02:25	1

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-57908-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-176065/2-A

Matrix: Water

Analysis Batch: 176375

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 176065

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
	Added	Result	Qualifier				
Arsenic	0.200	0.213		mg/L		107	85 - 115
Barium	0.200	0.212		mg/L		106	85 - 115
Chromium	0.200	0.205		mg/L		103	85 - 115
Copper	0.200	0.204		mg/L		102	85 - 115
Nickel	0.200	0.202		mg/L		101	85 - 115
Zinc	0.200	0.207		mg/L		103	85 - 115

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-175929/1

Matrix: Water

Analysis Batch: 175929

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
Total Suspended Solids	ND				4.0	4.0	mg/L			04/15/14 17:07	1

Lab Sample ID: LCS 480-175929/2

Matrix: Water

Analysis Batch: 175929

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
	Added	Result	Qualifier				
Total Suspended Solids	225	207.6		mg/L		92	88 - 110

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-176036/1

Matrix: Water

Analysis Batch: 176036

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
	Added	Result	Qualifier				
pH	7.00	6.990		SU		100	99 - 101

Lab Sample ID: 480-57908-6 DU

Matrix: Water

Analysis Batch: 176036

Client Sample ID: Alltift Collection Sump - Comp

Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier						
pH	7.55	HF	7.560		SU		0.1	5

Method: SM 4500 P E - Phosphorus

Lab Sample ID: MB 480-177841/27

Matrix: Water

Analysis Batch: 177841

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
Phosphorus, Total	ND		0.010		0.0050	mg/L				04/23/14 13:22	1

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
 Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-57908-1

Method: SM 4500 P E - Phosphorus (Continued)

Lab Sample ID: MB 480-177841/75

Matrix: Water

Analysis Batch: 177841

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phosphorus, Total	ND		0.010	0.0050	mg/L			04/23/14 13:22	1

Lab Sample ID: LCS 480-177841/28

Matrix: Water

Analysis Batch: 177841

Analyte	Spike	LCS	LCS	Unit	D	%Rec.	Limits
	Added	Result	Qualifier				
Phosphorus, Total	0.200	0.208		mg/L		104	90 - 110

Lab Sample ID: LCS 480-177841/76

Matrix: Water

Analysis Batch: 177841

Analyte	Spike	LCS	LCS	Unit	D	%Rec.	Limits
	Added	Result	Qualifier				
Phosphorus, Total	0.200	0.190		mg/L		95	90 - 110

QC Association Summary

Client: Honeywell International Inc
Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-57908-1

GC/MS VOA

Analysis Batch: 175909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57908-7	Alltift Collection Sump - Grab	Total/NA	Water	624	
LCS 480-175909/5	Lab Control Sample	Total/NA	Water	624	
MB 480-175909/6	Method Blank	Total/NA	Water	624	

GC/MS Semi VOA

Prep Batch: 176482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57908-7	Alltift Collection Sump - Grab	Total/NA	Water	625	
LCS 480-176482/2-A	Lab Control Sample	Total/NA	Water	625	
MB 480-176482/1-A	Method Blank	Total/NA	Water	625	

Analysis Batch: 176761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57908-7	Alltift Collection Sump - Grab	Total/NA	Water	625	176482
LCS 480-176482/2-A	Lab Control Sample	Total/NA	Water	625	176482
MB 480-176482/1-A	Method Blank	Total/NA	Water	625	176482

Metals

Prep Batch: 176065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57908-6	Alltift Collection Sump - Comp	Total/NA	Water	200.7	
LCS 480-176065/2-A	Lab Control Sample	Total/NA	Water	200.7	
MB 480-176065/1-A	Method Blank	Total/NA	Water	200.7	

Analysis Batch: 176375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57908-6	Alltift Collection Sump - Comp	Total/NA	Water	200.7 Rev 4.4	176065
LCS 480-176065/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	176065
MB 480-176065/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	176065

General Chemistry

Analysis Batch: 175929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57908-6	Alltift Collection Sump - Comp	Total/NA	Water	SM 2540D	
LCS 480-175929/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 480-175929/1	Method Blank	Total/NA	Water	SM 2540D	

Analysis Batch: 176036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57908-6	Alltift Collection Sump - Comp	Total/NA	Water	SM 4500 H+ B	
480-57908-6 DU	Alltift Collection Sump - Comp	Total/NA	Water	SM 4500 H+ B	
LCS 480-176036/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 177841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57908-6	Alltift Collection Sump - Comp	Total/NA	Water	SM 4500 P E	
LCS 480-177841/28	Lab Control Sample	Total/NA	Water	SM 4500 P E	

TestAmerica Buffalo

QC Association Summary

Client: Honeywell International Inc
Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-57908-1

General Chemistry (Continued)

Analysis Batch: 177841 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-177841/76	Lab Control Sample	Total/NA	Water	SM 4500 P E	
MB 480-177841/27	Method Blank	Total/NA	Water	SM 4500 P E	
MB 480-177841/75	Method Blank	Total/NA	Water	SM 4500 P E	

Lab Chronicle

Client: Honeywell International Inc
Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-57908-1

Client Sample ID: Alltift Collection Sump - Comp

Lab Sample ID: 480-57908-6

Matrix: Water

Date Collected: 04/14/14 12:15
Date Received: 04/14/14 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.7			176065	04/16/14 09:10	EHD	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	176375	04/17/14 03:13	LMH	TAL BUF
Total/NA	Analysis	SM 2540D		1	175929	04/15/14 17:45	KS	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	176036	04/15/14 21:05	KS	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	177841	04/23/14 13:22	KMF	TAL BUF

Client Sample ID: Alltift Collection Sump - Grab

Lab Sample ID: 480-57908-7

Matrix: Water

Date Collected: 04/14/14 12:00
Date Received: 04/14/14 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		10	175909	04/15/14 16:17	TRB	TAL BUF
Total/NA	Prep	625			176482	04/17/14 11:25	MCZ	TAL BUF
Total/NA	Analysis	625		1	176761	04/18/14 17:53	ANM	TAL BUF

Laboratory References:

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

TestAmerica Buffalo

Certification Summary

Client: Honeywell International Inc

TestAmerica Job ID: 480-57908-1

Project/Site: 30130 - Alltift OM Phase / Semi Annual

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-15

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
624		Water	1,2-Dichloroethene, Total
625	625	Water	1,2-Dichlorobenzene
625	625	Water	1,2-Diphenylhydrazine
625	625	Water	1,3-Dichlorobenzene
625	625	Water	1,4-Dichlorobenzene
625	625	Water	4-Chloroaniline
SM 4500 H+B		Water	pH

Method Summary

Client: Honeywell International Inc

Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-57908-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
625	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF
SM 4500 P E	Phosphorus	SM	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.

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

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

Sample Summary

Client: Honeywell International Inc

Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-57908-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-57908-6	Alltift Collection Sump - Comp	Water	04/14/14 12:15	04/14/14 17:00
480-57908-7	Alltift Collection Sump - Grab	Water	04/14/14 12:00	04/14/14 17:00

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TestAmerica Buffalo



Client Information	
Sampler:	Patrick Higgins
Phone:	315-468-1663
480-57908 Chain of Custody	

CCN No:
480-21387-2026.1
Page:
Page 1 of 1
Job #:

Analysis Requested

Location Identification	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=water/oil, T=tissue, A=air)	Preservation Code	Special Instructions/Note:				
							S	D	N	A	N
BSA Discharge	GRAB 1	4/14/14	0600	G	W	N			2	2	
BSA Discharge	GRAB 2	4/14/14	0800	G	W	N			2	2	
BSA Discharge	GRAB 3	4/14/14	1000	G	W	N			2	2	
BSA Discharge	GRAB 4	4/14/14	1200	G	W	N			2	2	
BSA Discharge	COMP	4/14/14	1215	C	W	N			1	1	
TRIPBLANK	-TB	4/14/14	1215		W	N					

Possible Hazard Identification

- Non-Hazard Flammable
 Irritant Skin Irritant
 Unknown Poison A
 Radioactive

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
John Formoza	4/14/2014	17:00	Company
John Formoza	Date/time:	Received by:	Date/time:

Consignee Temperature(s) °C and Other Remarks:
 Custody Seal Intact: Yes No
 Custody Seal No.: 4/28/2014

3 2-7

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Login Sample Receipt Checklist

Client: Honeywell International Inc

Job Number: 480-57908-1

Login Number: 57908

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

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.	True	
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.	False	Lab to comp 624/625 volume
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	True	Ok

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: 480-60395-1

Client Project/Site: 30130 - Alltift Collection System

For:

Honeywell International Inc

101 Columbia Road

Morristown, New Jersey 07962

Attn: Mr. Rich Galloway

Authorized for release by:

5/27/2014 12:20:32 PM

Rebecca Jones, Project Management Assistant I

rebecca.jones@testamericainc.com

Designee for

John Schove, Project Manager II

(716)504-9838

john.schove@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	14
Lab Chronicle	15
Certification Summary	16
Method Summary	17
Sample Summary	18
Chain of Custody	19
Receipt Checklists	20

Definitions/Glossary

Client: Honeywell International Inc
Project/Site: 30130 - Alltift Collection System

TestAmerica Job ID: 480-60395-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Honeywell International Inc
Project/Site: 30130 - Alltift Collection System

TestAmerica Job ID: 480-60395-1

Job ID: 480-60395-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-60395-1

Comments

No additional comments.

Receipt

The samples were received on 5/22/2014 1:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.9° C.

GC/MS VOA

Method(s) 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: Sump 2-052214 (480-60395-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Honeywell International Inc
Project/Site: 30130 - Alltift Collection System

TestAmerica Job ID: 480-60395-1

Client Sample ID: Sump1-052214

Lab Sample ID: 480-60395-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	1.3		1.0	0.75	ug/L	1		8260C	Total/NA

Client Sample ID: FDUP-052214

Lab Sample ID: 480-60395-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	1.6		1.0	0.75	ug/L	1		8260C	Total/NA

Client Sample ID: Sump 2-052214

Lab Sample ID: 480-60395-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	4.9	J	5.0	2.1	ug/L	5		8260C	Total/NA
Chlorobenzene	62		5.0	3.8	ug/L	5		8260C	Total/NA

Client Sample ID: SW 1-052214

Lab Sample ID: 480-60395-4

No Detections.

Client Sample ID: 052214-TB

Lab Sample ID: 480-60395-5

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Honeywell International Inc
 Project/Site: 30130 - Alltift Collection System

TestAmerica Job ID: 480-60395-1

Client Sample ID: Sump1-052214

Lab Sample ID: 480-60395-1

Date Collected: 05/22/14 09:30

Matrix: Water

Date Received: 05/22/14 13:10

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			05/24/14 15:01	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			05/24/14 15:01	1
Benzene	1.0	U	1.0	0.41	ug/L			05/24/14 15:01	1
Chlorobenzene	1.3		1.0	0.75	ug/L			05/24/14 15:01	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			05/24/14 15:01	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			05/24/14 15:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	123		66 - 137		05/24/14 15:01	1
4-Bromofluorobenzene (Surr)	94		73 - 120		05/24/14 15:01	1
Toluene-d8 (Surr)	105		71 - 126		05/24/14 15:01	1

Client Sample Results

Client: Honeywell International Inc
 Project/Site: 30130 - Alltift Collection System

TestAmerica Job ID: 480-60395-1

Client Sample ID: FDUP-052214

Lab Sample ID: 480-60395-2

Matrix: Water

Date Collected: 05/22/14 09:35

Date Received: 05/22/14 13:10

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			05/24/14 15:25	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			05/24/14 15:25	1
Benzene	1.0	U	1.0	0.41	ug/L			05/24/14 15:25	1
Chlorobenzene	1.6		1.0	0.75	ug/L			05/24/14 15:25	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			05/24/14 15:25	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			05/24/14 15:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	124		66 - 137		05/24/14 15:25	1
4-Bromofluorobenzene (Surr)	96		73 - 120		05/24/14 15:25	1
Toluene-d8 (Surr)	103		71 - 126		05/24/14 15:25	1

Client Sample Results

Client: Honeywell International Inc
 Project/Site: 30130 - Alltift Collection System

TestAmerica Job ID: 480-60395-1

Client Sample ID: Sump 2-052214

Lab Sample ID: 480-60395-3

Matrix: Water

Date Collected: 05/22/14 09:55

Date Received: 05/22/14 13:10

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	5.0	U	5.0	4.0	ug/L			05/24/14 06:11	5
1,4-Dichlorobenzene	5.0	U	5.0	4.2	ug/L			05/24/14 06:11	5
Benzene	4.9	J	5.0	2.1	ug/L			05/24/14 06:11	5
Chlorobenzene	62		5.0	3.8	ug/L			05/24/14 06:11	5
Ethylbenzene	5.0	U	5.0	3.7	ug/L			05/24/14 06:11	5
Xylenes, Total	10	U	10	3.3	ug/L			05/24/14 06:11	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	127		66 - 137		05/24/14 06:11	5
4-Bromofluorobenzene (Surr)	91		73 - 120		05/24/14 06:11	5
Toluene-d8 (Surr)	102		71 - 126		05/24/14 06:11	5

Client Sample Results

Client: Honeywell International Inc
 Project/Site: 30130 - Alltift Collection System

TestAmerica Job ID: 480-60395-1

Client Sample ID: SW 1-052214

Lab Sample ID: 480-60395-4

Matrix: Water

Date Collected: 05/22/14 10:20

Date Received: 05/22/14 13:10

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			05/24/14 06:35	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			05/24/14 06:35	1
Benzene	1.0	U	1.0	0.41	ug/L			05/24/14 06:35	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			05/24/14 06:35	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			05/24/14 06:35	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			05/24/14 06:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	127		66 - 137		05/24/14 06:35	1
4-Bromofluorobenzene (Surr)	90		73 - 120		05/24/14 06:35	1
Toluene-d8 (Surr)	100		71 - 126		05/24/14 06:35	1

Client Sample Results

Client: Honeywell International Inc
 Project/Site: 30130 - Alltift Collection System

TestAmerica Job ID: 480-60395-1

Client Sample ID: 052214-TB

Lab Sample ID: 480-60395-5

Matrix: Water

Date Collected: 05/22/14 10:35

Date Received: 05/22/14 13:10

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			05/24/14 06:59	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			05/24/14 06:59	1
Benzene	1.0	U	1.0	0.41	ug/L			05/24/14 06:59	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			05/24/14 06:59	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			05/24/14 06:59	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			05/24/14 06:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	128		66 - 137		05/24/14 06:59	1
4-Bromofluorobenzene (Surr)	90		73 - 120		05/24/14 06:59	1
Toluene-d8 (Surr)	103		71 - 126		05/24/14 06:59	1

Surrogate Summary

Client: Honeywell International Inc
Project/Site: 30130 - Alltift Collection System

TestAmerica Job ID: 480-60395-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		12DCE (66-137)	BFB (73-120)	TOL (71-126)
480-60395-1	Sump1-052214	123	94	105
480-60395-2	FDUP-052214	124	96	103
480-60395-3	Sump 2-052214	127	91	102
480-60395-4	SW 1-052214	127	90	100
480-60395-5	052214-TB	128	90	103
LCS 480-183935/4	Lab Control Sample	116	101	107
LCS 480-183987/4	Lab Control Sample	114	101	108
MB 480-183935/6	Method Blank	121	93	101
MB 480-183987/6	Method Blank	124	90	102

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltift Collection System

TestAmerica Job ID: 480-60395-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-183935/6

Matrix: Water

Analysis Batch: 183935

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

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			05/24/14 00:51	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			05/24/14 00:51	1
Benzene	1.0	U	1.0	0.41	ug/L			05/24/14 00:51	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			05/24/14 00:51	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			05/24/14 00:51	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			05/24/14 00:51	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	121		66 - 137		05/24/14 00:51	1
4-Bromofluorobenzene (Surr)	93		73 - 120		05/24/14 00:51	1
Toluene-d8 (Surr)	101		71 - 126		05/24/14 00:51	1

Lab Sample ID: LCS 480-183935/4

Matrix: Water

Analysis Batch: 183935

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

Analyte	Spike		Result	LCS Qualifier	Unit	D	%Rec	Limits	%Rec.
	Added								
1,2-Dichlorobenzene	25.0		26.0		ug/L		104	80 - 124	
1,4-Dichlorobenzene	25.0		25.4		ug/L		102	75 - 120	
Benzene	25.0		25.2		ug/L		101	71 - 124	
Chlorobenzene	25.0		25.8		ug/L		103	72 - 120	
Ethylbenzene	25.0		26.5		ug/L		106	77 - 123	
m-Xylene & p-Xylene	25.0		25.3		ug/L		101	76 - 122	
o-Xylene	25.0		25.7		ug/L		103	76 - 122	

Surrogate	LCS		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	116		66 - 137			
4-Bromofluorobenzene (Surr)	101		73 - 120			
Toluene-d8 (Surr)	107		71 - 126			

Lab Sample ID: MB 480-183987/6

Matrix: Water

Analysis Batch: 183987

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

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			05/24/14 13:13	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			05/24/14 13:13	1
Benzene	1.0	U	1.0	0.41	ug/L			05/24/14 13:13	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			05/24/14 13:13	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			05/24/14 13:13	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			05/24/14 13:13	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	124		66 - 137		05/24/14 13:13	1
4-Bromofluorobenzene (Surr)	90		73 - 120		05/24/14 13:13	1
Toluene-d8 (Surr)	102		71 - 126		05/24/14 13:13	1

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltift Collection System

TestAmerica Job ID: 480-60395-1

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

Lab Sample ID: LCS 480-183987/4

Matrix: Water

Analysis Batch: 183987

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

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				Limits
1,2-Dichlorobenzene	25.0	25.6		ug/L		102	80 - 124
1,4-Dichlorobenzene	25.0	25.2		ug/L		101	75 - 120
Benzene	25.0	25.8		ug/L		103	71 - 124
Chlorobenzene	25.0	26.3		ug/L		105	72 - 120
Ethylbenzene	25.0	27.2		ug/L		109	77 - 123
m-Xylene & p-Xylene	25.0	26.2		ug/L		105	76 - 122
o-Xylene	25.0	26.5		ug/L		106	76 - 122

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	114		66 - 137
4-Bromofluorobenzene (Surr)	101		73 - 120
Toluene-d8 (Surr)	108		71 - 126

QC Association Summary

Client: Honeywell International Inc
Project/Site: 30130 - Alltift Collection System

TestAmerica Job ID: 480-60395-1

GC/MS VOA

Analysis Batch: 183935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60395-3	Sump 2-052214	Total/NA	Water	8260C	
480-60395-4	SW 1-052214	Total/NA	Water	8260C	
480-60395-5	052214-TB	Total/NA	Water	8260C	
LCS 480-183935/4	Lab Control Sample	Total/NA	Water	8260C	
MB 480-183935/6	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 183987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60395-1	Sump1-052214	Total/NA	Water	8260C	
480-60395-2	FDUP-052214	Total/NA	Water	8260C	
LCS 480-183987/4	Lab Control Sample	Total/NA	Water	8260C	
MB 480-183987/6	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

Client: Honeywell International Inc
 Project/Site: 30130 - Alltift Collection System

TestAmerica Job ID: 480-60395-1

Client Sample ID: Sump1-052214

Lab Sample ID: 480-60395-1

Matrix: Water

Date Collected: 05/22/14 09:30
Date Received: 05/22/14 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	183987	05/24/14 15:01	GTG	TAL BUF

Client Sample ID: FDUP-052214

Lab Sample ID: 480-60395-2

Matrix: Water

Date Collected: 05/22/14 09:35
Date Received: 05/22/14 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	183987	05/24/14 15:25	GTG	TAL BUF

Client Sample ID: Sump 2-052214

Lab Sample ID: 480-60395-3

Matrix: Water

Date Collected: 05/22/14 09:55
Date Received: 05/22/14 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	183935	05/24/14 06:11	RAL	TAL BUF

Client Sample ID: SW 1-052214

Lab Sample ID: 480-60395-4

Matrix: Water

Date Collected: 05/22/14 10:20
Date Received: 05/22/14 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	183935	05/24/14 06:35	RAL	TAL BUF

Client Sample ID: 052214-TB

Lab Sample ID: 480-60395-5

Matrix: Water

Date Collected: 05/22/14 10:35
Date Received: 05/22/14 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	183935	05/24/14 06:59	RAL	TAL BUF

Laboratory References:

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

TestAmerica Buffalo

Certification Summary

Client: Honeywell International Inc
Project/Site: 30130 - Alltift Collection System

TestAmerica Job ID: 480-60395-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-15

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TestAmerica Buffalo

Method Summary

Client: Honeywell International Inc
Project/Site: 30130 - Alltift Collection System

TestAmerica Job ID: 480-60395-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF

Protocol References:

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

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Sample Summary

Client: Honeywell International Inc
Project/Site: 30130 - Alltift Collection System

TestAmerica Job ID: 480-60395-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-60395-1	Sump1-052214	Water	05/22/14 09:30	05/22/14 13:10
480-60395-2	FDUP-052214	Water	05/22/14 09:35	05/22/14 13:10
480-60395-3	Sump 2-052214	Water	05/22/14 09:55	05/22/14 13:10
480-60395-4	SW 1-052214	Water	05/22/14 10:20	05/22/14 13:10
480-60395-5	052214-TB	Water	05/22/14 10:35	05/22/14 13:10



480-60395 Chain of Custody

Chain of Custody Record

Client Information		Sampler: Patrick Higgins Phone: 315-468-1663	Lab P.M.: John Schove E-Mail: john.schove@testamericainc.com	Carrier Tracking No(s): COC No: 480-21387-2026.1	Page: Page 1 of 1
Client Contact: John Formoza	Company: Honeywell International Inc	Address: 1563 Willis Ave. City: Syracuse State, Zip: NY, 13204 Phone: 315-468-1663 Email: John.Formoza@ch2m.com Project Name: Honeywell - Allift OM phase / Semi Annual Site: Honeywell - Buffalo Sites	Due Date Requested: TAT Requested (days): 2 Weeks	Analysis Requested	
<p style="text-align: center;">8260B- 1,2-dichlorobenzene, Benzene, Chlorobenzene, 1,4-dichlorobenzene, Ethylbenzene, and total Xylylene</p> <p>Total Number of Contaminants:</p> <p>Special Instructions/Note:</p> <p>Other:</p>					
Location Identification	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=wat, S=solid, O=water/oil, T=tissue, A=air)
Sump 1	Sump1-052214	5/22/14	09:30	G	W
Sump 1	FDUP-052214	5/22/14	09:30	G	W
Sump 2	Sump 2-052214	5/22/14	09:30	G	W
Surface Water 1	SW 1-052214	5/22/14	10:20	G	W
TRIPBLANK	052214-TB	5/22/14	10:30	G	W
<p>Possible Hazard Identification</p> <p><input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological</p> <p>Deliverable Requested: I, II, III, IV, Other (specify)</p> <p>Empty Kit Relinquished by: <i>Honeywell</i></p> <p>Custody Seal intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>					
<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab</p> <p>Special Instructions/QC Requirements:</p> <p>Method of Shipment:</p> <p>Date/Time: <i>5/22/14 13:00</i> Received by: <i>John Schove</i></p> <p>Date/Time: <i>5/22/14 13:10</i> Received by: <i>John Schove</i></p> <p>Cooler Temperature(s) °C and Other Remarks: <i>#7 3.9</i></p>					

