HONEYWELL BRUNSWICK
CAUSTIC BRINE POOL OFFSITE/ONSITE TREATMENT EVALUATION REPORT

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EXECUTIVE SUMMARY

The former LCP facility (Site) in Brunswick, Georgia (Figure 1) has a caustic brine pool (CBP) groundwater beneath a portion of the Site. CBP groundwater is characterized by high pH; elevated levels of total dissolved solids (TDS) and silica; natural organic material (NOM); and the presence of metals including mercury (Hg). Based on aerial pH measurements from 2005 and in consideration of the potential range of surficial aquifer porosity, the CBP volume was estimated to range from 10 million to 25 million gallons (EPS, 2011; see Appendix A).

On April 18, 2007, Honeywell and the United States Environmental Protection Agency Region 4 (EPA) entered into an Administrative Settlement Agreement and Order on Consent (AOC). Section VIII (Work to be Performed) of the AOC identifies two removal action objectives: (1) reducing pH of the CBP to between 10.0 standard units (s.u) and 10.5 s.u., and (2) reducing the density of the CBP. In order to meet the objectives of the AOC, Honeywell installed a CBP groundwater extraction, treatment and infiltration system. After the current onsite treatment system experienced operational difficulties, a work plan (CH2M Hill and EPS, 2011) was developed to evaluate offsite and onsite treatment of extracted CBP groundwater.

Offsite Treatment Summary

CBP offsite treatment was pilot tested using the existing basic infrastructure at the Site. Three criteria were set by the offsite treatment facility (Water Recovery, Inc. (WRI), Jacksonville, FL) for accepting the groundwater, which included:

- Maximum volume to be shipped was 40,000 gallons per week;
- Mercury concentrations (characteristically non-hazardous) below 200 µg/L; and
- The pH level below 12.5 s.u. (characteristically non-hazardous).

Honeywell contracted with Environmental Planning Services (EPS) and WRI for a pilot treatability test involving a routine volume of CBP extraction and treatment. This pilot test proposed to operate the extraction wells according to the standard onsite operational work week, to generate between 20,000 to 40,000 gallons of CBP wastewater each week for treatment at WRI. EPA periodically reviewed WRI's operational effluent data and provided periodic certification of the facility for the treatment of the CBP wastewater.

Offsite Treatment Results

The pilot-scale test of offsite treatment was successful in terms of meeting the desired goals including the ability to: (1) consistently generate a non-hazardous wastewater while pumping from all wells in the network; (2) extract between 20,000 to 40,000 gallons per week; and (3) treat the CBP wastewater at an offsite facility to within the facility's permitted effluent characteristics. This operation was performed with one onsite operator working a four-day ten-hour (forty-hour) workweek. Table 2 provides a summary of the shipping dates and weekly CBP volume tally achieved during the pilot program. The approximate cost for offsite treatment is $0.36/gallon.

Onsite Treatment Evaluation Summary

CBP groundwater samples were collected from a composite of twelve CBP extraction wells as well as an individual sample from extraction well EW-6 (Figure 2). CBP groundwater from extraction well EW-6 is representative of a highly impacted area of the CBP. The following conventional treatment technologies were considered:

- Chemical precipitation / clarification;
- Filtration;
- Sludge dewatering; and
- Activated carbon adsorption.

Parsons contracted with two vendors specializing in wastewater treatment (Siemens and WesTech) to conduct bench-scale treatment testing of composited CBP groundwater. The objectives of treatability testing were the following:

- Test a range of conventional treatment techniques for pH reduction and to evaluate removal effectiveness for constituent dissolved solids including the metals Hg, As, and Cr; and
- Characterize the sludge resulting from the most promising treatment application including solids generation rates, sludge dewatering, and analysis of metals in extract from the toxicity characteristic leaching procedure (TCLP).

Siemens and WesTech both tested a range of treatment alternatives based on chemical precipitation. Testing proceeded through the following steps:

- Initial pH adjustment with sulfuric acid (H_2SO_4);
- Addition of chemical coagulant (e.g., Ferric chloride ($FeCl_3$), Alum) or combination of coagulant and reducing agent (e.g., $FeCl_3$ + sodium sulfide (Na_2S)); and
- Final pH readjustment using either sodium hydroxide (NaOH) or lime.

Testing also included filtration across a range of media sizes from 0.1 – 10 microns (µm), as well as contact with activated carbon. Upon determination of the most promising single-stage chemical/physical treatment, each vendor was requested to apply a "two-stage-treatment" by which the chemical treatment step was repeated on decanted supernatant following the initial treatment of the composite CBP sample.

Parsons also conducted in-house treatability testing including limited chemical precipitation treatability testing as a quality check and to augment the data collected by the treatment equipment vendors.

Table ES-1 presents the most promising conventional treatment results obtained from vendor optimized treatability testing. The following summary of observations is based on the results of tests by the two vendors and Parsons in-house treatability testing:

Table ES-1. Results from Optimized Bench-Scale Treatment Tests

Vendor	Process Description[1]	Overall Coagulant Dose[2]	Treated Concentration (mg/L)			Dewatered Sludge[3]	
			Mercury	Arsenic	Chromium	% Dry Solids	Ton [4]
--	Untreated Composite (EFF) Sample	--	0.25	0.13	0.62	--	--
Siemens	pH 4.5/$FeSO_4$ /Lime (pH 9)	500 mg/L	0.053	<0.05	0.12	--	--
	pH 4.5 / $FeSO_4$ / Lime – Double Treatment	1,000 mg/L	0.039	0.021	0.039	14	1,800
	pH 4.5 / $FeCl_3$ / Lime/ GAC	500 mg/L	0.036	--	0.11	--	--
WesTech	$MgCl_2$ / pH 5.0 / $FeCl_3$ + Na_2S/ Lime (pH 9)	1,000 mg/L	0.055	0.058	0.18	--	--
	$MgCl_2$ / pH 5.0 / $FeCl_e$ + Na_2S/ Lime (pH 9) - Double Treatment	2,000 mg/L	0.024	0.016	<0.10	24	2,740

[1] Supernatant from all treatments filtered at 1.5 µm prior to analysis

[2] Not including lime

[3] Sludge non-hazardous based on TCLP metals results for all treatments tested

[4] Based on treatment of 25 MG of CBP groundwater and pre-settled TSS following chemical treatment

The following is a summary of the results:

- Conventional chemical treatment followed by gravity and pressure filter separation techniques for the composited CBP groundwater achieved the following effluent concentrations:
  - Mercury concentrations ranging from 0.024 – 0.039 milligrams per liter (mg/L) from an initial concentration of 0.25 mg/L;
  - Arsenic concentrations ranging from 0.016 to 0.021 mg/L from an initial concentration of 0.13 mg/L; and
  - Chromium concentrations ranging from 0.039 – 0.1 mg/L from an initial concentration of 0.62 mg/L .
- The most promising chemical precipitation tests involved application of an iron-based coagulant at a pH of 4.5 – 5.0 s.u. followed by readjustment of pH using lime.

- Filtration of supernatant following chemical treatment using a media size below 1.5 µm did not provide a significant improvement in removal of metals.
- Parsons obtained similar levels of arsenic and chromium removal using similar types of chemical precipitation treatments, and slightly lower mercury removal rates.
- It is anticipated that approximately 30% to 50% additional removal of mercury may be possible, depending on the pretreated effluent quality and GAC loading, from two-stage chemical precipitation pretreatment followed by activated carbon adsorption.
- It is estimated that approximately 2,000 – 3,000 tons of dewatered sludge would result from treatment of 25 million gallons of CBP volume. Dewatered sludge would likely be classified as non-hazardous based on metals TCLP analyses on dewatered sludge generated from the most promising vendor treatment tests.

Honeywell currently has no information regarding potential direct or indirect discharge standards of onsite treated CBP groundwater. Based on experience with the treatment and direct discharge of similar groundwater, it is anticipated that a National Pollutant Discharge Elimination System (NPDES) direct discharge permit would likely include a discharge limit for mercury that would be unachievable based on the results obtained from these treatability studies. In addition the treated groundwater may be colored and would likely contain levels of other dissolved solids-related metallic constituents that would be above NPDES permit limits as well as EPA and Georgia Environmental Protection Division (EPD) coastal and estuarine ambient water quality standards.

These concerns were considered in the conceptualization of an onsite treatment system as follows:

- A conceptual treatment system design incorporating conventional chemical/physical treatment processes including two-stage chemical precipitation, filtration, solids dewatering, and GAC adsorption was developed based on the most promising vendor conventional treatability test results.
- Until direct discharge limits for regulated parameters are determined, it is presumed that effluent from an onsite treatment system would need to be sent to an offsite facility for additional treatment.

Table ES.2 summarizes the unit processes and ancillary systems that might comprise an onsite CBP groundwater treatment system based on the most promising conventional treatment test results. The conceptual treatment system would require the purchase of all new equipment installed in a dedicated, newly-constructed, pre-engineered treatment system building with integral secondary containment (see Figure 9).

The planning-level (±50%) capital and O&M costs for the proposed treatment system are summarized in Table ES-3 (see Appendix D). Potential costs associated with permit compliance are not included in this estimate.

Table ES.2. Conceptual Onsite Treatment System (Unit Processes and Ancillary)

Two-Stage Chemical Treatment System
• CBP extraction and conveyance (existing) • Influent equalization • Two-stage chemical treatment • Pre-GAC bag filtration • GAC adsorption • Post-GAC bag filtration • Effluent holding, reuse, and discharge • Plant water supply system • Process sump • Sludge holding / gravity thickening tank • Plate-and-frame filter press with offsite dewatered solids disposal • Ancillary chemical storage, containment, and metering • Polymer make-up and dosing

Table ES.3. Treatment System Planning-Level (±50%) Cost Estimate Summary

Capital Cost	Annual O&M Cost	Overall Unit Treatment Cost ($/gal)[(1)]
$16,000,000	$1,300,000	$1.20 - $2.20

[(1)] Based on treatment of 10 million – 25 million gallons (low end – high end of unit cost range)

Recommendations

The offsite treatment pilot test of the CBP groundwater has demonstrated that this is a viable approach for treatment of high pH and high TDS groundwater. Consistent pumping rates and volumes from each extraction well during the pilot test have produced a characteristic non-hazardous composite liquid for offsite transport and treatment.

Onsite treatment of the CBP groundwater poses significant challenges that include complications associated with securing a NPDES or other direct discharge permit to the estuary; potential inability to meet future direct discharge permit limits for one or more parameters; and significant capital costs. The sludge generated from the onsite treatment would have to be transported offsite for disposal at a regional landfill in Savannah, Georgia. Additionally, due to discharge uncertainties, treated effluent will likely require additional transport and treatment offsite.

Honeywell recommends that the current offsite treatment of the extracted CBP groundwater at 20,000 to 40,000 gallons per week be continued and that the CBP aquifer be monitored on a quarterly basis with groundwater sampled from a select group of monitoring wells and extraction wells. The proposed quarterly sampling of the CBP monitoring and extraction wells would include analyses for TAL metals, TDS, total suspended solids, pH, chemical oxygen demand, and silica. Honeywell will provide quarterly CBP monitoring reports to document the changes in pH and density of the CBP.

SECTION 1

INTRODUCTION

1.1 TERMS OF REFERENCE

In response to EPA's letter dated November 1, 2010, Honeywell has investigated two primary options for the management of CBP recovered groundwater with the ultimate goal of reducing the pH and density of the CBP. Evaluated options include: (1) offsite treatment at a permitted centralized waste water treatment plant; and (2) onsite treatment and discharge. For both of these overall options, treatment evaluations have considered treatment of constituent dissolved solids and other compounds that might cause a regulatory or materials management concern associated with the extracted CBP groundwater.

Environmental Planning Services (EPS), on behalf of Honeywell, prepared the offsite treatment evaluation. Parsons, on behalf of Honeywell, prepared the onsite CBP treatment evaluation. The data and results from both evaluations are provided in this report.

1.2 BACKGROUND

The Site is located at 4125 Ross Road in Glynn County in Brunswick, Georgia and encompasses approximately 813 acres, of which approximately 684 acres is tidally influenced salt marsh (estuary). The industrialized 70-acre upland portion of the Site is located east of the estuary. The Site is bounded by the estuary to the west, which includes Purvis Creek which discharges to the Turtle River (Figure 1).

Manufacturing operations included caustic soda (sodium hydroxide) production occurred from 1956 until 1994. As a result of historical manufacturing activities, a "caustic brine pool" of impacted groundwater exists in the upper surficial aquifer. The CBP groundwater is characterized by elevated pH, elevated total dissolved solids (TDS), and several heavy metals. The high groundwater pH resulted from the release of sodium hydroxide and brine into the sandy subsurface soils which resulted in the dissolution of silica at elevated concentrations. Mercury was used in the chemical process and has been detected at elevated levels in the CBP. Remediation of the site is conducted under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

In April 2009, Honeywell submitted a "Basis of Design" report to the regulatory agencies and following approval from the EPA in 2009, constructed a CBP groundwater extraction system, neutralization unit, and infiltration galleries. Subsequent to operational challenges associated with the infiltration galleries, Honeywell developed a *Work Plan for the Development, Design, and Implementation of Conventional Treatment Measures to Enhance the Existing Caustic Brine Pool (CBP) Remedy at the LCP Chemicals Site*, "Work Plan" (CH2M Hill and EPS, April 2011) to evaluate both offsite and onsite treatment options for the CBP groundwater.

1.3 CBP VOLUME ESTIMATION

The estimation of the CBP volume is directly related to the variability of the porosity of the surficial aquifer and the level of pH used to evaluate the areal and vertical extent of the CBP. Based on 2005 areal pH measurements and in consideration of the potential range of surficial aquifer porosity, the CBP volume is estimated to range from 10 million to 25 million gallons (EPS, 2011; see Appendix A).

1.4 DOCUMENT ORGANIZATION

This report is organized into four additional sections to describe and document both the offsite and onsite options:

- Section 2.0 – Scope of Work for both the offsite treatment evaluation and the onsite conventional treatment evaluation
- Section 3.0 – The results for both the offsite evaluation and onsite evaluation
- Section 4.0 – Possible treatment options for both offsite and onsite treatment
- Section 5.0 – Discussion and Recommendations for Path Forward

Tables, figures and appendices are provided at the end of the text. The following appendices are included:

- Appendix A – Estimation of CBP Volume
- Appendix B – Offsite CBP Treatment Pilot Test Results
  - Appendix B1 –CBP Extraction Well Logs
  - Appendix B2 – Offsite Pilot Test CBP Profile Groundwater Analytical Data
  - Appendix B3 – JEA Discharge Permit for WRI and WRI Project Report
- Appendix C – Onsite CBP Treatability Testing Data
  - Appendix C1 – Initial CBP Groundwater Analytical Data
  - Appendix C2 – Siemens Onsite CBP Treatability Testing Data Report
  - Appendix C3 – WesTech Onsite CBP Treatability Testing Data Report
  - Appendix C4 – Parsons Onsite CBP Treatability Testing Data
- Appendix D – Onsite CBP Treatment System Planning-Level Cost Estimate Breakdown and Backup

SECTION 2

SCOPE OF WORK

2.1 OVERVIEW

This section highlights the objectives and technical approaches for evaluating the offsite treatment and onsite treatment alternatives for managing CBP fluid using conventional treatment described in the April 2011 Work Plan (CH2M Hill and EPS, April 2011).

2.2 OFFSITE TREATMENT EVALUATION

A pilot study was performed by EPS in conjunction with Water Recovery, LLC (WRI) to evaluate the operational feasibility of collecting, storing, transporting, and treating the CBP fluid. The objectives of the pilot study include the following:

1. Optimize operation of existing CBP extraction wells to ensure that a composite bulk liquid is below hazardous thresholds;
2. Confirm the ability of WRI to accept and treat accumulated bulk liquid following confirmation that the accumulated liquid remained below hazardous thresholds; and
3. Identify bottlenecks among the various phases of collection, accumulation, testing of bulk accumulated liquid, transport and acceptance by WRI for treatment.

2.3 ONSITE TREATMENT EVALUATION USING CONVENTIONAL TECHNOLOGIES

The April 2011 Work Plan described development of a conceptual approach for onsite treatment of CBP fluid including expected removal efficiencies of various constituents and characterization of solid phase reaction products. The following sections describe the technical approach that was followed to achieve these primary objectives:

1. Treatability testing of CBP fluid; and
2. Conceptualization of an onsite treatment system.

2.3.1 Treatability Testing

The objectives of treatability testing are the following:

1. Determine efficacy of conventional treatment technologies for removal of dissolved solid constituents identified in the Work Plan including metals, silica, and natural organic material (NOM);
2. Develop a potential treatment process through refinement of the most promising conventional treatment methodologies for removal of dissolved solid constituents; and
3. Characterization of sludge generated from refined conventional treatment approach.

To meet the treatability testing objectives, Parsons contracted with two wastewater treatment system equipment vendors, (i.e. Siemens (Warrendale, PA) and WesTech (Salt Lake City, UT))

to recommend possible alternatives to develop a practical onsite conventional treatment process. The conventional technologies included chemical precipitation / clarification, filtration, sludge dewatering and activated carbon adsorption. The vendors were also tasked with providing recommended equipment selections for treatment of the CBP based on their test results and extensive industrial; experience. Parsons also conducted limited supplemental in-house treatability tests utilizing conventional treatment techniques to provide a quality check for the vendor treatability studies and to augment the information from the vendors' studies.

2.3.2 Conceptual Engineering

A conceptual design and planning-level cost estimate was developed for a possible onsite CBP groundwater treatment system utilizing the conventional treatment technologies. The conceptual design was based on vendor treatability test results, recommended equipment selections, and Parsons' experience designing similar types of treatment systems.

SECTION 3

RESULTS

3.1 OFFSITE TREATMENT EVALUATION RESULTS

3.1.1 Background

The first treatability test with WRI involved a single event test involving approximately 10,000 gallons of CBP fluid and was conducted in November 2010. For this test, the extraction wells were operated in a manner to extract an equal volume of CBP from each extraction well (approximately 750 gallons each) with the exception of well EW-6 (representative of highly concentrated CBP) where one-half the volume (approximately 375 gallons) was extracted. WRI conducted the treatability testing utilizing their existing equipment and all of the wastewater effluent parameters were within WRI's effluent discharge permit limits.

A broader-based treatability test employing the same basic approach was proposed in the *Work Plan for the Development, Design, and Implementation of Conventional Treatment Measures to Enhance the Existing Caustic Brine Pool (CBP) Remedy at the LCP Chemicals Site* (final revision dated April 4, 2011). This pilot test proposed to operate the extraction wells according to the standard onsite operational work week, to generate between 20,000 to 40,000 gallons of CBP wastewater each week for treatment at WRI. EPA periodically reviewed WRI's operational effluent data and provided periodic certification of the facility for the treatment of the CBP wastewater.

3.1.2 CBP Extraction and Bulk Tank Wastewater Testing

Operations for the WRI pilot test were initiated on June 8, 2011. The operations involved all 12 of the extraction wells, generating approximately 12,000 gallons of CBP wastewater which was directed into one of the two onsite holding tanks (**Appendix B1**). This bulk liquid was labeled "Influent #1" implying the first batch filling of the Influent Tank (one of the two onsite tanks). At the conclusion of the tank filling operation, a sample was obtained for testing of mercury and pH by TestAmerica in Savannah, Georgia (a State-certified laboratory) (**Appendix B2**). A field pH measurement was taken of the profile sample prior to shipment to TestAmerica Laboratories. The sample identification scheme included the use of a Julian date as a prefix with a sequential sample number (beginning at 001) and an "I" or "E" to indicate whether the sample came from the Influent or Effluent Tank at the site. **Table 1** provides a comprehensive summary of the volume of CBP extracted from the well network for each tank fill cycle conducted over the course of the pilot operation, along with the corresponding laboratory testing results for mercury and pH. The extraction well logs are provided in **Appendix B1**.

3.1.3 WRI Wastewater Treatment Operations

WRI processed the CBP groundwater as a mixed influent stream (with other wastewaters in their daily inventory) using treatment in accordance with the waste stream 3 designation in their

permit with JEA (Categorical Industrial User Discharge Permit #009) – "contaminated groundwater clean-up from non-petroleum sources" – which is derived from the EPA regulations for Centralized Wastewater Treatment (CWT) operations, 40 CFR 437.29(r). See page 1-2 of the JEA permit, provided in **Appendix B3**, for the waste stream Category 3 description. WRI receives other industrial wastewaters in the same CWT division that have an acidic pH, and thus the alkaline pH of the CBP wastewater is complimentary. Pretreatment requirements under the JEA permit for waste stream Category 3 is provided in page 1-3 of the permit. The operation applied to waste stream 3 does generate solids, which are periodically removed from tanks during cleaning and inspection.

3.1.4 Results

3.1.4.1 Yield Performance of CBP Extraction Wells

Step-drawdown pumping tests were performed after installation of the 12 extraction wells in the Fall of 2007 and wells were re-developed and re-tested from April 11 – 13, 2011, prior to initializing this pilot test. In both instances, the testing demonstrated that sustainable yield in the extraction wells varies from around 0.5 gallons per minute (gpm) to over 5 gpm. The table below shows the sustainable yield potential for each extraction well:

Well	Maximum Potential Yield (gpm)	Upper End of Operating Rate (gpm)	Drawdown at Operational Rate (ft)
EW-1	0.5	0.5	30
EW-2	10	5	< 25
EW-3	10	5	< 20
EW-4	10	5	< 15
EW-5	10	5	< 15
EW-6	0.5	0.5	30
EW-7	5	3	< 20
EW-8	10	5	< 15
EW-9	1	1	25
EW-10	10	5	< 15
EW-11	10	5	< 20
EW-12	0.5	0.5	35

3.1.4.2 Ability to Generate Non-hazardous Characteristic CBP Waste Stream

Extraction wells were sampled in June 2011 to provide a current condition of mercury concentration in the groundwater at each well. These data were used to empirically predict the mercury concentration in the bulk liquid within the tank. The goal was to extract a volume equivalent to two tanker trucks (about 11,000 gallons) in a workday, with sufficient time to obtain a sample from the tank, package the sample, and deliver the sample cooler to an overnight shipping provider prior to day end. The table below shows a typical pumping scenario applied during the pilot test:

Well	Mercury Concentration (ppb) June 2011	Pumping Rate (gpm)	Pumping Duration (hrs)	Quantity to Tank		Mercury Mass (µg)
				(gal)	(liters)	
EW-1	56	0.5	7.25	217.5	823	46,101
EW-2	110	4	7.25	1,740	6,586	724,449
EW-3	270	1	7.25	435	1,646	444,548
EW-4	210	1	7.25	435	1,646	345,760
EW-5	370	1	7.25	435	1,646	609,196
EW-6	820	0.5	7.25	217.5	823	675,055
EW-7	81	4	7.25	1740	6,586	533,458
EW-8	110	5	7.25	2175	8,232	905,561
EW-9	160	1	7.25	435	1,646	263,436
EW-10	110	5	7.25	2175	8,232	905,561
EW-11	160	2	7.25	870	3,293	526,872
EW-12	230	0.5	7.25	217.5	823	189,345
TOTALs				**11,093**	**41,985**	**6,169,342**
				Predicted Mercury Conc. (ppb):		**147**

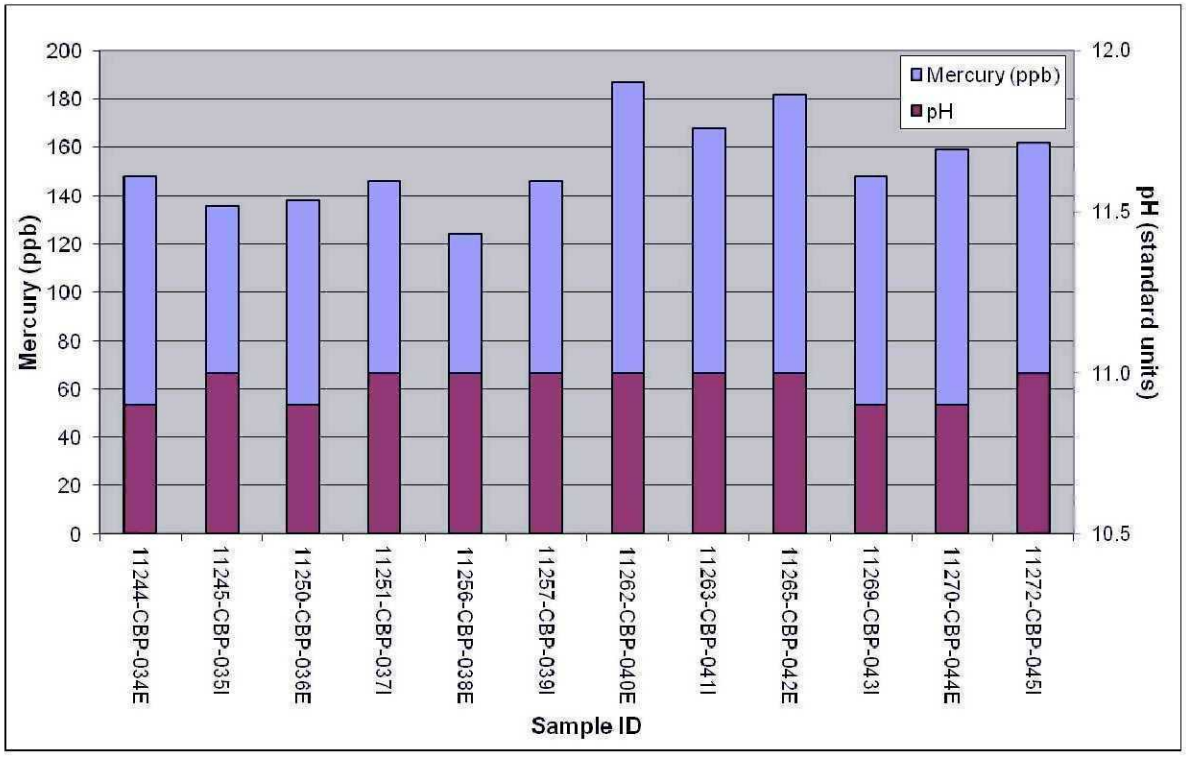
Table 2 provides the actual volumes pumped from each extraction well for each tank fill cycle, along with the corresponding laboratory test result for mercury and pH. The pilot project began in early June with pumping from all 12 extraction wells and filling into the Influent Tank (labeled on Table 1 as "Inf Tank #1). Influent Tank #1 had a sample result of 170 ppb mercury and 11.1 s.u. and thus it was suitable for shipping to WRI. The next extraction cycle (Effluent Tank #1), generated by pumping the extraction wells in the same manner, showed a mercury

concentration of 240 ppb with a 10.8 s.u. Approximately 800 additional gallons of CBP was extracted from two of the wells (with lower mercury concentration) and the tank was re-sampled, again showing a mercury concentration over 200 ppb. The second Influent Tank (#2) was also filled in the same manner as the first fill cycle, and this time the mercury concentration was exactly 200 ppb. Both of these results were unexpected based upon past operations and the first fill cycle of the Influent Tank. Influent Tank #2 was eventually brought to a condition under 200 ppb mercury through additional filling from select extraction wells. Effluent Tank #1 was subsequently split into the Influent Tank (Inf Tank #3) on July 12, 2011; data associated with the Effluent Tank was then identified as "Effluent Tank 1A" on Table 1 and with additional filling into the tank from select extraction wells, the bulk tank sample was tested to be 104 ppb mercury in the Effluent Tank 1A sample. The other portion of the original Effluent Tank #1 was placed into the Influent Tank and that tank filled to approximately 10,000 gallons, with a mercury result of 173 ppb.