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Login Sample Receipt Checklist

Client: Honeywell International Inc

Job Number: 480-60395-1

Login Number: 60395

List Source: TestAmerica Buffalo

List Number: 1

Creator: Stau, Brandon M

Question	Answer	Comment	
Radioactivity either was not measured or, if measured, is at or below background	True		1
The cooler's custody seal, if present, is intact.	True		2
The cooler or samples do not appear to have been compromised or tampered with.	True		3
Samples were received on ice.	True		4
Cooler Temperature is acceptable.	True		5
Cooler Temperature is recorded.	True		6
COC is present.	True		7
COC is filled out in ink and legible.	True		8
COC is filled out with all pertinent information.	True		9
Is the Field Sampler's name present on COC?	True		10
There are no discrepancies between the sample IDs on the containers and the COC.	True		11
Samples are received within Holding Time.	True		12
Sample containers have legible labels.	True		13
Containers are not broken or leaking.	True		14
Sample collection date/times are provided.	True		15
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	ch2mhill	
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		

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: 480-60397-1

Client Project/Site: 30130 - Allift OM Phase / Semi Annual

For:

Honeywell International Inc
101 Columbia Road
Morristown, New Jersey 07962

Attn: Mr. Rich Galloway

Authorized for release by:

5/23/2014 5:16:42 PM

Rebecca Jones, Project Management Assistant I
rebecca.jones@testamericainc.com

Designee for

John Schove, Project Manager II
(716)504-9838
john.schove@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
Surrogate Summary	8
QC Sample Results	9
QC Association Summary	10
Lab Chronicle	11
Certification Summary	12
Method Summary	13
Sample Summary	14
Chain of Custody	15
Receipt Checklists	16

Definitions/Glossary

Client: Honeywell International Inc
Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-60397-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.	1
□	Listed under the "D" column to designate that the result is reported on a dry weight basis	2
%R	Percent Recovery	3
CNF	Contains no Free Liquid	4
DER	Duplicate error ratio (normalized absolute difference)	5
Dil Fac	Dilution Factor	6
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	7
DLC	Decision level concentration	8
MDA	Minimum detectable activity	9
EDL	Estimated Detection Limit	10
MDC	Minimum detectable concentration	11
MDL	Method Detection Limit	12
ML	Minimum Level (Dioxin)	13
NC	Not Calculated	14
ND	Not detected at the reporting limit (or MDL or EDL if shown)	15
PQL	Practical Quantitation Limit	
QC	Quality Control	
RER	Relative error ratio	
RL	Reporting Limit or Requested Limit (Radiochemistry)	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEQ	Toxicity Equivalent Quotient (Dioxin)	

Case Narrative

Client: Honeywell International Inc
Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-60397-1

Job ID: 480-60397-1

Laboratory: TestAmerica Buffalo

Narrative

**Job Narrative
480-60397-1**

Comments

No additional comments.

Receipt

The samples were received on 5/22/2014 1:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.1° C.

GC/MS VOA

Method(s) 8260C: The method blank for batch 183519 contained Methylene chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Honeywell International Inc
Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-60397-1

Client Sample ID: SSA1-052214

Lab Sample ID: 480-60397-1

No Detections.

Client Sample ID: SSA2-052214

Lab Sample ID: 480-60397-2

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Honeywell International Inc

TestAmerica Job ID: 480-60397-1

Project/Site: 30130 - Alltift OM Phase / Semi Annual

Client Sample ID: SSA1-052214

Lab Sample ID: 480-60397-1

Date Collected: 05/22/14 11:35

Matrix: Solid

Date Received: 05/22/14 13:10

Percent Solids: 63.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		6.9	0.54	ug/Kg	⊗	05/22/14 19:41	05/22/14 20:54	1
1,4-Dichlorobenzene	ND		6.9	0.96	ug/Kg	⊗	05/22/14 19:41	05/22/14 20:54	1
Benzene	ND		6.9	0.34	ug/Kg	⊗	05/22/14 19:41	05/22/14 20:54	1
Chlorobenzene	ND		6.9	0.91	ug/Kg	⊗	05/22/14 19:41	05/22/14 20:54	1
Ethylbenzene	ND		6.9	0.47	ug/Kg	⊗	05/22/14 19:41	05/22/14 20:54	1
Xylenes, Total	ND		14	1.2	ug/Kg	⊗	05/22/14 19:41	05/22/14 20:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		64 - 126				05/22/14 19:41	05/22/14 20:54	1
4-Bromofluorobenzene (Surr)	97		72 - 126				05/22/14 19:41	05/22/14 20:54	1
Toluene-d8 (Surr)	101		71 - 125				05/22/14 19:41	05/22/14 20:54	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	37		0.10	0.10	%			05/22/14 20:26	1

Client Sample Results

Client: Honeywell International Inc

TestAmerica Job ID: 480-60397-1

Project/Site: 30130 - Alltift OM Phase / Semi Annual

Client Sample ID: SSA2-052214

Lab Sample ID: 480-60397-2

Date Collected: 05/22/14 10:50

Matrix: Solid

Date Received: 05/22/14 13:10

Percent Solids: 61.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		6.8	0.53	ug/Kg	⊗	05/22/14 19:41	05/22/14 21:20	1
1,4-Dichlorobenzene	ND		6.8	0.95	ug/Kg	⊗	05/22/14 19:41	05/22/14 21:20	1
Benzene	ND		6.8	0.33	ug/Kg	⊗	05/22/14 19:41	05/22/14 21:20	1
Chlorobenzene	ND		6.8	0.90	ug/Kg	⊗	05/22/14 19:41	05/22/14 21:20	1
Ethylbenzene	ND		6.8	0.47	ug/Kg	⊗	05/22/14 19:41	05/22/14 21:20	1
Xylenes, Total	ND		14	1.1	ug/Kg	⊗	05/22/14 19:41	05/22/14 21:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		64 - 126				05/22/14 19:41	05/22/14 21:20	1
4-Bromofluorobenzene (Surr)	96		72 - 126				05/22/14 19:41	05/22/14 21:20	1
Toluene-d8 (Surr)	100		71 - 125				05/22/14 19:41	05/22/14 21:20	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	39		0.10	0.10	%		05/22/14 20:26		1

Surrogate Summary

Client: Honeywell International Inc

TestAmerica Job ID: 480-60397-1

Project/Site: 30130 - Alltift OM Phase / Semi Annual

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	12DCE (64-126)	BFB (72-126)	TOL (71-125)									
480-60397-1	SSA1-052214	105	97	101									
480-60397-2	SSA2-052214	102	96	100									
LCS 480-183519/6	Lab Control Sample	89	96	100									
LCSD 480-183519/7	Lab Control Sample Dup	93	98	100									
MB 480-183519/8	Method Blank	93	94	99									

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: Honeywell International Inc

TestAmerica Job ID: 480-60397-1

Project/Site: 30130 - Alltift OM Phase / Semi Annual

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-183519/8

Matrix: Solid

Analysis Batch: 183519

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg			05/22/14 12:27	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg			05/22/14 12:27	1
Benzene	ND		5.0	0.25	ug/Kg			05/22/14 12:27	1
Chlorobenzene	ND		5.0	0.66	ug/Kg			05/22/14 12:27	1
Ethylbenzene	ND		5.0	0.35	ug/Kg			05/22/14 12:27	1
Xylenes, Total	ND		10	0.84	ug/Kg			05/22/14 12:27	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	93		64 - 126		05/22/14 12:27	1
4-Bromofluorobenzene (Surr)	94		72 - 126		05/22/14 12:27	1
Toluene-d8 (Surr)	99		71 - 125		05/22/14 12:27	1

Lab Sample ID: LCS 480-183519/6

Matrix: Solid

Analysis Batch: 183519

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

Analyte	Spike	LCS	LCS	D	%Rec	Limits	%Rec.
	Added	Result	Qualifier				
1,2-Dichlorobenzene	50.0	49.3		ug/Kg	99	75 - 120	
1,4-Dichlorobenzene	50.0	49.4		ug/Kg	99	73 - 120	
Benzene	50.0	47.7		ug/Kg	95	79 - 127	
Chlorobenzene	50.0	49.6		ug/Kg	99	76 - 124	
Ethylbenzene	50.0	50.4		ug/Kg	101	80 - 120	
Xylenes, Total	100	99.8		ug/Kg	100	70 - 130	

Surrogate	LCS	LCS	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	89		64 - 126			
4-Bromofluorobenzene (Surr)	96		72 - 126			
Toluene-d8 (Surr)	100		71 - 125			

Lab Sample ID: LCSD 480-183519/7

Matrix: Solid

Analysis Batch: 183519

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

Analyte	Spike	LCSD	LCSD	D	%Rec	Limits	%Rec.	RPD	Limit
	Added	Result	Qualifier						
1,2-Dichlorobenzene	50.0	49.8		ug/Kg	100	75 - 120	1	20	
1,4-Dichlorobenzene	50.0	50.8		ug/Kg	102	73 - 120	3	20	
Benzene	50.0	47.7		ug/Kg	95	79 - 127	0	20	
Chlorobenzene	50.0	49.7		ug/Kg	99	76 - 124	0	20	
Ethylbenzene	50.0	49.5		ug/Kg	99	80 - 120	2	20	
Xylenes, Total	100	98.8		ug/Kg	99	70 - 130	1	20	

Surrogate	LCSD	LCSD	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	93		64 - 126			
4-Bromofluorobenzene (Surr)	98		72 - 126			
Toluene-d8 (Surr)	100		71 - 125			

TestAmerica Buffalo

QC Association Summary

Client: Honeywell International Inc

Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-60397-1

GC/MS VOA

Analysis Batch: 183519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60397-1	SSA1-052214	Total/NA	Solid	8260C	183686
480-60397-2	SSA2-052214	Total/NA	Solid	8260C	183686
LCS 480-183519/6	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 480-183519/7	Lab Control Sample Dup	Total/NA	Solid	8260C	
MB 480-183519/8	Method Blank	Total/NA	Solid	8260C	

Prep Batch: 183686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60397-1	SSA1-052214	Total/NA	Solid	5035	
480-60397-2	SSA2-052214	Total/NA	Solid	5035	

General Chemistry

Analysis Batch: 183690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60397-1	SSA1-052214	Total/NA	Solid	Moisture	
480-60397-2	SSA2-052214	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Honeywell International Inc

TestAmerica Job ID: 480-60397-1

Project/Site: 30130 - Alltift OM Phase / Semi Annual

Client Sample ID: SSA1-052214

Lab Sample ID: 480-60397-1

Date Collected: 05/22/14 11:35

Matrix: Solid

Date Received: 05/22/14 13:10

Percent Solids: 63.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			183686	05/22/14 19:41	CDC	TAL BUF
Total/NA	Analysis	8260C		1	183519	05/22/14 20:54	CDC	TAL BUF
Total/NA	Analysis	Moisture		1	183690	05/22/14 20:26	CDC	TAL BUF

Client Sample ID: SSA2-052214

Lab Sample ID: 480-60397-2

Date Collected: 05/22/14 10:50

Matrix: Solid

Date Received: 05/22/14 13:10

Percent Solids: 61.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			183686	05/22/14 19:41	CDC	TAL BUF
Total/NA	Analysis	8260C		1	183519	05/22/14 21:20	CDC	TAL BUF
Total/NA	Analysis	Moisture		1	183690	05/22/14 20:26	CDC	TAL BUF

Laboratory References:

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

Certification Summary

Client: Honeywell International Inc

TestAmerica Job ID: 480-60397-1

Project/Site: 30130 - Alltift OM Phase / Semi Annual

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-15
The following analytes are included in this report, but certification is not offered by the governing authority:				
Analysis Method	Prep Method	Matrix	Analyte	
Moisture		Solid	Percent Moisture	

Method Summary

Client: Honeywell International Inc
Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-60397-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

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Sample Summary

Client: Honeywell International Inc

Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-60397-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-60397-1	SSA1-052214	Solid	05/22/14 11:35	05/22/14 13:10
480-60397-2	SSA2-052214	Solid	05/22/14 10:50	05/22/14 13:10

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TestAmerica Buffalo



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Chain of Custody Record

480-60397 Chain of Custody

Login Sample Receipt Checklist

Client: Honeywell International Inc

Job Number: 480-60397-1

Login Number: 60397

List Source: TestAmerica Buffalo

List Number: 1

Creator: Stau, Brandon M

Question	Answer	Comment	
Radioactivity either was not measured or, if measured, is at or below background	True		1
The cooler's custody seal, if present, is intact.	True		2
The cooler or samples do not appear to have been compromised or tampered with.	True		3
Samples were received on ice.	True		4
Cooler Temperature is acceptable.	True		5
Cooler Temperature is recorded.	True		6
COC is present.	True		7
COC is filled out in ink and legible.	True		8
COC is filled out with all pertinent information.	True		9
Is the Field Sampler's name present on COC?	True		10
There are no discrepancies between the sample IDs on the containers and the COC.	True		11
Samples are received within Holding Time.	True		12
Sample containers have legible labels.	True		13
Containers are not broken or leaking.	True		14
Sample collection date/times are provided.	True		15
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	ch2mhill	
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		

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: 480-66924-1

Client Project/Site: 30130 - Alltift OM Phase / Semi Annual
Sampling Event: Honeywell - Alltift OM Phase (4,10)

For:

Honeywell International Inc
101 Columbia Road
Morristown, New Jersey 07962

Attn: Mr. Rich Galloway

Authorized for release by:

9/23/2014 3:56:41 PM

Rebecca Jones, Project Management Assistant I

rebecca.jones@testamericainc.com

Designee for

John Schove, Project Manager II
(716)504-9838

john.schove@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	22
Lab Chronicle	24
Certification Summary	25
Method Summary	26
Sample Summary	27
Chain of Custody	28
Receipt Checklists	30

Definitions/Glossary

Client: Honeywell International Inc
Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-66924-1

Qualifiers

GC/MS 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.
F2	MS/MSD RPD exceeds control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
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.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

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Case Narrative

Client: Honeywell International Inc
Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-66924-1

Job ID: 480-66924-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-66924-1

Comments

No additional comments.

Receipt

The samples were received on 9/9/2014 2:05 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.8° C.

GC/MS VOA

Method(s) 624: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: Alltift Collection Sump - Grab 1-4 (480-66924-2 MS), Alltift Collection Sump - Grab 1-4 (480-66924-2), Alltift Collection Sump - Grab 1-4 (480-66924-2 MSD). Elevated reporting limits (RLs) are provided.

Method(s) 624: The following samples were composed by the laboratory on 09/09/14 as requested on the chain-of-custody: Alltift Collection Sump - Grab 1-4 (480-66924-2), Alltift Collection Sump - Grab 1-4 (480-66924-2 MS), Alltift Collection Sump - Grab 1-4 (480-66924-2 MSD).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 625: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for batch 118075 recovered outside control limits for the following analyte(s): 2-Chloronaphthalene. 2-Chloronaphthalene has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method(s) 9040C, SM 4500 H+ B: The following sample(s) was received outside of holding time: Alltift Collection Sump - Comp (480-66924-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method(s) 625: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with batch 118075. comp. 480-66924-2

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Honeywell International Inc
 Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-66924-1

Client Sample ID: Alltift Collection Sump - Comp

Lab Sample ID: 480-66924-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.018		0.010	0.0056	mg/L	1		200.7 Rev 4.4	Total/NA
Barium	0.24		0.0020	0.00070	mg/L	1		200.7 Rev 4.4	Total/NA
Chromium	0.0044		0.0040	0.0010	mg/L	1		200.7 Rev 4.4	Total/NA
Copper	0.0066	J	0.010	0.0016	mg/L	1		200.7 Rev 4.4	Total/NA
Nickel	0.013		0.010	0.0013	mg/L	1		200.7 Rev 4.4	Total/NA
Zinc	0.0055	J	0.010	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA
Phosphorus, Total	0.077		0.010	0.0050	mg/L	1		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Solids	53.2		4.0	4.0	mg/L	1		SM 2540D	Total/NA
pH	7.28	HF	0.100	0.100	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: Alltift Collection Sump - Grab 1-4

Lab Sample ID: 480-66924-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	70		50	4.8	ug/L	10		624	Total/NA
Vinyl chloride	9.6	J	50	7.5	ug/L	10		624	Total/NA
4-Chloroaniline	24		5.0	0.89	ug/L	1		625	Total/NA
Butyl benzyl phthalate	1.5	J	5.0	1.4	ug/L	1		625	Total/NA
Di-n-butyl phthalate	1.5	J	5.0	1.2	ug/L	1		625	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-66924-3

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Honeywell International Inc

TestAmerica Job ID: 480-66924-1

Project/Site: 30130 - Alltift OM Phase / Semi Annual

Client Sample ID: Alltift Collection Sump - Comp

Lab Sample ID: 480-66924-1

Matrix: Water

Date Collected: 09/09/14 13:45

Date Received: 09/09/14 14:05

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.018		0.010	0.0056	mg/L		09/10/14 10:54	09/12/14 18:41	1
Barium	0.24		0.0020	0.00070	mg/L		09/10/14 10:54	09/12/14 18:41	1
Chromium	0.0044		0.0040	0.0010	mg/L		09/10/14 10:54	09/12/14 18:41	1
Copper	0.0066 J		0.010	0.0016	mg/L		09/10/14 10:54	09/12/14 18:41	1
Nickel	0.013		0.010	0.0013	mg/L		09/10/14 10:54	09/12/14 18:41	1
Zinc	0.0055 J		0.010	0.0015	mg/L		09/10/14 10:54	09/12/14 18:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus, Total	0.077		0.010	0.0050	mg/L			09/17/14 09:27	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	53.2		4.0	4.0	mg/L			09/11/14 09:52	1
pH	7.28 HF		0.100	0.100	SU			09/10/14 01:36	1

Client Sample Results

Client: Honeywell International Inc

TestAmerica Job ID: 480-66924-1

Project/Site: 30130 - Alltift OM Phase / Semi Annual

Client Sample ID: Alltift Collection Sump - Grab 1-4

Lab Sample ID: 480-66924-2

Matrix: Water

Date Collected: 09/09/14 13:30

Date Received: 09/09/14 14:05

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		50	3.9	ug/L			09/10/14 10:20	10
1,1,2,2-Tetrachloroethane	ND		50	2.6	ug/L			09/10/14 10:20	10
1,1,2-Trichloroethane	ND		50	4.8	ug/L			09/10/14 10:20	10
1,1-Dichloroethane	ND		50	5.9	ug/L			09/10/14 10:20	10
1,1-Dichloroethene	ND		50	8.5	ug/L			09/10/14 10:20	10
1,2-Dichlorobenzene	ND		50	4.4	ug/L			09/10/14 10:20	10
1,2-Dichloroethane	ND		50	6.0	ug/L			09/10/14 10:20	10
1,2-Dichloroethene, Total	ND		100	32	ug/L			09/10/14 10:20	10
1,2-Dichloropropane	ND		50	6.1	ug/L			09/10/14 10:20	10
1,3-Dichlorobenzene	ND		50	5.4	ug/L			09/10/14 10:20	10
1,4-Dichlorobenzene	ND		50	5.1	ug/L			09/10/14 10:20	10
2-Chloroethyl vinyl ether	ND		250	19	ug/L			09/10/14 10:20	10
Acrolein	ND		1000	170	ug/L			09/10/14 10:20	10
Acrylonitrile	ND		500	19	ug/L			09/10/14 10:20	10
Benzene	ND		50	6.0	ug/L			09/10/14 10:20	10
Bromoform	ND		50	4.7	ug/L			09/10/14 10:20	10
Bromomethane	ND		50	12	ug/L			09/10/14 10:20	10
Carbon tetrachloride	ND		50	5.1	ug/L			09/10/14 10:20	10
Chlorobenzene	70		50	4.8	ug/L			09/10/14 10:20	10
Chlorodibromomethane	ND		50	4.1	ug/L			09/10/14 10:20	10
Chloroethane	ND		50	8.7	ug/L			09/10/14 10:20	10
Chloroform	ND		50	5.4	ug/L			09/10/14 10:20	10
Chloromethane	ND		50	6.4	ug/L			09/10/14 10:20	10
cis-1,3-Dichloropropene	ND		50	3.3	ug/L			09/10/14 10:20	10
Dichlorobromomethane	ND		50	5.4	ug/L			09/10/14 10:20	10
Ethylbenzene	ND		50	4.6	ug/L			09/10/14 10:20	10
Methylene Chloride	ND		50	8.1	ug/L			09/10/14 10:20	10
Tetrachloroethene	ND		50	3.4	ug/L			09/10/14 10:20	10
Toluene	ND		50	4.5	ug/L			09/10/14 10:20	10
trans-1,2-Dichloroethene	ND		50	5.9	ug/L			09/10/14 10:20	10
trans-1,3-Dichloropropene	ND		50	4.4	ug/L			09/10/14 10:20	10
Trichloroethene	ND		50	6.0	ug/L			09/10/14 10:20	10
Vinyl chloride	9.6 J		50	7.5	ug/L			09/10/14 10:20	10
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115			72 - 130				09/10/14 10:20	10
4-Bromofluorobenzene (Surr)	100			69 - 121				09/10/14 10:20	10
Toluene-d8 (Surr)	98			70 - 123				09/10/14 10:20	10

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.71	ug/L			09/15/14 14:06	09/19/14 01:08
1,2-Dichlorobenzene	ND		10	0.75	ug/L			09/15/14 14:06	09/19/14 01:08
1,2-Diphenylhydrazine	ND		10	0.66	ug/L			09/15/14 14:06	09/19/14 01:08
1,3-Dichlorobenzene	ND		10	0.74	ug/L			09/15/14 14:06	09/19/14 01:08
1,4-Dichlorobenzene	ND		10	0.74	ug/L			09/15/14 14:06	09/19/14 01:08
2,4,6-Trichlorophenol	ND		5.0	1.7	ug/L			09/15/14 14:06	09/19/14 01:08
2,4-Dichlorophenol	ND		5.0	0.33	ug/L			09/15/14 14:06	09/19/14 01:08
2,4-Dimethylphenol	ND		5.0	0.85	ug/L			09/15/14 14:06	09/19/14 01:08
2,4-Dinitrophenol	ND		10	6.1	ug/L			09/15/14 14:06	09/19/14 01:08

TestAmerica Buffalo

Client Sample Results

Client: Honeywell International Inc

Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-66924-1

Client Sample ID: Alltift Collection Sump - Grab 1-4

Lab Sample ID: 480-66924-2

Matrix: Water

Date Collected: 09/09/14 13:30

Date Received: 09/09/14 14:05

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		5.0	0.54	ug/L		09/15/14 14:06	09/19/14 01:08	1
2,6-Dinitrotoluene	ND		5.0	0.80	ug/L		09/15/14 14:06	09/19/14 01:08	1
2-Chloronaphthalene	ND *		5.0	0.15	ug/L		09/15/14 14:06	09/19/14 01:08	1
2-Chlorophenol	ND		5.0	1.7	ug/L		09/15/14 14:06	09/19/14 01:08	1
2-Nitrophenol	ND		5.0	1.7	ug/L		09/15/14 14:06	09/19/14 01:08	1
3,3'-Dichlorobenzidine	ND		5.0	1.1	ug/L		09/15/14 14:06	09/19/14 01:08	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		09/15/14 14:06	09/19/14 01:08	1
4-Bromophenyl phenyl ether	ND		5.0	0.64	ug/L		09/15/14 14:06	09/19/14 01:08	1
4-Chloro-3-methylphenol	ND		5.0	0.75	ug/L		09/15/14 14:06	09/19/14 01:08	1
4-Chloroaniline	24		5.0	0.89	ug/L		09/15/14 14:06	09/19/14 01:08	1
4-Chlorophenyl phenyl ether	ND		5.0	0.50	ug/L		09/15/14 14:06	09/19/14 01:08	1
4-Nitrophenol	ND		10	6.5	ug/L		09/15/14 14:06	09/19/14 01:08	1
Acenaphthene	ND		5.0	0.14	ug/L		09/15/14 14:06	09/19/14 01:08	1
Acenaphthylene	ND		5.0	0.15	ug/L		09/15/14 14:06	09/19/14 01:08	1
Anthracene	ND		5.0	0.15	ug/L		09/15/14 14:06	09/19/14 01:08	1
Benzidine	ND		80	35	ug/L		09/15/14 14:06	09/19/14 01:08	1
Benzo[a]anthracene	ND		5.0	0.15	ug/L		09/15/14 14:06	09/19/14 01:08	1
Benzo[a]pyrene	ND		5.0	0.13	ug/L		09/15/14 14:06	09/19/14 01:08	1
Benzo[b]fluoranthene	ND		5.0	0.16	ug/L		09/15/14 14:06	09/19/14 01:08	1
Benzo[g,h,i]perylene	ND		5.0	0.15	ug/L		09/15/14 14:06	09/19/14 01:08	1
Benzo[k]fluoranthene	ND		5.0	0.55	ug/L		09/15/14 14:06	09/19/14 01:08	1
bis (2-chloroisopropyl) ether	ND		5.0	0.20	ug/L		09/15/14 14:06	09/19/14 01:08	1
Bis(2-chloroethoxy)methane	ND		5.0	0.58	ug/L		09/15/14 14:06	09/19/14 01:08	1
Bis(2-chloroethyl)ether	ND		5.0	0.25	ug/L		09/15/14 14:06	09/19/14 01:08	1
Bis(2-ethylhexyl) phthalate	ND		13	13	ug/L		09/15/14 14:06	09/19/14 01:08	1
Butyl benzyl phthalate	1.5 J		5.0	1.4	ug/L		09/15/14 14:06	09/19/14 01:08	1
Chrysene	ND		5.0	0.14	ug/L		09/15/14 14:06	09/19/14 01:08	1
Dibenz(a,h)anthracene	ND		5.0	0.16	ug/L		09/15/14 14:06	09/19/14 01:08	1
Diethyl phthalate	ND		5.0	1.5	ug/L		09/15/14 14:06	09/19/14 01:08	1
Dimethyl phthalate	ND		5.0	0.77	ug/L		09/15/14 14:06	09/19/14 01:08	1
Di-n-butyl phthalate	1.5 J		5.0	1.2	ug/L		09/15/14 14:06	09/19/14 01:08	1
Di-n-octyl phthalate	ND		5.0	2.1	ug/L		09/15/14 14:06	09/19/14 01:08	1
Fluoranthene	ND		5.0	0.16	ug/L		09/15/14 14:06	09/19/14 01:08	1
Fluorene	ND		5.0	0.22	ug/L		09/15/14 14:06	09/19/14 01:08	1
Hexachlorobenzene	ND		5.0	0.18	ug/L		09/15/14 14:06	09/19/14 01:08	1
Hexachlorobutadiene	ND		5.0	0.17	ug/L		09/15/14 14:06	09/19/14 01:08	1
Hexachlorocyclopentadiene	ND		5.0	0.52	ug/L		09/15/14 14:06	09/19/14 01:08	1
Hexachloroethane	ND		5.0	0.63	ug/L		09/15/14 14:06	09/19/14 01:08	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.20	ug/L		09/15/14 14:06	09/19/14 01:08	1
Isophorone	ND		5.0	0.64	ug/L		09/15/14 14:06	09/19/14 01:08	1
Naphthalene	ND		5.0	0.14	ug/L		09/15/14 14:06	09/19/14 01:08	1
Nitrobenzene	ND		5.0	0.84	ug/L		09/15/14 14:06	09/19/14 01:08	1
N-Nitrosodimethylamine	ND		10	0.74	ug/L		09/15/14 14:06	09/19/14 01:08	1
N-Nitrosodi-n-propylamine	ND		5.0	0.31	ug/L		09/15/14 14:06	09/19/14 01:08	1
N-Nitrosodiphenylamine	ND		5.0	0.85	ug/L		09/15/14 14:06	09/19/14 01:08	1
Pentachlorophenol	ND		10	0.66	ug/L		09/15/14 14:06	09/19/14 01:08	1
Phenanthrene	ND		5.0	0.43	ug/L		09/15/14 14:06	09/19/14 01:08	1
Phenol	ND		5.0	0.58	ug/L		09/15/14 14:06	09/19/14 01:08	1
Pyrene	ND		5.0	0.16	ug/L		09/15/14 14:06	09/19/14 01:08	1

TestAmerica Buffalo

Client Sample Results

Client: Honeywell International Inc

TestAmerica Job ID: 480-66924-1

Project/Site: 30130 - Alltift OM Phase / Semi Annual

Client Sample ID: Alltift Collection Sump - Grab 1-4

Lab Sample ID: 480-66924-2

Matrix: Water

Date Collected: 09/09/14 13:30

Date Received: 09/09/14 14:05

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	60		21 - 122	09/15/14 14:06	09/19/14 01:08	1
2-Fluorobiphenyl	52		30 - 110	09/15/14 14:06	09/19/14 01:08	1
2-Fluorophenol	49		31 - 104	09/15/14 14:06	09/19/14 01:08	1
Nitrobenzene-d5	51		32 - 112	09/15/14 14:06	09/19/14 01:08	1
Phenol-d5	54		30 - 117	09/15/14 14:06	09/19/14 01:08	1
Terphenyl-d14	36		21 - 121	09/15/14 14:06	09/19/14 01:08	1

Client Sample Results

Client: Honeywell International Inc

TestAmerica Job ID: 480-66924-1

Project/Site: 30130 - Alltift OM Phase / Semi Annual

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-66924-3

Matrix: Water

Date Collected: 09/09/14 00:00

Date Received: 09/09/14 14:05

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			09/10/14 10:45	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			09/10/14 10:45	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			09/10/14 10:45	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			09/10/14 10:45	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			09/10/14 10:45	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			09/10/14 10:45	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			09/10/14 10:45	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			09/10/14 10:45	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			09/10/14 10:45	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			09/10/14 10:45	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			09/10/14 10:45	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			09/10/14 10:45	1
Acrolein	ND		100	17	ug/L			09/10/14 10:45	1
Acrylonitrile	ND		50	1.9	ug/L			09/10/14 10:45	1
Benzene	ND		5.0	0.60	ug/L			09/10/14 10:45	1
Bromoform	ND		5.0	0.47	ug/L			09/10/14 10:45	1
Bromomethane	ND		5.0	1.2	ug/L			09/10/14 10:45	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			09/10/14 10:45	1
Chlorobenzene	ND		5.0	0.48	ug/L			09/10/14 10:45	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			09/10/14 10:45	1
Chloroethane	ND		5.0	0.87	ug/L			09/10/14 10:45	1
Chloroform	ND		5.0	0.54	ug/L			09/10/14 10:45	1
Chloromethane	ND		5.0	0.64	ug/L			09/10/14 10:45	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			09/10/14 10:45	1
Dichlorobromomethane	ND		5.0	0.54	ug/L			09/10/14 10:45	1
Ethylbenzene	ND		5.0	0.46	ug/L			09/10/14 10:45	1
Methylene Chloride	ND		5.0	0.81	ug/L			09/10/14 10:45	1
Tetrachloroethene	ND		5.0	0.34	ug/L			09/10/14 10:45	1
Toluene	ND		5.0	0.45	ug/L			09/10/14 10:45	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			09/10/14 10:45	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			09/10/14 10:45	1
Trichloroethene	ND		5.0	0.60	ug/L			09/10/14 10:45	1
Vinyl chloride	ND		5.0	0.75	ug/L			09/10/14 10:45	1

Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		72 - 130		09/10/14 10:45	1
4-Bromofluorobenzene (Surr)	100		69 - 121		09/10/14 10:45	1
Toluene-d8 (Surr)	98		70 - 123		09/10/14 10:45	1

TestAmerica Buffalo

Surrogate Summary

Client: Honeywell International Inc
 Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-66924-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		12DCE (72-130)	BFB (69-121)	TOL (70-123)
480-66924-2	Alltift Collection Sump - Grab 1-4	115	100	98
480-66924-2 MS	Alltift Collection Sump - Grab 1-4	116	102	99
480-66924-2 MSD	Alltift Collection Sump - Grab 1-4	107	102	99
480-66924-3	TRIP BLANK	117	100	98
LCS 480-201524/13	Lab Control Sample	106	100	101
MB 480-201524/15	Method Blank	112	98	103

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (21-122)	FBP (30-110)	2FP (31-104)	NBZ (32-112)	PHL (30-117)	TPH (21-121)
480-66924-2	Alltift Collection Sump - Grab 1-4	60	52	49	51	54	36
LCS 180-118075/2-A	Lab Control Sample	61	58	51	55	60	66
LCSD 180-118075/3-A	Lab Control Sample Dup	66	56	52	54	58	68
MB 180-118075/1-A	Method Blank	51	59	62	60	60	69

Surrogate Legend

TBP = 2,4,6-Tribromophenol

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol

NBZ = Nitrobenzene-d5

PHL = Phenol-d5

TPH = Terphenyl-d14

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-66924-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-201524/15

Matrix: Water

Analysis Batch: 201524

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
1,1,1-Trichloroethane	ND				5.0	0.39	ug/L			09/10/14 01:08	1
1,1,2,2-Tetrachloroethane	ND				5.0	0.26	ug/L			09/10/14 01:08	1
1,1,2-Trichloroethane	ND				5.0	0.48	ug/L			09/10/14 01:08	1
1,1-Dichloroethane	ND				5.0	0.59	ug/L			09/10/14 01:08	1
1,1-Dichloroethene	ND				5.0	0.85	ug/L			09/10/14 01:08	1
1,2-Dichlorobenzene	ND				5.0	0.44	ug/L			09/10/14 01:08	1
1,2-Dichloroethane	ND				5.0	0.60	ug/L			09/10/14 01:08	1
1,2-Dichloroethene, Total	ND				10	3.2	ug/L			09/10/14 01:08	1
1,2-Dichloropropane	ND				5.0	0.61	ug/L			09/10/14 01:08	1
1,3-Dichlorobenzene	ND				5.0	0.54	ug/L			09/10/14 01:08	1
1,4-Dichlorobenzene	ND				5.0	0.51	ug/L			09/10/14 01:08	1
2-Chloroethyl vinyl ether	ND				25	1.9	ug/L			09/10/14 01:08	1
Acrolein	ND				100	17	ug/L			09/10/14 01:08	1
Acrylonitrile	ND				50	1.9	ug/L			09/10/14 01:08	1
Benzene	ND				5.0	0.60	ug/L			09/10/14 01:08	1
Bromoform	ND				5.0	0.47	ug/L			09/10/14 01:08	1
Bromomethane	ND				5.0	1.2	ug/L			09/10/14 01:08	1
Carbon tetrachloride	ND				5.0	0.51	ug/L			09/10/14 01:08	1
Chlorobenzene	ND				5.0	0.48	ug/L			09/10/14 01:08	1
Chlorodibromomethane	ND				5.0	0.41	ug/L			09/10/14 01:08	1
Chloroethane	ND				5.0	0.87	ug/L			09/10/14 01:08	1
Chloroform	ND				5.0	0.54	ug/L			09/10/14 01:08	1
Chloromethane	ND				5.0	0.64	ug/L			09/10/14 01:08	1
cis-1,3-Dichloropropene	ND				5.0	0.33	ug/L			09/10/14 01:08	1
Dichlorobromomethane	ND				5.0	0.54	ug/L			09/10/14 01:08	1
Ethylbenzene	ND				5.0	0.46	ug/L			09/10/14 01:08	1
Methylene Chloride	ND				5.0	0.81	ug/L			09/10/14 01:08	1
Tetrachloroethene	ND				5.0	0.34	ug/L			09/10/14 01:08	1
Toluene	ND				5.0	0.45	ug/L			09/10/14 01:08	1
trans-1,2-Dichloroethene	ND				5.0	0.59	ug/L			09/10/14 01:08	1
trans-1,3-Dichloropropene	ND				5.0	0.44	ug/L			09/10/14 01:08	1
Trichloroethene	ND				5.0	0.60	ug/L			09/10/14 01:08	1
Vinyl chloride	ND				5.0	0.75	ug/L			09/10/14 01:08	1
Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
	%Recovery	Qualifier									
1,2-Dichloroethane-d4 (Surr)	112		72 - 130								
4-Bromofluorobenzene (Surr)	98		69 - 121								
Toluene-d8 (Surr)	103		70 - 123								

Lab Sample ID: LCS 480-201524/13

Matrix: Water

Analysis Batch: 201524

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

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits	Prepared	Analyzed	Dil Fac
	Added	Result	Qualifier							
1,1,1-Trichloroethane	20.0	18.4		ug/L		92	52 - 162			
1,1,2,2-Tetrachloroethane	20.0	18.1		ug/L		91	46 - 157			
1,1,2-Trichloroethane	20.0	19.2		ug/L		96	52 - 150			
1,1-Dichloroethane	20.0	20.1		ug/L		101	59 - 155			

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
 Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-66924-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-201524/13

Matrix: Water

Analysis Batch: 201524

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

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec.
		Result	Qualifier				
1,1-Dichloroethene	20.0	18.9		ug/L		94	1 - 234
1,2-Dichlorobenzene	20.0	17.7		ug/L		88	18 - 190
1,2-Dichloroethane	20.0	18.8		ug/L		94	49 - 155
1,2-Dichloropropane	20.0	19.4		ug/L		97	1 - 210
1,3-Dichlorobenzene	20.0	17.9		ug/L		89	59 - 156
1,4-Dichlorobenzene	20.0	17.8		ug/L		89	18 - 190
2-Chloroethyl vinyl ether	20.0	18.0	J	ug/L		90	1 - 305
Benzene	20.0	19.2		ug/L		96	37 - 151
Bromoform	20.0	16.2		ug/L		81	45 - 169
Bromomethane	20.0	20.7		ug/L		103	1 - 242
Carbon tetrachloride	20.0	18.0		ug/L		90	70 - 140
Chlorobenzene	20.0	18.3		ug/L		92	37 - 160
Chlorodibromomethane	20.0	17.3		ug/L		86	53 - 149
Chloroethane	20.0	19.5		ug/L		98	14 - 230
Chloroform	20.0	19.7		ug/L		98	51 - 138
Chloromethane	20.0	20.0		ug/L		100	1 - 273
cis-1,3-Dichloropropene	20.0	18.2		ug/L		91	1 - 227
Dichlorobromomethane	20.0	18.1		ug/L		91	35 - 155
Ethylbenzene	20.0	18.3		ug/L		91	37 - 162
Methylene Chloride	20.0	18.9		ug/L		94	1 - 221
Tetrachloroethene	20.0	17.6		ug/L		88	64 - 148
Toluene	20.0	18.5		ug/L		92	47 - 150
trans-1,2-Dichloroethene	20.0	20.1		ug/L		100	54 - 156
trans-1,3-Dichloropropene	20.0	19.7		ug/L		98	17 - 183
Trichloroethene	20.0	18.6		ug/L		93	71 - 157
Vinyl chloride	20.0	18.1		ug/L		91	1 - 251

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	106		72 - 130
4-Bromofluorobenzene (Surr)	100		69 - 121
Toluene-d8 (Surr)	101		70 - 123

Lab Sample ID: 480-66924-2 MS

Matrix: Water

Analysis Batch: 201524

Client Sample ID: Alltift Collection Sump - Grab 1-4
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
1,1,1-Trichloroethane	ND		200	178		ug/L		89	52 - 162
1,1,2,2-Tetrachloroethane	ND		200	167		ug/L		84	46 - 157
1,1,2-Trichloroethane	ND		200	168		ug/L		84	52 - 150
1,1-Dichloroethane	ND		200	185		ug/L		92	59 - 155
1,1-Dichloroethene	ND		200	210		ug/L		105	1 - 234
1,2-Dichlorobenzene	ND		200	165		ug/L		82	18 - 190
1,2-Dichloroethane	ND		200	184		ug/L		92	49 - 155
1,2-Dichloropropane	ND		200	168		ug/L		84	1 - 210
1,3-Dichlorobenzene	ND		200	163		ug/L		82	59 - 156
1,4-Dichlorobenzene	ND		200	160		ug/L		80	18 - 190
2-Chloroethyl vinyl ether	ND		200	159	J	ug/L		79	1 - 305

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-66924-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-66924-2 MS

Matrix: Water

Analysis Batch: 201524

Client Sample ID: Alltift Collection Sump - Grab 1-4
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Benzene	ND		200	177		ug/L		89	37 - 151
Bromoform	ND		200	122		ug/L		61	45 - 169
Bromomethane	ND		200	188		ug/L		94	1 - 242
Carbon tetrachloride	ND		200	177		ug/L		88	70 - 140
Chlorobenzene	70		200	232		ug/L		81	37 - 160
Chlorodibromomethane	ND		200	143		ug/L		72	53 - 149
Chloroethane	ND		200	194		ug/L		97	14 - 230
Chloroform	ND		200	181		ug/L		91	51 - 138
Chloromethane	ND		200	185		ug/L		92	1 - 273
cis-1,3-Dichloropropene	ND		200	150		ug/L		75	1 - 227
Dichlorobromomethane	ND		200	154		ug/L		77	35 - 155
Ethylbenzene	ND		200	167		ug/L		84	37 - 162
Methylene Chloride	ND		200	175		ug/L		87	1 - 221
Tetrachloroethene	ND		200	168		ug/L		84	64 - 148
Toluene	ND		200	167		ug/L		84	47 - 150
trans-1,2-Dichloroethene	ND		200	193		ug/L		96	54 - 156
trans-1,3-Dichloropropene	ND		200	162		ug/L		81	17 - 183
Trichloroethene	ND		200	171		ug/L		86	71 - 157
Vinyl chloride	9.6	J	200	200		ug/L		95	1 - 251
<hr/>									
Surrogate		MS	MS						
		%Recovery	Qualifier			Limits			
1,2-Dichloroethane-d4 (Surr)		116		72 - 130					
4-Bromofluorobenzene (Surr)		102		69 - 121					
Toluene-d8 (Surr)		99		70 - 123					

Lab Sample ID: 480-66924-2 MSD

Matrix: Water

Analysis Batch: 201524

Client Sample ID: Alltift Collection Sump - Grab 1-4
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
1,1,1-Trichloroethane	ND		200	201		ug/L		100	52 - 162	12	15
1,1,2,2-Tetrachloroethane	ND		200	195		ug/L		98	46 - 157	15	15
1,1,2-Trichloroethane	ND		200	193		ug/L		97	52 - 150	14	15
1,1-Dichloroethane	ND		200	204		ug/L		102	59 - 155	10	15
1,1-Dichloroethene	ND		200	212		ug/L		106	1 - 234	1	15
1,2-Dichlorobenzene	ND		200	189		ug/L		95	18 - 190	14	15
1,2-Dichloroethane	ND		200	196		ug/L		98	49 - 155	6	15
1,2-Dichloropropane	ND		200	187		ug/L		94	1 - 210	11	15
1,3-Dichlorobenzene	ND		200	186		ug/L		93	59 - 156	13	15
1,4-Dichlorobenzene	ND		200	185		ug/L		93	18 - 190	15	15
2-Chloroethyl vinyl ether	ND		200	173	J	ug/L		86	1 - 305	8	15
Benzene	ND		200	199		ug/L		100	37 - 151	12	15
Bromoform	ND		200	154	F2	ug/L		77	45 - 169	23	15
Bromomethane	ND		200	187		ug/L		93	1 - 242	0	15
Carbon tetrachloride	ND		200	196		ug/L		98	70 - 140	10	15
Chlorobenzene	70		200	258		ug/L		94	37 - 160	11	15
Chlorodibromomethane	ND		200	166		ug/L		83	53 - 149	15	15
Chloroethane	ND		200	190		ug/L		95	14 - 230	2	15

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
 Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-66924-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-66924-2 MSD