During this unexpected variability of the mercury results, Honeywell involved an expert chemist (Dr. Rene Surgi with AESI) to evaluate these test results and supporting data packages. At the recommendation of Dr. Surgi, the first step in the evaluation process was to obtain multiple replicate samples from the same storage tank and submit the replicates to the TestAmerica lab. Replicates were collected following an extensive recirculation mixing of the tank content to ensure homogenization of the CBP contained in the tank, followed by sequential siphoning of CBP into five sample containers. A similar range of variability in the mercury results was discovered in the replicate sampling, thus attributing the issue to the laboratory as opposed to site variability. Tighter quality assurance controls related to sampling and analysis were put in place, which resolved the issue.

As a safeguard the system was operated in a manner without extraction from EW-5 and EW-6 (the two highest mercury concentration wells) in the mid-July time period immediately following the lab issues. After several tank fill cycles with a mercury concentration between about 120 – 140 ppb, one and then both of these extraction wells were subsequently brought online without creating any issues with respect to the mercury concentration.

By August 10, 2011 and extending through October 2011, the system was operated using all 12 extraction wells with mercury concentrations ranging between about 140 – 160 ppb (and with pH typically around 11 s.u.); the chart below illustrates the laboratory testing results for sequential samples collected throughout the month of September 2011:



3.1.4.3 Onsite Operations and Laboratory Testing

During the initial month of the pilot test, the intended goal of 20,000 to 40,000 gallons per week of CBP extraction and transport to WRI was not met. The laboratory variability experienced early in the program was a major cause of this early operational inefficiency. In addition, the laboratory turn-around time, which initially was two (2) days from date of sample receipt resulted in shipment delays. The team began expediting samples to the laboratory, which allowed for same day turn-around of the test results. With this simple change at the start of August, the operational efficiency instantly increased to about 30,000 gallons per week of CBP extraction and transport to WRI. During the month of August a total of 126,000 gallons of CBP was extracted and shipped to WRI. Productivity was further increased in the month of September with nearly 132,000 gallons of CBP extracted. The productivity in October matches that of September.

3.1.4.4 WRI Treatment

The following is a summary of the results of the WRI offsite treatment of the CBP (see **Appendix B3** for WRI's letter report):

- Incoming loads were sampled and fingerprint tested in WRI's laboratory to verify conformance with this materials approved waste profile;
- The material was accepted and unloaded for treatment and disposal;

- A flow proportional auto sampler was employed in accordance with WRI's monitoring requirement, to collect a composite sample for analysis by their contract NELAP Certified laboratory (Advanced Environmental Laboratories, Inc.); and
- All WRI's discharge permit parameters were in compliance.

WRI plant management and technical staff concur that their CWT is capable of treatment and disposal of the CBP on a routine and long-term basis from the LCP Brunswick site.

3.1.5 Pilot Program Summary

The pilot test of onsite extraction with offsite treatment was successful in demonstrating that the system can meet the desired goals of: (1) consistently generating a non-hazardous wastewater while pumping from all wells in the network; (2) extracting between 20,000 to 40,000 gallons per week; and (3) treating the CBP wastewater at an offsite facility in compliance with the facility's permitted effluent characteristics. This operation was performed with one onsite operator working a four-day ten-hour (forty-hour) workweek. Table 2 provides a summary of the shipping dates and weekly CBP volume tally achieved during the pilot program.

3.2 TREATABILITY TESTING FOR POSSIBLE ONSITE TREATMENT OPTION

Parsons contracted with Siemens (Warrendale, PA) and WesTech (Salt Lake City, UT) to determine potential effectiveness of chemical precipitation, filtration, sludge dewatering and activated carbon adsorption for reducing the pH and removing solid constituents from the extracted CBP groundwater. The dissolved solids removal included evaluating the effectiveness of various conventional treatment alternatives for Hg, As, and Cr. Parsons conducted limited supplemental in-house treatability tests to augment the data and provide a quality check for the vendor treatability studies. The results of the vendor and in-house treatability studies were applied to develop a possible onsite treatment strategy as one alternative for managing CBP groundwater and residuals pursuant to the AOC and EPA's letter dated November 1, 2010.

3.2.1 Treatability Test Samples

Each vendor was supplied with one (1) 55-gallon drum each of the following:

1. Composited CBP groundwater (from 12 operational extraction wells); and
2. Extraction well (EW-6) CBP groundwater only.

The composite groundwater (EFF) was comprised of various quantities of groundwater from each of the 12 operating extraction wells in proportion to their nominal pumping rates (Figure 2). The EW-6 sample represented a highly impacted area in the CBP with respect to various constituents and other characteristics that would likely affect treatment, including silica and bulk organic strength (as measured by chemical oxygen demand). **Table 3** summarizes the characteristics of the EFF and EW-6 samples, based on samples submitted by Parsons to Test America (Savannah, GA) except as noted (**Appendix C1**).

The majority of testing focused on treatability of the EFF sample as this was representative of the likely influent to an onsite treatment system. The most promising treatment of the EFF sample was then applied to the EW-6 sample. Treatability test reports from the vendors are provided in **Appendix C**.

3.2.2 Siemens Treatability Testing

Siemens utilized a standard jar test methodology, consisting of the following steps:

1. Rapid mix phase during which chemicals are added for pH adjustment, chemical precipitation/coagulation, or other reactions.
2. Slow mix phase to promote flocculation of solids to enhance settling.
3. Settling phase during which flocculent solids are allowed to settle.

3.2.2.1 Preliminary Test Phase

Siemens conducted an initial series of seventeen tests to narrow the focus of effective chemical treatment steps for removing dissolved solids including mercury, arsenic, and chromium. The tests generally included the following components:

- Initial pH adjustment (sulfuric acid)
- Removal (precipitation/co-precipitation) of metals
  - Ferric chloride ($FeCl_3$)
  - Alum ($KAl(SO_4)_2 \cdot 12(H_2O)$ "hydrated potassium aluminum sulfate"
  - Magnesium chloride ($MgCl_2$), mainly for removal of nuisance silica
- pH readjustment
  - Sodium hydroxide (NaOH)
  - Lime (Ca(OH)2), also specifically for targeting metals removal
- Supplemental organosulfide addition, specifically targeting mercury removal
  - TMT-15®
  - Nalco 8702®

Each preliminary chemical treatment test included the addition of polymer dosed at 1 – 2 parts per million (ppm). Supernatant from each test was filtered with 10 µm nominal media and analyzed for dissolved solids constituents including mercury, arsenic, and chromium. The specific test conditions and results for these target metals are summarized in **Table 4**. **Figure 3** visually presents the tabulated results. The following observations were documented for the planned follow-on physical-chemical treatment optimization:

1. Tests #13 and #14 provided the most promising chemical treatment results across all three metals (Hg, As, and Cr), and provided comparable performance with each other for all three metals. Test #14 differed from Test #13 only in the addition of the organosulfide TMT-15 after the addition of $FeCl_3$ and lime. Consequently the addition

of organosulfide TMT-15, after the $FeCl_3$ + lime chemical treatment process did not significantly improve removal of the three target metals.

2. Tests #3 and #15 provided similar levels of arsenic removal to those attained in Tests #13 and #14. Test #3 differed from Test #13 in the initially-adjusted pH for $FeCl_3$ precipitation (7.0 versus 4.5) and pH readjustment step (NaOH versus lime). Treated mercury and chromium concentrations were significantly higher in Test #3 versus Test #13, but whether this was due to association with filterable solids was not determined. Test #15 differed from Test #3 in the use of TMT-15 organosulfide. The application of TMT-15 did not appear to confer a significant benefit in Test #14 over Test #13 when the chemical precipitation / pH readjustment process was comprised of $FeCl_3$ + lime.
3. The most promising performance involved use of an iron salt ($FeCl_3$). A modification to Test #13 was considered for second round testing using $FeSO_4$ in place of $FeCl_3$ to test if possible improvements in chromium removal could be achieved along with similar mercury and arsenic removal to those observed with $FeCl_3$.

3.2.2.2 Second Test Series: Filtration and GAC Testing with Optimal Chemical Treatment

A second round of testing was designed to combine the selected chemical treatment conditions from preliminary testing with filtration at various filter media sizes and with adsorption with granular activated carbon (GAC) to ascertain potential performance along a typical physical-chemical treatment process train. The supernatant from selected chemical treatment tests was vacuum-filtered at 10, 1.5, 0.45, and 0.1 µm nominal pore sizes. An aliquot of sample following filtration at 1.5 µm nominal pore size was also passed through a GAC filter that provided approximately 10 minutes of activated carbon contact. In summary, each chemical pretreatment step listed in the first column, below was combined with each filtration process in the 2nd column, below:

Chemical Pretreatment Step	Filtration Step
• $FeCl_3$ + Lime • $FeCl_3$ + NaOH • $FeCl_3$ + NaOH + TMT-15 • $FeSO_4$ + Lime	• 10 µm • 1.5 µm • 0.45 µm • 0.1 µm • 1.5 µm + GAC

The specific chemical pretreatment test conditions and results from these tests are presented in **Table 5**. **Figure 4** illustrates the effect of filtration media size for the $FeCl_3$ + Lime treatment. **Figure 5** indicates that filtration at 1.5 µm provides some improvement in removal of target metals, with no significant improvement at finer media sizes. The lack of notable additional removal at finer media sizes compared to 1.5 µm may suggest association of metals with soluble fractions of the chemically-treated effluent. The remainder of substantial color further suggests

the persistence of soluble natural organic material (NOM). Parsons has experienced challenges in the past with low-level mercury treatment where the groundwater matrix contains elevated levels of NOM. In these data, the persistence of color and mercury after filtration at media sizes finer 1.5 µm may suggest that mercury is associated with the soluble NOM fraction in the CBP groundwater.

Figure 5 provides a comparison of the different chemical pretreatment alternatives after filtration at 1.5 µm. **Figure 3** suggests that the most promising mercury removal is achieved with either $FeCl_3$ + Lime or $FeSO_4$ + Lime, with nearly identical removals to 0.053 mg/L achieved (It should be noted that the equivalent doses of iron were slightly different since the dosing was in terms of iron salt (i.e., 500 mg/L as $FeCl_3$ or as $FeSO_4$); the actual iron doses with ferric chloride and ferrous sulfate were approximately 172 and 183 ppm as iron (Fe), respectively). Furthermore, $FeSO_4$ + Lime provided for the most promising removal of chromium, with a concentration of 0.12 mg/L achieved. However, arsenic removal was not as effective with either of these treatments as with $FeCl_3$ + NaOH, which is executed at a higher pH (7.0 versus 4.5).

Figure 6 illustrates the direct comparison of the different chemical treatments filtered at 1.5 µm nominal media size and passed through a granular activated carbon (GAC) filter with a 10-minute contact time. GAC applied to filtered supernatant from the $FeCl_3$ + lime chemical pretreatment was clearly more promising when compared to that from the other chemical pretreatment steps, with mercury and chromium concentrations down to 0.036 mg/L and 0.11 mg/L achieved, respectively. Although the most promising removal was achieved at these conditions ($FeCl_3$ + lime + GAC), the persistence of mercury at 0.036 mg/L may indicate passage of a fraction of the soluble NOM with which mercury may be associated. Overall, for the test conditions, GAC was shown to provide approximately 30% additional removal of mercury over chemical precipitation alone. More formal carbon testing would be required to determine optimal carbon adsorptive capacity. Although $FeSO_4$ + lime was not tested with GAC, the pre-GAC filtered concentrations from $FeSO_4$ + lime for both mercury and chromium were the lowest of all pre-GAC treatments.

3.2.2.3 Two-Stage Chemical Treatment and Sludge Analysis

Siemens was requested to perform a two-stage chemical treatment step in an attempt to improve metals removal through removal of additional NOM. $FeSO_4$ + lime was the selected chemical treatment process since this had provided the most promising overall performance of mercury and chromium treatment. To perform the two-stage treatment, the $FeSO_4$ + lime treatment was applied to composite CBP groundwater (EFF sample), including initial pH adjustment to 4.5; additional of 500 mg/L $FeSO_4$; addition of lime to pH 9; and addition of approximately 1 mg/L polymer. The $FeSO_4$ + lime treatment as previously described was then applied again to supernatant decanted from the 1st treatment. Analytical samples were pre-filtered at 1.5 µm prior to transfer into analytical containers.

Table 6 presents a comprehensive set of results from this treatment including sludge generation rates. Similar results following the 1st treatment were achieved as previous (Round 2 testing) for the $FeSO_4$ + lime treatment. The following summarizes the results achieved:

Parameter	Untreated (mg/L)	1st Treatment		1st + 2nd Treatments	
		Result (mg/L)	Removal (%)	Result (mg/L)	Removal (%)
Mercury	0.25	0.058	77%	0.039	84%
Arsenic	0.13	0.063	52%	0.021	84%
Chromium	0.62	0.10	84%	0.039	94%

Two-stage treatment achieved a similar overall removal of mercury (0.039 mg/L) as had single-treatment followed by GAC. Furthermore, arsenic and chromium concentrations were the lowest from any of the preceding tests.

Siemens characterized the sludge generated from this treatment. The characterization included sludge generation rate, sludge dewatering, and TCLP metals concentrations. Solids production was determined based on total suspended solids measurements following chemical treatments before sludge blanket settling. The sludge generated during Stage 1 treatment was dewatered using a laboratory scale filter press. The press chamber was two inches in diameter and 1.25 inches thick. The cake volume was 64 ml (0.00227 ft^3). The press was operated at 100 pounds per square inch (psi). Sludge generation and dewatering results are presented in **Table 6**.

A dry solids percentage of 14% was achieved. Although sludge from biological treatment systems typically achieve similar dewatering levels, the sludge from chemical precipitation systems processed through a filter press typically achieve higher levels of dry solids (less water). The reduction in dewatering may be due to the presence of silica in the precipitated material. Silica precipitant may have also presented challenges to filtering based on test observations.

Based on the total solids generation of approximately 2,500 mg/L and percent dry solids of 14% (Table 6), approximately 1,800 tons of sludge would be generated during treatment of 25 million gallons of CBP based on Siemens' results.

The dewatered sludge was submitted for TCLP metals. The sludge dewatering and TCLP results are presented in **Table 7**. In summary, the sludge generated from the selected treatment process was non-hazardous for TCLP metals. A similar result was achieved during previous testing by others. Based on vendor treatment results, the sludge does pass the paint filter press.

3.2.2.4 Sample EW-6

Siemens applied the two-stage chemical precipitation treatment process to the EW-6 sample. The results as presented in the Siemens treatability test report (**Appendix C2**) indicate that a mercury concentration of 0.25 mg/L (from an initial concentration of 1.09 mg/L) is achievable via the most promising chemical treatment strategy evaluated. Arsenic and chromium were treated to 0.079 mg/L (from 0.53 mg/L) and 0.051 mg/L (from 0.18 mg/L), respectively. This represents respective removal efficiencies of 78%, 85%, and 72% for mercury, arsenic and chrome.

3.2.3 WesTech Treatability Testing

WesTech evaluated a number of chemical dosing strategies in a similar manner to Siemens using standard jar test methodology. The initial round of tests performed by WesTech utilized qualitative analyses (i.e., visual and filterability) to narrow the range of feasible treatment options. The initial round of tests focused on various applications of sulfuric acid, ferric chloride, sodium sulfide (Na_2S), and polymer augmentation.

3.2.3.1 Preliminary and Formal Chemical Treatment Testing

Based on the qualitative results obtained from the initial set of tests, a formal set of tests were performed to collect data on removal efficiencies of mercury, arsenic, and chromium. The following summarizes the general chemical treatment components tested by WesTech:

- Initial silica removal: $MgCl_2$
- pH adjustment: H_2SO_4
- Removal (precipitation/co-precipitation) of target metals:
  - $FeCl_3$
  - $FeCl_3$ + Na_2S (sodium sulfide)
- pH readjustment:
  - Sodium hydroxide (NaOH)
  - Lime, also specifically for targeting metals removal
- Filtration at 1.5 µm nominal pore size

The specific test conditions and results obtained from these tests are presented in **Table 8**. The visual comparison provided in **Figure 7** clearly indicates the most promising removal of all three metals was achieved with $FeCl_3$ + Na_2S + lime. As with testing performed by Siemens, the most promising performance was achieved when an iron coagulant was coupled with lime for pH readjustment. Similar removals of all three metals were achieved particularly when the final pH was 9.0 s.u. WesTech encountered filtering difficulties with the decanted supernatant following settling, although a polymer was found that appeared to improve filterability.

3.2.3.2 Double-Chemical Treatment and Sludge Analysis

WesTech was requested to perform a two-stage chemical treatment step implementing the $MgCl_2$ / $FeCl_3$ + Na_2S + lime treatment process in an attempt to improve target metals concentrations. The test was performed similarly to that performed by Siemens except for the specific chemical treatment conditions implement. **Table 9** presents a comprehensive set of results from this treatment including sludge generated. The results are summarized here:

Parameter	Untreated	1st Treatment(1)		1st + 2nd Treatments	
		Result (mg/L)	Removal (%)	Result (mg/L)	Removal (%)
Mercury	0.25	0.055	78%	0.024	90%
Arsenic	0.13	0.058	55%	0.016	88%
Chromium	0.62	0.18	71%	< 0.10	> 84%

(1) 1st Stage metals results from preliminary testing

The two-stage treatment test performed by WesTech achieved the most promising overall removals of both mercury and arsenic of all tests from either vendor, with an overall chromium concentration also among the lowest at less than 0.1 mg/L.

WesTech characterized the sludge generated from this treatment. The characterization included sludge generation rate, sludge dewatering, and TCLP metals concentrations. Solids production was determined based on total suspended solids measurements following chemical treatments before sludge blanket settling. **Table 9** presents the sludge generation rates that resulted from the 1st and 2nd treatments, respectively.

To evaluate the dewatering characteristics of the sludge generated from the optimal treatment strategy, a vacuum pressure filter method was utilized. After chemical treatment, the sample was allowed to gravity thicken to approximately 20% – 30% of its original volume. The supernatant was decanted and the settled solids were filtered through a coarse filter (approximately 10 – 15 µm mesh size). No diatomaceous earth pre-coat or body-feed was applied to the filter. The resulting filter cake was 24% solids by weight as shown in Table 9. This is considerably higher than the 14% achieved from a plate-and-frame dewatering process following the first stage of the two-stage treatment test performed by Siemens.

Based on the solids generation of approximately 6,300 mg/L and percent dry solids of 24%, approximately 2,740 tons of sludge would be generated during treatment of 25 million gallons of CBP based on these results.

The dewatered sludge was submitted for TCLP metals. The sludge dewatering and TCLP results are presented in **Table 10**. In summary, the sludge generated from the selected treatment process was non-hazardous for TCLP metals. A similar result was achieved by Siemens as well as during previous testing by others. Based on vendor treatment observations, the dewatered sludge would pass the paint filter test.

3.2.3.3 Sample EW-6

WesTech applied their two-stage chemical precipitation treatment process to the EW-6 sample. The results as presented in the WesTech treatability test report (**Appendix C3**) indicate that a mercury concentration of 0.28 mg/L (from an initial concentration of 1.09 mg/L) is achievable. An arsenic concentration of 0.061 mg/L (from 0.53 mg/L) was realized. The results for chromium were indeterminate, although treatment of both the composite and EW-6 sample resulted in a treated chromium concentration of < 0.10 mg/L.

3.2.4 Parsons Treatability Testing

Parsons conducted some limited treatability tests to augment the vendor-conducted studies. The Parsons tests were intended to provide for quality checks and provide additional information. The tests included (1) chemical precipitation testing, and (2) activated carbon adsorption testing.

3.2.4.1 Chemical Precipitation Testing

Parsons performed a number of chemical precipitation jar tests to evaluate variations of vendor test conditions. The chemical precipitation tests employed similar techniques with minor variations to those tested by Siemens and WesTech and, as such, were intended to provide a quality check on the reported removal efficiencies for mercury, arsenic, and chromium and augment the information provided the vendors. Tested coagulants included $FeCl_3$, sodium sulfite (Na_2SO_3), and $FeSO_4$. Each chemical precipitation step was applied to supernatant following treatment with magnesium chloride for silica removal. Treatability testing data are provided in **Appendix C4.**

All tests were performed using a standard jar testing methodology. At the conclusion of each treatment, the contents were allowed to settle. The decanted supernatant was filtered at 1.5 µm and analyzed for the target metals. The specific test conditions and results for these tests are summarized in **Table 11**. The most promising chemical precipitation tests resulted in similar removals of arsenic and chromium to those obtained from vendor testing, with no improvements observed. Mercury removal was not as effective in the chemical precipitation tests performed by Parsons.

3.2.4.2 Activated Carbon Adsorption Testing

Vendor testing results with GAC adsorption demonstrated additional removal of mercury of approximately 30% over that provided by chemical precipitation alone, based on application of GAC to 1st stage effluent from chemical precipitation. Based on these results and limited adsorption testing by Parsons, it is estimated that an approximate 30% to 50% removal of mercury may be possible from a two-stage chemical precipitation treated sample, depending on the sample mercury inlet concentration and GAC loading.

SECTION 4

TREATMENT CONSIDERATIONS FOR OPERATIONS

4.1 TRANSPORTATION AND OFFSITE TREATMENT OPTION

At the onset of the CBP removal action planning, it was established that extraction should be done in a manner as to minimize excessive drawdown in the extraction wells (slower rate of pumping would allow for laminar (horizontal) flow within the CBP zone to the extraction well). This approach provides for the greatest efficiency with CBP extraction from the aquifer (under higher pumping rates, vertical flow occurs thus pulling downward the non-CBP groundwater atop the CBP zone). The pumping rates employed during the pilot were generally at the desired operational rate to allow laminar flow. Therefore, there is a somewhat limited opportunity to increase the volume per unit time of CBP extraction regardless of whether the CBP is treated onsite or offsite.

Under a full-scale operation, each tank would be filled to 15,000 gallons thus generating 45,000 gallons per week. No additional infrastructure would be required at this volumetric rate of extraction/shipping. The approximate cost for offsite transport and treatment is $0.36/gallon.

Honeywell is also pursuing additional offsite treatment suppliers to potentially allow for some additional scale up beyond 45,000 gallons per week. Under this scenario, some amount of additional tank storage and perhaps onsite personnel could be required.

4.2 ONSITE TREATMENT OPTION

In accordance with Work Plan requirements, a conceptual design of the most promising on-site treatment process employing conventional technologies has been prepared. However, as previously stated, based on the results of the vendor treatability studies, it is anticipated that an NPDES direct discharge permit would include a discharge limit for mercury, and possibly several other parameters, that would be unachievable by the most promising treatment process. Nevertheless, for comparison purposes, a conceptual treatment system design incorporating two-stage chemical precipitation, gravity clarification, filtration, solids dewatering and GAC polishing has been identified.

Since direct discharge limits are unknown and actual limits might be unachievable by the most promising treatment process, an assumption has been included in this evaluation that additional off-site treatment would be required for the effluent from onsite treatment. Additional assumptions used in the development of the conceptual design and cost estimate include the following:

- The current CBP extraction rate is 45,000 gallons per week, based on 25 gallons per minute (gpm) extraction rate and a 40 hour work week (30 hours per week plant uptime).

- The battery limits of this conceptual design is the existing CBP extraction system influent manifold. It is assumed that the existing CBP extraction system would be employed for this design.
- All treatment and ancillary equipment would need to be installed in a pre-engineered, CBP groundwater treatment system building. A treatment system building would typically include the following rooms and areas:
  - Process area
  - Solids management area
  - Office/control room
  - MCC room
  - Laboratory
  - Break room
  - Utility/equipment storage room
  - Lavatory

The onsite CBP conceptual treatment system design was developed for an average flow rate of 25 gpm and instantaneous flow rate (surge capability) up to 60 gpm. The individual system components envisioned in the conceptual design are presented in **Table 12**. A process flow diagram (PFD) and general equipment and building arrangement for this conceptual system are given in **Figures 8 and 9**, respectively. A planning-level cost estimate is presented in Section 4.2.1. Cost estimate backup is presented in **Appendix D**.

4.2.1 Planning-Level Cost Estimate

Planning-level (±50%) capital and O&M costs were estimated for this conceptual treatment system. The costs are summarized in the following table. A cost estimate breakdown is presented in **Appendix D**:

Capital Cost	Annual O&M Cost	Overall Unit Treatment Cost ($/gal)
$16,000,000	$1,300,000	$1.20 – $2.20

(1) Based on treatment of 10 million – 25 million gallons (high end – low end of unit cost range)

The estimated system O&M costs incorporate the following assumptions:

- The operations and maintenance (O&M) costs were developed around 45,000 gallons per week flow rate to match the current CBP extraction rate (25 gpm) and a 40 hour per week treatment system operating schedule, assuming 30 hours per week of treatment system up-time. The annual treatment volume would be approximately 2.25 million gallons allowing for maintenance down time.

- Due to the uncertainty regarding ultimate disposition of potentially onsite treated CBP volume, additional offsite transport and treatment of effluent has been assumed and accounted for in the O&M costs.

  The dewatered solids would be disposed of offsite at an estimated annual generation rate of approximately 430 wet tons/yr.

SECTION 5

DISCUSSION AND RECOMMENDATIONS FOR PATH FORWARD

The offsite treatment pilot test of the CBP groundwater has demonstrated that this option is viable to treat high pH and high TDS groundwater from the CBP groundwater extraction system. Consistent pumping rates and volumes from each extraction well during the pilot test have produced a characteristic non-hazardous composite liquid for off-site transport and treatment. The recovered CPB groundwater was consistently treated to the required standard at the permitted offsite centralized waste treatment facility.

Onsite treatment of the CBP groundwater poses significant challenges including complications associated with permitting of the direct discharge to the estuary and the potential inability to meet potential NPDES direct discharge permit limits for one or more parameters. As a result, it is likely that there will be a need to transport treated effluent for additional treatment offsite, resulting in significant additional cost. In addition, there is significant capital and O&M costs to construct and operate the plant identified in the conceptual design. Furthermore, the sludge generated from the onsite treatment would also have to be transported offsite for disposal. All of these issues raise sustainability concerns when compared with the offsite treatment alternative which involves transport and treatment of CBP volume only.

Given the significant costs and uncertainties of the onsite treatment option, Honeywell recommends offsite treatment of the extracted non-hazardous composite CBP groundwater at 20,000 to 45,000 gallons per week be continued. As part of the ongoing program, Honeywell would also monitor the aquifer on a quarterly basis with groundwater sampling from a select group of monitoring wells and extraction wells. The proposed quarterly sampling of the CBP monitoring and extraction wells would include analyses for TAL metals, TDS, total suspended solids, pH, chemical oxygen demand, and silica. Honeywell will provide quarterly CBP monitoring reports document the changes in pH and density of the CBP.

SECTION 6

REFERENCES

EPS, 2011. CBP Volume Estimation Memorandum.

CH2MHill, EPS, 2011. Work Plan for the Development, Design, and Implementation of Conventional Treatment Measures to Enhance the Existing Caustic Brine Pool (CBP) Remedy at the LCP Chemicals Site.

CH2MHill, 2009. Basis of Design, Caustic Brine Pool Removal Action LCP Brunswick, Brunswick, Georgia.

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TABLES

TABLE 1
SUMMARY OF CBP EXTRACTION EVENTS FOR WRI PILOT TEST STUDY

Extraction Date	Ship Date	Sample Description	Volume Extracted From CBP Extraction Well (gal.)												Total Vol. in Tank (gal.)	Lab Analysis	
			EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12		Hg (µg/L)	pH (s.u.)
8-Jun	16-Jun	Inf. Tank #1	225	1,063	1,637	1,352	1,350	233	1,350	1,363	454	1,407	1,350	234	12,018	170	11.1
15-Jun[1]		Eff. Tank #1	225	1,351	1,350	1,351	1,350	225	1,350	1,351	453	1,351	1,350	225	11,932	240	10.8
16-Jun		Inf. Tank #2	190	692	1,114	1,114	842	190	1,075	1,107	368	1,101	1,098	187	9,078	220	10.6
20-Jun[1]		Eff. Tank #1	--	521	373	--	--	--	--	--	--	--	--	--	12,826	200	11.0
23-Jun		Inf. Tank #2	--	1,215	--	--	--	--	--	--	--	--	--	--	10,294	210	11.1
5-Jul	12-Jul	Inf. Tank #2	--	1,091	--	--	--	--	1,080	1,349	--	--	--	--	13,813	158	10.8
12-Jul		Inf. Tank #3	--	1,211	--	--	--	--	1,210	1,502	--	--	--	--	10,344[2]	173	10.8
13-Jul	19-Jul	Eff. Tank #1a	--	--	--	--	--	--	1,610.1	1,978.4	--	--	--	--	9,992[3]	104	10.5
19-Jul	25-Jul	Inf. Tank #4	224.5	1,783.8	445.5	445.3	0	0	1,771.1	2,213.9	443.3	2,205.8	833.9	222.8	10,590	145	10.8
19-Jul	27-Jul	Eff. Tank #2	306.5	2,419.1	607	609	0	0	2,404.7	3,007.9	606	3,010.3	1,206.3	308	14,484	120	10.7
26-Jul	2-Aug	Inf. Tank #5	225	1,800.2	450.1	450	0	225	1,800.3	2,250.2	450	2,250.3	900.1	225.1	11,026	129	10.9
29-Jul	8-Aug	Eff. Tank #3	225	1,800.2	450	450	0	0	1,800.3	2,250.3	450	2,251.4	900.1	225	10,802	119	10.9
2-Aug		Inf. Tank #6	89.4	703	176.7	177.1	0	89.8	694.6	869.1	173.9	863.9	346.1	88.8	4,272	140	10.9
3-Aug	9-Aug	Inf. Tank #6	225.6	1,817.3	453.3	453	0	225.2	1,825.6	2,281.1	457.8	2,286.3	914.8	226.2	11,166	149	10.8
8-Aug	11-Aug	Eff. Tank #4	225	1,800.1	450	450	0	225	1,801.8	2,252.9	449.7	2,250.3	900.1	224.5	11,029	127	10.6
10-Aug	15-Aug	Inf. Tank #7	217.5	1,740.1	435	435	436.3	217.5	1,739.5	2,175.3	436.2	2,175.8	871.1	161.6	11,041	133	10.9
15-Aug	17-Aug	Eff. Tank #5	217.5	1,740	435	435	436.4	217.5	1,740.1	2,175.2	436.6	2,176.8	871.9	177.1	11,059	134	10.8
16-Aug	19-Aug	Inf. Tank #8	217.5	1,740.1	435	435	436.4	217.6	1,740.6	2,176.3	435	2,175.9	870.1	165.1	11,045	120	11.0
18-Aug	22-Aug	Eff. Tank #6	217.5	1,740.9	435	435.2	435	217.5	1,742.6	2,179.5	435	2,175.3	870.1	168.5	11,052	122	10.9
22-Aug	24-Aug	Inf. Tank #9	217.5	1,740.4	435.3	436.1	435	217.6	1,742.0	2,180.6	435	2,175.3	870.1	192.7	11,078	147	11.1
23-Aug	25-Aug	Eff. Tank #7	217.5	1,740.9	435	435.4	435	217.5	1,740.2	2,176.6	435	2,175.4	871.4	183.8	11,064	139	10.9
25-Aug	29-Aug	Inf. Tank #10	217.5	1,744	436.8	437.1	435	217.5	1,742.9	2,180.1	435	2,175.4	870.8	183.7	11,076	164	10.8
29-Aug	31-Aug	Eff. Tank #8	217.6	1,741.9	435	435	435.2	217.8	1,745.1	2,175	435	2,175.2	870.1	177.7	11,061	76.9	10.9
30-Aug	1-Sep	Inf. Tank #11	217.5	1,740.7	435	435	435.5	217.7	1,740.3	2,175.9	435	2,175.2	870	179.5	11,057	114	11.0
1-Sep	6-Sep	Eff. Tank #9	217.5	1,740.2	435	435.5	435.1	217.5	1,740.3	2,175.2	435	2,176.1	871.1	168.1	11,047	148	10.9
2-Sep	7-Sep	Inf. Tank #12	217.5	1,740.1	435	435.5	435	217.5	1,742	2,179.1	435	2,175.1	870.1	170.2	11,052	136	11.0
7-Sep	12-Sep	Eff. Tank #10	217.5	1,740.2	435.1	435	437.1	217.5	1,742.2	2,178.9	435.5	2,175.2	870.3	164.4	11,049	138	10.9
8-Sep	13-Sep	Inf. Tank #13	217.6	1,747.3	435	435.1	435.6	217.5	1,741.1	2,177	435.1	2,176.9	871.3	147.2	11,037	146	11.0
13-Sep	15-Sep	Eff. Tank #11	217.5	1,740.1	435	435	436.2	217.8	1,740.3	2,175.1	435.4	2,175.3	870.1	158.4	11,036	124	11.0
14-Sep	19-Sep	Inf. Tank #14	217.6	1,740.1	435.1	435	435.4	217.5	1,742.1	2,179.3	435	2,175.4	870.5	140.5	11,024	146	11.0
19-Sep	21-Sep	Eff. Tank #12	217.5	1,741.2	435.5	436.1	435.2	217.5	1,740.1	2,175.3	435	2,175.6	871.2	143.8	11,024	187	11.0
20-Sep	22-Sep	Inf. Tank #15	217.5	1,744.5	435	435.2	435.1	217.5	1,746.4	2,184.4	435	2,175.1	869.9	152.2	11,048	168	11.0
22-Sep	26-Sep	Eff. Tank #13	217.5	1,740.3	435	435	436	217.5	1,740.1	2,177.8	435	2,177.2	871.6	145.8	11,029	182	11.0
26-Sep	28-Sep	Inf. Tank #16	218.5	1,740.6	435.4	435	435.6	218	1,741.4	2,174.6	435	2,175.3	374.8	160.7	10,545	148	10.9
27-Sep	29-Sep	Eff. Tank #14	217.5	1,740.2	435.1	435	436.2	217.5	1,740.1	2,175.4	435.4	2,175.7	829.7	145.5	10,983	159	10.9
29-Sep	3-Oct	Inf. Tank #17	217.5	1,741.9	435.8	436.4	435.1	217.5	1,740.2	2,175.2	435	2,175.3	871	133.3	11,014	162	11.0
3-Oct	5-Oct	Eff. Tank #15	216.6	1,740.1	435	435	436.7	216.5	1,742	2,177.7	435	2,175.3	870.1	139.2	11,019	165	11.0
4-Oct	6-Oct	Inf. Tank #18	217.5	1,757.2	435	435	435.1	217.5	1,731.1	2,175.2	435.1	2,175.3	870	131.9	11,016	161	11.1
6-Oct	10-Oct	Eff. Tank #16	217.9	1,740.1	435	435	435.1	217.5	1,748.3	2,185.9	435	2,175.5	871.8	114.1	11,011	147	11.0
10-Oct	12-Oct	Inf. Tank #19	216.6	1,740.2	435	435	435.1	217.5	1,742.8	2,179.4	435	2,175.2	870.1	143.3	11,025	122	11.1
11-Oct	13-Oct	Eff. Tank #17	217.5	1,740.2	435	435	435.5	217.5	1,740.1	2,175.7	435.7	2,175.2	870.2	133.4	11,011	114	11.0
13-Oct	17-Oct	Inf. Tank #20	217.5	1,740.2	435	435	436.8	217.5	1,740.8	2,177.6	435	2,176.5	870	125.1	11,007	118	10.9
17-Oct	19-Oct	Eff. Tank #18	217.5	1,740.2	435	435.1	435.4	217.5	1,740.5	2,175.2	435.6	2,175.2	870.1	124.2	11,002	118	11.0
18-Oct	20-Oct	Inf. Tank #21	217.9	1,740.1	435	435	435.1	217.5	1,740.6	2,175.5	435.7	2,175.2	871.6	133.4	11,013	125	11.0
20-Oct	24-Oct	Eff. Tank #19	217.5	1,740.1	435	435	435.8	217.5	1,742.4	2,179.0	435	2,175.1	870.1	130.3	11,013	119	11.0
24-Oct	26-Oct	Inf. Tank #22	217.5	1,740.1	435	435	435.3	217.5	1,740.3	2,175.6	435	2,174.3	870.1	121.3	10,997	120	11.0
25-Oct		Eff Tank #20	217.5	1,740.1	435	434.9	435	217.5	1,740.7	2,175.6	435.3	2,176.0	870.8	121.5	11,000	120	11.0

Extracted to Date	406,039	Gallons
Shipped to Date	395,028	Gallons
June Extracted	35,137	Gallons
July Extracted	57,933	Gallons
August Extracted	126,000	Gallons
September Extracted	131,887	Gallons
October PTD Extracted	121,113	Gallons

1) June 15 and June 20 extraction volumes split into two (2) July 12 extraction events (6,404-gal. and 6,422-gal. volumes).
2) Includes 6,422-gal. from June 15 and June 20 extraction events.
2) Includes 6,404-gal. from June 15 and June 20 extraction events.

TABLE 2
SUMMARY OF TANK SHIPMENTS AND WEEKLY VOLUMES

Ship Date	WE	Tank	Vol	Weekly Vol
	10-Jun			0
16-Jun	17-Jun	Inf #1	12,018	12,018
	24-Jun			0
	1-Jul			0
	8-Jul			0
12-Jul	15-Jul	Inf #2	13,813	13,813
19-Jul	22-Jul	Inf #3	10,344	
20-Jul		Eff #1A	9,992	20,336
25-Jul	29-Jul	Inf #4	10,590	
27-Jul		Eff #2	14,484	25,074
2-Aug	5-Aug	Inf #5	11,026	11,026
8-Aug		Eff #3	10,802	
9-Aug	12-Aug	Inf #6	15,439	
11-Aug		Eff #4	11,029	37,270
15-Aug		Inf #7	11,041	
17-Aug	19-Aug	Eff #5	11,059	
19-Aug		Inf #8	11,045	33,145
22-Aug		Eff #6	11,052	
24-Aug	26-Aug	Inf #9	11,078	
25-Aug		Eff #7	11,064	33,194
29-Aug		Inf #10	11,076	
31-Aug	2-Sep	Eff #8	11,061	
1-Sep		Inf #11	11,057	33,194
6-Sep		Eff #9	11,047	
7-Sep	9-Sep	Inf #12	11,052	
9-Sep		Eff #10	11,049	33,148
13-Sep	16-Sep	Inf #13	11,037	
15-Sep		Eff #11	11,036	22,073
19-Sep		Inf #14	11,024	
21-Sep	23-Sep	Eff #12	11,024	
22-Sep		Inf #15	11,048	33,096
26-Sep		Eff #13	11,029	
28-Sep	30-Sep	Inf #16	10,545	
29-Sep		Eff #14	10,983	32,557
3-Oct		Inf #17	11,014	
5-Oct		Eff #15	11,019	
6-Oct	7-Oct	Inf #18	11,016	33,049
10-Oct		Eff #16	11,011	
12-Oct	14-Oct	Inf #19	11,025	22,036
TBD		Eff #17	11,011	
TBD		Inf # 20	11,025	
TBD	TBD	Eff # 18	11,011	33,047
Total Shipment Volume for PT				428,076

TABLE 3
BASELINE CBP ANALYSIS FOR ONSITE EVALUATION

Parameter	Units	CBP Composite (EFF)	Extraction Well 6 (EW-6)
pH	s.u.	10.8	11.3
Arsenic (As)	mg/L	0.13	0.53
Chromium (Cr)	mg/L	0.62[(2)]	0.18
Mercury (Hg)	mg/L	0.25	1.09
Lead (Pb)	mg/L	< 0.010	<0.010
Silica (Si)	mg/L as SiO_2	140	1,500
Sulfate (SO_4^{-2})	mg/L	670	1,900
Total Dissolved Solids (TDS)	mg/L	17,000	40,000
Chemical Oxygen Demand (COD)	mg/L	3,200	14,000

(1) Based on initial characterization of composite (EFF) and EW-6 samples by Test America, Savannah, GA, except as noted.

(2) Based on Siemens analysis of composite (EFF) sample. This value is more consistent with treatment test results presented by Siemens (Table 4) and WesTech (Table 9).

TABLE 4
SIEMENS PRELIMINARY CHEMICAL TREATMENT TESTING

Test ID	Test Conditions	Mercury (Hg)		Arsenic (As)		Chromium (Cr)	
		Result (mg/L)	% Removal	Result (mg/L)	% Removal	Result (mg/L)	% Removal
EFF	(Untreated Composite EFF Sample)	0.25	--	0.13	--	0.62	--
1	H_2SO_4 to pH 7.0 / 200 ppm $FeCl_3$ / NaOH to pH 7.0	0.18	27%	0.094	26%	0.55	11%
2	H_2SO_4 to pH 9.0 / 200 ppm $FeCl_3$ / NaOH to pH 9.0	0.21	14%	0.11	17%	0.60	3%
3	H_2SO_4 to pH 7.0 / 500 ppm $FeCl_3$ / NaOH to pH 7.0	0.23	6%	0.055	57%	0.55	12%
4	H_2SO_4 to pH 9.0 / 500 ppm $FeCl_3$ / NaOH to pH 9.0	0.19	21%	0.11	13%	0.59	5%
5	H_2SO_4 to pH 7.5 / 200 ppm alum	0.20	17%	0.10	19%	0.59	5%
6	H_2SO_4 to pH 7.5 / 500 ppm alum	0.20	20%	0.083	35%	0.56	10%
7	pH 11.4 / 500 ppm $MgCl_2$	0.19	21%	0.066	48%	0.56	9%
8	pH 11.4 / 500 ppm $MgCl_2$ / H_2SO_4 to pH 9.0	0.20	20%	0.12	8%	0.57	9%
9	pH 11.4 / 500 ppm $MgCl_2$ / H_2SO_4 to pH 9.0 / 25 ppm TMT-15	0.19	25%	0.11	12%	0.56	10%
10	pH 11.4 / 25 ppm TMT-15	0.20	19%	0.14	-6%	0.59	5%
11	H_2SO_4 to pH 9.0 / 25 ppm TMT-15	0.20	21%	0.17	-32%	0.58	7%
12	H_2SO_4 to pH 9.0 / Nalco 8702	0.20	18%	0.11	13%	0.58	6%
13	H_2SO_4 to pH 4.54 / 500 ppm $FeCl_3$ / lime to pH 8.0	0.065	74%	0.050	61%	0.25	60%
14	H_2SO_4 to pH 4.54 / 500 ppm $FeCl_3$ / lime to pH 8.0 / 25 ppm TMT-15	0.074	70%	< 0.050	> 61%	0.22	65%
15	H_2SO_4 to pH 7.0 / 500 ppm $FeCl_3$ / NaOH to pH 7.0 / 25 ppm TMT-15	0.17	33%	< 0.050	> 61%	0.50	20%
16	H_2SO_4 to pH 7.5 / 500 ppm Alum / 25 ppm TMT-15	0.18	28%	0.072	43%	0.54	14%
17	pH 11.4 s.u. / 500 ppm $MgCl_2$ / 25 ppm TMT-15	0.19	25%	0.083	35%	0.56	10%

TABLE 5
SIEMENS OPTIMIZATION PHYSICAL-CHEMICAL TREATMENT TESTING

Chemical Pretreatment Step	Filtration Step	Mercury		Arsenic		Chromium	
		Results (mg/L)	% Removal	Results (mg/L)	% Removal	Results (mg/L)	% Removal
Untreated Composite (EFF) Sample	--	0.25	--	0.13	--	0.62	--
$FeCl_3$ + NaOH • H_2SO_4 to pH 7 • $FeCl_3$ 500 ppm • NaOH to pH 7	10 µm	0.11	57%	0.031	75%	0.31	50%
	1.5 µm	0.092	63%	0.026	80%	0.26	57%
	0.45 µm	0.079	68%	0.033	74%	0.28	56%
	0.1 µm	0.078	68%	0.031	75%	0.27	56%
	1.5 µm / GAC	0.064	74%	*0.39*	--	0.23	64%
$FeCl_3$ + Lime • H_2SO_4 to pH 4.5 • $FeCl_3$ 500 ppm • Lime to pH 7	10 µm	0.077	69%	< 0.05	> 61%	0.26	59%
	1.5 µm	0.055	78%	< 0.05	> 61%	0.18	71%
	0.45 µm	0.053	78%	< 0.05	> 61%	0.18	72%
	0.1 µm	0.053	78%	< 0.05	> 61%	0.17	73%
	1.5 µm / GAC	0.036	85%	*0.21*	--	0.11	83%
$FeSO_4$ + Lime ($FeSO_4$ substituted for $FeCl_3$)	1.5 µm	0.053	79%	< 0.05	> 61%	0.12	81%
$FeCl_3$ + NaOH + TMT-15 • H_2SO_4 to pH 7 • $FeCl_3$ 500 ppm • NaOH to pH 7 • TMT-15 25 ppm	10 µm	0.089	64%	0.027	79%	0.30	51%
	1.5 µm	0.085	65%	0.027	79%	0.26	57%
	0.45 µm	0.082	67%	0.020	84%	0.27	57%
	0.1 µm	0.085	65%	0.021	83%	0.26	59%
	1.5 µm / GAC	0.069	72%	*0.22*	--	0.25	59%

TABLE 6
SIEMENS TWO-STAGE CHEMICAL TREATMENT TESTING RESULTS

Parameter	Untreated (mg/L)	1st Treatment		1st + 2nd Treatments	
		Result (mg/L)	Removal (%)	Result (mg/L)	Removal (%)
METALS					
Aluminum	--	--	--	0.15	--
Antimony	--	--	--	< 0.009	--
Arsenic	0.13	0.063	52%	0.021	84%
Barium	--	--	--	0.26	--
Beryllium	--	--	--	0.0026	--
Cadmium	--	--	--	< 0.003	--
Calcium	--	--	--	706	--
Chromium	0.62	0.10	84%	0.039	94%
Cobalt	--	--	--	< 0.009	--
Copper	--	--	--	0.018	--
Iron	--	--	--	0.25	--
Lead	--	--	--	< 0.0045	--
Magnesium	--	--	--	1.8	--
Manganese	--	--	--	0.019	--
Mercury	0.25	0.058	77%	0.039	84%
Nickel	--	--	--	0.11	--
Potassium	--	--	--	9.4	--
Selenium	--	--	--	0.015	--
Silver	--	--	--	< 0.003	--
Sodium	--	--	--	7,380	--
Thallium	--	--	--	< 0.003	--
Zinc	--	--	--	0.042	--

TABLE 6
(continued)
SIEMENS TWO-STAGE CHEMICAL TREATMENT TESTING RESULTS

Parameter	Untreated (mg/L)	1st Treatment		1st + 2nd Treatments	
		Result (mg/L)	Removal (%)	Result (mg/L)	Removal (%)
OTHER ANALYZED PARAMETERS					
TDS	17,000	--	--	21,100	Note (1)
COD	3,200	--	--	1,040	68%
Silica (SiO_2)	140	--	--	21	85%
OPERATIONAL MEASUREMENTS					
Sulfuric Acid Dose (mg/L)	x	3,200	N/A[2]	630	N/A
Lime Dose (mg/L)	x	1,600	N/A	640	N/A
Solids Generated (mg/L)[3]	x	2,200	N/A	280	N/A
Sludge Dewaterability: 14% Dry Solids					

[1] N/A = Increased TDS on account of chemical precipitation treatment

[2] N/A = Not applicable

[3] TSS prior to settling

TABLE 7
SIEMENS SLUDGE TCLP METALS RESULTS

Parameter	TCLP Extract (mg/L)	Hazardous Threshold (mg/L)[(1)]	Code[(1)]
Arsenic	0.061	5.0	D004
Barium	1.22	100.0	D005
Cadmium	< 0.0034	1.0	D006
Chromium	0.061	5.0	D007
Copper	< 0.008	--	--
Lead	0.062	5.0	D008
Mercury	0.0025	0.2	D009
Nickel	0.075	--	--
Selenium	< 0.036	1.0	D010
Silver	< 0.012	5.0	D011
Zinc	0.79	--	--