Matrix: Water

Analysis Batch: 201524

Client Sample ID: Alltift Collection Sump - Grab 1-4
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
Chloroform	ND		200	204		ug/L		102	51 - 138	12	15
Chloromethane	ND		200	187		ug/L		93	1 - 273	1	15
cis-1,3-Dichloropropene	ND		200	170		ug/L		85	1 - 227	13	15
Dichlorobromomethane	ND		200	176		ug/L		88	35 - 155	13	15
Ethylbenzene	ND		200	191		ug/L		96	37 - 162	14	15
Methylene Chloride	ND		200	197		ug/L		98	1 - 221	12	15
Tetrachloroethene	ND		200	190		ug/L		95	64 - 148	12	15
Toluene	ND		200	184		ug/L		92	47 - 150	10	15
trans-1,2-Dichloroethene	ND		200	204		ug/L		102	54 - 156	6	15
trans-1,3-Dichloropropene	ND		200	176		ug/L		88	17 - 183	8	15
Trichloroethene	ND		200	190		ug/L		95	71 - 157	11	15
Vinyl chloride	9.6	J	200	194		ug/L		92	1 - 251	3	15
Surrogate		MSD	MSD								
		%Recovery	Qualifier			Limits					
1,2-Dichloroethane-d4 (Surr)		107		72 - 130							
4-Bromofluorobenzene (Surr)		102		69 - 121							
Toluene-d8 (Surr)		99		70 - 123							

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-118075/1-A

Matrix: Water

Analysis Batch: 118471

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 118075

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trichlorobenzene	ND		10	0.71	ug/L		09/15/14 10:35	09/18/14 23:17	1
1,2-Dichlorobenzene	ND		10	0.75	ug/L		09/15/14 10:35	09/18/14 23:17	1
1,2-Diphenylhydrazine	ND		10	0.66	ug/L		09/15/14 10:35	09/18/14 23:17	1
1,3-Dichlorobenzene	ND		10	0.74	ug/L		09/15/14 10:35	09/18/14 23:17	1
1,4-Dichlorobenzene	ND		10	0.74	ug/L		09/15/14 10:35	09/18/14 23:17	1
2,4,6-Trichlorophenol	ND		5.0	1.7	ug/L		09/15/14 10:35	09/18/14 23:17	1
2,4-Dichlorophenol	ND		5.0	0.33	ug/L		09/15/14 10:35	09/18/14 23:17	1
2,4-Dimethylphenol	ND		5.0	0.85	ug/L		09/15/14 10:35	09/18/14 23:17	1
2,4-Dinitrophenol	ND		10	6.1	ug/L		09/15/14 10:35	09/18/14 23:17	1
2,4-Dinitrotoluene	ND		5.0	0.54	ug/L		09/15/14 10:35	09/18/14 23:17	1
2,6-Dinitrotoluene	ND		5.0	0.80	ug/L		09/15/14 10:35	09/18/14 23:17	1
2-Chloronaphthalene	ND		5.0	0.15	ug/L		09/15/14 10:35	09/18/14 23:17	1
2-Chlorophenol	ND		5.0	1.7	ug/L		09/15/14 10:35	09/18/14 23:17	1
2-Nitrophenol	ND		5.0	1.7	ug/L		09/15/14 10:35	09/18/14 23:17	1
3,3'-Dichlorobenzidine	ND		5.0	1.1	ug/L		09/15/14 10:35	09/18/14 23:17	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		09/15/14 10:35	09/18/14 23:17	1
4-Bromophenyl phenyl ether	ND		5.0	0.64	ug/L		09/15/14 10:35	09/18/14 23:17	1
4-Chloro-3-methylphenol	ND		5.0	0.75	ug/L		09/15/14 10:35	09/18/14 23:17	1
4-Chloroaniline	ND		5.0	0.89	ug/L		09/15/14 10:35	09/18/14 23:17	1
4-Chlorophenyl phenyl ether	ND		5.0	0.50	ug/L		09/15/14 10:35	09/18/14 23:17	1
4-Nitrophenol	ND		10	6.5	ug/L		09/15/14 10:35	09/18/14 23:17	1
Acenaphthene	ND		5.0	0.14	ug/L		09/15/14 10:35	09/18/14 23:17	1
Acenaphthylene	ND		5.0	0.15	ug/L		09/15/14 10:35	09/18/14 23:17	1

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc

TestAmerica Job ID: 480-66924-1

Project/Site: 30130 - Alltift OM Phase / Semi Annual

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 180-118075/1-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 118471

Prep Batch: 118075

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		5.0	0.15	ug/L		09/15/14 10:35	09/18/14 23:17	1
Benzidine	ND		80	35	ug/L		09/15/14 10:35	09/18/14 23:17	1
Benzo[a]anthracene	ND		5.0	0.15	ug/L		09/15/14 10:35	09/18/14 23:17	1
Benzo[a]pyrene	ND		5.0	0.13	ug/L		09/15/14 10:35	09/18/14 23:17	1
Benzo[b]fluoranthene	ND		5.0	0.16	ug/L		09/15/14 10:35	09/18/14 23:17	1
Benzo[g,h,i]perylene	ND		5.0	0.15	ug/L		09/15/14 10:35	09/18/14 23:17	1
Benzo[k]fluoranthene	ND		5.0	0.55	ug/L		09/15/14 10:35	09/18/14 23:17	1
bis (2-chloroisopropyl) ether	ND		5.0	0.20	ug/L		09/15/14 10:35	09/18/14 23:17	1
Bis(2-chloroethoxy)methane	ND		5.0	0.58	ug/L		09/15/14 10:35	09/18/14 23:17	1
Bis(2-chloroethyl)ether	ND		5.0	0.25	ug/L		09/15/14 10:35	09/18/14 23:17	1
Bis(2-ethylhexyl) phthalate	ND		13	13	ug/L		09/15/14 10:35	09/18/14 23:17	1
Butyl benzyl phthalate	ND		5.0	1.4	ug/L		09/15/14 10:35	09/18/14 23:17	1
Chrysene	ND		5.0	0.14	ug/L		09/15/14 10:35	09/18/14 23:17	1
Dibenz(a,h)anthracene	ND		5.0	0.16	ug/L		09/15/14 10:35	09/18/14 23:17	1
Diethyl phthalate	ND		5.0	1.5	ug/L		09/15/14 10:35	09/18/14 23:17	1
Dimethyl phthalate	ND		5.0	0.77	ug/L		09/15/14 10:35	09/18/14 23:17	1
Di-n-butyl phthalate	ND		5.0	1.2	ug/L		09/15/14 10:35	09/18/14 23:17	1
Di-n-octyl phthalate	ND		5.0	2.1	ug/L		09/15/14 10:35	09/18/14 23:17	1
Fluoranthene	ND		5.0	0.16	ug/L		09/15/14 10:35	09/18/14 23:17	1
Fluorene	ND		5.0	0.22	ug/L		09/15/14 10:35	09/18/14 23:17	1
Hexachlorobenzene	ND		5.0	0.18	ug/L		09/15/14 10:35	09/18/14 23:17	1
Hexachlorobutadiene	ND		5.0	0.17	ug/L		09/15/14 10:35	09/18/14 23:17	1
Hexachlorocyclopentadiene	ND		5.0	0.52	ug/L		09/15/14 10:35	09/18/14 23:17	1
Hexachloroethane	ND		5.0	0.63	ug/L		09/15/14 10:35	09/18/14 23:17	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.20	ug/L		09/15/14 10:35	09/18/14 23:17	1
Isophorone	ND		5.0	0.64	ug/L		09/15/14 10:35	09/18/14 23:17	1
Naphthalene	ND		5.0	0.14	ug/L		09/15/14 10:35	09/18/14 23:17	1
Nitrobenzene	ND		5.0	0.84	ug/L		09/15/14 10:35	09/18/14 23:17	1
N-Nitrosodimethylamine	ND		10	0.74	ug/L		09/15/14 10:35	09/18/14 23:17	1
N-Nitrosodi-n-propylamine	ND		5.0	0.31	ug/L		09/15/14 10:35	09/18/14 23:17	1
N-Nitrosodiphenylamine	ND		5.0	0.85	ug/L		09/15/14 10:35	09/18/14 23:17	1
Pentachlorophenol	ND		10	0.66	ug/L		09/15/14 10:35	09/18/14 23:17	1
Phenanthrene	ND		5.0	0.43	ug/L		09/15/14 10:35	09/18/14 23:17	1
Phenol	ND		5.0	0.58	ug/L		09/15/14 10:35	09/18/14 23:17	1
Pyrene	ND		5.0	0.16	ug/L		09/15/14 10:35	09/18/14 23:17	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	51		21 - 122		09/15/14 10:35	09/18/14 23:17
2-Fluorobiphenyl	59		30 - 110		09/15/14 10:35	09/18/14 23:17
2-Fluorophenol	62		31 - 104		09/15/14 10:35	09/18/14 23:17
Nitrobenzene-d5	60		32 - 112		09/15/14 10:35	09/18/14 23:17
Phenol-d5	60		30 - 117		09/15/14 10:35	09/18/14 23:17
Terphenyl-d14	69		21 - 121		09/15/14 10:35	09/18/14 23:17

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc

TestAmerica Job ID: 480-66924-1

Project/Site: 30130 - Alltift OM Phase / Semi Annual

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-118075/2-A

Matrix: Water

Analysis Batch: 118471

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 118075

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,2,4-Trichlorobenzene	100	59.8		ug/L	60	44 - 142	
1,2-Dichlorobenzene	100	54.6		ug/L	55	32 - 129	
1,3-Dichlorobenzene	100	53.3		ug/L	53	32 - 102	
1,4-Dichlorobenzene	100	56.5		ug/L	56	28 - 110	
2,4,6-Trichlorophenol	100	68.1		ug/L	68	37 - 144	
2,4-Dichlorophenol	100	64.7		ug/L	65	39 - 135	
2,4-Dimethylphenol	100	63.6		ug/L	64	32 - 119	
2,4-Dinitrophenol	200	68.2		ug/L	34	10 - 150	
2,4-Dinitrotoluene	100	73.8		ug/L	74	39 - 139	
2,6-Dinitrotoluene	100	74.6		ug/L	75	50 - 158	
2-Chloronaphthalene	100	56.8	*	ug/L	57	60 - 118	
2-Chlorophenol	100	59.0		ug/L	59	23 - 124	
2-Nitrophenol	100	62.3		ug/L	62	29 - 132	
3,3'-Dichlorobenzidine	100	75.0		ug/L	75	10 - 150	
4,6-Dinitro-2-methylphenol	200	108		ug/L	54	10 - 150	
4-Bromophenyl phenyl ether	100	72.0		ug/L	72	53 - 127	
4-Chloro-3-methylphenol	100	67.9		ug/L	68	22 - 134	
4-Chlorophenyl phenyl ether	100	64.9		ug/L	65	28 - 125	
4-Nitrophenol	200	151		ug/L	75	19 - 132	
Acenaphthene	100	64.1		ug/L	64	47 - 145	
Acenaphthylene	100	65.7		ug/L	66	33 - 145	
Anthracene	100	70.2		ug/L	70	27 - 133	
Benzo[a]anthracene	100	69.7		ug/L	70	33 - 143	
Benzo[a]pyrene	100	67.0		ug/L	67	34 - 122	
Benzo[b]fluoranthene	100	59.6		ug/L	60	24 - 159	
Benzo[g,h,i]perylene	100	80.6		ug/L	81	10 - 149	
Benzo[k]fluoranthene	100	65.5		ug/L	65	28 - 126	
bis (2-chloroisopropyl) ether	100	57.1		ug/L	57	21 - 115	
Bis(2-chloroethoxy)methane	100	61.9		ug/L	62	28 - 115	
Bis(2-chloroethyl)ether	100	58.3		ug/L	58	30 - 140	
Bis(2-ethylhexyl) phthalate	100	79.3		ug/L	79	21 - 126	
Butyl benzyl phthalate	100	81.1		ug/L	81	25 - 119	
Chrysene	100	69.4		ug/L	69	32 - 120	
Dibenz(a,h)anthracene	100	73.7		ug/L	74	11 - 146	
Diethyl phthalate	100	74.4		ug/L	74	10 - 114	
Dimethyl phthalate	100	72.0		ug/L	72	13 - 112	
Di-n-butyl phthalate	100	78.0		ug/L	78	36 - 118	
Di-n-octyl phthalate	100	75.4		ug/L	75	18 - 125	
Fluoranthene	100	74.4		ug/L	74	26 - 137	
Fluorene	100	69.9		ug/L	70	59 - 121	
Hexachlorobenzene	100	68.2		ug/L	68	28 - 128	
Hexachlorocyclopentadiene	100	50.8		ug/L	51	10 - 138	
Hexachloroethane	100	53.2		ug/L	53	40 - 113	
Indeno[1,2,3-cd]pyrene	100	74.3		ug/L	74	10 - 150	
Isophorone	100	68.5		ug/L	68	21 - 122	
Naphthalene	100	59.2		ug/L	59	21 - 133	
Nitrobenzene	100	61.7		ug/L	62	35 - 150	
N-Nitrosodi-n-propylamine	100	67.8		ug/L	68	30 - 115	

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc

TestAmerica Job ID: 480-66924-1

Project/Site: 30130 - Alltift OM Phase / Semi Annual

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-118075/2-A

Matrix: Water

Analysis Batch: 118471

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 118075

Analyte	Spike Added	LCS		Unit	D	%Rec.	Limits
		Result	Qualifier				
N-Nitrosodiphenylamine	100	70.5		ug/L	71	25 - 118	
Pentachlorophenol	200	138		ug/L	69	14 - 140	
Phenanthrene	100	69.1		ug/L	69	54 - 120	
Phenol	100	59.7		ug/L	60	31 - 112	
Pyrene	100	66.6		ug/L	67	52 - 115	

Surrogate	LCS %Recovery	LCS		Limits
		Qualifier		
2,4,6-Tribromophenol	61		21 - 122	
2-Fluorobiphenyl	58		30 - 110	
2-Fluorophenol	51		31 - 104	
Nitrobenzene-d5	55		32 - 112	
Phenol-d5	60		30 - 117	
Terphenyl-d14	66		21 - 121	

Lab Sample ID: LCSD 180-118075/3-A

Matrix: Water

Analysis Batch: 118471

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 118075

Analyte	Spike Added	LCSD		Unit	D	%Rec.	Limits	RPD	Limit
		Result	Qualifier						
1,2,4-Trichlorobenzene	100	58.2		ug/L	58	44 - 142		3	35
1,2-Dichlorobenzene	100	54.3		ug/L	54	32 - 129		1	20
1,3-Dichlorobenzene	100	53.5		ug/L	53	32 - 102		0	35
1,4-Dichlorobenzene	100	53.7		ug/L	54	28 - 110		5	35
2,4,6-Trichlorophenol	100	68.6		ug/L	69	37 - 144		1	27
2,4-Dichlorophenol	100	62.9		ug/L	63	39 - 135		3	35
2,4-Dimethylphenol	100	61.6		ug/L	62	32 - 119		3	20
2,4-Dinitrophenol	200	72.3		ug/L	36	10 - 150		6	35
2,4-Dinitrotoluene	100	75.7		ug/L	76	39 - 139		3	32
2,6-Dinitrotoluene	100	72.4		ug/L	72	50 - 158		3	20
2-Chloronaphthalene	100	55.3 *		ug/L	55	60 - 118		3	20
2-Chlorophenol	100	57.5		ug/L	57	23 - 124		3	35
2-Nitrophenol	100	60.3		ug/L	60	29 - 132		3	32
3,3'-Dichlorobenzidine	100	76.9		ug/L	77	10 - 150		3	35
4,6-Dinitro-2-methylphenol	200	120		ug/L	60	10 - 150		10	35
4-Bromophenyl phenyl ether	100	69.2		ug/L	69	53 - 127		4	20
4-Chloro-3-methylphenol	100	67.8		ug/L	68	22 - 134		0	35
4-Chlorophenyl phenyl ether	100	65.6		ug/L	66	28 - 125		1	27
4-Nitrophenol	200	152		ug/L	76	19 - 132		1	34
Acenaphthene	100	64.4		ug/L	64	47 - 145		0	35
Acenaphthylene	100	63.2		ug/L	63	33 - 145		4	23
Anthracene	100	70.2		ug/L	70	27 - 133		0	22
Benzo[a]anthracene	100	70.1		ug/L	70	33 - 143		1	23
Benzo[a]pyrene	100	67.9		ug/L	68	34 - 122		1	31
Benzo[b]fluoranthene	100	62.5		ug/L	62	24 - 159		5	28
Benzo[g,h,i]perylene	100	81.5		ug/L	81	10 - 149		1	35
Benzo[k]fluoranthene	100	67.0		ug/L	67	28 - 126		2	31
bis (2-chloroisopropyl) ether	100	56.3		ug/L	56	21 - 115		1	27
Bis(2-chloroethoxy)methane	100	61.1		ug/L	61	28 - 115		1	30

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-66924-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 180-118075/3-A

Matrix: Water

Analysis Batch: 118471

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 118075

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	RPD	Limit
	Added	Result	Qualifier							
Bis(2-chloroethyl)ether	100	56.5		ug/L		57	30 - 140	3	30	
Bis(2-ethylhexyl) phthalate	100	80.6		ug/L		81	21 - 126	2	31	
Butyl benzyl phthalate	100	79.9		ug/L		80	25 - 119	1	35	
Chrysene	100	69.7		ug/L		70	32 - 120	1	31	
Dibenz(a,h)anthracene	100	75.5		ug/L		75	11 - 146	2	35	
Diethyl phthalate	100	74.6		ug/L		75	10 - 114	0	24	
Dimethyl phthalate	100	72.2		ug/L		72	13 - 112	0	22	
Di-n-butyl phthalate	100	76.1		ug/L		76	36 - 118	3	24	
Di-n-octyl phthalate	100	74.2		ug/L		74	18 - 125	2	29	
Fluoranthene	100	74.2		ug/L		74	26 - 137	0	23	
Fluorene	100	70.0		ug/L		70	59 - 121	0	20	
Hexachlorobenzene	100	69.8		ug/L		70	28 - 128	2	22	
Hexachlorocyclopentadiene	100	50.1		ug/L		50	10 - 138	2	35	
Hexachloroethane	100	52.1		ug/L		52	40 - 113	2	33	
Indeno[1,2,3-cd]pyrene	100	75.7		ug/L		76	10 - 150	2	35	
Isophorone	100	66.4		ug/L		66	21 - 122	3	35	
Naphthalene	100	58.0		ug/L		58	21 - 133	2	23	
Nitrobenzene	100	58.0		ug/L		58	35 - 150	6	35	
N-Nitrosodi-n-propylamine	100	66.0		ug/L		66	30 - 115	3	36	
N-Nitrosodiphenylamine	100	70.0		ug/L		70	25 - 118	1	35	
Pentachlorophenol	200	138		ug/L		69	14 - 140	0	35	
Phenanthrene	100	68.1		ug/L		68	54 - 120	1	20	
Phenol	100	57.8		ug/L		58	31 - 112	3	35	
Pyrene	100	68.9		ug/L		69	52 - 115	3	31	

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol	66		21 - 122
2-Fluorobiphenyl	56		30 - 110
2-Fluorophenol	52		31 - 104
Nitrobenzene-d5	54		32 - 112
Phenol-d5	58		30 - 117
Terphenyl-d14	68		21 - 121

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-201609/1-A

Matrix: Water

Analysis Batch: 202449

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 201609

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	ND		0.010	0.0056	mg/L		09/10/14 10:54	09/12/14 18:00	1
Barium	ND		0.0020	0.00070	mg/L		09/10/14 10:54	09/12/14 18:00	1
Chromium	ND		0.0040	0.0010	mg/L		09/10/14 10:54	09/12/14 18:00	1
Copper	ND		0.010	0.0016	mg/L		09/10/14 10:54	09/12/14 18:00	1
Nickel	ND		0.010	0.0013	mg/L		09/10/14 10:54	09/12/14 18:00	1
Zinc	ND		0.010	0.0015	mg/L		09/10/14 10:54	09/12/14 18:00	1

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc

TestAmerica Job ID: 480-66924-1

Project/Site: 30130 - Alltift OM Phase / Semi Annual

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-201609/2-A

Matrix: Water

Analysis Batch: 202449

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 201609

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
	Added	Result	Qualifier				
Arsenic	0.200	0.196		mg/L	98	85 - 115	
Barium	0.200	0.197		mg/L	99	85 - 115	
Chromium	0.200	0.194		mg/L	97	85 - 115	
Copper	0.200	0.206		mg/L	103	85 - 115	
Nickel	0.200	0.187		mg/L	94	85 - 115	
Zinc	0.200	0.201		mg/L	101	85 - 115	

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-201862/1

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 201862

Analyte	MB	MB	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
Total Suspended Solids	ND				4.0	4.0	mg/L			09/11/14 09:35	1

Lab Sample ID: LCS 480-201862/2

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 201862

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
	Added	Result	Qualifier				
Total Suspended Solids	271	263.2		mg/L	97	88 - 110	

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-201570/1

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 201570

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
	Added	Result	Qualifier				
pH	7.00	6.950		SU		99	99 - 101

Lab Sample ID: LCS 480-201570/23

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 201570

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
	Added	Result	Qualifier				
pH	7.00	6.990		SU		100	99 - 101

Method: SM 4500 P E - Phosphorus

Lab Sample ID: MB 480-202916/27

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 202916

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
Phosphorus, Total	ND				0.010	0.0050	mg/L			09/17/14 09:27	1

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
 Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-66924-1

Method: SM 4500 P E - Phosphorus (Continued)

Lab Sample ID: MB 480-202916/75

Matrix: Water

Analysis Batch: 202916

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phosphorus, Total	ND		0.010	0.0050	mg/L			09/17/14 09:27	1

Lab Sample ID: LCS 480-202916/28

Matrix: Water

Analysis Batch: 202916

Analyte	Spike	LCS	LCS	Unit	D	%Rec.	Limits
	Added	Result	Qualifier				
Phosphorus, Total	0.200	0.214		mg/L		107	90 - 110

Lab Sample ID: LCS 480-202916/76

Matrix: Water

Analysis Batch: 202916

Analyte	Spike	LCS	LCS	Unit	D	%Rec.	Limits
	Added	Result	Qualifier				
Phosphorus, Total	0.200	0.192		mg/L		96	90 - 110

QC Association Summary

Client: Honeywell International Inc
Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-66924-1

GC/MS VOA

Analysis Batch: 201524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-66924-2	Alltift Collection Sump - Grab 1-4	Total/NA	Water	624	
480-66924-2 MS	Alltift Collection Sump - Grab 1-4	Total/NA	Water	624	
480-66924-2 MSD	Alltift Collection Sump - Grab 1-4	Total/NA	Water	624	
480-66924-3	TRIP BLANK	Total/NA	Water	624	
LCS 480-201524/13	Lab Control Sample	Total/NA	Water	624	
MB 480-201524/15	Method Blank	Total/NA	Water	624	