(1) 40 CFR 261.24, Table 1 – Maximum Concentration of Contaminants for the Toxicity Characteristic

TABLE 8
WESTECH OPTIMIZATION CHEMICAL TREATABILITY TESTING[(1)]

Test ID	Test Conditions	Mercury		Arsenic		Chromium	
		Result (mg/L)	% Removal	Result (mg/L)	% Removal	Result (mg/L)	% Removal
Composite	(Untreated Composite EFF Sample)	0.25	--	0.13	--	0.62	--
1	H_2SO_4 to pH 7.4 / 500 ppm $FeCl_3$ / 200 ppm NaS_2	0.16	33%	0.10	19%	0.52	17%
2	H_2SO_4 to pH 9.6 / 500 ppm $FeCl_3$ / 200 ppm NaS_2 / NaOH to pH 9.0	0.2	19%	0.13	-4%	0.61	1%
3	H_2SO_4 to pH 9.6 / 500 ppm $FeCl_3$ NaOH to pH 9.0	0.19	25%	0.12	7%	0.58	6%
4	H_2SO_4 to pH 5.0 / 500 ppm $FeCl_3$ / 200 ppm NaS_2 / H_2SO_4 to pH 4.2 / Lime to pH 7.0	0.063	75%	0.075	41%	0.24	62%
5	H_2SO_4 to pH 5.0 / 500 ppm $FeCl_3$ / 200 ppm NaS_2 / pH 4.2 / Lime to pH 9.0	0.055	78%	0.058	54%	0.18	72%

(1) Each test included 500 ppm $MgCl_2$ pretreatment for silica removal, and 1.5 µm filtration of supernatant following settling

TABLE 9
WESTECH TWO-STAGE CHEMICAL TREATMENT TEST RESULTS

Parameter	Untreated (mg/L)	1st Treatment(1)		1st + 2nd Treatments	
		Result (mg/L)	Removal (%)	Result (mg/L)	Removal (%)
Mercury	0.25	0.055	78%	0.024	90%
Arsenic	0.13	0.058	55%	0.016	88%
Chromium	0.62	0.18	71%	< 0.10	> 84%
Solids Generated (mg/L)(2)	N/A(3)	4,740	N/A	1,580	N/A
Sludge Dewaterability: 24% Dry Solids					

(1) 1st stage metals results from preliminary testing

(2) TSS prior to settling

(3) N/A = Not applicable

TABLE 10
WESTECH SLUDGE TCLP RESULTS

Parameter	TCLP Extract (mg/L)	Hazardous Threshold (mg/L)[1]	Code[1]
Antimony	< 0.005	--	--
Arsenic	0.049	5.0	D004
Barium	0.030	100.0	D005
Beryllium	< 0.003	--	--
Cadmium	< 0.0009	1.0	D006
Chromium	0.054	5.0	D007
Lead	< 0.002	5.0	D008
Mercury	< 0.01	0.2	D009
Nickel	0.066	--	--
Selenium	< 0.004	1.0	D010
Silver	< 0.002	5.0	D011
Thallium	< 0.002	--	--
Zinc	0.035	--	--

[1] 40 CFR 261.24, Table 1 – Maximum Concentration of Contaminants for the Toxicity Characteristic

TABLE 11
PARSONS CHEMICAL TREATMENT TESTING

Test Conditions	Mercury		Arsenic		Chromium		COD
	Result (mg/L)	% Removal	Result (mg/L)	% Removal	Result (mg/L)	% Removal	Result (mg/L)
(Untreated Composite EFF Sample)	0.25	--	0.13	--	0.62	--	3,200
Chemical Precipitation (Variations on Vendor Tests)							
500 ppm $MgCl_2$ / H_2SO_4 to pH 7.0 / 500 ppm $FeCl_3$ / NaOH to pH 7.0	0.16	37%	0.076	40%	0.18	70%	2610
500 ppm $MgCl_2$ / H_2SO_4 to pH 9.5 / 500 ppm $FeSO_4$ / pH 7.0	0.19	21%	0.091	29%	0.15	77%	2790
500 ppm $MgCl_2$ / H_2SO_4 to pH 7.0 / 500 ppm $FeCl_3$ / 500 ppm Na_2SO_3 / NaOH to pH 7.0	0.17	30%	0.084	34%	0.23	64%	2520

TABLE 12
CONCEPTUAL DESIGN: TYPICAL ONSITE TREATMENT SYSTEM EQUIPMENT LIST

Process	Conceptual Design Info
Influent Equalization	• 10,000 gallon vertical, closed top, cross-linked polyethylene (HDXLPE) equalization tank • Two (2) dry-mounted centrifugal feed-forward pumps
Two-Stage Chemical Precipitation and Clarification	• Each stage consists of a packaged system including: ○ Up to three (3) rapid mix chambers with mixers ○ Flocculation chamber with slow-speed mixer ○ Clarification chamber with solids separation media (inclined plate or tube) and overflow weir ○ Effluent chamber ○ Progressive cavity (or similar positive displacement) sludge underflow pump (clarification chamber) • Two (2) dry-mounted centrifugal booster pumps from Stage 1 effluent chamber to convey flow to Stage 2 • Two (2) dry-mounted centrifugal feed-forward pumps from Stage 2 effluent chamber to filtration/GAC
Pre-GAC Filtration	• Four (4) bag filter housings, each sized for entire flow rate • Filter bag insert filtration size as determined fit for service • Fore and aft pressure gauges, differential pressure alarm, and (as necessary) pressure relief valve for each housing
GAC Adsorption	• Four (4) 6,000 lb GAC adsorbers arranged in two (2) sets • Piping manifold in each set to allow either vessel to operate as lead • Differential pressure transmitter / alarm
Post-GAC Filtration	• Two (2) bag filter housing designed similarly to pre-GAC filters • 1 µm (or as required) bag filter inserts
Effluent Holding, Reuse, and Discharge	• 10,000 gallon vertical, closed top, HDXLPE effluent holding tank • Two (2) dry-mounted centrifugal effluent discharge pumps • Single-duty 500 gpm centrifugal GAC backwash pump • Single-duty plant water booster pump and pressurization tank (100 gal; 40 psig)

TABLE 12
(Continued)
CONCEPTUAL DESIGN: TYPICAL ONSITE TREATMENT SYSTEM EQUIPMENT LIST

Process	Conceptual Design Info
Sludge Dewatering	• 10,000 gallon sludge holding / thickening tank, 304 stainless steel (or appropriate corrosion-resistant material), with decant ports/pipes or floating decanter • Plate-and-frame filter press, 25 ft^3, 100 psig • Filter press feed pump, 100 psig, with variable frequency drive (VFD)
Chemical Storage and Metering	• Chemicals and typical commercially-available concentrations: ○ 50% (w/v) sulfuric acid (H_2SO_4) ○ 35% (w/v) lime slurry ○ 51% (w/v) magnesium chloride ($MgCl_2$) ○ 40% (w/v) ferric chloride ($FeCl_3$) or ferrous sulfate ($FeSO_4$) ○ 10% (w/v) sodium sulfide • Chemical storage ○ One (1) 5,000 gallon HDXLPE tank for each chemical ○ Individual secondary containment structures at minimum 110% tank volume capacity ○ Separate fill stations for each chemical • Chemical metering ○ Two (2) positive-displacement diaphragm-type pumps per chemical ○ One pump dedicated for each application (i.e., Stage 1 or Stage 2).
Polymer Makeup and Delivery	• For sludge dewatering and (as required) chemical treatment system clarification • Each unit would include neat polymer emulsion metering pump, dilution water flow meter, mixing chamber for diluting polymer, and dilute polymer feed unit
Process Sump	• For management of sludge thickening tank decant, filter press filtrate, and miscellaneous drains • Two (2) submersible centrifugal pumps to convey liquid to influent equalization tank

FIGURES

FIGURE 1
SITE LOCATION

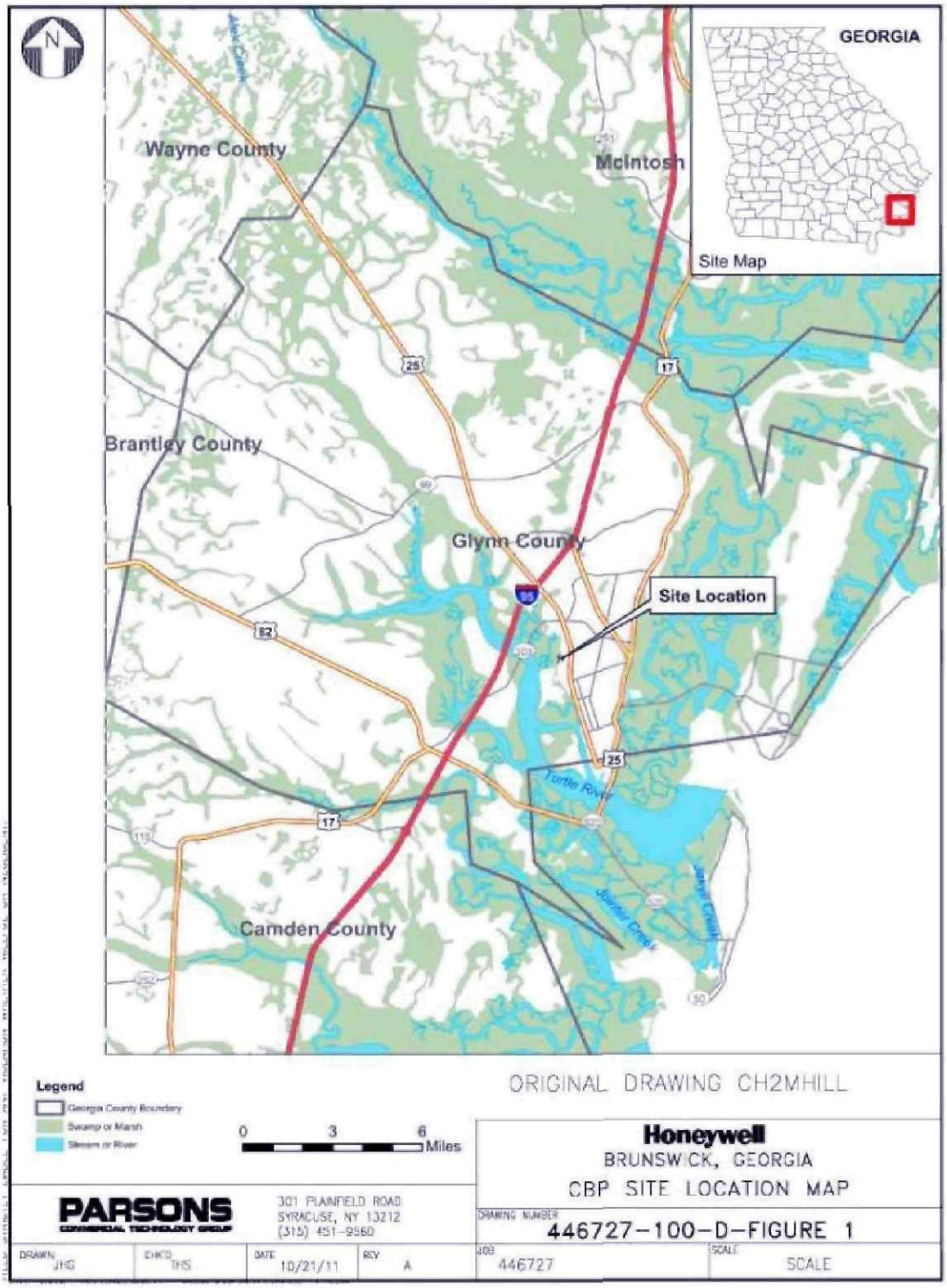
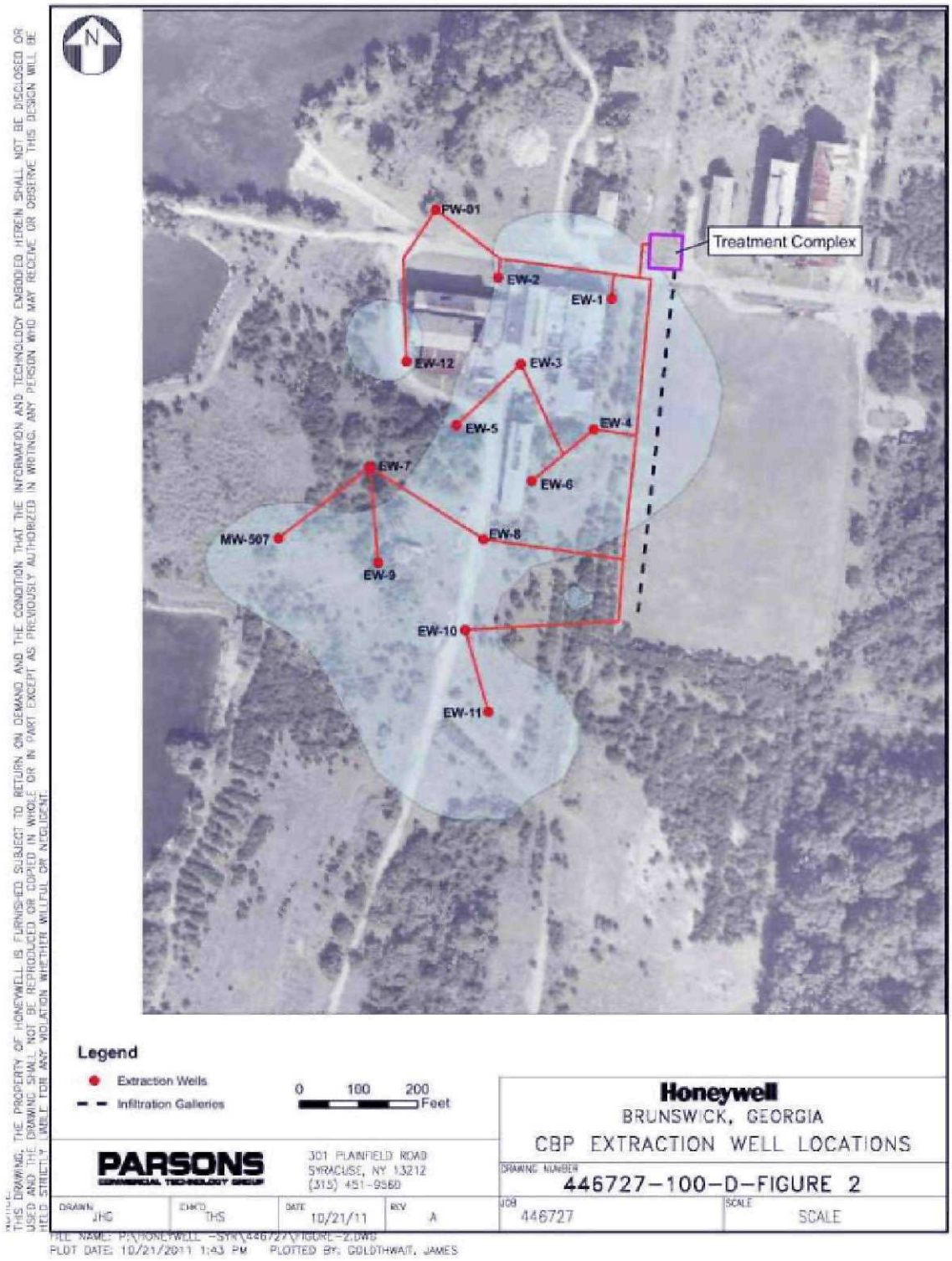


FIGURE 2
CBP EXTRACTION WELL LOCATIONS



NOTICE:
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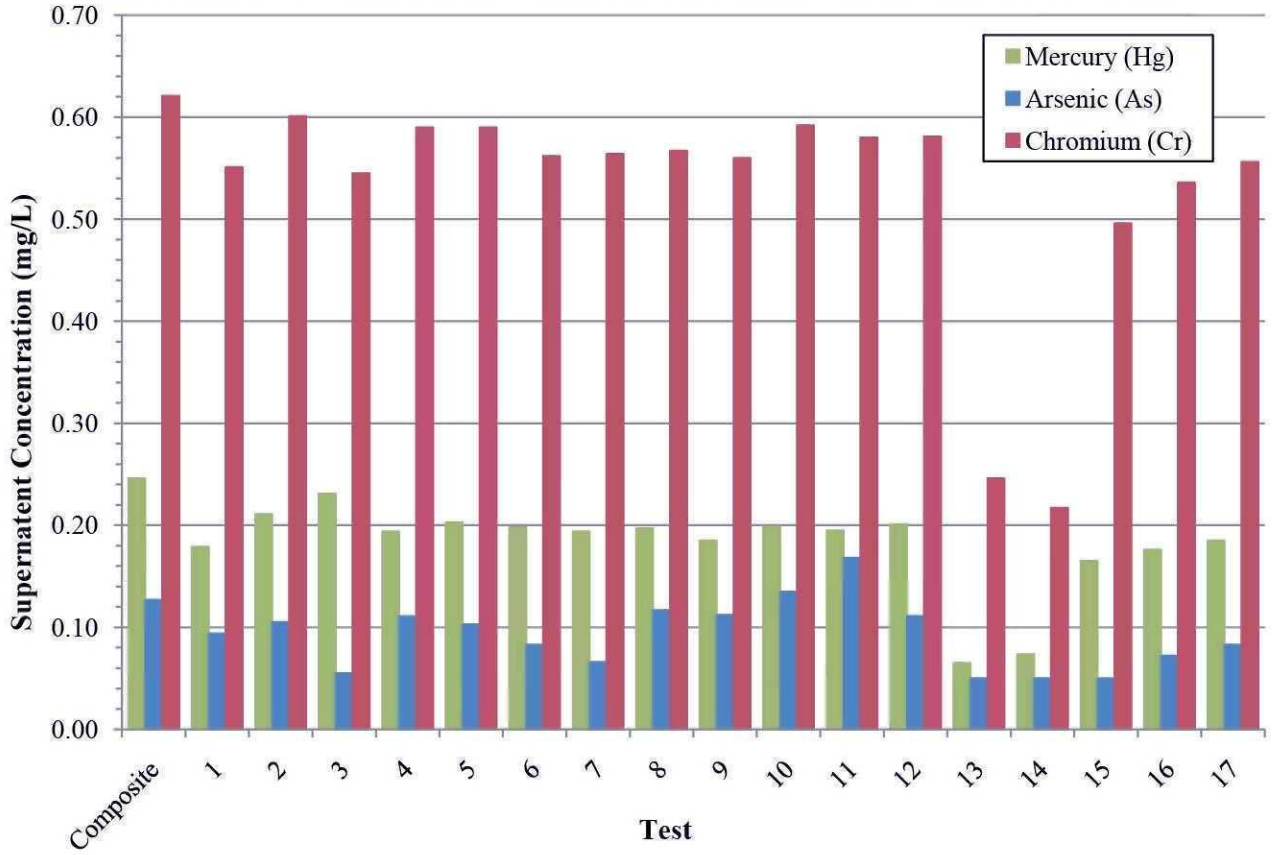
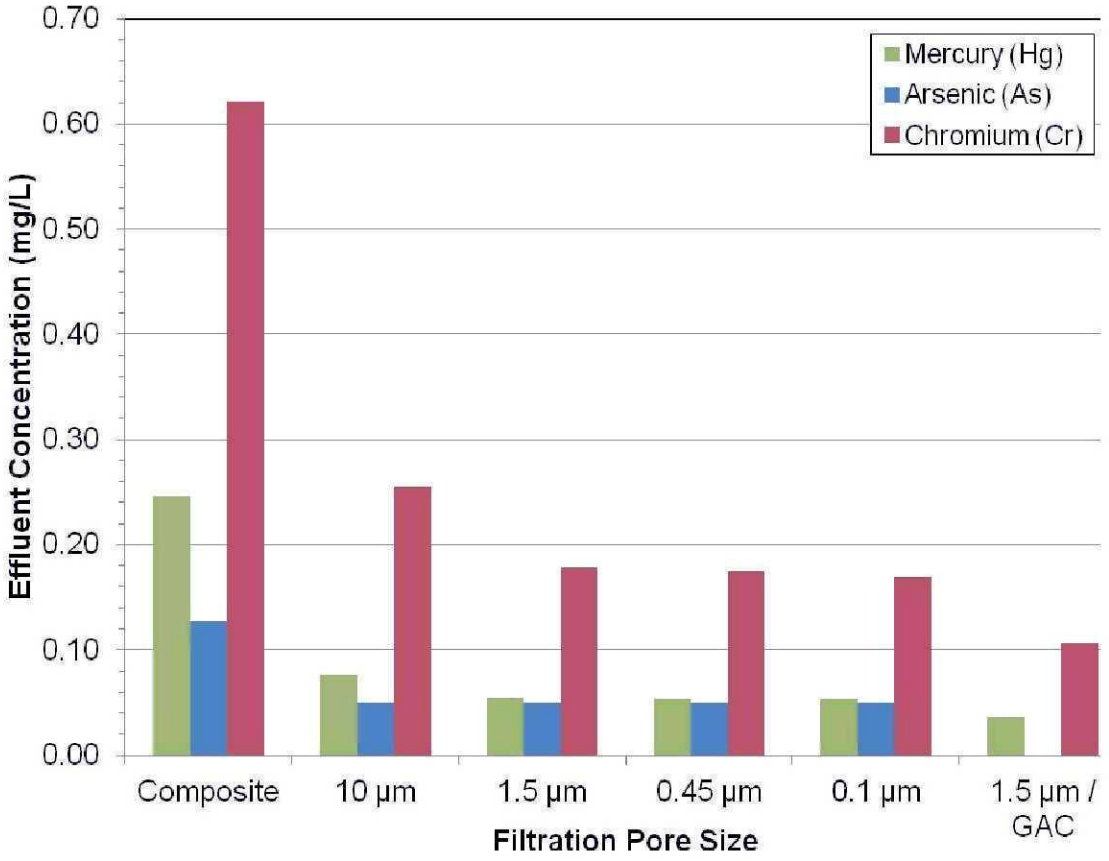
FIGURE 3
SIEMENS PRELIMINARY CHEMICAL TREATMENT RESULTS[1]



[1] Refer to Table 2 for treatment conditions associated with each test

FIGURE 4
SIEMENS CHEMICAL-PHYSICAL TREATMENT TESTING
EFFECT OF FILTRATION PORE SIZE[(1)]