GC/MS Semi VOA

Prep Batch: 118075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-66924-2	Alltift Collection Sump - Grab 1-4	Total/NA	Water	625	
LCS 180-118075/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 180-118075/3-A	Lab Control Sample Dup	Total/NA	Water	625	
MB 180-118075/1-A	Method Blank	Total/NA	Water	625	

Analysis Batch: 118471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-66924-2	Alltift Collection Sump - Grab 1-4	Total/NA	Water	625	
LCS 180-118075/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 180-118075/3-A	Lab Control Sample Dup	Total/NA	Water	625	
MB 180-118075/1-A	Method Blank	Total/NA	Water	625	

Metals

Prep Batch: 201609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-66924-1	Alltift Collection Sump - Comp	Total/NA	Water	200.7	
LCS 480-201609/2-A	Lab Control Sample	Total/NA	Water	200.7	
MB 480-201609/1-A	Method Blank	Total/NA	Water	200.7	

Analysis Batch: 202449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-66924-1	Alltift Collection Sump - Comp	Total/NA	Water	200.7 Rev 4.4	
LCS 480-201609/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	
MB 480-201609/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	

General Chemistry

Analysis Batch: 201570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-66924-1	Alltift Collection Sump - Comp	Total/NA	Water	SM 4500 H+ B	
LCS 480-201570/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
LCS 480-201570/23	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 201862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-66924-1	Alltift Collection Sump - Comp	Total/NA	Water	SM 2540D	
LCS 480-201862/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 480-201862/1	Method Blank	Total/NA	Water	SM 2540D	

TestAmerica Buffalo

QC Association Summary

Client: Honeywell International Inc

Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-66924-1

General Chemistry (Continued)

Analysis Batch: 202916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-66924-1	Alltift Collection Sump - Comp	Total/NA	Water	SM 4500 P E	5
LCS 480-202916/28	Lab Control Sample	Total/NA	Water	SM 4500 P E	6
LCS 480-202916/76	Lab Control Sample	Total/NA	Water	SM 4500 P E	7
MB 480-202916/27	Method Blank	Total/NA	Water	SM 4500 P E	8
MB 480-202916/75	Method Blank	Total/NA	Water	SM 4500 P E	9

Lab Chronicle

Client: Honeywell International Inc
Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-66924-1

Client Sample ID: Alltift Collection Sump - Comp

Lab Sample ID: 480-66924-1

Matrix: Water

Date Collected: 09/09/14 13:45
Date Received: 09/09/14 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.7			201609	09/10/14 10:54	SLB	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	202449	09/12/14 18:41	LMH	TAL BUF
Total/NA	Analysis	SM 2540D		1	201862	09/11/14 09:52	KJ1	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	201570	09/10/14 01:36	VAJ	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	202916	09/17/14 09:27	KMF	TAL BUF

Client Sample ID: Alltift Collection Sump - Grab 1-4

Lab Sample ID: 480-66924-2

Matrix: Water

Date Collected: 09/09/14 13:30
Date Received: 09/09/14 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		10	201524	09/10/14 10:20	NMD1	TAL BUF
Total/NA	Prep	625			118075	09/15/14 14:06	BJT	TAL PIT
Total/NA	Analysis	625		1	118471	09/19/14 01:08	VVP	TAL PIT

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-66924-3

Matrix: Water

Date Collected: 09/09/14 00:00
Date Received: 09/09/14 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	201524	09/10/14 10:45	NMD1	TAL BUF

Laboratory References:

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

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

TestAmerica Buffalo

Certification Summary

Client: Honeywell International Inc

TestAmerica Job ID: 480-66924-1

Project/Site: 30130 - Alltift OM Phase / Semi Annual

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-15

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
624		Water	1,2-Dichloroethene, Total
SM 4500 H+B		Water	pH

Laboratory: TestAmerica Pittsburgh

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-15
California	State Program	9	2891	03-31-15
Connecticut	State Program	1	PH-0688	09-30-14 *
Florida	NELAP	4	E871008	06-30-15
Illinois	NELAP	5	002602	06-30-15
Kansas	NELAP	7	E-10350	01-31-15
Louisiana	NELAP	6	04041	06-30-15
New Hampshire	NELAP	1	203011	04-04-15
New Jersey	NELAP	2	PA005	06-30-15
New York	NELAP	2	11182	03-31-15
North Carolina (WW/SW)	State Program	4	434	12-31-14
Pennsylvania	NELAP	3	02-00416	04-30-15
South Carolina	State Program	4	89014	04-30-15
Texas	NELAP	6	T104704528	03-31-15
US Fish & Wildlife	Federal		LE94312A-1	11-30-14
USDA	Federal		P330-10-00139	05-23-16
Utah	NELAP	8	STLP	05-31-15
Virginia	NELAP	3	460189	09-14-15
West Virginia DEP	State Program	3	142	01-31-15

* Certification renewal pending - certification considered valid.

Method Summary

Client: Honeywell International Inc

Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-66924-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
625	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL PIT
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF
SM 4500 P E	Phosphorus	SM	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.

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

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

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Sample Summary

Client: Honeywell International Inc

Project/Site: 30130 - Alltift OM Phase / Semi Annual

TestAmerica Job ID: 480-66924-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-66924-1	Alltift Collection Sump - Comp	Water	09/09/14 13:45	09/09/14 14:05
480-66924-2	Alltift Collection Sump - Grab 1-4	Water	09/09/14 13:30	09/09/14 14:05
480-66924-3	TRIP BLANK	Water	09/09/14 00:00	09/09/14 14:05

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TestAmerica Buffalo



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480-66924 Chain of Custody

Client Information				Carrier Tracking No(s):	
Client Contact:				COC No: 480-21387-2026.1	
John Formozza				Page: 1 of 1	
Company: Honeywell International Inc				Job #:	
Address: 1563 Willis Ave.				Carrier Tracking No(s):	
City: Syracuse				Lab P#: John Schove	
State, Zip: NY, 13204				E-Mail: john.schove@testamericainc.com	
Phone: 315-468-1663					
Analysis Requested					
Due Date Requested:		Preservation Codes:		Special Instructions/Note:	
TAT Requested (days): 2 Weeks		A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ce J - DI Water K - EDTA L - EDA Other:		M - Hexane N - None O - AshNaO2 P - Na2S04 Q - Na2S03 R - H2S04 S - T - TSP Do Decadecahydride U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Total Number of Contingencies:					
626 - Priority Pollutant List - SVOA - 626					
624 - 5ml - Priority Pollutant List - VOA - 624					
SM4500-H+ - PH					
2640D - Total Suspended Solids					
200-7 - Metals (CP - As, Ba, Cr, Cu, Zn					
4500-P-E - Phosphorus, Total					
4500-MSDS (yes or no)					
Postformed Samples (yes or no)					
Location Identification		Sample Identification		Matrix (water, soil, oil, tissue, air)	
				Preservation Code	
		Sample Date		Sample Time	
				Type (C=comp, G=grab)	
				Preservation Code	
BSA Discharge		GRAB 1		9/14/14 0730 G W N N	
BSA Discharge		GRAB 2		9/14/14 0930 G W N N	
BSA Discharge		GRAB 3		9/14/14 1130 G W N N	
BSA Discharge		GRAB 4		9/14/14 1330 G W N N	
BSA Discharge		COMP 090914		9/14/14 1345 C W N N	
TRIPBLANK		090914-TB		9/14/14 1350 W N N	
TRIB BLANK					
Prior to analysis grab samples to be composited by lab					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Special Instructions/QC Requirements:					
Empty Kit Relinquished by:		Date:		Time:	
Relinquished by: <i>Patrick Higgins</i>		Date/Time: 09/20/2014 0945		Received by: <i>John J. Schove</i>	
Custody Seals intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Date/Time: Company		Received by: Company	
Cooler Temperature(s) & Other Remarks: <i>44.4°C</i> <i>44.4°C</i> <i>44.4°C</i> <i>44.4°C</i> <i>44.4°C</i> <i>44.4°C</i>					

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

BNAI
Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL SERVICES SINCE 1972

Client Information (Sub Contract Lab)		Sampler:	Lab P/M: Schove, John R	Carrier Tracking No(s): COC No: 480-19303.1
Shipping/Receiving Company:	Phone:	E-Mail: john.schove@testamericainc.com	Page:	Page #: 1 of 1
Analysis Requested				
<input checked="" type="checkbox"/> Preservation Codes: A - HCl M - Hexane B - NaOH N - None C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anhydride H - Ascorbic Acid I - Ice J - Di Water K - EDTA L - EDA Other:				
Total Number of control(s): 6				
Sample Identification - Client ID (Lab ID) Alltiff Collection Sump - Grab 14 (480-66924-2)				
Sample Date: 9/9/14 Sample Time: 13:30 Eastern Matrix (Water, Sediment, Oil/Wastewater, En/Tissue, Ash) Preservation Code: X				
Project #: 48004175 SSOW#:				
Special Instructions/Note: 625/625_Prep (M0D) Priority Pollutant List - SVOA - 6 Filtered Sample (Yes or No)				
<input checked="" type="checkbox"/> MAC01 - Composite Samples Prior to Analysis 4-7				
 480-66924 Chain of Custody				
Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)				
Empty Kit Relinquished by: <i>John Schove</i> Date/Time: <i>9-10-14 17:00</i> Received by: <i>John</i> Date/Time: <i>9/10/2014 17:00</i> Method of Shipment: <i>Company</i> Relinquished by: <i>John Schove</i> Date/Time: <i>9/10/2014 17:00</i> Received by: <i>John</i> Date/Time: <i>9/10/2014 17:00</i> Method of Shipment: <i>Company</i> Relinquished by: <i>John Schove</i> Date/Time: <i>9/10/2014 17:00</i> Received by: <i>John</i> Date/Time: <i>9/10/2014 17:00</i> Method of Shipment: <i>Company</i>				
Custody Seal intact Custody Seal No: <i> </i> △ Yes △ No				

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Login Sample Receipt Checklist

Client: Honeywell International Inc

Job Number: 480-66924-1

Login Number: 66924

List Source: TestAmerica Buffalo

List Number: 1

Creator: Stau, Brandon M

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.	True	
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	omi
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	True	

Login Sample Receipt Checklist

Client: Honeywell International Inc

Job Number: 480-66924-1

Login Number: 66924

List Source: TestAmerica Pittsburgh

List Number: 2

List Creation: 09/15/14 01:16 PM

Creator: Kovitch, Christina M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received 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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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: 480-66930-1

Client Project/Site: 30130 - Alltift GW Monitoring

Sampling Event: Honeywell - Alltift GW Monitoring (10)

For:

Honeywell International Inc
101 Columbia Road
Morristown, New Jersey 07962

Attn: Mr. Rich Galloway

Authorized for release by:

10/14/2014 3:49:06 PM

Rebecca Jones, Project Management Assistant I

rebecca.jones@testamericainc.com

Designee for

John Schove, Project Manager II
(716)504-9838

john.schove@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	7
Surrogate Summary	15
QC Sample Results	16
QC Association Summary	20
Lab Chronicle	22
Certification Summary	24
Method Summary	25
Sample Summary	26
Chain of Custody	27
Receipt Checklists	28

Definitions/Glossary

Client: Honeywell International Inc
Project/Site: 30130 - Alltift GW Monitoring

TestAmerica Job ID: 480-66930-1

Qualifiers

GC/MS 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/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
F2	MS/MSD RPD exceeds control limits

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.
B	Compound was found in the blank and sample.

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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

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Case Narrative

Client: Honeywell International Inc
Project/Site: 30130 - Alltift GW Monitoring

TestAmerica Job ID: 480-66930-1

Job ID: 480-66930-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-66930-1

Comments

No additional comments.

Receipt

The samples were received on 9/9/2014 2:05 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.8° C.

GC/MS VOA

Method(s) 8260C: The following sample(s) were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: Sump 4- 090914 (480-66930-6), Sump 4- 090914 (480-66930-6 MS), Sump 4- 090914 (480-66930-6 MSD).

Method(s) 8260C: The following volatiles sample(s) was diluted due to foaming at the time of purging during the original sample analysis: Sump 2- 090914 (480-66930-4), Sump 3- 090914 (480-66930-5), Sump 4- 090914 (480-66930-6), Sump 4- 090914 (480-66930-6 MS), Sump 4- 090914 (480-66930-6 MSD). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The continuing calibration verification (CCV) analyzed in batch 205376 was outside the method criteria for the following analytes: 2,2'oxybis[1-chloropropane} and 2,4-Dinitrophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method(s) 8270D: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) sample(s): MW-2- MS 090914 (480-66930-2 MS), MW-2- MSD 090914 (480-66930-2 MSD). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010C: The method blank for batch 480-201605 contained total manganese above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples FDUP- 090914 (480-66930-1), MW-2- 090914 (480-66930-2) was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Honeywell International Inc
Project/Site: 30130 - Alltift GW Monitoring

TestAmerica Job ID: 480-66930-1

Client Sample ID: FDUP- 090914

Lab Sample ID: 480-66930-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.52	J	1.0	0.41	ug/L	1		8260C	Total/NA
Chlorobenzene	20		1.0	0.75	ug/L	1		8260C	Total/NA
Chromium	0.0043		0.0040	0.0010	mg/L	1		6010C	Total/NA
Iron	36.2		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0042	J	0.0050	0.0030	mg/L	1		6010C	Total/NA
Manganese	2.4	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Antimony	3.4		1.0	0.15	ug/L	1		6020A	Total/NA
Arsenic	32.6		1.0	0.078	ug/L	1		6020A	Total/NA
Cadmium	0.41	J	0.50	0.071	ug/L	1		6020A	Total/NA

Client Sample ID: MW-2- 090914

Lab Sample ID: 480-66930-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.0010	J	0.0040	0.0010	mg/L	1		6010C	Total/NA
Iron	0.10		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0042	J	0.0050	0.0030	mg/L	1		6010C	Total/NA
Manganese	0.15	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Antimony	0.16	J	1.0	0.15	ug/L	1		6020A	Total/NA
Arsenic	1.8		1.0	0.078	ug/L	1		6020A	Total/NA
Cadmium	0.11	J	0.50	0.071	ug/L	1		6020A	Total/NA

Client Sample ID: Sump 1- 090914

Lab Sample ID: 480-66930-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	12		1.0	0.75	ug/L	1		8260C	Total/NA

Client Sample ID: Sump 2- 090914

Lab Sample ID: 480-66930-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	8.0		5.0	2.1	ug/L	5		8260C	Total/NA
Chlorobenzene	140		5.0	3.8	ug/L	5		8260C	Total/NA

Client Sample ID: Sump 3- 090914

Lab Sample ID: 480-66930-5

No Detections.

Client Sample ID: Sump 4- 090914

Lab Sample ID: 480-66930-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	22		4.0	3.0	ug/L	4		8260C	Total/NA

Client Sample ID: TRIP BLANK 090914

Lab Sample ID: 480-66930-7

No Detections.

Client Sample ID: Sump Comp 090914

Lab Sample ID: 480-66930-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4-Chloroaniline	8.1		4.6	0.54	ug/L	1		8270D	Total/NA
Chromium	0.0072		0.0040	0.0010	mg/L	1		6010C	Total/NA
Iron	34.5		0.050	0.019	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Honeywell International Inc
Project/Site: 30130 - Alltift GW Monitoring

TestAmerica Job ID: 480-66930-1

Client Sample ID: Sump Comp 090914 (Continued)

Lab Sample ID: 480-66930-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0045	J	0.0050	0.0030	mg/L	1		6010C	Total/NA
Manganese	2.2	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Antimony	1.5		1.0	0.15	ug/L	1		6020A	Total/NA
Arsenic	32.2		1.0	0.078	ug/L	1		6020A	Total/NA
Cadmium	0.49	J	0.50	0.071	ug/L	1		6020A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltift GW Monitoring

TestAmerica Job ID: 480-66930-1

Client Sample ID: FDUP- 090914

Lab Sample ID: 480-66930-1

Matrix: Water

Date Collected: 09/09/14 09:55

Date Received: 09/09/14 14:05

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/19/14 15:33	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/19/14 15:33	1
Benzene	0.52	J	1.0	0.41	ug/L			09/19/14 15:33	1
Chlorobenzene	20		1.0	0.75	ug/L			09/19/14 15:33	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/19/14 15:33	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/19/14 15:33	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)		105		66 - 137				09/19/14 15:33	1
4-Bromofluorobenzene (Surr)		99		73 - 120				09/19/14 15:33	1
Toluene-d8 (Surr)		102		71 - 126				09/19/14 15:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		4.7	0.55	ug/L		09/10/14 07:56	10/01/14 14:12	1
Naphthalene	ND		4.7	0.71	ug/L		09/10/14 07:56	10/01/14 14:12	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Nitrobenzene-d5		73		46 - 120			09/10/14 07:56	10/01/14 14:12	1
2-Fluorobiphenyl		77		48 - 120			09/10/14 07:56	10/01/14 14:12	1
p-Terphenyl-d14		71		67 - 150			09/10/14 07:56	10/01/14 14:12	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.0043		0.0040	0.0010	mg/L		09/12/14 08:17	09/15/14 12:22	1
Iron	36.2		0.050	0.019	mg/L		09/12/14 08:17	09/15/14 12:22	1
Lead	0.0042	J	0.0050	0.0030	mg/L		09/12/14 08:17	09/15/14 12:22	1
Manganese	2.4	B	0.0030	0.00040	mg/L		09/12/14 08:17	09/15/14 12:22	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.4		1.0	0.15	ug/L		09/10/14 10:10	09/12/14 23:54	1
Arsenic	32.6		1.0	0.078	ug/L		09/10/14 10:10	09/12/14 23:54	1
Cadmium	0.41	J	0.50	0.071	ug/L		09/10/14 10:10	09/12/14 23:54	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/11/14 07:30	09/11/14 12:53	1

TestAmerica Buffalo

Client Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltift GW Monitoring

TestAmerica Job ID: 480-66930-1

Client Sample ID: MW-2- 090914

Lab Sample ID: 480-66930-2

Matrix: Water

Date Collected: 09/09/14 08:25

Date Received: 09/09/14 14:05

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/19/14 15:56	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/19/14 15:56	1
Benzene	ND		1.0	0.41	ug/L			09/19/14 15:56	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/19/14 15:56	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/19/14 15:56	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/19/14 15:56	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)		104		66 - 137				09/19/14 15:56	1
4-Bromofluorobenzene (Surr)		98		73 - 120				09/19/14 15:56	1
Toluene-d8 (Surr)		100		71 - 126				09/19/14 15:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		4.6	0.54	ug/L		09/10/14 07:56	10/01/14 14:40	1
Naphthalene	ND		4.6	0.70	ug/L		09/10/14 07:56	10/01/14 14:40	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Nitrobenzene-d5		66		46 - 120			09/10/14 07:56	10/01/14 14:40	1
2-Fluorobiphenyl		72		48 - 120			09/10/14 07:56	10/01/14 14:40	1
p-Terphenyl-d14		82		67 - 150			09/10/14 07:56	10/01/14 14:40	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.0010	J	0.0040	0.0010	mg/L		09/12/14 08:17	09/15/14 12:32	1
Iron	0.10		0.050	0.019	mg/L		09/12/14 08:17	09/15/14 12:32	1
Lead	0.0042	J	0.0050	0.0030	mg/L		09/12/14 08:17	09/15/14 12:32	1
Manganese	0.15	B	0.0030	0.00040	mg/L		09/12/14 08:17	09/15/14 12:32	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.16	J	1.0	0.15	ug/L		09/10/14 10:10	09/12/14 23:59	1
Arsenic	1.8		1.0	0.078	ug/L		09/10/14 10:10	09/12/14 23:59	1
Cadmium	0.11	J	0.50	0.071	ug/L		09/10/14 10:10	09/12/14 23:59	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/11/14 07:30	09/11/14 12:55	1

TestAmerica Buffalo

Client Sample Results

Client: Honeywell International Inc
 Project/Site: 30130 - Alltift GW Monitoring

TestAmerica Job ID: 480-66930-1

Client Sample ID: Sump 1- 090914

Lab Sample ID: 480-66930-3

Matrix: Water

Date Collected: 09/09/14 11:15

Date Received: 09/09/14 14:05

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/19/14 16:21	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/19/14 16:21	1
Benzene	ND		1.0	0.41	ug/L			09/19/14 16:21	1
Chlorobenzene	12		1.0	0.75	ug/L			09/19/14 16:21	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/19/14 16:21	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/19/14 16:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		66 - 137		09/19/14 16:21	1
4-Bromofluorobenzene (Surr)	98		73 - 120		09/19/14 16:21	1
Toluene-d8 (Surr)	101		71 - 126		09/19/14 16:21	1

Client Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltift GW Monitoring

TestAmerica Job ID: 480-66930-1

Client Sample ID: Sump 2- 090914

Lab Sample ID: 480-66930-4

Matrix: Water

Date Collected: 09/09/14 10:55

Date Received: 09/09/14 14:05

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			09/19/14 16:44	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			09/19/14 16:44	5
Benzene	8.0		5.0	2.1	ug/L			09/19/14 16:44	5
Chlorobenzene	140		5.0	3.8	ug/L			09/19/14 16:44	5
Ethylbenzene	ND		5.0	3.7	ug/L			09/19/14 16:44	5
Xylenes, Total	ND		10	3.3	ug/L			09/19/14 16:44	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		66 - 137		09/19/14 16:44	5
4-Bromofluorobenzene (Surr)	98		73 - 120		09/19/14 16:44	5
Toluene-d8 (Surr)	102		71 - 126		09/19/14 16:44	5

Client Sample Results

Client: Honeywell International Inc
 Project/Site: 30130 - Alltift GW Monitoring

TestAmerica Job ID: 480-66930-1

Client Sample ID: Sump 3- 090914

Lab Sample ID: 480-66930-5

Matrix: Water

Date Collected: 09/09/14 10:35

Date Received: 09/09/14 14:05

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			09/19/14 17:09	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			09/19/14 17:09	4
Benzene	ND		4.0	1.6	ug/L			09/19/14 17:09	4
Chlorobenzene	ND		4.0	3.0	ug/L			09/19/14 17:09	4
Ethylbenzene	ND		4.0	3.0	ug/L			09/19/14 17:09	4
Xylenes, Total	ND		8.0	2.6	ug/L			09/19/14 17:09	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		66 - 137		09/19/14 17:09	4
4-Bromofluorobenzene (Surr)	99		73 - 120		09/19/14 17:09	4
Toluene-d8 (Surr)	101		71 - 126		09/19/14 17:09	4

Client Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltift GW Monitoring

TestAmerica Job ID: 480-66930-1

Client Sample ID: Sump 4- 090914

Lab Sample ID: 480-66930-6

Matrix: Water

Date Collected: 09/09/14 09:50

Date Received: 09/09/14 14:05

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			09/19/14 17:32	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			09/19/14 17:32	4
Benzene	ND		4.0	1.6	ug/L			09/19/14 17:32	4
Chlorobenzene	22		4.0	3.0	ug/L			09/19/14 17:32	4
Ethylbenzene	ND		4.0	3.0	ug/L			09/19/14 17:32	4
Xylenes, Total	ND		8.0	2.6	ug/L			09/19/14 17:32	4

Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		66 - 137		09/19/14 17:32	4
4-Bromofluorobenzene (Surr)	95		73 - 120		09/19/14 17:32	4
Toluene-d8 (Surr)	101		71 - 126		09/19/14 17:32	4

Client Sample Results

Client: Honeywell International Inc
 Project/Site: 30130 - Alltift GW Monitoring

TestAmerica Job ID: 480-66930-1

Client Sample ID: TRIP BLANK 090914

Lab Sample ID: 480-66930-7

Matrix: Water

Date Collected: 09/09/14 11:25

Date Received: 09/09/14 14:05

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/19/14 17:56	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/19/14 17:56	1
Benzene	ND		1.0	0.41	ug/L			09/19/14 17:56	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/19/14 17:56	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/19/14 17:56	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/19/14 17:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		66 - 137		09/19/14 17:56	1
4-Bromofluorobenzene (Surr)	97		73 - 120		09/19/14 17:56	1
Toluene-d8 (Surr)	100		71 - 126		09/19/14 17:56	1

Client Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltift GW Monitoring

TestAmerica Job ID: 480-66930-1

Client Sample ID: Sump Comp 090914

Lab Sample ID: 480-66930-8

Matrix: Water

Date Collected: 09/09/14 11:20

Date Received: 09/09/14 14:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	8.1		4.6	0.54	ug/L		09/10/14 07:56	10/01/14 15:07	1
Naphthalene	ND		4.6	0.70	ug/L		09/10/14 07:56	10/01/14 15:07	1
Surrogate									
Nitrobenzene-d5	76		46 - 120				09/10/14 07:56	10/01/14 15:07	1
2-Fluorobiphenyl	74		48 - 120				09/10/14 07:56	10/01/14 15:07	1
p-Terphenyl-d14	73		67 - 150				09/10/14 07:56	10/01/14 15:07	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.0072		0.0040	0.0010	mg/L		09/12/14 08:17	09/15/14 12:45	1
Iron	34.5		0.050	0.019	mg/L		09/12/14 08:17	09/15/14 12:45	1
Lead	0.0045 J		0.0050	0.0030	mg/L		09/12/14 08:17	09/15/14 12:45	1
Manganese	2.2 B		0.0030	0.00040	mg/L		09/12/14 08:17	09/15/14 12:45	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.5		1.0	0.15	ug/L		09/10/14 10:10	09/13/14 00:45	1
Arsenic	32.2		1.0	0.078	ug/L		09/10/14 10:10	09/13/14 00:45	1
Cadmium	0.49 J		0.50	0.071	ug/L		09/10/14 10:10	09/13/14 00:45	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/11/14 07:30	09/11/14 13:03	1

1

2

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Surrogate Summary

Client: Honeywell International Inc
Project/Site: 30130 - Alltift GW Monitoring

TestAmerica Job ID: 480-66930-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		12DCE (66-137)	BFB (73-120)	TOL (71-126)
480-66930-1	FDUP- 090914	105	99	102
480-66930-2	MW-2- 090914	104	98	100
480-66930-3	Sump 1- 090914	104	98	101
480-66930-4	Sump 2- 090914	105	98	102
480-66930-5	Sump 3- 090914	105	99	101
480-66930-6	Sump 4- 090914	105	95	101
480-66930-6 MS	Sump 4- 090914	103	99	100
480-66930-6 MSD	Sump 4- 090914	102	100	98
480-66930-7	TRIP BLANK 090914	106	97	100
LCS 480-203303/6	Lab Control Sample	102	103	102
MB 480-203303/8	Method Blank	103	100	103

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		NBZ (46-120)	FBP (48-120)	TPH (67-150)
480-66930-1	FDUP- 090914	73	77	71
480-66930-2	MW-2- 090914	66	72	82
480-66930-2 MS	MW-2- 090914	76	81	62 X
480-66930-2 MSD	MW-2- 090914	75	78	58 X
480-66930-8	Sump Comp 090914	76	74	73
LCS 480-201600/2-A	Lab Control Sample	80	86	104
MB 480-201600/1-A	Method Blank	85	89	105

Surrogate Legend

NBZ = Nitrobenzene-d5

FBP = 2-Fluorobiphenyl

TPH = p-Terphenyl-d14

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltift GW Monitoring

TestAmerica Job ID: 480-66930-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-203303/8

Matrix: Water

Analysis Batch: 203303

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/19/14 14:33	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/19/14 14:33	1
Benzene	ND		1.0	0.41	ug/L			09/19/14 14:33	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/19/14 14:33	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/19/14 14:33	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/19/14 14:33	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	103		66 - 137		09/19/14 14:33	1
4-Bromofluorobenzene (Surr)	100		73 - 120		09/19/14 14:33	1
Toluene-d8 (Surr)	103		71 - 126		09/19/14 14:33	1

Lab Sample ID: LCS 480-203303/6

Matrix: Water

Analysis Batch: 203303

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

Analyte	Spike	LCS	LCS	%Rec.		
	Added	Result	Qualifier	Unit	D	%Rec
1,2-Dichlorobenzene	25.0	25.0		ug/L		100
1,4-Dichlorobenzene	25.0	25.4		ug/L		102
Benzene	25.0	25.3		ug/L		101
Chlorobenzene	25.0	25.8		ug/L		103
Ethylbenzene	25.0	26.5		ug/L		106
m,p-Xylene	25.0	26.1		ug/L		105
o-Xylene	25.0	26.1		ug/L		104
Xylenes, Total	50.0	52.2		ug/L		104

Surrogate	LCS	LCS	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	102		66 - 137			
4-Bromofluorobenzene (Surr)	103		73 - 120			
Toluene-d8 (Surr)	102		71 - 126			

Lab Sample ID: 480-66930-6 MS

Matrix: Water

Analysis Batch: 203303

Client Sample ID: Sump 4- 090914
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	%Rec.		
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec
1,2-Dichlorobenzene	ND		100	109		ug/L		109
1,4-Dichlorobenzene	ND		100	107		ug/L		107
Benzene	ND		100	110		ug/L		110
Chlorobenzene	22		100	129		ug/L		107
Ethylbenzene	ND		100	113		ug/L		113
m,p-Xylene	ND		100	110		ug/L		110
o-Xylene	ND		100	110		ug/L		110
Xylenes, Total	ND		200	220		ug/L		110

Surrogate	MS	MS	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	103		66 - 137			

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltift GW Monitoring

TestAmerica Job ID: 480-66930-1

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

Lab Sample ID: 480-66930-6 MS

Matrix: Water

Analysis Batch: 203303

Client Sample ID: Sump 4- 090914
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		73 - 120
Toluene-d8 (Surr)	100		71 - 126

Lab Sample ID: 480-66930-6 MSD

Matrix: Water

Analysis Batch: 203303

Client Sample ID: Sump 4- 090914
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec.	RPD
				ug/L				Limits	Limit
1,2-Dichlorobenzene	ND		100	108		ug/L		108	80 - 124
1,4-Dichlorobenzene	ND		100	107		ug/L		107	75 - 120
Benzene	ND		100	108		ug/L		108	71 - 124
Chlorobenzene	22		100	126		ug/L		104	72 - 120
Ethylbenzene	ND		100	109		ug/L		109	77 - 123
m,p-Xylene	ND		100	107		ug/L		107	76 - 122
o-Xylene	ND		100	109		ug/L		109	76 - 122
Xylenes, Total	ND		200	216		ug/L		108	76 - 122

Surrogate **MSD** **MSD**

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		66 - 137
4-Bromofluorobenzene (Surr)	100		73 - 120
Toluene-d8 (Surr)	98		71 - 126

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

Lab Sample ID: MB 480-201600/1-A

Matrix: Water

Analysis Batch: 205376

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 201600

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
				ug/L			09/10/14 07:56	10/01/14 12:22	
4-Chloroaniline	ND		5.0	0.59	ug/L				1
Naphthalene	ND		5.0	0.76	ug/L		09/10/14 07:56	10/01/14 12:22	1

Surrogate **MB** **MB**

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	85		46 - 120	09/10/14 07:56	10/01/14 12:22	1
2-Fluorobiphenyl	89		48 - 120	09/10/14 07:56	10/01/14 12:22	1
p-Terphenyl-d14	105		67 - 150	09/10/14 07:56	10/01/14 12:22	1

Lab Sample ID: LCS 480-201600/2-A

Matrix: Water

Analysis Batch: 205376

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 201600

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
				ug/L			
4-Chloroaniline	32.0	17.5		ug/L		55	10 - 77
Naphthalene	32.0	27.8		ug/L		87	35 - 117

Surrogate **LCS** **LCS**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5	80		46 - 120

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltift GW Monitoring

TestAmerica Job ID: 480-66930-1

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

Lab Sample ID: LCS 480-201600/2-A

Matrix: Water

Analysis Batch: 205376

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 201600

Surrogate	LCS	LCS	
	%Recovery	Qualifier	Limits
2-Fluorobiphenyl	86		48 - 120
p-Terphenyl-d14	104		67 - 150

Lab Sample ID: 480-66930-2 MS

Matrix: Water

Analysis Batch: 205376

Client Sample ID: MW-2- 090914

Prep Type: Total/NA

Prep Batch: 201600

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec.	Limits
4-Chloroaniline	ND		29.5	3.71	J F1	ug/L		13	60 - 124
Naphthalene	ND		29.5	24.3		ug/L		83	35 - 117

Surrogate

Surrogate	%Recovery	Qualifier	Limits
Nitrobenzene-d5	76		46 - 120
2-Fluorobiphenyl	81		48 - 120
p-Terphenyl-d14	62	X	67 - 150

Lab Sample ID: 480-66930-2 MSD

Matrix: Water

Analysis Batch: 205376

Client Sample ID: MW-2- 090914

Prep Type: Total/NA

Prep Batch: 201600

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec.	RPD	RPD Limit
4-Chloroaniline	ND		29.7	4.97	F1 F2	ug/L		17	60 - 124	29 22
Naphthalene	ND		29.7	24.0		ug/L		81	35 - 117	1 29

Surrogate

Surrogate	%Recovery	Qualifier	Limits
Nitrobenzene-d5	75		46 - 120
2-Fluorobiphenyl	78		48 - 120
p-Terphenyl-d14	58	X	67 - 150

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-201605/1-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 202557

Prep Batch: 201605

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.0040	0.0010	mg/L		09/12/14 08:17	09/15/14 11:27	1
Iron	ND		0.050	0.019	mg/L		09/12/14 08:17	09/15/14 11:27	1
Lead	ND		0.0050	0.0030	mg/L		09/12/14 08:17	09/15/14 11:27	1
Manganese	0.000700	J	0.0030	0.00040	mg/L		09/12/14 08:17	09/15/14 11:27	1

Lab Sample ID: LCS 480-201605/2-A

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 202557

Prep Batch: 201605

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Chromium	0.200	0.193		mg/L		96	80 - 120

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltift GW Monitoring

TestAmerica Job ID: 480-66930-1

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

Lab Sample ID: LCS 480-201605/2-A

Matrix: Water

Analysis Batch: 202557

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 201605

Analyte	Spike		LCS		Unit	D	%Rec	Limits	%Rec.
	Added	Result	Qualifier						
Iron	10.0	9.43		mg/L		94	80 - 120		
Lead	0.200	0.189		mg/L		95	80 - 120		
Manganese	0.200	0.201		mg/L		100	80 - 120		

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 480-201649/1-A

Matrix: Water

Analysis Batch: 202286

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 201649

Analyte	MB		MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Result	Qualifier							
Antimony	ND		1.0		0.15	ug/L			09/10/14 10:10	09/12/14 23:42	1
Arsenic	ND		1.0		0.078	ug/L			09/10/14 10:10	09/12/14 23:42	1
Cadmium	ND		0.50		0.071	ug/L			09/10/14 10:10	09/12/14 23:42	1

Lab Sample ID: LCS 480-201649/2-A

Matrix: Water

Analysis Batch: 202286

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 201649

Analyte	MB		MB		RL	MDL	Unit	D	%Rec	Limits	%Rec.
	Result	Qualifier	Result	Qualifier							
Antimony	20.0		20.41		1.0	ug/L			102	80 - 120	
Arsenic	20.0		18.62		1.0	ug/L			93	80 - 120	
Cadmium	20.0		19.70		0.50	ug/L			98	80 - 120	

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-201837/1-A

Matrix: Water

Analysis Batch: 201937

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 201837

Analyte	MB		MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Result	Qualifier							
Mercury	ND		0.00020		0.00012	mg/L			09/11/14 07:30	09/11/14 12:36	1

Lab Sample ID: LCS 480-201837/2-A

Matrix: Water

Analysis Batch: 201937

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 201837

Analyte	Spike		LCS		Unit	D	%Rec	Limits	%Rec.
	Added	Result	Qualifier						
Mercury	0.00667	0.00658		mg/L		99	80 - 120		

QC Association Summary

Client: Honeywell International Inc
Project/Site: 30130 - Alltift GW Monitoring

TestAmerica Job ID: 480-66930-1

GC/MS VOA

Analysis Batch: 203303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-66930-1	FDUP- 090914	Total/NA	Water	8260C	
480-66930-2	MW-2- 090914	Total/NA	Water	8260C	
480-66930-3	Sump 1- 090914	Total/NA	Water	8260C	
480-66930-4	Sump 2- 090914	Total/NA	Water	8260C	
480-66930-5	Sump 3- 090914	Total/NA	Water	8260C	
480-66930-6	Sump 4- 090914	Total/NA	Water	8260C	
480-66930-6 MS	Sump 4- 090914	Total/NA	Water	8260C	
480-66930-6 MSD	Sump 4- 090914	Total/NA	Water	8260C	
480-66930-7	TRIP BLANK 090914	Total/NA	Water	8260C	
LCS 480-203303/6	Lab Control Sample	Total/NA	Water	8260C	
MB 480-203303/8	Method Blank	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 201600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-66930-1	FDUP- 090914	Total/NA	Water	3510C	
480-66930-2	MW-2- 090914	Total/NA	Water	3510C	
480-66930-2 MS	MW-2- 090914	Total/NA	Water	3510C	
480-66930-2 MSD	MW-2- 090914	Total/NA	Water	3510C	
480-66930-8	Sump Comp 090914	Total/NA	Water	3510C	
LCS 480-201600/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 480-201600/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 205376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-66930-1	FDUP- 090914	Total/NA	Water	8270D	201600
480-66930-2	MW-2- 090914	Total/NA	Water	8270D	201600
480-66930-2 MS	MW-2- 090914	Total/NA	Water	8270D	201600
480-66930-2 MSD	MW-2- 090914	Total/NA	Water	8270D	201600
480-66930-8	Sump Comp 090914	Total/NA	Water	8270D	201600
LCS 480-201600/2-A	Lab Control Sample	Total/NA	Water	8270D	201600
MB 480-201600/1-A	Method Blank	Total/NA	Water	8270D	201600

Metals

Prep Batch: 201605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-66930-1	FDUP- 090914	Total/NA	Water	3005A	
480-66930-2	MW-2- 090914	Total/NA	Water	3005A	
480-66930-8	Sump Comp 090914	Total/NA	Water	3005A	
LCS 480-201605/2-A	Lab Control Sample	Total/NA	Water	3005A	
MB 480-201605/1-A	Method Blank	Total/NA	Water	3005A	

Prep Batch: 201649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-66930-1	FDUP- 090914	Total/NA	Water	3020A	
480-66930-2	MW-2- 090914	Total/NA	Water	3020A	
480-66930-8	Sump Comp 090914	Total/NA	Water	3020A	
LCS 480-201649/2-A	Lab Control Sample	Total/NA	Water	3020A	

TestAmerica Buffalo

QC Association Summary

Client: Honeywell International Inc
Project/Site: 30130 - Alltift GW Monitoring

TestAmerica Job ID: 480-66930-1

Metals (Continued)

Prep Batch: 201649 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-201649/1-A	Method Blank	Total/NA	Water	3020A	

Prep Batch: 201837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-66930-1	FDUP- 090914	Total/NA	Water	7470A	
480-66930-2	MW-2 090914	Total/NA	Water	7470A	
480-66930-8	Sump Comp 090914	Total/NA	Water	7470A	
LCS 480-201837/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 480-201837/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 201937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-66930-1	FDUP- 090914	Total/NA	Water	7470A	201837
480-66930-2	MW-2 090914	Total/NA	Water	7470A	201837
480-66930-8	Sump Comp 090914	Total/NA	Water	7470A	201837
LCS 480-201837/2-A	Lab Control Sample	Total/NA	Water	7470A	201837
MB 480-201837/1-A	Method Blank	Total/NA	Water	7470A	201837

Analysis Batch: 202286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-66930-1	FDUP- 090914	Total/NA	Water	6020A	201649
480-66930-2	MW-2 090914	Total/NA	Water	6020A	201649
480-66930-8	Sump Comp 090914	Total/NA	Water	6020A	201649
LCS 480-201649/2-A	Lab Control Sample	Total/NA	Water	6020A	201649
MB 480-201649/1-A	Method Blank	Total/NA	Water	6020A	201649

Analysis Batch: 202557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-66930-1	FDUP- 090914	Total/NA	Water	6010C	201605
480-66930-2	MW-2 090914	Total/NA	Water	6010C	201605
480-66930-8	Sump Comp 090914	Total/NA	Water	6010C	201605
LCS 480-201605/2-A	Lab Control Sample	Total/NA	Water	6010C	201605
MB 480-201605/1-A	Method Blank	Total/NA	Water	6010C	201605

Lab Chronicle

Client: Honeywell International Inc
Project/Site: 30130 - Alltift GW Monitoring

TestAmerica Job ID: 480-66930-1

Client Sample ID: FDUP- 090914

Lab Sample ID: 480-66930-1

Matrix: Water

Date Collected: 09/09/14 09:55

Date Received: 09/09/14 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	203303	09/19/14 15:33	GTG	TAL BUF
Total/NA	Prep	3510C			201600	09/10/14 07:56	TRG	TAL BUF
Total/NA	Analysis	8270D		1	205376	10/01/14 14:12	DMR	TAL BUF
Total/NA	Prep	3005A			201605	09/12/14 08:17	SLB	TAL BUF
Total/NA	Analysis	6010C		1	202557	09/15/14 12:22	LMH	TAL BUF
Total/NA	Prep	3020A			201649	09/10/14 10:10	SLB	TAL BUF
Total/NA	Analysis	6020A		1	202286	09/12/14 23:54	TRB	TAL BUF
Total/NA	Prep	7470A			201837	09/11/14 07:30	LRK	TAL BUF
Total/NA	Analysis	7470A		1	201937	09/11/14 12:53	LRK	TAL BUF

Client Sample ID: MW-2- 090914

Lab Sample ID: 480-66930-2

Matrix: Water

Date Collected: 09/09/14 08:25

Date Received: 09/09/14 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	203303	09/19/14 15:56	GTG	TAL BUF
Total/NA	Prep	3510C			201600	09/10/14 07:56	TRG	TAL BUF
Total/NA	Analysis	8270D		1	205376	10/01/14 14:40	DMR	TAL BUF
Total/NA	Prep	3005A			201605	09/12/14 08:17	SLB	TAL BUF
Total/NA	Analysis	6010C		1	202557	09/15/14 12:32	LMH	TAL BUF
Total/NA	Prep	3020A			201649	09/10/14 10:10	SLB	TAL BUF
Total/NA	Analysis	6020A		1	202286	09/12/14 23:59	TRB	TAL BUF
Total/NA	Prep	7470A			201837	09/11/14 07:30	LRK	TAL BUF
Total/NA	Analysis	7470A		1	201937	09/11/14 12:55	LRK	TAL BUF

Client Sample ID: Sump 1- 090914

Lab Sample ID: 480-66930-3

Matrix: Water

Date Collected: 09/09/14 11:15

Date Received: 09/09/14 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	203303	09/19/14 16:21	GTG	TAL BUF

Client Sample ID: Sump 2- 090914

Lab Sample ID: 480-66930-4

Matrix: Water

Date Collected: 09/09/14 10:55

Date Received: 09/09/14 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	203303	09/19/14 16:44	GTG	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Honeywell International Inc
Project/Site: 30130 - Alltift GW Monitoring

TestAmerica Job ID: 480-66930-1

Client Sample ID: Sump 3- 090914

Lab Sample ID: 480-66930-5

Matrix: Water

Date Collected: 09/09/14 10:35
Date Received: 09/09/14 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	203303	09/19/14 17:09	GTG	TAL BUF

Client Sample ID: Sump 4- 090914

Lab Sample ID: 480-66930-6

Matrix: Water

Date Collected: 09/09/14 09:50
Date Received: 09/09/14 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	203303	09/19/14 17:32	GTG	TAL BUF

Client Sample ID: TRIP BLANK 090914

Lab Sample ID: 480-66930-7

Matrix: Water

Date Collected: 09/09/14 11:25
Date Received: 09/09/14 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	203303	09/19/14 17:56	GTG	TAL BUF

Client Sample ID: Sump Comp 090914

Lab Sample ID: 480-66930-8

Matrix: Water

Date Collected: 09/09/14 11:20
Date Received: 09/09/14 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			201600	09/10/14 07:56	TRG	TAL BUF
Total/NA	Analysis	8270D		1	205376	10/01/14 15:07	DMR	TAL BUF
Total/NA	Prep	3005A			201605	09/12/14 08:17	SLB	TAL BUF
Total/NA	Analysis	6010C		1	202557	09/15/14 12:45	LMH	TAL BUF
Total/NA	Prep	3020A			201649	09/10/14 10:10	SLB	TAL BUF
Total/NA	Analysis	6020A		1	202286	09/13/14 00:45	TRB	TAL BUF
Total/NA	Prep	7470A			201837	09/11/14 07:30	LRK	TAL BUF
Total/NA	Analysis	7470A		1	201937	09/11/14 13:03	LRK	TAL BUF