(1) $FeCl_3$ + Lime chemical pretreatment step

FIGURE 5
SIEMENS CHEMICAL-PHYSICAL TREATMENT TESTING:
COMPARISON OF CHEMICAL PRETREATMENTS AT 1.5 µM FILTRATION

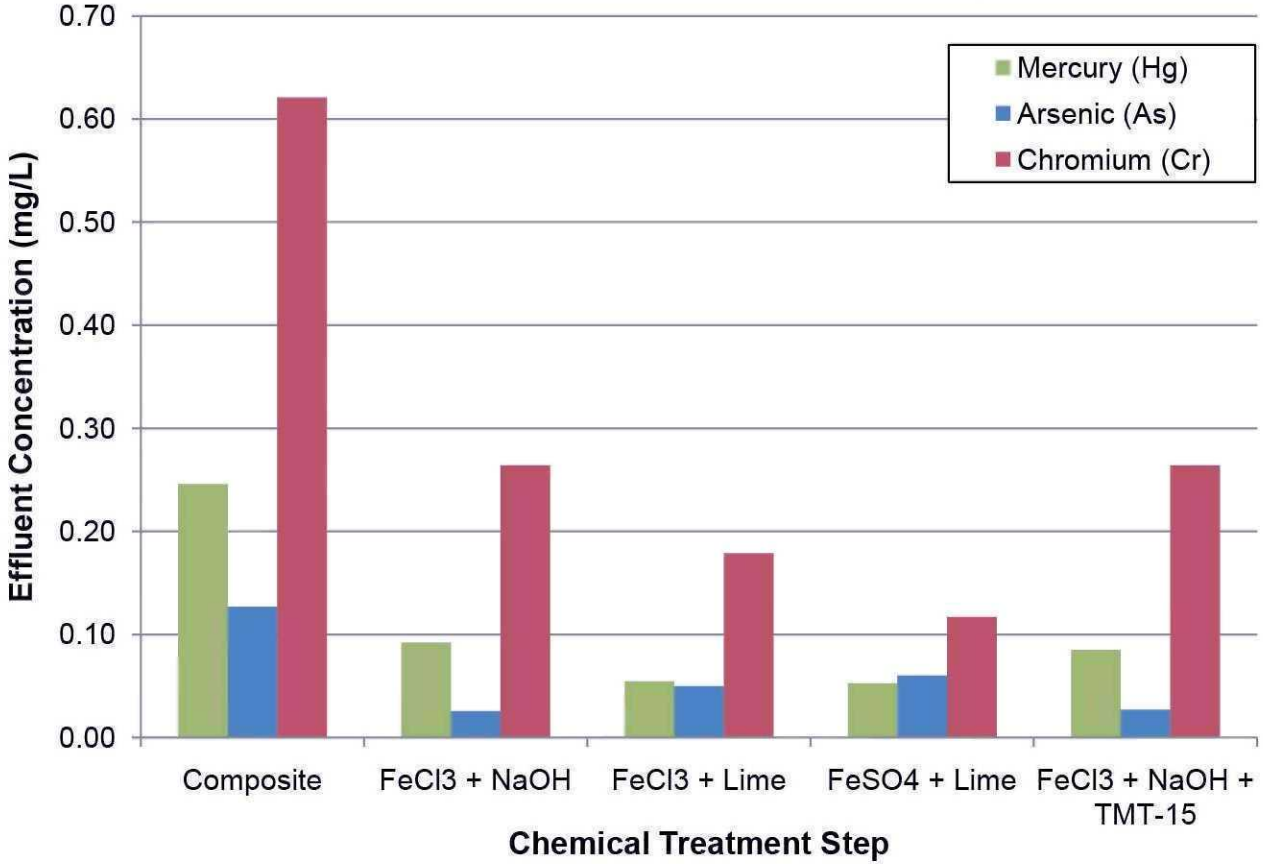


FIGURE 6
SIEMENS CHEMICAL-PHYSICAL TREATMENT TESTING
COMPARISON OF GAC PERFORMANCE

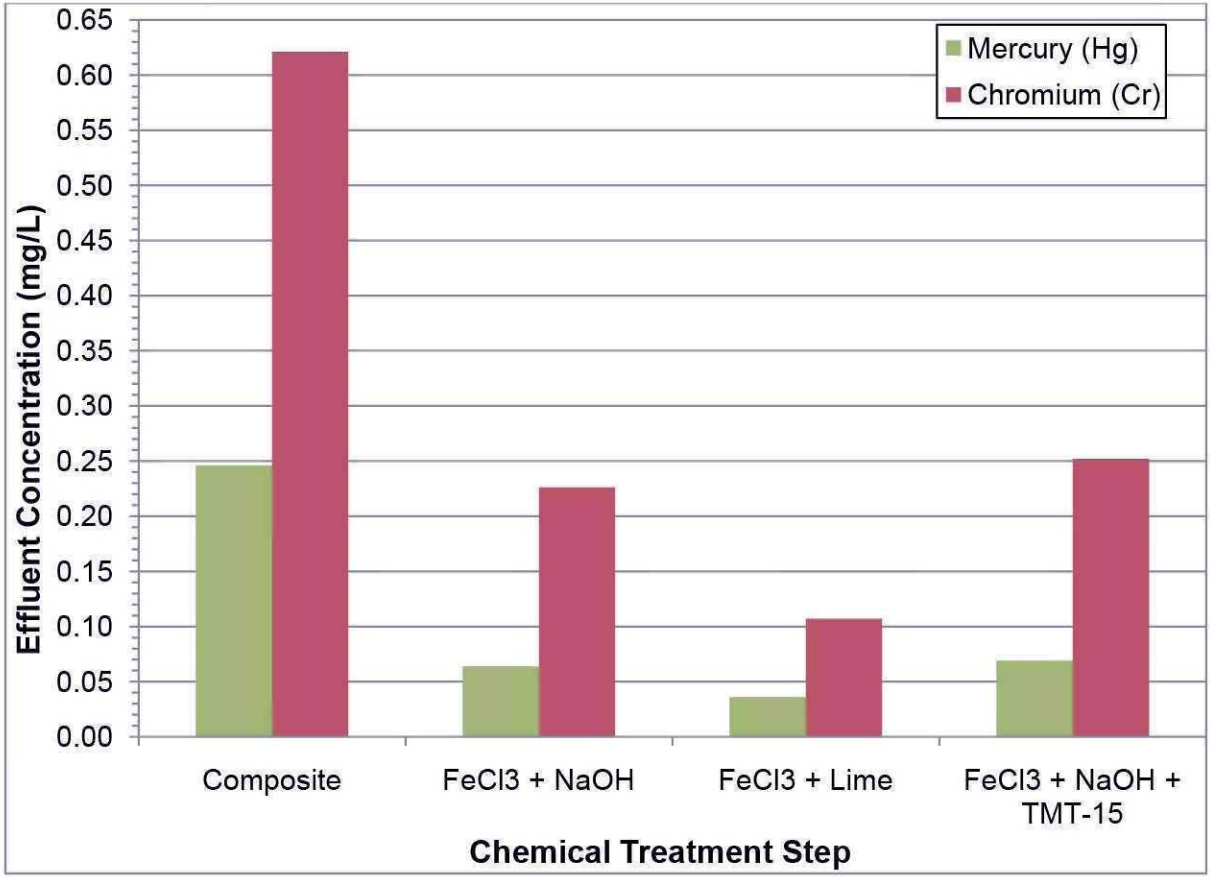


FIGURE 7
WESTECH CHEMICAL TREATMENT PRELIMINARY RESULTS

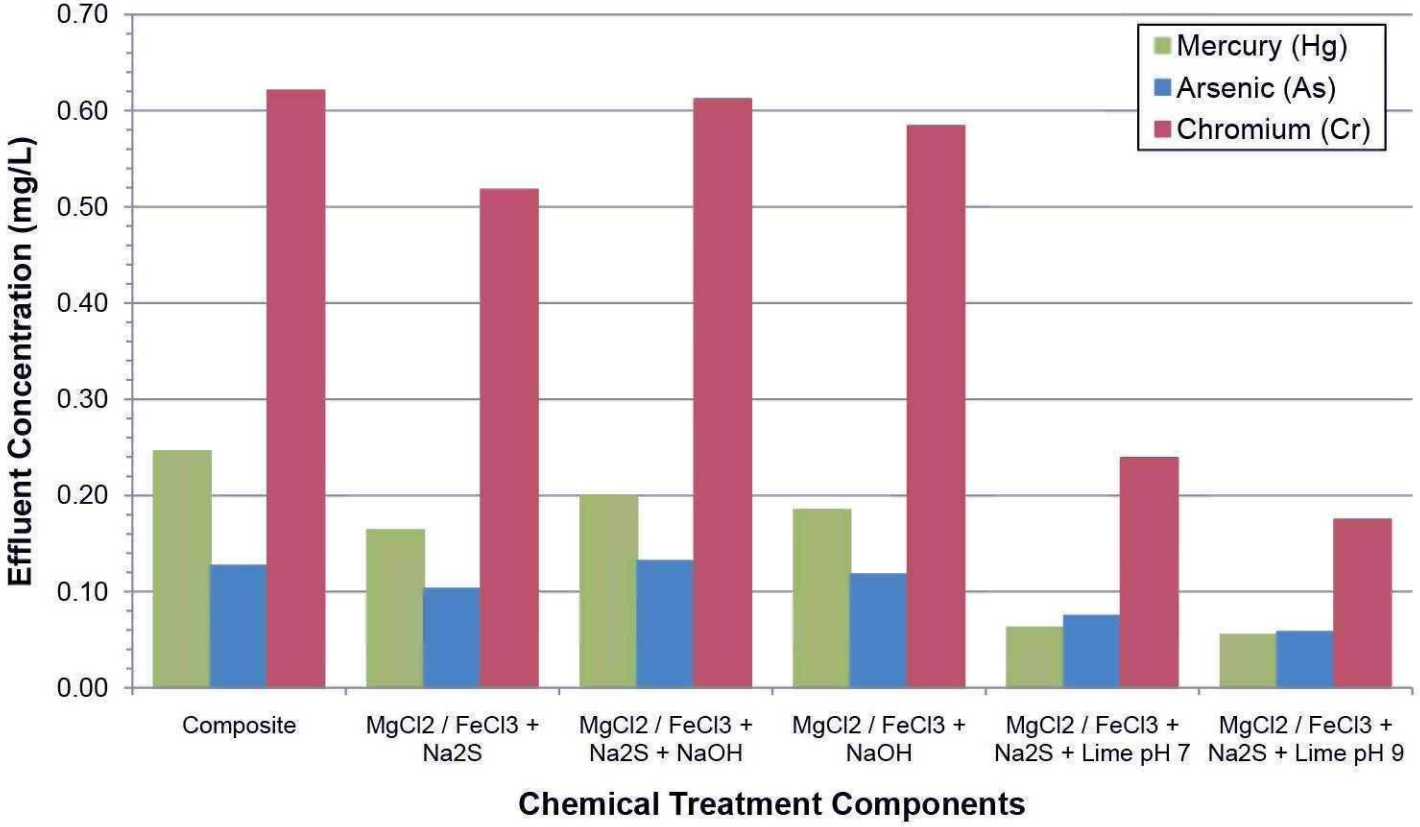


FIGURE 8
CONCEPTUAL CBP GROUNDWATER TREATMENT SYSTEM PROCESS FLOW DIAGRAM

NOTICE:
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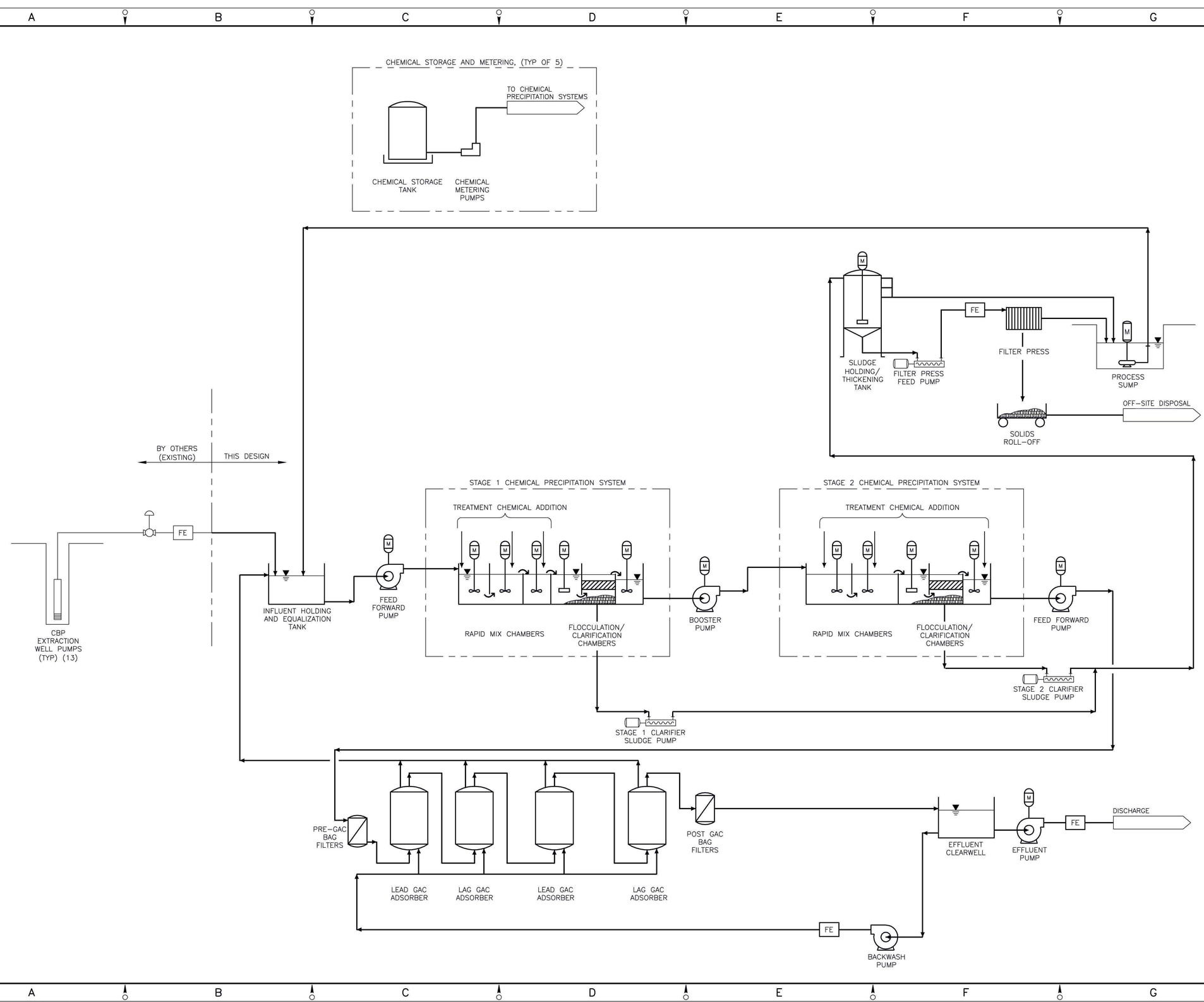

BASED ON PRELIMINARY TREATABILITY STUDY RESULTS, THE FOLLOWING CHEMICALS ARE ANTICIPATED TO BE STORED AND DOSED ON-SITE,(THE FINAL CHEMICAL DOSING STRATEGY WILL BE BASED ON FINAL TREATABILITY STUDY RESULTS.)

STAGE 1			
CHEMICAL	RAPID MIX CHAMBER 01	RAPID MIX CHAMBER 02	RAPID MIX CHAMBER 03
SULFURIC ACID		X	X
MAGNESIUM CHLORIDE	X		
FERRIC CHLORIDE		X	
SODIUM SULFIDE		X	
CALCIUM HYDROXIDE		X	X
POLYMER			X

STAGE 2			
CHEMICAL	RAPID MIX CHAMBER 01	RAPID MIX CHAMBER 02	FINAL PH ADJUSTMENT
SULFURIC ACID	X	X	X
FERRIC CHLORIDE	X		
SODIUM SULFIDE	X		
CALCIUM HYDROXIDE	X	X	X
POLYMER		X	

NOT FOR CONSTRUCTION

NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APPV'D
A	ISSUED FOR REVIEW	10/21/11	JHG	ADM	LC

DRAWN BY		DATE	
CHECKED BY		DATE	
APPROVED BY		DATE	
PROJECT MGR.		DATE	

SEAL

PARSONS
COMMERCIAL TECHNOLOGY GROUP
OFFICE: 301 PLAINFIELD ROAD, SYRACUSE, NY 13212, (315) 451-9560

JOB 446727
WBS 02140

PROJECT TITLE
Honeywell
BRUNSWICK LCP FACILITY
BRUNSWICK, GEORGIA

DRAWING TITLE
FIGURE 8
CONCEPTUAL
CBP GROUNDWATER
TREATMENT SYSTEM
PROCESS FLOW DIAGRAM

SCALE: NO SCALE

DRAWING NO. 446727-100-D-001
REV. A

FILE NAME: P:\HONEYWELL -SYR\446727\446727-100-D-001-A.DWG
PLOT DATE: 10/31/2011 12:02 PM PLOTTED BY: RUSSO, JILL

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FIGURE 9
CONCEPTUAL CBP GROUNDWATER TREATMENT SYSTEM BUILDING AND EQUIPMENT ARRANGEMENT

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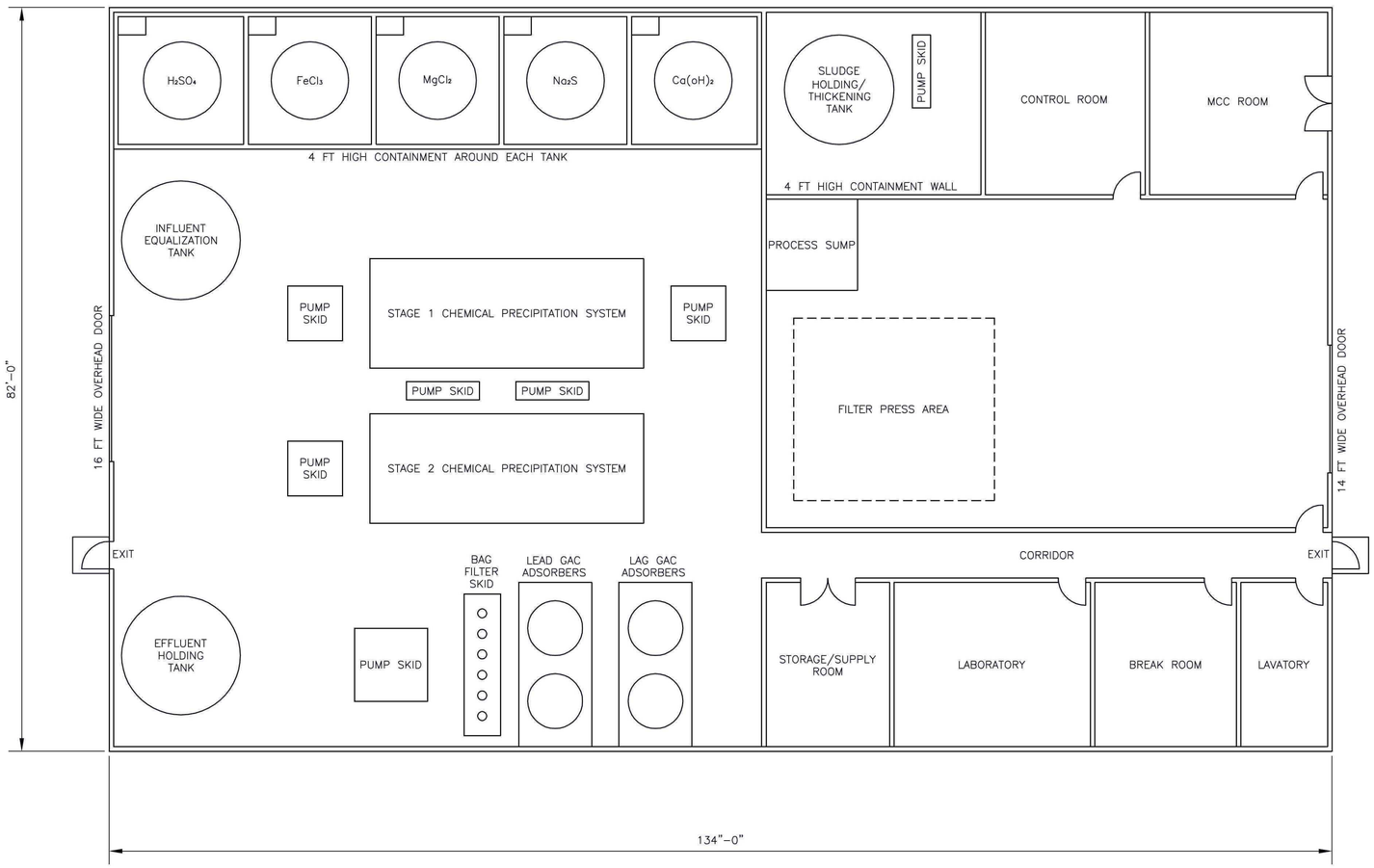

8' 6' 4' 2' 0 8'
Approximate Scale in Feet

NOT FOR CONSTRUCTION

NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APPV'D
A	ISSUED FOR REVIEW	10/21/11	JHG	ADM	LC

DRAWN BY		DATE	
CHECKED BY		DATE	
APPROVED BY		DATE	
PROJECT MGR.		DATE	

SEAL

PARSONS
COMMERCIAL TECHNOLOGY GROUP
OFFICE
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JOB 446727
WBS 02140

PROJECT TITLE:
Honeywell
BRUNSWICK LCP FACILITY
BRUNSWICK, GEORGIA

DRAWING TITLE:
FIGURE 9
CONCEPTUAL
CBP GROUNDWATER
TREATMENT SYSTEM BUILDING
AND EQUIPMENT ARRANGEMENT

SCALE: 1" = 8-0"
(IF PRINTED ON 22x34 SHEET)

DRAWING NO: 446727-100-D-002 REV. A

FILE NAME: P:\HONEYWELL -SYR\446727\446727-100-D-002-A.DWG
PLOT DATE: 10/31/2011 12:03 PM PLOTTED BY: RUSSO, JILL

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APPENDIX A

CBP VOLUME ESTIMATION

EPS
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Suite 350
Atlanta, Georgia 30338

(404) 315-9113 *Telephone*
(404) 315-8509 *Fax*

Kirk Kessler
Principal

(678) 336-8544 *Direct Line*
kkessler@envplanning.com

October 27, 2011

Memo to File

A volumetric analysis was previously performed for the purpose of defining the estimate of the amount of caustic brine pool (CBP) in the surficial aquifer at the LCP site. A three-dimensional interpolation utility by Environmental Visualization Systems (EVS) was utilized. The analysis was performed on the interpolated CBP for multiple years of measurement, beginning in 1996 and extending through 2005 (note that more recent interpolations of the CBP volume show the pool has diminished slightly over time). The analysis was performed under two porosity assumptions: 10% and 25%. The estimated CBP volume (defined at the pH boundary condition of 10.5 Standard Units) ranged from 9.3 to 23.3 million gallons (porosity of 10% and 25%, respectively). Following is a more detailed description of the model assumptions and output of the analysis.

Sincerely,

Kirk Kessler, P.G.
Principal

The groundwater monitoring network within and in the vicinity of the caustic brine pool (CBP) provides numerous samples results for analysis of the extent of elevated pH readings in the upper surficial aquifer. The data distribution is three-dimensional and dense, especially in the areas closest to the chlor-alkali process and disposal areas. The abundance of data provides an opportunity for three-dimensional rendering and interpretation of the data using the kriging methodology.

The kriging algorithm, applied in the mining, petroleum, and environmental industries, has as its foundation the assumption that spatially distributed data in geologic settings assume some degree of spatial continuity due to naturally occurring transport and deposition processes. In the case of the CBP area, high-pH waters are assumed to have migrated from the process areas into the unconsolidated media by one or more of the following processes:

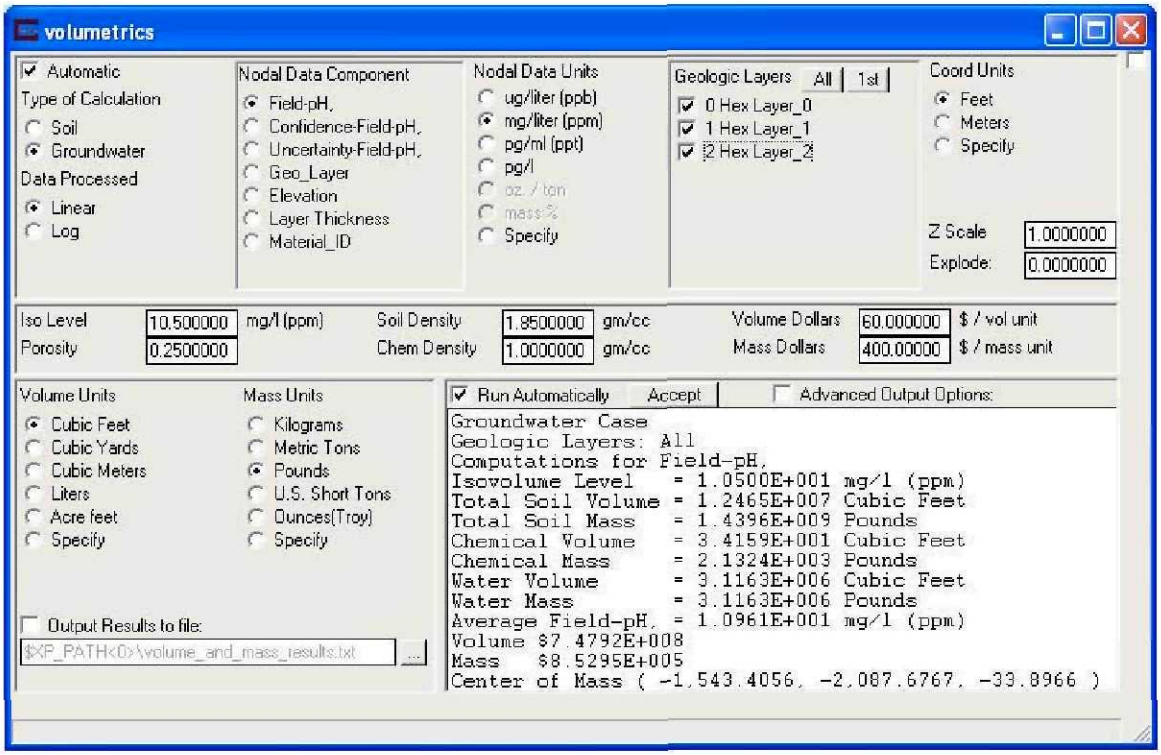
- gravity-driven migration of CBP vertically through the vadose zone portion of the soils, closest to the chloralkali process area; and

- saturated-zone flow of CBP vertically to the base of the upper Surficial aquifer, spreading along the sandstone aquitard surface.

The continuity fostered by these physical processes means that a measured concentration of pH in a monitoring well will allow estimation at a point nearby with a lower inherent estimation variance than would be inherent when estimating further afield. The kriging algorithm begins by examining the data and their locations to look for spatial trends in continuity or variability, especially in different compass directions. This analysis leads to a model of estimation variance as a function of distance from data points. Finally, the algorithm optimizes the estimation by using a weighted average of the data that minimizes this estimation variance.

One of kriging's greatest strengths lies in its ability to filter out redundant data. In assigning weights to the individual data points for the weighted averaging, it assigns lower weights to two closely-spaced data points than the weight it assigns to an isolated point, because the latter point intuitively provides a more critical piece of information. Other methods of weighted averaging, such as inverse-distance methods, fail to consider data redundancy.

The Environmental Visualization System (EVS) software is designed to perform three-dimensional kriging. Model output can also include volumetric data regarding plume dimensions. It was used in this manner to provide estimations of plume volume at various pH level thresholds (e.g., at pH 10.5, 11.0 and 12.0). The graphic below illustrated the EVS on-screen output.