Laboratory References:

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

TestAmerica Buffalo

Certification Summary

Client: Honeywell International Inc
Project/Site: 30130 - Alltift GW Monitoring

TestAmerica Job ID: 480-66930-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-15

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Method Summary

Client: Honeywell International Inc
Project/Site: 30130 - Alltift GW Monitoring

TestAmerica Job ID: 480-66930-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
6020A	Metals (ICP/MS)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF

Protocol References:

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: Honeywell International Inc
Project/Site: 30130 - Alltift GW Monitoring

TestAmerica Job ID: 480-66930-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-66930-1	FDUP- 090914	Water	09/09/14 09:55	09/09/14 14:05
480-66930-2	MW-2- 090914	Water	09/09/14 08:25	09/09/14 14:05
480-66930-3	Sump 1- 090914	Water	09/09/14 11:15	09/09/14 14:05
480-66930-4	Sump 2- 090914	Water	09/09/14 10:55	09/09/14 14:05
480-66930-5	Sump 3- 090914	Water	09/09/14 10:35	09/09/14 14:05
480-66930-6	Sump 4- 090914	Water	09/09/14 09:50	09/09/14 14:05
480-66930-7	TRIP BLANK 090914	Water	09/09/14 11:25	09/09/14 14:05
480-66930-8	Sump Comp 090914	Water	09/09/14 11:20	09/09/14 14:05

Chain of Custody Record

Client Information		Sample #: Patrick Higgins		Lab P.M.: Schove, John R		Carrier Tracking No.: COC No: 480-54295-7003.1	
Client Contact:	Mr. Mohammed Salam	Phone:	315-468-1663	E-Mail:	john.schove@testamericainc.com	Page:	Page 1 of 2
Company:	CH2M Hill OML	Address:	1563 Willis Avenue	Due Date Requested:		Job #:	
City:	Syracuse	State / Zip:	NY, 13209	TAT Requested (days):	14 days	Preservation Codes:	M - Hexane N - None O - ASNaO2 P - Na2OAs Q - Na2SCo3 R - Na2S2O3 S - H2SO4 T - TSP Dodecylbenzene Sulfonate U - Acetone V - MCA W - pH 4-5 Z - other (specify)
Phone:	973-455-4682(Tel)	Email:	mohammed.salam@ch2m.com	PO #:	4500073922	Total Number of containers:	
Project Name:	Honeywell - Buffalo (Altift) - 30130/ Event Desc: Honeywell - Altift	Project #:	48004-175	SSOW#:		K - EDTA	
Site:	New York	Other:					
Analysis Requested							
6010B, 6020, 7470A							
6260B - Appendix I Volatiles							
6270C - Appendix 2 Semi-Volatiles							
6270C - Appendix 3 MS/MS/Volatiles							
Field Filtered Sample (Yes or No)							
6270C - Appendix 4 Solvent							
Matrix (Water, Sediment, Oil/Water, BT-Tissues, A=Air)							
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Preservation Code	Special Instructions/Note:	
MS	090914	090914	10:05	6C4S	Water	A	D
MSD	090914	090914	10:00	6C4S	Water	N	N
FDUP-	090914	090914	9:55	6C4S	Water	N	N
MN-2-	090914	090914	9:25	6C4S	Water	N	N
Sump 1-	090914	090914	11:15	6C4S	Water	N	N
Sump 2-	090914	090914	10:55	6C4S	Water	N	N
Sump 3-	090914	090914	10:35	6C4S	Water	N	N
Sump 4-	090914	090914	9:50	6C4S	Water	N	N
TRIP BLANK	090914	090914	11:25	6C4S	Water	N	N
<i>Sump Comp 090914</i>							
<i> </i>							
Possible Hazard Identification							
<input type="checkbox"/> Non-hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological							
Deliverable Requested: I, II, III, IV, Other (specify)							
Emty Kit Relinquished by: <i>Patrick Higgins</i>							
Relinquished by:	<i>Patrick Higgins</i>	Date/Time:	<i>09/09/14</i>	Company:	<i>John R. Schove</i>	Received by:	<i>John R. Schove</i>
Relinquished by:		Date/Time:		Company:		Received by:	
Relinquished by:		Date/Time:		Company:		Received by:	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months							
Special Instructions/QC Requirements:							
Method of Shipment							
Relinquished by:	<i>Patrick Higgins</i>	Date/Time:	<i>09/09/14</i>	Company:	<i>John R. Schove</i>	Received by:	<i>John R. Schove</i>
Relinquished by:		Date/Time:		Company:		Received by:	
Relinquished by:		Date/Time:		Company:		Received by:	
Cooler Temperatures(s) °C and Other Remarks:							

Login Sample Receipt Checklist

Client: Honeywell International Inc

Job Number: 480-66930-1

Login Number: 66930

List Source: TestAmerica Buffalo

List Number: 1

Creator: Robison, Zachary J

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.	True	
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	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	

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: 480-68653-1

Client Project/Site: Honeywell - Buffalo (Alltift) - 30130

For:

Honeywell International Inc

101 Columbia Road

Morristown, New Jersey 07962

Attn: Mr. Rich Galloway

Authorized for release by:

10/22/2014 12:02:40 PM

Rebecca Jones, Project Management Assistant I

rebecca.jones@testamericainc.com

Designee for

John Schove, Project Manager II

(716)504-9838

john.schove@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
Surrogate Summary	8
QC Sample Results	9
QC Association Summary	14
Lab Chronicle	16
Certification Summary	17
Method Summary	18
Sample Summary	19
Chain of Custody	20
Receipt Checklists	21

Definitions/Glossary

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltift) - 30130

TestAmerica Job ID: 480-68653-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control limits

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.
B	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery 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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

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Case Narrative

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltift) - 30130

TestAmerica Job ID: 480-68653-1

Job ID: 480-68653-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-68653-1

Comments

No additional comments.

Receipt

The samples were received on 10/6/2014 1:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.1° C.

GC/MS VOA

Method(s) 8260C: The following volatiles sample(s) was diluted due to foaming at the time of purging during the original sample analysis: Sump 4 DUP-101614 (480-68653-2), Sump 4-100614 (480-68653-1), Sump 4-100614 MS (480-68653-1 MS), Sump 4-100614 MSD (480-68653-1 MSD). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: Surrogate recovery for the following samples was outside control limits: Sump 4-100614 (480-68653-1), Sump 4-100614 MS (480-68653-1 MS), Sump 4-100614 MSD (480-68653-1 MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Honeywell International Inc
 Project/Site: Honeywell - Buffalo (Alltift) - 30130

TestAmerica Job ID: 480-68653-1

Client Sample ID: Sump 4-100614

Lab Sample ID: 480-68653-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	23		4.0	3.0	ug/L	4		8260C	Total/NA
Chromium	0.010		0.0040	0.0010	mg/L	1		6010C	Total/NA
Iron	25.0	B	0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0052		0.0050	0.0030	mg/L	1		6010C	Total/NA
Manganese	2.3		0.0030	0.00040	mg/L	1		6010C	Total/NA
Antimony	1.5		1.0	0.15	ug/L	1		6020A	Total/NA
Arsenic	17.2		1.0	0.078	ug/L	1		6020A	Total/NA
Cadmium	0.48	J	0.50	0.071	ug/L	1		6020A	Total/NA

Client Sample ID: Sump 4 DUP-100614

Lab Sample ID: 480-68653-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	30		4.0	3.0	ug/L	4		8260C	Total/NA
Chromium	0.0042		0.0040	0.0010	mg/L	1		6010C	Total/NA
Iron	22.3	B	0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	2.2		0.0030	0.00040	mg/L	1		6010C	Total/NA
Antimony	0.67	J	1.0	0.15	ug/L	1		6020A	Total/NA
Arsenic	14.2		1.0	0.078	ug/L	1		6020A	Total/NA
Cadmium	0.30	J	0.50	0.071	ug/L	1		6020A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Honeywell International Inc
 Project/Site: Honeywell - Buffalo (Alltift) - 30130

TestAmerica Job ID: 480-68653-1

Client Sample ID: Sump 4-100614

Lab Sample ID: 480-68653-1

Matrix: Water

Date Collected: 10/06/14 07:40

Date Received: 10/06/14 13:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			10/07/14 12:47	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			10/07/14 12:47	4
Benzene	ND		4.0	1.6	ug/L			10/07/14 12:47	4
Chlorobenzene	23		4.0	3.0	ug/L			10/07/14 12:47	4
Ethylbenzene	ND		4.0	3.0	ug/L			10/07/14 12:47	4
Xylenes, Total	ND		8.0	2.6	ug/L			10/07/14 12:47	4

Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		66 - 137		10/07/14 12:47	4
4-Bromofluorobenzene (Surr)	99		73 - 120		10/07/14 12:47	4
Toluene-d8 (Surr)	96		71 - 126		10/07/14 12:47	4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		4.7	0.55	ug/L		10/08/14 05:59	10/10/14 16:22	1
Naphthalene	ND		4.7	0.71	ug/L		10/08/14 05:59	10/10/14 16:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	40	X	46 - 120				10/08/14 05:59	10/10/14 16:22	1
2-Fluorobiphenyl	42	X	48 - 120				10/08/14 05:59	10/10/14 16:22	1
p-Terphenyl-d14	51	X	67 - 150				10/08/14 05:59	10/10/14 16:22	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.010		0.0040	0.0010	mg/L		10/08/14 08:55	10/08/14 18:30	1
Iron	25.0	B	0.050	0.019	mg/L		10/08/14 08:55	10/08/14 18:30	1
Lead	0.0052		0.0050	0.0030	mg/L		10/08/14 08:55	10/08/14 18:30	1
Manganese	2.3		0.0030	0.00040	mg/L		10/08/14 08:55	10/08/14 18:30	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.5		1.0	0.15	ug/L		10/08/14 12:36	10/09/14 07:38	1
Arsenic	17.2		1.0	0.078	ug/L		10/08/14 12:36	10/09/14 07:38	1
Cadmium	0.48	J	0.50	0.071	ug/L		10/08/14 12:36	10/09/14 07:38	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		10/07/14 08:00	10/07/14 13:05	1

TestAmerica Buffalo

Client Sample Results

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltift) - 30130

TestAmerica Job ID: 480-68653-1

Client Sample ID: Sump 4 DUP-100614

Lab Sample ID: 480-68653-2

Matrix: Water

Date Collected: 10/06/14 07:55

Date Received: 10/06/14 13:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			10/07/14 14:02	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			10/07/14 14:02	4
Benzene	ND		4.0	1.6	ug/L			10/07/14 14:02	4
Chlorobenzene	30		4.0	3.0	ug/L			10/07/14 14:02	4
Ethylbenzene	ND		4.0	3.0	ug/L			10/07/14 14:02	4
Xylenes, Total	ND		8.0	2.6	ug/L			10/07/14 14:02	4

Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		66 - 137		10/07/14 14:02	4
4-Bromofluorobenzene (Surr)	99		73 - 120		10/07/14 14:02	4
Toluene-d8 (Surr)	96		71 - 126		10/07/14 14:02	4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		4.6	0.54	ug/L		10/08/14 05:59	10/10/14 16:49	1
Naphthalene	ND		4.6	0.70	ug/L		10/08/14 05:59	10/10/14 16:49	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Nitrobenzene-d5	87		46 - 120	10/08/14 05:59	10/10/14 16:49	1			
2-Fluorobiphenyl	92		48 - 120	10/08/14 05:59	10/10/14 16:49	1			
p-Terphenyl-d14	79		67 - 150	10/08/14 05:59	10/10/14 16:49	1			

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.0042		0.0040	0.0010	mg/L		10/08/14 08:55	10/08/14 18:44	1
Iron	22.3	B	0.050	0.019	mg/L		10/08/14 08:55	10/08/14 18:44	1
Lead	ND		0.0050	0.0030	mg/L		10/08/14 08:55	10/08/14 18:44	1
Manganese	2.2		0.0030	0.00040	mg/L		10/08/14 08:55	10/08/14 18:44	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.67	J	1.0	0.15	ug/L		10/08/14 12:36	10/09/14 08:11	1
Arsenic	14.2		1.0	0.078	ug/L		10/08/14 12:36	10/09/14 08:11	1
Cadmium	0.30	J	0.50	0.071	ug/L		10/08/14 12:36	10/09/14 08:11	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		10/07/14 08:00	10/07/14 13:11	1

TestAmerica Buffalo

Surrogate Summary

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltift) - 30130

TestAmerica Job ID: 480-68653-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		12DCE (66-137)	BFB (73-120)	TOL (71-126)
480-68653-1	Sump 4-100614	121	99	96
480-68653-1 MS	Sump 4-100614 MS	115	106	95
480-68653-1 MSD	Sump 4-100614 MSD	113	102	97
480-68653-2	Sump 4 DUP-100614	115	99	96
LCS 480-206312/5	Lab Control Sample	108	101	97
MB 480-206312/6	Method Blank	111	98	98

Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		NBZ (46-120)	FBP (48-120)	TPH (67-150)
480-68653-1	Sump 4-100614	40 X	42 X	51 X
480-68653-1 MS	Sump 4-100614 MS	96	98	60 X
480-68653-1 MSD	Sump 4-100614 MSD	95	101	62 X
480-68653-2	Sump 4 DUP-100614	87	92	79
LCS 480-206491/2-A	Lab Control Sample	91	92	102
MB 480-206491/1-A	Method Blank	82	86	103

Surrogate Legend

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

QC Sample Results

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltift) - 30130

TestAmerica Job ID: 480-68653-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-206312/6

Matrix: Water

Analysis Batch: 206312

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/07/14 10:45	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/07/14 10:45	1
Benzene	ND		1.0	0.41	ug/L			10/07/14 10:45	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/07/14 10:45	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/07/14 10:45	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/07/14 10:45	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	111		66 - 137		10/07/14 10:45	1
4-Bromofluorobenzene (Surr)	98		73 - 120		10/07/14 10:45	1
Toluene-d8 (Surr)	98		71 - 126		10/07/14 10:45	1

Lab Sample ID: LCS 480-206312/5

Matrix: Water

Analysis Batch: 206312

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

Analyte	Spike	LCS	LCS	%Rec.		
	Added	Result	Qualifier	Unit	D	%Rec
1,2-Dichlorobenzene	25.0	23.2		ug/L		93
1,4-Dichlorobenzene	25.0	22.9		ug/L		92
Benzene	25.0	22.9		ug/L		92
Chlorobenzene	25.0	23.0		ug/L		92
Ethylbenzene	25.0	23.6		ug/L		94
m,p-Xylene	25.0	22.5		ug/L		90
o-Xylene	25.0	22.6		ug/L		90
Xylenes, Total	50.0	45.1		ug/L		90

Surrogate	LCs	LCs	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	108		66 - 137			
4-Bromofluorobenzene (Surr)	101		73 - 120			
Toluene-d8 (Surr)	97		71 - 126			

Lab Sample ID: 480-68653-1 MS

Matrix: Water

Analysis Batch: 206312

Client Sample ID: Sump 4-100614 MS
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	%Rec.		
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec
1,2-Dichlorobenzene	ND		100	95.3		ug/L		95
1,4-Dichlorobenzene	ND		100	94.6		ug/L		95
Benzene	ND		100	92.8		ug/L		93
Chlorobenzene	23		100	116		ug/L		93
Ethylbenzene	ND		100	98.1		ug/L		98
m,p-Xylene	ND		100	93.3		ug/L		93
o-Xylene	ND		100	92.2		ug/L		92
Xylenes, Total	ND		200	186		ug/L		93

Surrogate	MS	MS	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	115		66 - 137			

QC Sample Results

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltift) - 30130

TestAmerica Job ID: 480-68653-1

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

Lab Sample ID: 480-68653-1 MS

Matrix: Water

Analysis Batch: 206312

Client Sample ID: Sump 4-100614 MS

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		73 - 120
Toluene-d8 (Surr)	95		71 - 126

Lab Sample ID: 480-68653-1 MSD

Matrix: Water

Analysis Batch: 206312

Client Sample ID: Sump 4-100614 MSD

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec.	RPD
								Limits	Limit
1,2-Dichlorobenzene	ND		100	93.7		ug/L	94	80 - 124	2
1,4-Dichlorobenzene	ND		100	93.2		ug/L	93	75 - 120	2
Benzene	ND		100	91.9		ug/L	92	71 - 124	1
Chlorobenzene	23		100	116		ug/L	93	72 - 120	0
Ethylbenzene	ND		100	95.6		ug/L	96	77 - 123	3
m,p-Xylene	ND		100	90.8		ug/L	91	76 - 122	3
o-Xylene	ND		100	91.4		ug/L	91	76 - 122	1
Xylenes, Total	ND		200	182		ug/L	91	76 - 122	2

Surrogate **MSD** **MSD**

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	113		66 - 137
4-Bromofluorobenzene (Surr)	102		73 - 120
Toluene-d8 (Surr)	97		71 - 126

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

Lab Sample ID: MB 480-206491/1-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 207108

Prep Batch: 206491

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		5.0	0.59	ug/L		10/08/14 05:59	10/10/14 14:31	1
Naphthalene	ND		5.0	0.76	ug/L		10/08/14 05:59	10/10/14 14:31	1

Surrogate **MB** **MB**

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	82		46 - 120	10/08/14 05:59	10/10/14 14:31	1
2-Fluorobiphenyl	86		48 - 120	10/08/14 05:59	10/10/14 14:31	1
p-Terphenyl-d14	103		67 - 150	10/08/14 05:59	10/10/14 14:31	1

Lab Sample ID: LCS 480-206491/2-A

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 207108

Prep Batch: 206491

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
4-Chloroaniline	32.0	24.2		ug/L	75	10 - 77	
Naphthalene	32.0	27.8		ug/L	87	35 - 117	

Surrogate **LCS** **LCS**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5	91		46 - 120

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltift) - 30130

TestAmerica Job ID: 480-68653-1

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

Lab Sample ID: LCS 480-206491/2-A

Matrix: Water

Analysis Batch: 207108

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 206491

Surrogate	LCS	LCS	
	%Recovery	Qualifier	Limits
2-Fluorobiphenyl	92		48 - 120
p-Terphenyl-d14	102		67 - 150

Lab Sample ID: 480-68653-1 MS

Matrix: Water

Analysis Batch: 207108

Client Sample ID: Sump 4-100614 MS

Prep Type: Total/NA

Prep Batch: 206491

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec.	Limits
4-Chloroaniline	ND		29.5	6.15	F1	ug/L	21	60 - 124	
Naphthalene	ND		29.5	27.4		ug/L	93	35 - 117	

Surrogate

Surrogate	LCS	LCS	
	%Recovery	Qualifier	Limits
Nitrobenzene-d5	96		46 - 120
2-Fluorobiphenyl	98		48 - 120
p-Terphenyl-d14	60	X	67 - 150

Lab Sample ID: 480-68653-1 MSD

Matrix: Water

Analysis Batch: 207108

Client Sample ID: Sump 4-100614 MSD

Prep Type: Total/NA

Prep Batch: 206491

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec.	RPD	RPD Limit
4-Chloroaniline	ND		29.3	12.6	F1 F2	ug/L	43	60 - 124	69	22
Naphthalene	ND		29.3	26.7		ug/L	91	35 - 117	2	29

Surrogate

Surrogate	LCS	LCS	
	%Recovery	Qualifier	Limits
Nitrobenzene-d5	95		46 - 120
2-Fluorobiphenyl	101		48 - 120
p-Terphenyl-d14	62	X	67 - 150

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-206499/1-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 207036

Prep Batch: 206499

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.0040	0.0010	mg/L		10/08/14 08:55	10/09/14 13:26	1
Iron	0.0326	J	0.050	0.019	mg/L		10/08/14 08:55	10/09/14 13:26	1
Lead	ND		0.0050	0.0030	mg/L		10/08/14 08:55	10/09/14 13:26	1
Manganese	ND		0.0030	0.00040	mg/L		10/08/14 08:55	10/09/14 13:26	1

Lab Sample ID: LCS 480-206499/2-A

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 206924

Prep Batch: 206499

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Chromium	0.201	0.188		mg/L	94	80 - 120	

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltift) - 30130

TestAmerica Job ID: 480-68653-1

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

Lab Sample ID: LCS 480-206499/2-A

Matrix: Water

Analysis Batch: 206924

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 206499

Analyte	Spike		LCS		Unit	D	%Rec	Limits	%Rec.
	Added	Result	Qualifier	LCS					
Iron	10.0	9.07		mg/L		91	80 - 120		
Lead	0.201	0.187		mg/L		93	80 - 120		
Manganese	0.201	0.202		mg/L		101	80 - 120		

Lab Sample ID: 480-68653-1 MS

Matrix: Water

Analysis Batch: 206924

Client Sample ID: Sump 4-100614 MS

Prep Type: Total/NA

Prep Batch: 206499

Analyte	Sample		Spike		MS		Unit	D	%Rec	Limits	%Rec.
	Result	Qualifier	Added	Result	Qualifier	MS					
Chromium	0.010		0.201	0.194		mg/L		92	75 - 125		
Iron	25.0	B	10.0	33.17		mg/L		82	75 - 125		
Lead	0.0052		0.201	0.197		mg/L		96	75 - 125		
Manganese	2.3		0.201	2.53	4	mg/L		99	75 - 125		

Lab Sample ID: 480-68653-1 MSD

Matrix: Water

Analysis Batch: 206924

Client Sample ID: Sump 4-100614 MSD

Prep Type: Total/NA

Prep Batch: 206499

Analyte	Sample		Spike		MSD		Unit	D	%Rec	Limits	%Rec.	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier	MSD							
Chromium	0.010		0.201	0.189		mg/L		90	75 - 125			2	20
Iron	25.0	B	10.0	31.63	F1	mg/L		67	75 - 125			5	20
Lead	0.0052		0.201	0.199		mg/L		96	75 - 125			1	20
Manganese	2.3		0.201	2.45	4	mg/L		58	75 - 125			3	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 480-206584/1-A