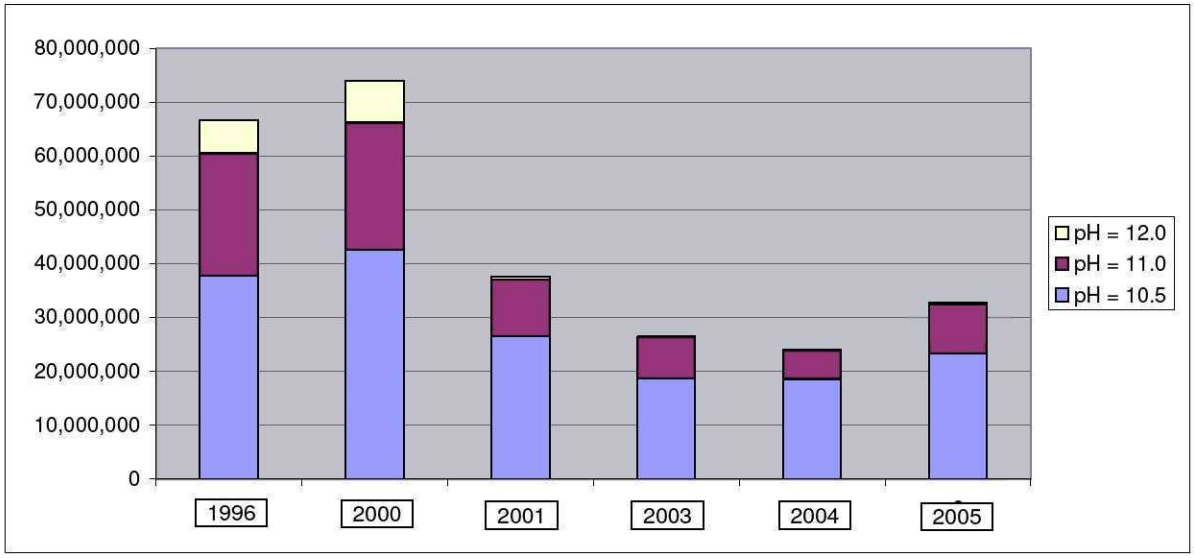


The following table provides the estimated plume volume at the three pH threshold levels for each of the year-end monitoring events (through the year 2005). Note that soil porosity in the model is assumed to be 0.25; the table also shows volume estimations based on a second assumed porosity of 0.10 (10%).

EVS Output of Caustic Brine Pool Volume at pH Threshold Levels

		Total Volume (ft3) @ 25% porosity			Total Volume (gal) @ 25%		
		pH = 10.5	pH = 11.0	pH = 12.0	pH = 10.5	pH = 11.0	pH = 12.0
1	1996	5.038E+06	3.043E+06	8.258E+05	37,680,500	22,763,510	6,176,797
2	2000	5.693E+06	3.154E+06	1.030E+06	42,579,900	23,588,180	7,706,457
3	2001	3.539E+06	1.414E+06	6.756E+04	26,473,590	10,580,273	505,330
5	2003	2.494E+06	1.035E+06	1.073E+04	18,656,242	7,740,678	80,245
6	2004	2.475E+06	7.226E+05	2.136E+04	18,515,244	5,405,235	159,784
7	2005	3.116E+06	1.223E+06	4.431E+04	23,309,550	9,149,910	331,458

Note: Effective porosit is assumed as 0.25.



	Total Volume (ft3) @ 10% porosity			Total Volume (gal) @ 10%		
	pH = 10.5	pH = 11.0	pH = 12.0	pH = 10.5	pH = 11.0	pH = 12.0
1996	2.015E+06	1.217E+06	3.303E+05	15,072,200	9,105,404	2,470,719
2000	2.277E+06	1.261E+06	4.121E+05	17,031,960	9,435,272	3,082,583
2001	1.416E+06	5.658E+05	2.702E+04	10,589,436	4,232,109	202,132
2003	9.977E+05	4.139E+05	4.291E+03	7,462,497	3,096,271	32,098
2004	9.901E+05	2.891E+05	8.545E+03	7,406,098	2,162,094	63,914
2005	1.247E+06	4.893E+05	1.773E+04	9,323,820	3,659,964	132,583

APPENDIX B

OFFSITE TREATMENT OF CBP GROUNDWATER ANALYTICAL DATA

B.1 CBP EXTRACTION WELL LOGS

B.2 OFFSITE PILOT TEST CBP PROFILE GROUNDWATER ANALYTICAL DATA

B.3 JEA DISCHARGE PERMIT FOR WRI AND WRI PROJECT REPORT

START FILLING INF. TANK 0.0'
STOP " " "

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 8-2-11 & 8-3-11

Time	Volume Extracted (gal.) EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
8-2-11													
1358	16994.4	37975.8	6436.8	5793.8	3463.2	996.1	15498.8	18398.0	25942.7	36387.4	7695.1	6160.5	—
1421	17008.2	38074.4	6462.2	5819.5	—	1010.4	15590.6	18512.9	25965.5	36498.2	7740.3	6173.7	—
1452	17022.9	38191.2	6491.8	5848.9	—	1025.0	15708.2	18660.8	25995.5	36645.4	7799.0	6188.8	—
1557	17056.0	38457.2	6557.9	5915.9	—	1058.3	15973.6	18992.9	26061.2	36977.4	7932.0	6221.8	—
1653	17083.8	38678.8	6613.5	5970.9	—	1085.9	16193.4	19267.1	26116.6	37251.3	8041.2	6249.3	—
0700	17083.8	38678.8	6613.5	5970.9	—	1085.9	16193.4	19267.1	26116.6	37251.3	8041.2	6249.3	—
0803	17118.0	38941.2	6679.9	6037.7	—	1120.8	16450.2	19591.0	26182.6	37576.9	8172.2	6284.0	—
0957	17174.7	39395.0	6793.4	6151.3	—	1177.5	16904.2	20156.1	26295.6	38142.5	8398.6	6340.5	—
1125	17218.5	39745.8	6881.0	6238.9	—	1221.4	17255.4	20596.0	26383.8	38581.6	8574.3	6384.7	—
8-3-11													
1218	17245.6	39960.4	6934.7	6292.6	—	1248.2	17471.2	20864.2	26437.6	38849.4	8681.5	6411.6	—
1352	17292.2	40335.6	7028.3	6386.5	—	1295.1	17845.1	21334.4	26531.6	39320.2	8870.0	6458.8	—
1438	17309.4	40496.1	7066.8	6423.9	—	1311.1	18019.0	21548.2	26574.4	39537.6	8956.0	6475.5	
NET	315.0	2520.3	630.0	630.1	—	315.0	2520.2	3150.2	631.7	3150.2	1260.9	315.0	—
NET TOTAL	15,438.6	GAL.											

R Gregory

START FILLING EFF TANK 0.0'
STOP " " " 13.6'

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 8-8-11

Time	Volume Extracted (gal.)												
	EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
0851	17309.4	40496.1	7066.8	6423.9	3463.2	1311.1	18019.0	21548.2	26574.4	39537.6	8956.0	6475.5	—
0915	17322.1	40588.2	7090.4	6448.4	—	1324.7	18105.4	21657.6	26597.4	39647.8	9001.3	6489.2	—
1111	17381.4	41062.4	7208.9	6566.7	—	1384.0	18579.6	22250.3	26715.8	40239.3	9237.8	6547.9	—
1226	17418.6	41359.8	7283.4	6640.8	—	1421.2	18877.4	22622.6	26790.2	40611.5	9386.5	6585.1	—
1333	17452.2	41627.3	7350.5	6707.9	—	1454.7	19145.5	22957.4	26857.5	40947.6	9521.2	6618.7	—
1433	17482.4	41869.4	7411.0	6768.5	—	1484.9	19387.5	23260.8	26917.9	41250.6	9642.0	6648.9	—
1532	17511.8	42104.4	7469.8	6827.3	—	1514.5	19623.7	23554.4	26976.4	41544.5	9759.8	6678.3	—
1623	17534.4	42296.2	7516.8	6873.9	—	1536.1	19820.8	23801.1	27024.1	41787.9	9856.1	6700.0	—
NET	225.0	1800.1	450.0	450.0	—	225.0	1801.8	2252.9	449.7	2250.3	900.1	224.5	—
NET TOTAL	11,029.4												

1617 EW12 - FLOW ERACTIC LOW FLOW 0.2 SHUT DOWN—

R Gregory

START FILLING INF. TANK 0.0'
STOP " " " 13.3'

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 8-10-11

EW-12 DRAW-DOWN

Time	Volume Extracted (gal.) EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	[illegible]
0712	17534.4	42296.2	7516.8	6873.9	3463.2	1536.1	19820.8	23801.1	27024.1	41787.9	9856.1	6700.0	—
0747	17553.6	42439.4	7553.6	6911.4	3500.8	1556.1	19959.4	23975.2	27060.2	41962.1	9926.9	6720.1	29.0'
0900	17590.1	42731.2	7626.4	6983.8	3573.6	1592.7	20251.0	24340.7	27133.4	42328.6	10073.6	6756.4	36.6'
1006	17623.2	42996.4	7692.7	7050.2	3639.7	1625.9	20516.2	24672.2	27199.6	42659.4	10205.7	6789.2	38.6'
1113	17656.4	43262.4	7759.2	7117.4	3706.3	1659.1	20782.3	25004.4	27265.0	42991.6	10338.7	6798.5	
1221	17690.0	43534.1	7827.2	7185.0	3774.3	1693.0	21054.6	25344.6	27333.7	43330.2	10474.5	6798.5	6.4'
1313	17716.7	43744.2	7879.6	7237.5	3826.8	1719.3	21264.7	25606.3	27386.6	43593.1	10579.2	6821.1	26.9'
1402	17741.4	43941.2	7929.0	7286.3	3876.1	1743.9	21461.4	25852.7	27435.6	43840.2	10678.2	6845.7	36.1
1437	17751.9	44036.3	7951.8	7308.9	3899.5	1753.6	21560.3	25976.4	27460.3	43963.7	10727.2	6861.6	38.6
NET	217.5	1740.1	435.0	435.0	436.3	217.5	1739.5	2175.3	436.2	2175.8	871.1	161.6	
NET TOTAL	11,040.9	GAL											

7.5

1030-SHUT OFF EW-12 LOW FLOW 0.2
WATER LEVEL METER TOUCHES TOP OF EW-12 PUMP @ 38.6'

1234- RE-START EW-12
1437- EW-12 OFF - PULLED DOWN 38.6'

START 0.0'
END 13.7'

EFF TANK

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 8-15-11

Time	Volume Extracted (gal.)												
	EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
0721	17751.9	44036.3	7951.8	7308.9	3899.5	1753.6	21560.3	25976.4	27460.3	43963.7	10727.2	6861.6	—
0752	17769.5	44165.6	7984.4	7342.5	3933.4	1771.9	21684.6	26133.2	27493.4	44121.5	10791.5	6879.9	—
0834	17790.4	44335.9	8027.5	7385.5	3977.0	1793.6	21858.5	26351.1	27536.8	44341.3	10879.8	6901.7	—
0930	17818.5	44556.7	8092.8	7440.5	4032.1	1821.2	22079.3	26627.7	27592.0	44617.2	10989.9	6929.4	—
1018	17841.5	44742.8	8129.2	7486.8	4078.3	1844.4	22264.8	26858.3	27638.2	44849.4	11082.8	6946.8	—
1115	17870.9	44978.4	8187.9	7545.6	4137.2	1873.9	22501.1	27153.8	27697.3	45144.0	11200.5	6962.2	—
1229	17901.8	45272.4	8261.7	7619.1	4210.4	1910.3	22792.2	27517.8	27769.4	45506.4	11345.3	6998.3	—
1330	17937.5	45511.7	8321.8	7679.4	4270.9	1940.7	23036.5	27823.5	27831.0	45812.4	11468.5	7009.1	—
1439	17969.4	45776.3	8386.8	7743.9	4335.9	1971.1	23300.4	28151.6	27896.9	46140.5	11599.1	7038.7	—
NET	217.5	1740.0	435.0	435.0	436.4	217.5	1740.1	2175.2	436.6	2176.8	871.9	177.1	—
NET TOTAL	11,059.1												

1008 SHUT DOWN EW-12, LOW FLOW
1051 RESTART EW-12
1738 - SHUT DOWN EW-12, LOW FLOW, ERACTIC 0.2 - 0.5
1345 - RESTART EW-12 AFTER RECOVERY

R Gregory

EFF. TANK READS 13.7' = 11,576.5 GAL.
FLOW TOTALIZE READS — 11,059.1

START FILLING INF. TANK 0.0
STOP " " " 13.3

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 8-16-11

Time	Volume Extracted (gal.)												
	EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
0732	17969.4	45776.3	8386.8	7743.9	4335.9	1971.1	23300.4	28151.6	27896.9	46140.5	11599.1	7038.7	—
0810	17989.0	45924.1	8424.8	7782.2	4375.0	1991.9	23446.0	28335.6	27934.8	46326.5	11674.6	7056.7	—
0910	18020.1	46172.5	8486.7	7844.3	4436.8	2023.0	23694.4	28645.1	27996.6	46634.7	11797.9	7087.8	—
1010	18048.6	46399.6	8543.6	7901.7	4494.0	2051.4	23922.3	28930.7	28053.9	46920.2	11912.0	7115.8	—
1111	18080.9	46656.5	8607.6	7965.5	4558.0	2083.5	24177.8	29249.4	28117.7	47238.7	12039.4	7128.4	—
1200	18105.3	46852.6	8656.5	8014.5	4606.7	2107.8	24372.2	29491.8	28166.1	47481.0	12136.2	7140.5	—
1315	18144.8	47167.8	8735.5	8093.7	4687.7	2147.5	24689.6	29888.9	28245.6	47878.6	12295.7	7160.8	—
1410	18170.2	47371.4	8786.4	8144.4	4736.2	2172.7	24891.4	30140.8	28295.6	48129.6	12395.8	7203.8	—
1449	18186.9	47516.4	8821.8	8178.9	4772.3	2188.7	25041.3	30327.9	28331.9	48316.4	12469.2	7203.8	—
NET	217.5	1740.1	435.0	435.0	436.4	217.6	1740.6	2176.3	435.0	2175.9	870.1	165.1	—
NET TOTAL	11,044.6	GAL.											

1039 - SHUT DOWN EW-12 - LOW FLOW 0.2
1141 - RESTART EW-12 RECOVERY TO 10.0'
1409 - SHUT OFF EW-12, ERRATIC FLOW 0.3/0.7

NET TOTAL GAL. 11,044.6
SCADA READS 13.3' = 11,238.5 GAL.

C Gregory

START EFF. TANK 0.0
STOP " " 13.6

EFF. TANK

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 8-18-11

Time	Volume Extracted (gal.)												
	EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
0725	18186.9	47516.4	8821.8	8178.9	4772.3	2188.7	25041.3	30327.9	28331.9	48316.4	12469.2	7203.8	—
0825	18218.3	47758.2	8883.4	8241.3	4834.8	2221.5	25281.5	30629.2	28393.3	48618.9	12591.6	7236.5	—
0929	18250.6	48017.2	8947.9	83057	4900.3	2253.8	25541.7	30955.5	28458.5	48944.7	12721.4	7269.2	—
1032	18281.9	48267.9	9010.5	8367.3	4962.5	2285.1	25790.2	31265.2	28520.6	49254.1	12845.6	7298.5	—
1125	18308.4	48480.0	9063.6	8421.2	5015.5	2311.5	26002.5	31530.6	28573.7	49520.4	12952.4	7305.7	—
1218	18335.0	48691.3	9116.4	8474.0	5068.0	2337.9	26212.0	31792.4	28625.7	49779.9	13055.4	7331.2	—
1328	18369.7	48968.3	9185.7	8543.6	5137.7	2372.8	26492.4	32144.2	28696.2	50133.6	13197.3	7337.4	—
1443	18404.4	49257.3	9256.8	8614.1	5207.3	2406.2	26783.9	32507.4	28766.9	50491.7	13339.3	7372.3	—
NET	217.5	1740.9	435.0	435.2	435.0	217.5	1742.6	2179.5	435.0	2175.3	870.1	168.5	—
NET TOTAL	11,052.1												

1036 — SHUT DOWN EW-12 LOW FLOW
1120 - RESTART EW-12
1218- SHUT DOWN EW-12 LOW FLOW
1326 RESTART EW-12

R Gregory

INF TANK

Start Inf. Tank 0.0
Stop Inf. Tank 13.4

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 8-22-11

Time	Volume Extracted (gal.)												
	EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
0720	18404.4	49257.3	9256.8	8614.1	5207.3	2406.2	26783.9	32507.4	28766.9	50491.7	13339.3	7372.3	—
0820	18434.9	49490.7	9316.3	8674.6	5268.2	2437.8	27015.4	32797.0	28826.2	50782.5	13456.8	7404.1	—
0926	18468.5	49760.9	9383.6	8741.7	5334.2	2471.5	27284.6	33134.8	28893.4	51114.6	13592.6	7437.7	—
1025	18497.4	49992.1	9441.7	8799.8	5393.5	2500.6	27517.0	33425.2	28951.6	51410.4	13708.1	7455.8	—
1120	18526.3	50221.0	9498.3	8855.6	5448.8	2528.1	27734.8	33695.7	29005.0	51674.7	13812.4	7477.4	—
1220	18555.3	50453.6	9556.8	8914.8	5508.2	2558.1	27975.8	33999.8	29066.7	51985.3	13938.2	7508.8	—
1318	18583.7	50681.0	9613.5	8971.4	5564.9	2586.4	28202.4	34283.3	29123.1	52267.5	14050.9	7524.8	—
1489	18619.9	50971.9	9686.1	9044.1	5637.7	2622.8	28492.9	34647.0	29196.0	52632.2	14196.5	7561.3	—
1440	18621.9	50997.7	9692.1	9050.2	5642.3	2623.8	28525.9	34688.0	29201.9	52667.0	14209.4	7565.0	—
Net	217.5	1740.4	435.3	436.1	435.0	217.6	1742.0	2180.6	435.0	2175.3	870.1	192.7	—
Net Total	11,077.6												

Start - Level 0.0
Stop - Level 13.6'

Eff. TANK

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 8-28-11

Time	Volume Extracted (gal.)												
	EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
0718	18621.9	50997.7	9692.1	9050.2	5642.3	2623.8	28525.9	34688.0	29201.9	52667.0	14209.4	7565.0	—
0821	18655.0	51252.6	9756.7	9115.1	5707.8	2658.1	28777.8	35004.4	29246.7	52985.6	14338.0	7599.3	—
0920	18683.1	51477.8	9812.8	9171.7	5764.6	2686.2	29004.4	35287.9	29323.0	53267.8	14451.0	7627.4	—
1020	18714.6	51728.9	9875.6	9234.7	5827.1	2717.6	29254.8	35600.6	29385.9	53581.7	14576.4	7643.5	—
1118	18742.7	51953.7	9931.9	9290.9	5883.5	2745.8	29479.8	35883.4	29442.1	53863.8	14689.2	7673.7	—
1220	18773.1	52196.2	9992.4	9351.5	5944.1	2776.0	29721.3	36183.7	29502.2	54164.2	14809.3	7696.4	—
1322	18808.1	52427.4	10050.5	9409.5	6002.3	2805.0	29954.1	36474.7	29560.4	54455.2	14925.7	7718.4	—
1437	18839.4	~~52738.3~~ 52739.6	10127.1	9485.6	6077.3	2841.3	30266.1	36864.6	29636.9	~~54847.2~~ 54842.4	15080.8	7748.8	—
Net	217.5	1740.9	435	435.4	435	217.5	1740.2	2176.6	435	2175.4	871.4	183.8	
Net total	11,063.7												

0956 — Shut down EW-12 - low flow - 0.2
1025 - Restart EW-12
1207 — Shut down EW-12 - Eractic flow
1237 — Restart EW-12
1421 - Shut down EW-12 - Low flow - 0.2

Start Level - 0.0
Stop Level - 13.4'

INF. TANK

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 8-25-11

Time	Volume Extracted (gal.) EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
0722	18839.4	52738.6	10127.1	9485.6	6077.3	2841.3	30266.1	36864.6	29636.9	54842.4	15080.8	7748.8	—
0824	18870.9	52979.0	10188.3	9547.3	6139.6	2873.7	30503.7	37163.6	29698.0	55142.9	15202.4	7781.6	—
0921	18900.2	53212.9	10246.7	9605.5	6197.9	2903.0	30738.1	37455.8	29756.6	55436.1	15319.4	7810.3	—
1020	18930.5	53456.7	10307.5	9666.3	6259.1	2933.4	30981.4	37760.4	29817.8	55740.5	15441.6	7827.4	—
1125	18962.6	53713.1	10371.4	9730.4	6323.2	2965.6	31238.7	38083.5	29882.3	56064.6	15570.9	7856.7	—
1223	18992.1	53950.0	10430.5	9791.6	6384.2	2996.1	31482.0	38386.7	29942.6	56366.3	15691.5	7883.0	—
1328	19024.5	54209.3	10495.6	9855.4	6448.6	3028.4	31741.2	38710.3	30007.4	56690.4	15821.1	7905.7	—
1422	19051.1	54422.0	10548.8	9908.4	6500.6	3054.2	31946.9	38962.3	30059.1	56948.9	15924.7	7926.3	—
1445	19056.9	54482.6	10563.9	9922.7	6512.3	3058.8	32009.0	39044.7	30071.9	57017.8	15951.6	7982.5	—
Net	217.5	1744	436.8	437.1	435	217.5	1742.9	2180.1	435	2175.4	870.8	183.7	
Net Total	11,075.8												

1002 — Shut down EW-12 low flow - 0.2
1034 - Restart EW-12
1225 - Shut down EW-12 - erratic flow up & down
1253 - Restart EW-12
1420 - Shut down EW-12 low flow

AQ Jones

Start Level - 0.0
Stop Level - 13.7'

EFF TANK

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 8-29-11

Time	Volume Extracted (gal.)												
	EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
0733	19056.9	54482.6	10563.9	9922.7	6512.3	3058.8	32009.0	39044.7	30071.9	57017.8	15951.6	7932.5	—
0842	19094.3	54771.8	10637.0	9996.4	6586.3	3097.0	32293.5	39401.1	30143.9	57373.6	16095.1	7970.4	—
0937	19121.7	54990.9	10691.8	10051.3	6640.8	3124.5	32513.5	39676.6	30199.0	57648.8	16205.3	7996.6	—
1042	19153.7	55248.8	10756.2	10115.7	6705.7	3156.7	32771.3	39999.1	30260.4	57970.9	16333.6	8060.0	—
1132	19177.6	55437.8	10803.6	10162.9	6752.6	3180.3	32959.6	40233.8	30310.3	58205.6	16427.5	8085.5	—
1244	19215.1	55737.6	10878.5	10237.7	6827.6	3217.7	33258.4	40606.9	30384.9	58578.3	16576.9	8058.1	—
1344	19245.0	55979.8	10939.1	10298.4	6888.0	3248.1	33501.9	40911.2	30445.7	58883.6	16698.8	8079.5	—
1450	19274.5	56224.5	10998.9	10357.7	6947.5	3276.6	33754.1	~~41219.3~~ 41219.7	30506.9	59193.0	16821.7	8110.2	—
Net	217.6	1741.9	435	435	435.2	217.8	1745.1	2175	435	2175.2	870.1	177.7	
Net Total	11,060.6												

0948 - Shut down EW-12 Erratic flow up + down from 0.2 - 1.7 GPM
1045 - Restart EW-12
1243 - Shut down EW-12 - Low flow
1310 - Restart EW-12

D. A. Jones

INF. TANK
Start Level – 0.0
Stop Level – 13.4'

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 8-30-11

Time	Volume Extracted (gal.)												
	EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
0722	19274.5	56224.5	10998.9	10357.7	6947.5	3276.6	33754.1	41219.8	30506.9	59193.0	16821.7	8110.2	—
0827	19309.2	56491.5	11066.6	10426.0	7015.5	3312.0	34015.8	41548.3	30572.3	59514.6	16951.5	8144.9	—
0936	19343.8	56767.7	11135.3	10494.7	7084.6	3346.5	34291.7	41893.6	30641.1	59858.7	17089.1	8174.9	—
1039	19375.2	57018.1	11198.1	10557.5	7146.8	3377.8	34541.4	42205.2	30703.4	60169.8	17213.5	8186.1	—
1128	19397.9	57200.6	11243.9	10603.3	7192.9	3400.6	34724.8	42434.9	30749.2	60393.2	17307.3	8209.3	—
1235	19433.1	57482.7	11314.4	10673.8	7263.7	3436.1	35007.9	42788.0	30820.1	60753.6	17447.2	8241.0	—
1330	19461.5	57709.6	11370.9	10730.2	7320.2	3464.2	35232.6	43069.0	30876.1	61034.5	17559.2	8257.1	—
1441	19492.0	57965.2	11433.9	10792.7	7383.0	3494.3	35494.4	43395.7	30941.9	61368.2	17691.7	8289.7	—
Net	217.5	1740.7	435	435	435.5	217.7	1740.3	2175.9	435	2175.2	870	179.5	
Net Total	11,057.3												

0949 – Shut down EW-12 Eractic flow up + down
1038 – Restart EW-12
1306 – Shut down EW-12 – Low flow
1330 – Restart EW-12

A. Jones

ADD TO INF. TANK 12.1', 16.3'

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 7-5-11

Time	Volume Extracted (gal.)												
	EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
0656	16013.4	27857.5	4484.4	3839.4	3463.2	655.8	3811.9	3638.4	23993.5	26669.6	3805.1	5179.9	—
0736		28031.3					3957.8	4043.7					
0818		28194.2					4124.4	4247.3					
0942		28532.3					4470.6	4680.6					
1043		28775.2					4716.8	4973.9					
1126		28948.1					4891.4	5187.7					
NET		1090.6					1079.5	1349.3					

TOTAL

ADD TO INF. TANK 12.1'
16.3'

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 7-5-11

Time	Volume Extracted (gal.)												
	EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
0656	16013.4	27857.5	4484.4	3839.4	3463.2	655.8	3811.9	3638.4	23993.5	26669.6	3805.1	5179.9	—
0736		28031.3					3957.8	4043.7					
0818		28194.2					4124.4	4247.3					
0942		28532.3					4470.6	4680.6					
1043		28775.2					4716.8	4973.9					
1126		28948.1					4891.4	5187.7					
NET		1090.6					1079.5	1349.3					

4.5

TOTAL

L Gregory

POMPING EW-6 INTO (2) 55 GAL. DRUMS FOR PARSONS

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 7-5-11 & 7-6-11

Time	Volume Extracted (gal.) EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
7-5-11 1508						655.8							
1546						683.5							
1615						697.7							
7-6-11 0748						697.7							
0825						718.8							
0851						732.0							
1024						737.1							
1100						758.1							
1125						770.8							
1126						771.1							

R Gregory

START – ADD CB TO INF. TANK 7.6'

STOP – 12.2'

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 7-12-11

Time	Volume Extracted (gal.)												
	EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
1027	16013.4	28948.1	4484.4	3839.4	3463.2	771.1	4891.4	5187.7	23993.5	26669.6	3805.1	5179.9	—
1022		29173.8					5110.6	5499.4					
1155		29299.0					5236.6	5619.2					
1230		29440.8					5379.4	5793.8					
1315		29620.5					5559.8	6017.5					
1358		29792.4					5732.3	6231.3					
1453		30013.2					5954.0	6509.1					
1530		30159.3					6100.9	6689.3					
NET		1211.2					1209.5	1501.6					

5

A. Jones

3927.3

PURGE EW-2, 7, 8 INTO 55 GAL DRUMS
(to take samples @ manifold)

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 7-13-11

Time	Volume Extracted (gal.)												
	EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
1007	16013.4	30159.3	4484.4	3839.4	3463.2	771.1	6100.9	6689.3	23993.5	26669.6	3805.1	5179.9	——
1012		30172.5											
1020							6112.3						
1026								6697.7					

A. Jones

Start - Adding EW-7+8 CB to EFF Tank 7.9'
Stop - ~~12.2~~ 12.2'

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 7-13-11

Time	Volume Extracted (gal.)												
	EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
1415	16013.4	30172.5	4484.4	3839.4	3463.2	771.1	6112.3	6697.7	23993.5	26669.6	3805.1	5179.9	—
1455							6269.8	6889.5					
1535							6434.5	7092.0					
1612							6580.9	7272.6					
1700							6778.4	7516.7					
0724	16013.4	30172.5	4448.4	3839.4	3463.2	771.1	6778.4	7516.7	23993.5	26669.6	3805.1	5179.9	—
0800							6925.5	7698.5					
0840							7086.9	7895.9					
0922							7262.5	8111.0					
1005							7439.3	8328.8					
1045							7596.5	8521.8					
1115							7722.4	8676.1					

7-13-11 3.0

7-14-11 4

INF. TANK

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 7-19-11

Time	Volume Extracted (gal.) EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
0835	16013.4	30172.5	4484.4	3839.4	3463.2	771.1	7722.4	8676.1	23993.5	26669.6	3805.1	5179.9	—
0906	16031.5	30306.6	4517.8	3873.6	—	—	7748.9	8835.8	24026.6	26835.9	3868.9	5197.3	—
1005	16060.2	30535.8	4575.2	3930.0	—	—	8076.5	9119.8	24083.3	27107.9	3881.7	5225.5	—
1118	16097.5	30833.8	4649.7	4004.5	—	—	8373.8	9492.0	24157.7	27479.7	4131.6	5263.6	—
1215	16125.1	31054.7	4704.8	4060.3	—	—	8595.5	9768.5	24213.1	27756.3	4241.5	5291.0	—
1320	16157.4	31313.9	4769.9	4125.7	—	—	8857.6	10096.9	24279.7	28089.5	4374.9	5324.2	—
1421	16188.8	31567.8	4832.6	4187.7	—	—	9106.5	10406.8	24340.4	28394.7	4496.6	5354.8	—
1520	16218.8	31804.8	4892.2	4247.1	—	—	9344.4	10704.3	24399.9	28692.6	4615.8	5384.6	—
1600	16237.9	31956.3	4929.9	4284.7	—	—	9493.5	10889.6	24436.9	28875.4	4688.6	5402.7	
NET	224.5	1783.8	445.5	445.3	—	—	1771.1	2213.9	443.4	2205.8	883.9	222.8	
Total Extracted			10640.0 GALS.										

7.5

EFF. TANK

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 7-20-11

Time	Volume Extracted (gal.) EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
1507	16237.9	31956.3	4929.9	4284.7	—	—	9493.5	10889.6	24436.9	28875.4	4688.6	5402.7	—
1550	16260.0	32124.6	4972.8	4328.6	—	—	9663.8	11104.8	24482.5	29099.1	4778.7	5427.6	—
1707	16297.7	32426.0	5047.8	4403.7	—	—	9961.3	11475.7	24556.5	29467.3	4925.8	5463.9	—
							7-21-11						
0715	16297.7	32426.0	5047.8	4403.7	—	—	9961.3	11475.7	24556.5	29467.3	4925.8	5463.9	—
0750	16317.9	32575.3	5085.9	4442.7	—	—	10107.5	11659.4	24594.2	29650.4	4999.9	5484.5	—
0850	16345.9	32801.5	5142.5	4498.7	—	—	10331.6	11940.8	24650.4	29931.9	5112.6	5512.5	—
0950	16376.6	33045.5	5203.9	4560.1	—	—	10578.4	12247.8	24711.7	30239.1	5235.6	5543.2	—
1100	16413.0	33336.7	5276.4	4632.6	—	1081[illegible]	3462.6	12616.9	24785.7	30607.9	5383.2	5580.4	—
1205	16443.8	33583.8	5338.4	4694.6	—	—	11115.9	12920.9	24846.5	30911.5	5504.6	5610.8	—
1225	16453.4	33659.8	5357.0	4713.5	—	—	11188.5	13010.1	24864.2	30999.0	5539.4	5619.5	—
1415	16453.4	33659.8	5357.0	4713.5	—	—	11188.5	13010.1	24864.2	30999.0	5539.4	5619.5	—
1515	16484.0	33893.7	5416.9	4774.1	—	—	11419.7	13299.9	24923.2	31289.9	5656.6	5651.1	—
~~1615~~	~~16515.1~~	~~34141.2~~	~~5478.5~~	~~4835.8~~	—	—							
1715	16544.4	34375.4	5536.7	4893.8	—	—	11898.2	13897.5	25042.7	31885.7	5894.9	5710.4	—
NET	306.5	2419.1	606.8	609.1			2404.7	3007.9	605.8	3010.3	1206.3	307.7	
TOTAL		14484.2											

INF. TANK

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 7-25-11 & 7-26-11

Time	Volume Extracted (gal.) EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
1416	16544.4	34375.4	5536.7	4893.8	—	771.1	11898.2	13897.5	25042.7	31885.7	5894.9	5710.4	—
1454	16565.2	34533.4	5577.0	4934.8	—	793.6	12051.7	14090.0	25082.7	32079.7	5973.1	5731.8	—
1612	16604.8	34846.1	5655.5	5013.0	—	832.4	12366.8	14484.6	25161.4	32474.4	6131.3	5771.6	—
1710	16632.7	35069.2	5710.9	5068.3	—	860.0	12587.2	14759.3	25216.3	32747.6	6240.4	5798.7	—
						7-26-11							
0747	16632.7	35069.2	5710.9	5068.3	—	860.3	12587.2	14759.3	25216.3	32747.6	6240.4	5798.7	—
0900	16673.3	35381.3	5798.4	5148.2	—	901.3	12895.5	15138.7	25294.7	33128.8	6396.5	5839.5	—
1002	16704.6	35632.7	5852.9	5210.8	—	932.9	13147.6	15453.8	25357.6	33443.9	6522.2	5871.1	—
1102	16734.8	35874.4	5913.1	5271.2	—	962.9	13387.9	15753.9	25418.9	33748.8	6644.3	5901.5	—
1223	16769.4	36175.6	5986.8	5343.8	—	996.1	13698.5	16147.7	25492.7	34136.0	6795.0	5935.5	—
NET TOTAL	225	1800.2	450.1	450	—	225	1800.3	2250.2	450	2250.3	900.1	225.1	
TOTAL	11,026.3												

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 7-28-11 & 7-29-11 EFF. TANK

Time	Volume Extracted (gal.) EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
1000	16769.4	36175.6	5986.8	5343.8	3463.2	996.1	13698.5	16147.7	25492.7	34136.0	6795.0	5935.5	—
1045	16792.4	36348.5	6030.9	5388.9	—	—	13868.4	16361.9	25536.9	34351.2	6882.2	5959.2	—
1147	16823.4	36596.7	6092.9	5450.7	—	—	14114.5	16671.0	25598.5	34659.8	7005.6	5990.5	—
1225	16843.3	36754.2	6132.2	5489.6	—	—	14269.6	16864.8	25637.2	34852.4	7082.1	6009.5	—
1340	16843.3	36754.2	6132.2	5489.6	—	—	14269.6	16864.8	25637.2	34852.4	7082.1	6009.5	—
1453	16881.0	37044.0	6205.4	5563.8	—	—	14554.5	17221.6	25709.9	35209.0	7226.1	6047.3	—
1600	16914.4	37313.2	6272.7	5631.2	—	—	14823.9	17560.8	25777.7	35551.8	7363.4	6082.1	—
1703	16945.9	37562.7	6334.8	5693.0	—	—	15070.5	17868.2	25839.0	35856.5	7484.6	6112.2	—
0718	16945.9	37562.7	6334.8	5693.0	—	—	15070.5	17868.2	25839.0	35856.5	7484.6	6112.2	—
0746	16960.0	37670.7	6362.5	5721.2	—	—	15173.5	17997.9	25866.2	35987.4	7537.9	6127.5	—
0832	16984.2	37856.8	6408.8	5767.4	—	—	15358.4	18229.8	25912.4	36218.5	7630.2	6150.6	—
0907	16994.4	37975.8	6436.8	5793.8	—		15498.8	18398.0	25942.7	36387.4	7695.1	6160.5	—
NET	225	1800.2	450	450	—	—	1800.3	2250.3	450	2251.4	900.1	225	
TOTAL	10,802.3												

7-28-11 6.0 HRS.

7-29-11 2 HRS.

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 11-2-10

Time	Volume Extracted (gal.) EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
1225	24151.0	24270.5	0.0	0.0	0.3	0.0	58.1	1.5	23920.2	24046.7	0.0	6631.6	0.0
1241	24168.1	24291.0	17.3	1.4	16.7	10.1	75.3	19.3	23936.5	24064.6	16.5	6647.9	0.0
1404	24204.9	24331.2	54.4	6.4	53.3	30.2	112.3	56.9	23972.4	24102.0	52.7	6684.8	0.0
1437	RESTART EWS												
1501	24230.4	24360.0	80.2	14.5	78.1	44.6	138.0	83.0	23997.1	24128.2	77.8	6710.4	0.0
1547	24275.5	24405.1	125.2	29.1	123.2	67.1	183.1	128.5	24042.6	24173.9	123.1	6755.9	0.0
1700	24349.4	24478.9	198.8	51.6	197.2	103.8	256.4	201.6	24115.5	24246.9	196.0	6828.9	0.0

SHUT EWS OFF @ 1241 — #13 TRIPS OUT
" " " 1404 — #13 & #4 TRIP OUT
RESTART EWS @ 1437 - #13 OUT #4 SET @ 0.05 BUT PUMPING @ 0.03
EWS OFF @ 1700 — CLOSED VALVE FROM INFLUENT TANK —

L Gregory

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 11-4-10

Time	Volume Extracted (gal.) EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
1312	24349.4	24478.9	198.8	51.6	197.2	103.8	256.4	201.6	24115.5	24246.9	196.0	6828.9	0.0
1406	24402.7	24535.3	252.4		251.0	132.3	310.9	256.4	24169.2	24302.1	249.9	6883.2	
1500	24457.0	24590.0	306.9		305.2	159.4	365.2	311.2	24232.5	24356.2	304.1	6937.4	
1602	24518.7	24651.9	368.6		366.7	190.2	426.9	373.1	24285.1	24418.4	365.7	6999.1	
1708	24584.4	24717.5	434.4		432.5	223.3	492.9	439.0	24351.2	24484.3	431.8	7065.4	
1805	24642.3	24775.4	492.3		490.5	252.3	550.4	496.2	24408.5	24541.6	489.2	7123.0	
1903	24700.8	24833.9	550.6		548.8	281.5	608.8	554.7	24467.0	24600.0	547.7	7181.5	
2002	24758.1	24892.0	608.5		606.4	310.4	666.6	612.4	24524.6	24659.9	605.0	7238.7	

1312 – START EW-1, 2, 3, 5, 6, 7, 8, 9, 10, 11, 12 EW #4, 13 OFF
2002 – EW'S - OFF

R Gregory

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 11-5-10

Time	Volume Extracted (gal.)												
	EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
0720	24759.1	24892.0	608.5		606.4	310.4	666.6	612.4	24524.6	24657.9	605.0	7238.7	
0802	24801.4	24937.5	651.2		648.5	333.4	709.9	656.2	24567.3	24702.1	647.9	7282.4	
0901	24859.6	24996.0	709.4		706.8	362.4	768.1	714.8	24625.2	24760.4	705.9	7340.5	
0944	24906.9	25043.2	756.5		754.1	371.0	814.9	761.3	24671.9	24807.1	752.5	7386.6	
1145	24906.9	25043.2	756.5	52.6	754.1	373.0	814.9	761.3	24671.9	24807.1	752.5	7386.6	0.0

0720 START EWS - 1, 2, 3, 5, 6, 7, 8, 9, 10, 11, 12 EWS 4, 13 OFF
0944 EWS OFF # 6 EW FAIL ON FAULT - TRIED TO RESTART 3 TIMES - TRIPS OUT

R Gregory

INF. TANK

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 6-8-11

Time	Volume Extracted (gal.) EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12
0723	15367.0	22954.7	3.8	15.8	2.9	2.0	7.6	11.5	22714.7	22804.9	0.8	4527.8
0743	15378.7	22991.2	61.6	73.7	53.5	13.2	66.8	70.1	22733.8	22861.3	55.3	4539.0
0954	15378.7	22991.2	61.6	73.7	53.5	13.2	66.8	70.1	22733.8	22861.3	55.3	4539.0
1117	15423.4	23152.7	319.0	331.3	269.5	58.6	200.4	326.4	22819.9	23117.1	310.1	4583.5
1221	15456.6	23273.2	512.0	524.3	439.5	90.7	328.3	518.8	22884.4	23310.2	502.9	4616.1
1316	15481.8	23371.0	668.2	680.6	576.1	1168.7	456.7	675.6	22936.4	23467.4	660.1	4642.4
1420	15533.3	23565.6	977.5	989.9	847.5	168.2	763.8	984.6	23039.6	23775.5	968.3	4693.7
1616	15573.0	23714.4	1215.7	1228.4	1057.1	208.0	1002.0	1223.1	23118.6	24014.4	1206.9	4733.4
1859	15592.1	24017.4	1641.2	1367.4	1353.1	235.4	1358.1	1374.9	23168.2	24212.0	1351.3	4761.8
					~~1350.2~~							
NET GAL	225.1	1062.7	1637.4	1351.6	1350.2	233.4	1350.5	1363.4	453.5	1407.1	1350.1	234.0
TOTAL GAL	12,019.0											

SHUT DOWN PUMPS @ 0743 DUE TO ERACTIC FLOW ON EW-2, 5, 7
RESTART ALL WELLS @ 0954 - RESET EW2 - 1.9 EW5 - 2.5 EW7 - 1.5
EW7 FLOW INCREASED SLOWLY, PICK UP TO 3.0 GPM
EW2 WOULD NOT INCREASE (TRIED) REMAINED AT 1.9
EW5 " " " " " " 2.6

C Gregory

EFF. TANK

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 6-14-11 & 6-15-11

Time	Volume Extracted (gal.) EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
6-14-11 0954	15592.1	24017.4	1641.2	1367.4	1353.1	235.4	1358.1	1374.9	23168.2	24212.0	1351.3	4761.8	—
1105	15622.9	24123.8	1811.0	1537.0	1455.6	266.4	1440.6	1545.5	23225.3	24381.2	1520.2	4792.1	—
1213	15663.6	24270.7	2056.2	1782.6	1603.2	307.3	1668.0	1792.8	23307.7	24628.9	1767.1	4833.2	—
1334	15703.4	24414.4	2296.8	2023.0	1746.9	347.3	1906.7	2031.2	23387.6	24868.4	2006.5	4873.1	—
1524	15731.1	24506.8	2449.8	2175.9	1838.9	375.3	2033.7	2184.4	23438.9	25021.2	2157.2	4900.7	—
1705	15780.9	24687.0	2747.5	2473.5	2017.1	424.8	2326.4	2480.5	23537.5	25316.6	2452.2	4949.4	
6-15-11 0712	15780.9	24687.0	2747.5	2473.5	2017.1	424.8	2326.4	2480.5	23537.5	25316.6	2452.2	4949.4	—
0740	15795.8	24735.4	2826.3	2553.0	2064.6	440.5	2376.2	2559.2	23564.5	25396.4	2530.9	4964.9	—
0758	15802.5	24760.2	2866.1	2592.2	2088.0	447.0	2413.7	2598.6	23577.2	25433.9	2568.2	4971.1	—
0947	15808.1	24947.2	2888.7	2615.0	2272.4	453.4	2419.9	2622.8	23586.4	25458.0	2591.2	4977.5	—
1334	15817.1	25368.6	2991.9	2718.3	2703.2	460.4	2708.2	2725.5	23620.7	25562.7	2701.4	4986.8	—
													—
NET	225.0	1351.2	1350.7	1350.9	1350.1	225.0	1350.1	1350.6	452.5	1350.7	1350.1	225.0	—
TOTAL EXTRACTED			11,931.9	GAL									

1400 ALL EWS TRIPPED OUT DUE TO HEAT ???
1510 RESTART ALL EWS 1-12

RG

INF. TANK

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 6-16-11

Time	Volume Extracted (gal.) EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
1014	15817.1	25368.6	2991.9	2718.3	2703.2	460.4	2708.2	2725.5	23620.7	25562.7	2701.4	4986.8	—
1050	15837.2	25438.4	3104.0	2830.0	2774.2	481.0	2796.5	2832.9	23657.5	25669.6	2807.4	5006.9	—
1150	15867.4	25547.2	3279.4	3005.6	2891.3	510.2	2972.0	3008.7	23715.7	25845.5	2983.2	5035.8	—
1357	15931.2	25788.5	3678.4	3405.4	3157.5	576.7	3371.1	3371.7	23848.4	26244.4	3382.0	5102.7	—
1546	15969.4	25922.5	3883.6	3610.2	3297.5	613.2	3561.9	3611.8	23915.2	26443.2	3579.2	5138.1	—
1701	16006.7	26060.8	4106.1	3832.2	3545.4	650.2	3783.2	3832.7	23988.9	26683	3799.4	5174.2	—
	189.6	692.3	1114.2	1113.9	842.2	189.8	1,075.0	1107.2	368.2	1100.6	1098.0	187.4	

6-16-11

6-16-11 1456 ALL EWS TRIPPED OUT — HEAT ???
6-16-11 1532 RESTARTED ALL EWS 1–12

R Gregory

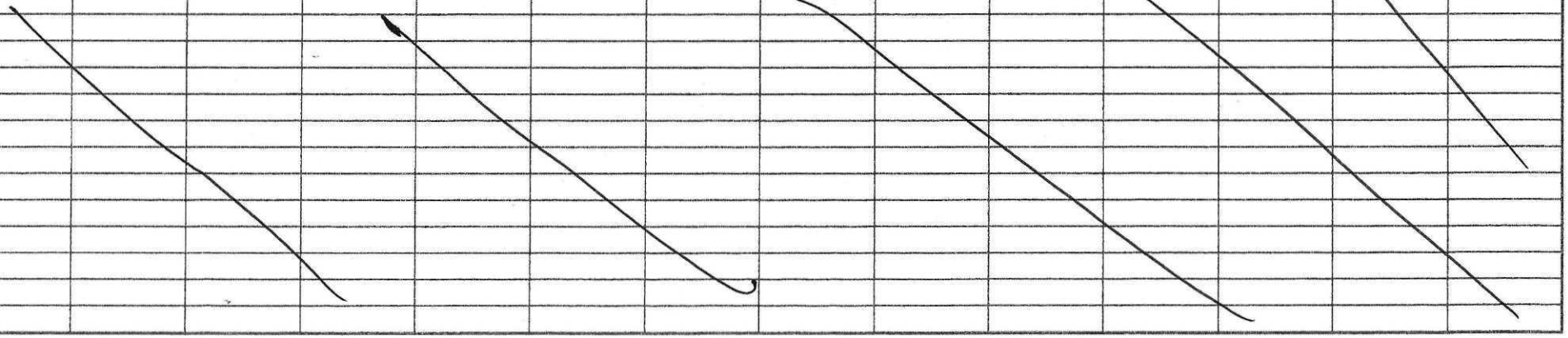
ADDITIONAL PUMPING TO EFF. TANK
1224 – 14.7' EFF. TANK START
1703 15.7' EFF. TANK FINISH

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 6-20-11

Time	Volume Extracted (gal.) EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
1224		26060.8	4106.1										
1252		26112.1	4208.3										
1349		26218.6	4426.1										
1438		26310.8	4478.7										
1520		26389.6	—										
1632		26525.4	—										
1703		26582.0	4478.7										
NET		521.2	372.6										

4.5



1224-START UP EW-2 & EW-3
1403-SHUT DOWN EW-3
1703 SHUT DOWN EW-2

R Gregory

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 6-21-11

Time	Volume Extracted (gal.) EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
1354	16006.7	26582.0	4478.7	3832.2	3446.4	650.2	3783.2	3832.7	23988.9	26663.3	3799.4	5174.2	—
1354	16013.4												
1403		26594.7											
1408			4484.4										
1450				3839.4									
1457					3458.6								
1504						655.8							
1511							3789.7						
1537								3838.4					
1541									23993.5				
1546										26669.6			
1551											3805.1		
1556												5179.9	
NET	6.7	12.7	5.7	7.2	13.2	5.6	6.9	5.7	4.6	6.3	5.7	5.7 =	86 GAL

CB SAMPLING EWS 1–12 FROM MANIFOLD — CB WATER PURGED INT 55 GAL. DRUMS

R Gregory

ADDING TO INFLUENT TANK

START INF. TANK 10.7

LCP Chemicals Site, Brunswick, Georgia

Caustic Brine Pool Removal Action

Extraction Well Test

DATE 6-22-11 – 6-23-11

Time	Volume Extracted (gal.) EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
6-22-11 1.5													
1533		26602.4											
1553		26639.6											
1623		26696.2											
1657		26759.9											
0722		26759.9											
0820		26870.0											
0947		27034.5											
1106		27182.6											
6-23-11 5.5 1219		27301.6											
1340		27456.0											
1501		27601.2											
1611		27739.1											
1654		27817.6											
NET TOTAL		1215.2	GAL.										