Matrix: Water

Analysis Batch: 206893

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 206584

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	ND		1.0	0.15	ug/L		10/08/14 12:36	10/09/14 06:24	1
Arsenic	ND		1.0	0.078	ug/L		10/08/14 12:36	10/09/14 06:24	1
Cadmium	ND		0.50	0.071	ug/L		10/08/14 12:36	10/09/14 06:24	1

Lab Sample ID: LCS 480-206584/2-A

Matrix: Water

Analysis Batch: 206893

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 206584

Analyte	Spike		LCS		Unit	D	%Rec	Limits	%Rec.
	Added	Result	Qualifier	LCS					
Antimony	20.0	19.73		ug/L		99	80 - 120		
Arsenic	20.0	18.49		ug/L		92	80 - 120		
Cadmium	20.0	19.67		ug/L		98	80 - 120		

QC Sample Results

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltift) - 30130

TestAmerica Job ID: 480-68653-1

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

Lab Sample ID: 480-68653-1 MS

Matrix: Water

Analysis Batch: 206893

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier				
Antimony	1.5		20.0	21.81		ug/L		101	75 - 125
Arsenic	17.2		20.0	35.62		ug/L		92	75 - 125
Cadmium	0.48	J	20.0	19.51		ug/L		95	75 - 125

Lab Sample ID: 480-68653-1 MSD

Matrix: Water

Analysis Batch: 206893

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Antimony	1.5		20.0	21.18		ug/L		98	75 - 125	3	20
Arsenic	17.2		20.0	32.33		ug/L		76	75 - 125	10	20
Cadmium	0.48	J	20.0	19.19		ug/L		94	75 - 125	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-206295/1-A

Matrix: Water

Analysis Batch: 206395

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	ND		0.00020	0.00012	mg/L		10/07/14 08:00	10/07/14 12:31	1

Lab Sample ID: LCS 480-206295/2-A

Matrix: Water

Analysis Batch: 206395

Analyte	Spike	LCS	LCS	Unit	D	%Rec.	Limits
	Added	Result	Qualifier				
Mercury	0.00667	0.00705		mg/L		106	80 - 120

Lab Sample ID: 480-68653-1 MS

Matrix: Water

Analysis Batch: 206395

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier				
Mercury	ND		0.00667	0.00687		mg/L		103	80 - 120

Lab Sample ID: 480-68653-1 MSD

Matrix: Water

Analysis Batch: 206395

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Mercury	ND		0.00667	0.00653		mg/L		98	80 - 120	5	20

TestAmerica Buffalo

QC Association Summary

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltift) - 30130

TestAmerica Job ID: 480-68653-1

GC/MS VOA

Analysis Batch: 206312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-68653-1	Sump 4-100614	Total/NA	Water	8260C	
480-68653-1 MS	Sump 4-100614 MS	Total/NA	Water	8260C	
480-68653-1 MSD	Sump 4-100614 MSD	Total/NA	Water	8260C	
480-68653-2	Sump 4 DUP-100614	Total/NA	Water	8260C	
LCS 480-206312/5	Lab Control Sample	Total/NA	Water	8260C	
MB 480-206312/6	Method Blank	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 206491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-68653-1	Sump 4-100614	Total/NA	Water	3510C	
480-68653-1 MS	Sump 4-100614 MS	Total/NA	Water	3510C	
480-68653-1 MSD	Sump 4-100614 MSD	Total/NA	Water	3510C	
480-68653-2	Sump 4 DUP-100614	Total/NA	Water	3510C	
LCS 480-206491/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 480-206491/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 207108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-68653-1	Sump 4-100614	Total/NA	Water	8270D	206491
480-68653-1 MS	Sump 4-100614 MS	Total/NA	Water	8270D	206491
480-68653-1 MSD	Sump 4-100614 MSD	Total/NA	Water	8270D	206491
480-68653-2	Sump 4 DUP-100614	Total/NA	Water	8270D	206491
LCS 480-206491/2-A	Lab Control Sample	Total/NA	Water	8270D	206491
MB 480-206491/1-A	Method Blank	Total/NA	Water	8270D	206491

Metals

Prep Batch: 206295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-68653-1	Sump 4-100614	Total/NA	Water	7470A	
480-68653-1 MS	Sump 4-100614 MS	Total/NA	Water	7470A	
480-68653-1 MSD	Sump 4-100614 MSD	Total/NA	Water	7470A	
480-68653-2	Sump 4 DUP-100614	Total/NA	Water	7470A	
LCS 480-206295/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 480-206295/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 206395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-68653-1	Sump 4-100614	Total/NA	Water	7470A	206295
480-68653-1 MS	Sump 4-100614 MS	Total/NA	Water	7470A	206295
480-68653-1 MSD	Sump 4-100614 MSD	Total/NA	Water	7470A	206295
480-68653-2	Sump 4 DUP-100614	Total/NA	Water	7470A	206295
LCS 480-206295/2-A	Lab Control Sample	Total/NA	Water	7470A	206295
MB 480-206295/1-A	Method Blank	Total/NA	Water	7470A	206295

Prep Batch: 206499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-68653-1	Sump 4-100614	Total/NA	Water	3005A	

TestAmerica Buffalo

QC Association Summary

Client: Honeywell International Inc
 Project/Site: Honeywell - Buffalo (Alltift) - 30130

TestAmerica Job ID: 480-68653-1

Metals (Continued)

Prep Batch: 206499 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-68653-1 MS	Sump 4-100614 MS	Total/NA	Water	3005A	5
480-68653-1 MSD	Sump 4-100614 MSD	Total/NA	Water	3005A	6
480-68653-2	Sump 4 DUP-100614	Total/NA	Water	3005A	7
LCS 480-206499/2-A	Lab Control Sample	Total/NA	Water	3005A	8
MB 480-206499/1-A	Method Blank	Total/NA	Water	3005A	9

Prep Batch: 206584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-68653-1	Sump 4-100614	Total/NA	Water	3020A	10
480-68653-1 MS	Sump 4-100614 MS	Total/NA	Water	3020A	11
480-68653-1 MSD	Sump 4-100614 MSD	Total/NA	Water	3020A	12
480-68653-2	Sump 4 DUP-100614	Total/NA	Water	3020A	13
LCS 480-206584/2-A	Lab Control Sample	Total/NA	Water	3020A	14
MB 480-206584/1-A	Method Blank	Total/NA	Water	3020A	15

Analysis Batch: 206893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-68653-1	Sump 4-100614	Total/NA	Water	6020A	206584
480-68653-1 MS	Sump 4-100614 MS	Total/NA	Water	6020A	206584
480-68653-1 MSD	Sump 4-100614 MSD	Total/NA	Water	6020A	206584
480-68653-2	Sump 4 DUP-100614	Total/NA	Water	6020A	206584
LCS 480-206584/2-A	Lab Control Sample	Total/NA	Water	6020A	206584
MB 480-206584/1-A	Method Blank	Total/NA	Water	6020A	206584

Analysis Batch: 206924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-68653-1	Sump 4-100614	Total/NA	Water	6010C	206499
480-68653-1 MS	Sump 4-100614 MS	Total/NA	Water	6010C	206499
480-68653-1 MSD	Sump 4-100614 MSD	Total/NA	Water	6010C	206499
480-68653-2	Sump 4 DUP-100614	Total/NA	Water	6010C	206499
LCS 480-206499/2-A	Lab Control Sample	Total/NA	Water	6010C	206499

Analysis Batch: 207036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-206499/1-A	Method Blank	Total/NA	Water	6010C	206499

Lab Chronicle

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltift) - 30130

TestAmerica Job ID: 480-68653-1

Client Sample ID: Sump 4-100614

Lab Sample ID: 480-68653-1

Matrix: Water

Date Collected: 10/06/14 07:40

Date Received: 10/06/14 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	206312	10/07/14 12:47	CDC	TAL BUF
Total/NA	Prep	3510C			206491	10/08/14 05:59	MRB	TAL BUF
Total/NA	Analysis	8270D		1	207108	10/10/14 16:22	DMR	TAL BUF
Total/NA	Prep	3005A			206499	10/08/14 08:55	SLB	TAL BUF
Total/NA	Analysis	6010C		1	206924	10/08/14 18:30	AMH	TAL BUF
Total/NA	Prep	3020A			206584	10/08/14 12:36	SLB	TAL BUF
Total/NA	Analysis	6020A		1	206893	10/09/14 07:38	MTM2	TAL BUF
Total/NA	Prep	7470A			206295	10/07/14 08:00	LRK	TAL BUF
Total/NA	Analysis	7470A		1	206395	10/07/14 13:05	LRK	TAL BUF

Client Sample ID: Sump 4 DUP-100614

Lab Sample ID: 480-68653-2

Matrix: Water

Date Collected: 10/06/14 07:55

Date Received: 10/06/14 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	206312	10/07/14 14:02	CDC	TAL BUF
Total/NA	Prep	3510C			206491	10/08/14 05:59	MRB	TAL BUF
Total/NA	Analysis	8270D		1	207108	10/10/14 16:49	DMR	TAL BUF
Total/NA	Prep	3005A			206499	10/08/14 08:55	SLB	TAL BUF
Total/NA	Analysis	6010C		1	206924	10/08/14 18:44	AMH	TAL BUF
Total/NA	Prep	3020A			206584	10/08/14 12:36	SLB	TAL BUF
Total/NA	Analysis	6020A		1	206893	10/09/14 08:11	MTM2	TAL BUF
Total/NA	Prep	7470A			206295	10/07/14 08:00	LRK	TAL BUF
Total/NA	Analysis	7470A		1	206395	10/07/14 13:11	LRK	TAL BUF

Laboratory References:

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

Certification Summary

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alllift) - 30130

TestAmerica Job ID: 480-68653-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-15

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

TestAmerica Buffalo

Method Summary

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltift) - 30130

TestAmerica Job ID: 480-68653-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
6020A	Metals (ICP/MS)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF

Protocol References:

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: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltift) - 30130

TestAmerica Job ID: 480-68653-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-68653-1	Sump 4-100614	Water	10/06/14 07:40	10/06/14 13:30
480-68653-2	Sump 4 DUP-100614	Water	10/06/14 07:55	10/06/14 13:30

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

TestAmerica Buffalo

Login Sample Receipt Checklist

Client: Honeywell International Inc

Job Number: 480-68653-1

Login Number: 68653

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl M

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.	True	
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	OMI
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

APPENDIX G

SITE INSPECTION FORMS

Site Inspection Form

Site Name: Alltift

Project Number: 30130

Date: 6/3/2014

Yes	No	N/A
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

A. Security

1. Does fence exist? _____
2. Is there a breach in fence? _____
3. Locks on gate? _____
4. Posted signs? NO Tresspassing
5. Signs of trespassers/vandalism? _____
6. Other _____

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

B. General Site Conditions

1. Vegetation stress? _____
2. Mowing required? _____
3. Access road drivable? _____
4. Odors? _____
5. Other _____

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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 _____

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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 _____

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------	--------------------------

E. Methane Gas Control

1. Does one exist? _____

Site Inspection Form

Yes No N/A

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2. Is system active or passive? Passive
3. Permanent methane gas probes? _____
4. Locks on monitoring wells? _____
5. Vents in working order? 1
6. Well seals in place? _____
7. Methane levels within LEL limits? _____
8. Monitoring reports current?
9. Other _____

F. Leachate Collection System

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------	--------------------------

1. Does one exist? _____

2. Collection method:

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

- a. Sump? 2
- b. Well point? _____
- c. Earthen basin/pond? _____
- d. Structure secured? _____
- e. Other _____

3. Pumping system:

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

- a. Automatic? _____
- b. Manual? _____
- c. Mechanically operable? _____
- d. Leaks/failures? _____

4. Disposals:

<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

- a. Onsite pretreatment/treatment? _____
- b. Surface discharge? (NPDES/SPDES) _____
- c. POTW – hardpiped? _____
- d. Quick disconnect caps in place? _____

5. Transportation (if any):

<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- a. Chemicals? _____
- b. Filter cake? _____

6. Ancillary equipment in good condition? (Pipes, valves, pumps, vaults, instruments and etc.) Refer to general Comments

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------	--------------------------

7. Monitoring reports current? _____

8. Other _____

G. Groundwater Monitoring & Recovery Wells (if any)

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

Site Inspection Form

J. General Comments

The force main was lanced on May 29th and May 30th. We properly installed plug and end caps on the inch and half man made cleanouts. We Contacted OP Tech to remove sediment from lift station on June 3rd. On June 3rd, 2014, We met with Op-Tech to muck out lift station. Visually and physically verified that all the cleanouts on the force main were tightly sealed, as depicted below. The wetland Level at 2.4 feet.





CH2MHILL

Site Inspection Form

Site Name: Alltift
Project Number: 30130
Date: 8/21/2014

Weather: Sunny and 75 degrees
Assessment by: John Formoza

<u>Yes</u>	<u>No</u>	<u>N/A</u>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

A. Security

1. Does fence exist? _____
 2. Is there a breach in fence? _____
 3. Locks on gate? _____
 4. Posted signs? NO Tresspassing
 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 _____

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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 _____

Three square boxes for marking responses.

E. Methane Gas Control

1. Does one exist? _____



Site Inspection Form

Yes No N/A

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2. Is system active or passive? Passive
3. Permanent methane gas probes? _____
4. Locks on monitoring wells? _____
5. Vents in working order? 1
6. Well seals in place? _____
7. Methane levels within LEL limits? _____
8. Monitoring reports current?
9. Other _____

F. Leachate Collection System

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

1. Does one exist? _____
2. Collection method:
 - a. Sump? 2
 - b. Well point? _____
 - c. Earthen basin/pond? _____
 - d. Structure secured? _____
 - e. Other _____

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

3. Pumping system:
 - a. Automatic? _____
 - b. Manual? _____
 - c. Mechanically operable? _____
 - d. Leaks/failures? _____

<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

4. Disposals:
 - a. Onsite pretreatment/treatment? _____
 - b. Surface discharge? (NPDES/SPDES) _____
 - c. POTW – hardpiped? _____
 - d. Quick disconnect caps in place? _____

<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

5. Transportation (if any):
 - a. Chemicals? _____
 - b. Filter cake? _____
6. Ancillary equipment in good condition? (Pipes, valves, pumps, vaults, instruments and etc.)

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------	--------------------------

7. Monitoring reports current? _____
8. Other _____

G. Groundwater Monitoring & Recovery Wells (if any)

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

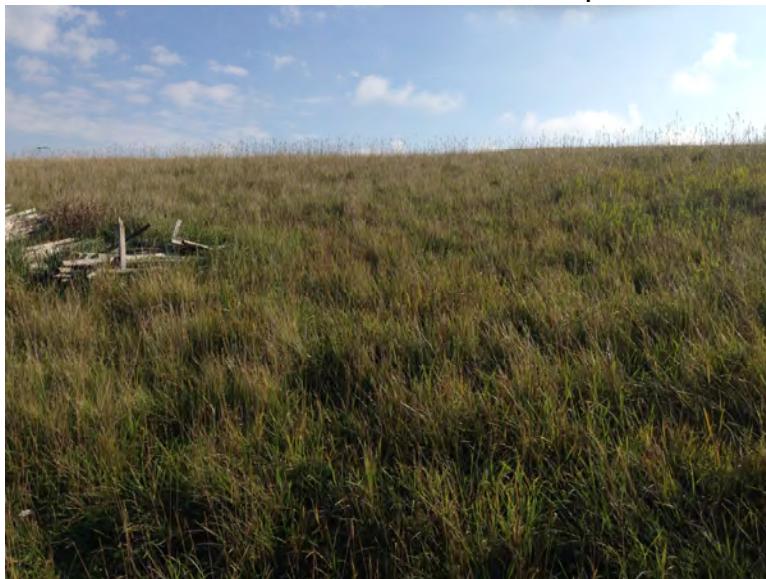
Site Inspection Form

J. General Comments

BSA onsite for annual site visit. Also Mark Sweitzer from Honeywell onsite for site visit.



Site Inspection Form





CH2MHILL

Site Inspection Form

Site Name: Alltift

Project Number: 30130

Date: 10/06/2014

Weather: Overcast cool morning giving way to sunshine temperature in the upper 50's.

Assessment Patrick Higgins and Mike Stout

Yes	No	N/A
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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 _____

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2. Is system active or passive? active
 3. Permanent methane gas probes? _____
 4. Locks on monitoring wells? _____
 5. Vents in working order? 1
 6. Well seals in place? _____
 7. Methane levels within LEL limits? March 2014 noted in operation journal
 8. Monitoring reports current?
 9. Other

F. Leachate Collection System

A 3x3 grid of nine empty square boxes, intended for children to draw or color in.

1. Does one exist? _____
 2. Collection method:
 - a. Sump?
 - b. Well point? _____
 - c. Earthen basin/pond? _____
 - d. Structure secured? _____
 - e. Other _____

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

3. Pumping system:

 - a. Automatic? _____
 - b. Manual? _____
 - c. Mechanically operable? _____
 - d. Leaks/failures? _____

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- a. Onsite pretreatment/treatment? _____
 - b. Surface discharge? (NPDES/SPDES) _____
 - c. POTW – hardpiped? _____
 - d. Quick disconnect caps in place? _____

- 5. Transportation (if any):**

<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

6. Filter cake? _____

100

- ### **7. Monitoring reports current?**

G. Groundwater Monitoring & Recovery Wells (if any)

A grid of 15 empty square boxes arranged in three columns of five. The first column contains five boxes, the second column contains five boxes, and the third column contains five boxes.

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 _____



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Site Inspection Form

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)

A 3x5 grid of 15 empty square boxes for marking responses.

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)? _____

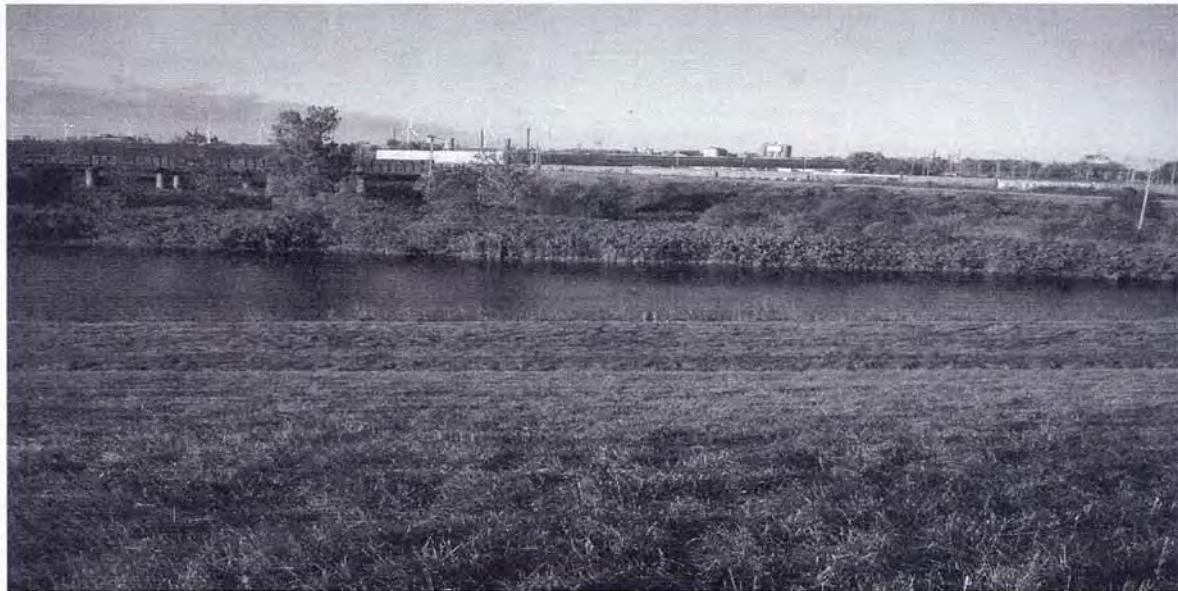
J. General Comments

October 6th, 2014: Mike Stout and Pat Higgins on site to sample Collection GWCT #4 and the BSA lift station. Manual measured water levels of PZ wells and noted measurements in Alltiff operation journal. There are photographs on page 4.

Patrick C. Higgins 10/10/2014



Site Inspection Form





Site Inspection Form

Site Name: Alltift

Weather: Overcast Cold 20 degrees Fahrenheit with breeze

Project Number: 30130

Assessment by: James Haas and Robert Davies and Wisam Aljohar

Date: 1/20/2015

<u>Yes</u>	<u>No</u>	<u>N/A</u>
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<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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 _____

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B. General Site Conditions

1. Vegetation stress? Snow covered
 2. Mowing required? _____
 3. Access road drivable? Drifting Snow
 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 _____

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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
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<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2. Is system active or passive? active
3. Permanent methane gas probes? _____
4. Locks on monitoring wells? _____
5. Vents in working order? 1
6. Well seals in place? _____
7. Methane levels within LEL limits?
8. Monitoring reports current?
9. Other _____

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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F. Leachate Collection System

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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1. Does one exist? _____

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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2. Collection method:

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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- a. Sump? 2
- b. Well point? _____
- c. Earthen basin/pond? _____
- d. Structure secured? _____
- e. Other _____

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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3. Pumping system:

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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- a. Automatic? _____
- b. Manual? _____
- c. Mechanically operable? _____
- d. Leaks/failures? _____

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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4. Disposals:

<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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- a. Onsite pretreatment/treatment? _____
- b. Surface discharge? (NPDES/SPDES) _____
- c. POTW – hardpiped? _____
- d. Quick disconnect caps in place? _____

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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5. Transportation (if any):

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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- a. Chemicals? _____
- b. Filter cake? _____

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6. Ancillary equipment in good condition? (Pipes, valves, pumps, vaults, Instruments and etc.) _____

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7. Monitoring reports current? _____

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8. Other _____

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- a. Chemicals? _____
 - b. Filter cake? _____
6. Ancillary equipment in good condition? (Pipes, valves, pumps, vaults, Instruments and etc.) _____

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7. Monitoring reports current? _____

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G. Groundwater Monitoring & Recovery Wells (if any)

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1. Locks on wells? _____

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2. Wells in good condition? _____

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3. Well seals in good condition? _____

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4. Access to wells? _____

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5. Monitoring reports current? _____

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Site Inspection Form

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

On January 20th, 2015, Robert Davies, Wisam Aljohar, and James Haas were on site.

James Haas and Robert Davies manually measured the depths to water at p2 wells, observation ports and collection sumps. Wisam, Robert, and James completed visual walk through and verified there were no mechanical issues.



CH2MHILL

Site Inspection Form





Site Inspection Form





Site Inspection Form