C Gregory

EFF. TANK

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 6-14-11 & 6-15-11

	Time	Volume Extracted (gal.) EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
6-14-11	0954	15592.1	24017.4	1641.2	1367.4	1353.1	235.4	1358.1	1374.9	23168.2	24212.0	1351.3	4761.8	—
	1105	15622.9	24123.8	1811.0	1537.0	1455.6	266.4	1440.6	1545.5	23225.3	24381.2	1520.2	4792.1	—
	1213	15663.6	24270.7	2056.2	1782.6	1603.2	307.3	1668.0	1792.8	23307.7	24628.9	1761.1	4833.2	—
	1334	15703.4	24414.4	2296.8	2023.0	1746.9	347.3	1906.7	2031.2	23387.6	24868.4	2006.5	4873.1	—
	1524	15731.1	24506.8	2749.8	2175.9	1838.9	375.3	2033.7	2184.4	23438.9	25021.2	2157.2	4900.7	—
	1705	15780.9	24687.0	2747.5	2473.5	2017.1	424.8	2326.4	2480.5	23537.5	25316.6	2452.2	4949.4	
	0712	15780.9	24687.0	2747.5	2473.5	2017.1	424.8	2326.4	2480.5	23537.5	25316.6	2452.2	4949.4	—
6-15-11	0740	15795.8	24735.4	2826.3	2553.0	2064.6	440.5	2376.2	2559.2	23564.5	25396.4	2530.9	4964.9	—
	0758	15802.5	24760.2	2866.1	2592.2	2088.0	447.0	2413.7	2598.6	23577.2	25433.9	2568.2	4971.1	—
	0947	15808.1	24947.2	2888.7	2615.0	2272.4	453.4	2419.9	2622.8	23586.4	25458.0	2591.2	4977.5	—
	1334	15817.1	25368.6	2991.9	2718.3	2703.2	460.4	2708.2	2725.5	23620.7	25562.7	2701.4	4986.8	—
														—
	NET	225.0	1351.2	1350.7	1350.9	1350.1	225.0	1350.1	1350.6	452.5	1350.7	1350.1	225.0	—
	TOTAL EXTRACTED			11,931.9 GAL										

1400 ALL EWS TRIPPED OUT DUE TO HEAT ???
1510 RESTART ALL EWS 1-12

RG

INF. TANK

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 6-16-11

Time	Volume Extracted (gal.) EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
1014	15817.1	25368.6	2991.9	2718.3	2703.2	460.4	2708.2	2725.5	23620.7	25562.7	2701.4	4986.8	—
1050	15837.2	25432.4	3104.0	2830.0	2774.2	481.0	2796.5	2832.9	23657.5	25669.6	2807.4	5006.9	—
1150	15867.4	25547.2	3279.4	3005.6	2891.3	510.2	2972.0	3008.7	23715.7	25845.5	2983.2	5035.8	—
1357	15931.2	25788.5	3678.4	3405.4	3157.5	576.7	3371.1	3371.7	23848.4	26244.4	3382.0	5102.7	—
1546	15969.4	25922.5	3823.6	3610.2	3297.5	613.2	3561.9	3611.8	23915.2	26443.2	3579.2	5138.1	—
1701	16006.7	26068.8	4106.1	3832.2	3545.4	650.2	3783.2	3832.7	23988.9	26663.3	3799.4	5174.2	—
NET	189.6	692.2	1114.2	1113.9	842.2	189.8	1075.0	1107.2	368.2	1100.6	1098.0	187.4	

6-16-11
7

6-20-11 →

6-16-11 1456 ALL EWS TRIPPED OUT — HEAT.???
6-16-11 1532 RESTARTED ALL EWS 1-12

ADDITIONAL PUMPING TO EFF. TANK
1224 – 14.7'

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 6-20-11

Time	Volume Extracted (gal.) EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
1224		26060.8	4106.1										
1252		26112.1	4208.3										
1349		26218.6	4426.1										
1438		26310.8	4478.7										
1520		26389.6	—										
1632		26525.4	—										
1703		26582.0	4478.7										
		521.2	372.6										

1224-START UP EW-2 & EW-3
1408-SHUT DOWN EW-3
1703 SHUT DOWN EW-2

Filling Eff Tank
Start Level – 0.0
Stop Level – 13.7'

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 10-3-11

Time	Volume Extracted (gal.)												
	EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
0740	22102.9	78861.9	16655.9	16016.5	12610.6	6105.1	56390.7	69523.0	36163.3	87476.4	28122.0	10121.8	—
0840	22134.3	79100.6	16716.5	16077.7	12672.2	6132.1	56624.8	69817.5	36422.5	87762.6	28239.6	10153.6	—
0948	22169.6	79384.4	16787.5	16148.8	12742.8	6172.6	56908.8	70171.7	36293.3	88121.9	28381.0	10169.7	—
1032	22190.1	79548.1	16888.7	16190.0	12783.7	6193.0	57071.9	70375.0	36334.1	88325.7	28462.8	10169.7	—
1230	22250.4	80029.9	16949.1	16310.3	12904.2	6253.2	57553.8	70978.6	36454.7	88928.9	28703.9	10223.5	—
1345	22288.6	80336.2	17025.4	16387.0	12980.9	6291.6	57860.3	7136.7	36531.2	89311.0	28856.9	10223.5	—
1425	22307.8	80489.8	17063.8	16424.9	13019.1	6310.7	58015.5	71555.7	36570.1	89506.4	28935.0	10247.2	—
1455	22319.5	80602.0	17090.9	16451.5	13047.3	6321.6	58132.7	71700.7	36598.3	89651.7	28992.1	10261.0	—
Total	216.6	1740.1	435	435	436.7	216.5	1742	2177.7	435	2175.3	870.1	139.2	
Net Total	11,019.2												

0927 – Shut down EW-12 – Low flow
1032 – Restart EW-12
1229 – Shut down EW 12 – Low flow
1345 – Restart EW-12

Filling Inf. Tank
Start Level – 0.0
Stop Level – 13.2'

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 10-4-11

Time	Volume Extracted (gal.)												
	EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
0738	22319.5	80602.0	17090.9	16451.5	13047.3	6321.6	58123.7	71700.7	36598.3	89651.7	28992.1	10261.0	—
0840	22353.9	80865.8	17157.8	16519.1	13114.9	6356.9	58393.5	72028.5	36664.2	89974.9	29122.7	10296.1	—
0940	22382.7	81097.7	17215.7	16577.2	13172.4	6385.6	58622.6	72314.3	36721.0	90259.5	29236.2	10310.4	—
1040	22412.4	81331.8	17274.5	16636.1	13231.3	6415.1	58858.8	72609.7	36780.3	90556.9	29355.3	10310.4	—
1203	22454.2	81670.4	17358.8	16720.2	13315.5	6457.2	59194.4	73029.0	36863.3	90974.5	29522.0	10352.2	—
1315	22489.9	81953.3	17429.5	16790.9	13386.3	6492.6	59478.3	73384.7	36935.1	91331.4	29665.2	10357.5	—
1425	22527.0	82249.9	17503.8	16864.6	13460.4	6529.6	59775.4	73755.4	37009.4	91701.8	29813.4	10391.5	—
1455	22537.0	82359.2	17525.9	16886.5	13482.4	6539.1	59863.8	73875.9	37033.4	91827.0	29862.1	10392.9	—
Net	217.5	1757.2	435	435	435.1	217.5	1740.1	2175.2	435.1	2175.3	870	131.9	
Net Total	11,024.9												

0923 – Shut down EW-12 Low flow
1040 – Restart EW-12
1204 – Shut down EW-12 Low flow
1311 – Restart EW-12
1433 – Shut down EW-12 Low flow

A. Jones

(Revised)

Filling Inf. Tank
Start Level – 0.0
Stop Level – 13.2'

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 10-4-11

Time	Volume Extracted (gal.) EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
0738	22319.5	80602.0	17090.9	16451.5	13047.3	6321.6	58123.7	71700.7	36598.3	89651.7	28992.1	10261.0	—
0840	22353.9	80865.8	17157.8	16519.1	13114.9	6356.9	58393.5	72028.5	36664.2	89974.9	29122.7	10296.1	—
0940	22382.7	81097.7	17215.7	16577.2	13172.4	6385.6	58622.6	72314.3	36721.0	90259.5	29236.2	10310.4	—
1040	22412.4	81331.8	17274.5	16636.1	13231.3	6415.1	58858.8	72609.7	36780.3	90556.9	29355.3	10310.4	—
1203	22454.2	81670.4	17358.8	16720.2	13315.5	6457.2	59194.4	73029.0	36863.3	90974.5	29522.0	10352.2	—
1315	22489.9	81953.3	17429.5	16790.9	13386.3	6492.6	59478.3	73384.7	36935.1	91331.4	29665.2	10357.5	—
1425	22527.0	82249.9	17503.8	16864.6	13460.4	6529.6	59775.4	73755.4	37009.4	91701.8	29813.4	10391.5	—
1455	22537.0	82359.2	17525.9	16886.5	13482.4	6539.1	59863.8	73875.9	37033.4	91827.0	29862.1	10392.9	—
Net	217.5	1757.2	435	435	435.1	217.5	~~1740.1~~ 1731.1 (SP)	2175.2	435.1	2175.3	870	131.9	
Net Total	~~11,024.9~~ 11,015.9 (SP)						58132.7 (SP)	figures transposed					

0923 – Shut down EW-12 Low flow
1040 – Restart EW-12
1204 – Shut down EW-12 Low flow
1311 – Restart EW-12
1433 – Shut down EW-12 Low flow

A. Jones

Filling Eff. TANK
Start Level – 0.0'
Stop Level – 13.8

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 10-6-11

Time	Volume Extracted (gal.)												
	EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
0720	22537.0	82359.2	17525.9	16886.5	13482.4	6539.1	59863.8	73875.9	37033.4	91827.0	29862.1	10392.9	—
0832	22575.9	82659.9	17601.9	16963.7	13558.6	6578.5	60157.9	74244.6	37107.3	92196.7	30009.3	10436.7	—
0935	22606.1	82899.7	17661.9	17023.5	13618.7	6608.4	60397.7	74544.0	37167.4	92492.6	30129.4	10438.9	—
1035	22637.1	83147.2	17724.1	17084.8	13680.3	6639.2	60643.7	74856.5	37228.8	92797.7	30251.4	10438.9	—
1144	22670.6	83415.7	17791.1	17152.1	13747.5	6672.9	60913.2	75188.7	37296.3	93135.6	30386.6	10474.9	—
1240	22697.3	83629.8	17844.5	17205.8	13800.8	6699.6	61186.8	75455.1	37349.7	93402.5	30493.6	10488.2	—
1402	22740.9	83980.8	17931.9	17293.4	13888.5	6743.4	61476.8	75892.6	37437.2	93840.6	30668.7	10486.2	—
1438	22754.9	84099.3	17960.9	17321.5	13917.5	6756.6	61612.1	76061.8	37468.4	94002.5	30733.9	10507.0	—
	9 (5P)												
NET	217.3	1740.1	435	435	435.1	217.5	1748.3	2185.9	435	2175.5	~~871~~ ↑	~~114~~ ↑	—
											871.8	114.1	—
Net Total	~~11,010.5~~	11,011.2	(6P)										

0854 – Shut down EW-12 Low flow
1036 – Restart EW-12
1235 – Shut down EW-12 Low Flow
1405 – Restart EW-12

A. Jones

START FILLING INF. TANK 0.0
END " " " 13.3'

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 10-10-11

Time	Volume Extracted (gal.)												
	EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
0743	22754.9	84099.3	17960.9	17321.5	13917.5	6756.6	61612.1	76061.8	37468.4	94002.5	30733.9	10507.0	—
0805	22766.8	84184.1	17982.6	17344.3	13940.6	6769.4	61692.6	76164.5	37489.0	94104.4	30775.8	10519.8	—
0951	22800.8	84444.4	18048.8	17410.6	14005.4	6803.2	61941.2	76475.4	37552.6	94412.9	30899.1	10552.4	—
1105	22837.4	84737.7	18122.4	17483.7	14079.2	6839.9	62235.6	76842.4	37625.0	94779.2	31045.5	10571.2	—
1213	22870.2	85001.4	18188.4	17549.9	14145.2	6872.4	62499.1	77171.9	37691.7	95109.9	31178.2	10571.2	—
1352	22921.8	85409.2	18290.2	17651.3	14247.2	6923.8	62907.1	77682.4	37788.2	95624.2	31384.5	10611.3	—
1432	22940.4	85558.9	18327.6	17689.2	14284.6	6942.5	63056.4	77869.3	3781.4	95813.1	31459.0	10615.8	—
1547	22971.5	85839.5	18395.9	17756.5	14352.6	6974.1	63354.9	78241.2	37903.4	96177.7	31604.0	10650.3	—
Net	216.6	1740.2	435	435	435.1	217.5	1742.8	2179.4	435	2175.2	870.1	143.3	
Net Total	11,025.2												

1045 – SHUT DOWN EW 12 LOW FLOW
1213 – RESTART EW 12
1331 – EW-12 OFF — LOW FLOW
1430 – RESTART EW-12

R Gregory

START FILLING EFF. TANK 0.0'
END " " " 13.8'

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 10-11-11

Time	Volume Extracted (gal.) EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
0729	22971.5	85839.5	18395.9	17756.5	14352.6	6974.1	63354.9	78241.2	37903.4	96177.7	31609.0	10650.3	—
0834	23006.0	86104.4	18463.1	17824.5	14420.2	7009.1	63613.3	78565.6	37968.8	96448.6	31733.3	10684.2	—
0924	23030.2	86296.3	18511.3	17872.4	14469.7	7034.1	63811.1	78813.4	38018.2	96747.4	31832.2	10701.4	—
1028	23062.4	86555.7	18576.4	17936.2	14532.0	7065.8	64065.2	79131.6	38081.7	97064.4	31958.3	10705.2	—
1144	23100.4	86859.5	18651.9	18012.7	14608.8	7103.6	64368.8	79510.2	38157.5	97444.1	32111.5	10739.3	—
1311	23143.9	87208.2	18739.4	18100.1	14696.5	7147.2	64717.3	79945.8	38244.7	97880.4	32285.4	10743.9	—
1412	23174.8	87454.0	18800.2	18161.8	14757.0	7178.0	64963.7	80253.1	38306.5	98186.4	32408.8	10773.9	—
1448	23189.0	87579.7	18830.9	18191.5	14788.1	7191.6	65095.0	80416.9	38339.1	98352.9	32474.2	10783.7	—
Total	217.5	1740.2	435	435	435.5	217.5	1740.1	2175.7	435.7	2175.2	870.2	133.4	
Net Total	11,011.0												

0921 - EW-12 DOWN - LOW FLOW
1027 - RESTART EW-12
1142 - EW-12 DOWN - LOW FLOW
1309 - RESTART EW-12
1420 - EW-12 DOWN - LOW FLOW
1438 - RESTART EW-12

R Gregory

EW Test xls

START FILLING INF. TANK - 0.0
STOP " " " 13.3'

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 10-13-11

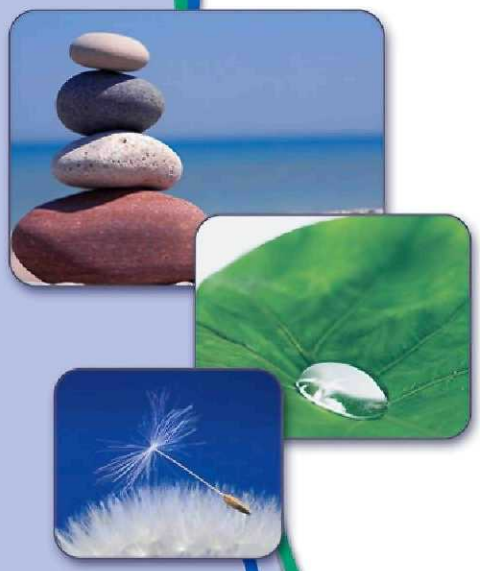
Time	Volume Extracted (gal.)												
	EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
0713	23189.0	87579.7	18830.9	18191.5	14788.1	7191.6	65095.0	80416.9	38339.1	98352.9	32474.2	10783.7	—
0813	23221.2	87824.6	18892.9	18254.6	14851.6	7224.6	65336.2	80720.9	38401.1	98657.2	32596.1	10816.4	—
0931	23259.4	88131.1	18969.9	18331.4	14928.5	7262.4	65643.1	81103.3	38477.4	99039.6	32749.8	10836.1	—
1041	23294.2	88410.0	19039.7	18400.9	14997.9	7297.8	65922.2	81451.4	38547.3	99387.7	32889.2	10836.1	—
1151	23328.6	88685.4	19108.3	18469.4	15067.0	7332.2	66197.5	81796.4	38615.0	99731.9	33026.7	10872.3	—
1336	23381.4	89110.1	19214.6	18575.5	15172.0	7385.3	66622.5	82328.5	38722.5	100264.3	33239.9	10900.6	—
1430	23406.5	89319.9	19265.9	18626.5	15224.9	7409.1	66835.8	82594.5	38774.1	100529.4	33344.2	10908.8	—
TOTAL	217.5	1740.2	435.0	435.0	436.8	217.5	1740.8	2177.6	435.0	2176.5	870.0	125.1	—
NET TOTAL	11,007												

0906 EW-12 DOWN - LOW FLOW
1042 RESTART EW-12
1152 EW-12 DOWN - LOW FLOW
1246 RESTART EW-12
1403 EW-12 DOWN LOW FLOW

R Gregory

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-73366-1
Client Project/Site: Honeywell - Brunswick Site

For:
Environmental Planning Specialists, Inc.
900 Ashwood Parkway
Suite 350
Atlanta, Georgia 30338

Attn: Kirk Kessler

Authorized for release by:
10/14/2011 04:52:23 PM
Bernard Kirkland
Project Manager I
bernard.kirkland@testamericainc.com

Designee for

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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Job ID: 680-73366-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Environmental Planning Specialists, Inc.

Project: Honeywell - Brunswick Site

Report Number: 680-73366-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 10/14/2011; the samples arrived in good condition and on ice. The temperature of the coolers at receipt was 3.2 C. Samples was not received at the correct pH.

TOTAL MERCURY

Sample 11286-CBP-051I (680-73366-1) was analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 10/14/2011. During pH adjustment, the following sample(s) required 2 mL of acid to reach the desired pH: 11286-CBP-051I (680-73366-1).

Sample 11286-CBP-051I (680-73366-1)[50X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

CORROSIVITY (PH)

Sample 11286-CBP-051I (680-73366-1) was analyzed for corrosivity (pH) in accordance with SM 4500 H+ B. The samples were analyzed on 10/14/2011.

This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. This sample(s) was performed in the laboratory outside the 15 minute time frame.

No difficulties were encountered during the pH analysis.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-73366-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-73366-1	11286-CBP-051I	Water	10/13/11 15:30	10/14/11 08:23

Method Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-73366-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 4500 H+ B	pH	SM	TAL SAV

Protocol References:

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-73366-1

Client Sample ID: 11286-CBP-051I
Date Collected: 10/13/11 15:30
Date Received: 10/14/11 08:23

Lab Sample ID: 680-73366-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	118		10.0	4.6	ug/L		10/14/11 08:40	10/14/11 14:37	50

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	10.9	HF			SU			10/14/11 12:06	1

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-73366-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-217691/1-A
Matrix: Water
Analysis Batch: 217794

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217691

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		10/14/11 07:49	10/14/11 14:28	1

Lab Sample ID: LCS 680-217691/2-A
Matrix: Water
Analysis Batch: 217794

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217691

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	2.40		ug/L		96	80 - 120

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 680-217754/1
Matrix: Water
Analysis Batch: 217754

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
pH	7.00	6.960		SU		99	63 - 158

Lab Sample ID: 680-73366-1 DU
Matrix: Water
Analysis Batch: 217754

Client Sample ID: 11286-CBP-051I
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	10.9	HF	10.88		SU		0.09	40

QC Association Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-73366-1

Metals

Prep Batch: 217691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-73366-1	11286-CBP-051I	Total/NA	Water	7470A	
LCS 680-217691/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-217691/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 217794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-73366-1	11286-CBP-051I	Total/NA	Water	7470A	217691
LCS 680-217691/2-A	Lab Control Sample	Total/NA	Water	7470A	217691
MB 680-217691/1-A	Method Blank	Total/NA	Water	7470A	217691

General Chemistry

Analysis Batch: 217754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-73366-1	11286-CBP-051I	Total/NA	Water	SM 4500 H+ B	
680-73366-1 DU	11286-CBP-051I	Total/NA	Water	SM 4500 H+ B	
LCS 680-217754/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-73366-1

Client Sample ID: 11286-CBP-051I
Date Collected: 10/13/11 15:30
Date Received: 10/14/11 08:23

Lab Sample ID: 680-73366-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			217691	10/14/11 08:40	JKL	TAL SAV
Total/NA	Analysis	7470A		50	217794	10/14/11 14:37	CE	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	217754	10/14/11 12:06	PAT	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Savannah
5102 LaRoche Avenue
Suite 106
Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager:	Site Contact: Kirk Kessler	Date: 10/13/2011	COC No: 30927-11286
Environmental Planning Specialist	Tel/Fax:	Lab Contact: Linda Wolfe	Carrier:	1 of 1 COCs
900 Ashwood Parkway, Suite 350	**Analysis Turnaround Time**			Job No.
Atlanta, Georgia 30338	RUSH - 24 Hours			
404-315-9113 Phone	~~TAT if different from Below~~			
FAX	~~2 weeks~~			SDG No.
Project Name: Honeywell Brunswick Site	~~1 week~~			
Site: 30927	~~2 days~~			
PO # 4500027786	~~1 day~~			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Mercury (7470A)	pH (SW 4500 H+B)	Sample Specific Notes:
11286-CBP-051I	10/13/2011	15:30	Grab	Water	2	N	X	X	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other							4		

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

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

Special Instructions/QC Requirements & Comments:

680-73366
3.2°C

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Richard B Gregory	CH2M HILL OMI	10/13/2011 - 17:30	Georgette Lomax	Fed Ex	
Relinquished by:	Company:	Date/Time:	Received by: TA SAV 10/14/11 0823	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

10/14/2011

Login Sample Receipt Checklist

Client: Environmental Planning Specialists, Inc.

Job Number: 680-73366-1

Login Number: 73366

List Source: TestAmerica Savannah

List Number: 1

Creator: Conner, Keaton

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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.	False	pH on Hg needs adjusting
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.	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-73366-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Oklahoma	State Program	6	9984
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	NELAC Secondary AB	3	460161
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

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

Filling EFF TANK
Start Level – 0.0
Stop Level – 13.7'

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 9-1-11

Time	Volume Extracted (gal.) EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
0705	19492.0	57965.2	11433.9	10792.7	7383.0	3494.3	35494.4	43395.7	30941.9	61368.2	17691.7	8289.7	—
0825	19534.7	58296.9	11517.5	10877.0	7462.9	3538.1	35823.3	43808.5	31085.8	61783.4	17858.8	8334.0	—
0922	19562.9	58523.1	11574.5	10933.6	7524.9	3566.7	36051.3	44093.2	31082.6	62066.4	17972.3	8356.3	—
1035	19599.6	58813.4	11647.1	11006.2	7597.5	3602.9	36341.3	44455.3	31155.2	62429.8	18117.1	8377.3	—
1135	19629.7	59054.2	11707.4	11066.5	7657.7	3633.0	36583.6	44758.7	31216.0	62732.9	18238.9	8405.2	—
1235	19659.9	59300.5	11768.6	11127.7	7719.3	3663.7	36827.2	45062.6	31276.7	63036.5	18360.2	8411.1	—
1323	19683.7	59487.3	11815.2	11174.4	7765.6	3686.9	37013.8	45295.3	31323.2	63269.2	18453.0	8434.3	—
1421	~~19~~ 19709.5	59705.4	11868.9	11228.2	7818.1	3711.8	37234.7	45570.9	31376.9	63544.3	18562.8	8457.8	—
Net	217.5	1740.2	435	435.5	435.1	217.5	1740.3	2175.2	435	2176.1	871.1	168.1	
Net Total	11,046.6												

0921 – Shut down EW-12 Low flow – 0.2
1000 – Restart EW-12
1138 – Shut down EW-12 – low flow
1233 Restart EW-12

A. Jones

Filling INF. TANK
Start Level - 0.0
Stop Level - 13.3'

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 9-2-11

Time	Volume Extracted (gal.)												
	EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
0725	19709.5	59705.4	11868.9	11228.2	7818.1	3711.8	37234.7	45570.9	31376.9	63544.3	18562.8	8457.8	—
0827	19741.2	59948.6	11930.6	11290.6	7880.9	3744.7	37475.7	45874.3	31439.3	63849.6	18687.3	8491.3	—
0928	19772.2	60195.5	11992.1	11351.9	7942.7	3775.5	37722.2	46181.4	31500.5	64156.4	18808.8	8517.1	—
1048	19812.3	60515.2	12072.3	11432.2	8022.7	3815.5	38042.6	46582.5	31580.6	64557.6	18969.0	8549.5	—
1135	19834.0	60688.8	12115.9	11475.6	8066.2	3837.3	38216.7	46799.9	31624.0	64775.0	19056.1	8553.9	—
1235	19866.2	60947.3	12180.3	11539.9	8130.9	3869.5	38474.5	47121.8	31688.5	65097.2	19184.9	8587.8	—
1335	19896.1	61185.7	12239.8	11599.5	8190.2	3899.4	38713.1	47419.9	31747.9	65394.3	19303.9	8595.2	—
1445	19927.0	61445.5	12303.9	11663.7	8253.1	3929.3	38976.7	47750.0	31811.9	65719.4	19432.9	8628.0	—
Net	217.5	1740.1	435	435.5	435	217.5	1742	2179.1	435	2175.1	870.1	170.2	
Net Total	11,052.1												

0926 - Shut down EW-12 - low flow - 0.2
0948 - Restart EW-12
1105 - Shut down EW-12 - low flow
1135 - Restart EW-12
12-45 - Shut down EW-12 low flow
1333 - Restart EW-12

Alvin Jones

Filling Eff Tank
Start Level - 0.0
Stop Level - 13.7'

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 9-7-11

Time	Volume Extracted (gal.)												
	EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
0805	19927.0	62445.5	12303.9	11663.7	8253.1	3929.3	38976.7	47750.0	31811.9	65719.4	19432.9	8628.0	—
0905	19958.8	61688.0	12365.4	11725.7	8316.1	3962.1	39217.7	48052.8	31873.6	66023.3	19555.5	8660.7	—
1025	20000.5	62022.7	12449.3	11809.6	8399.9	4004.0	39552.9	48471.5	31957.4	66441.6	19722.9	8694.8	—
1155	20045.8	62384.9	12539.6	11899.8	8490.4	4049.1	39913.8	48922.5	32047.6	66893.4	19904.2	8715.7	—
1305	20079.6	62654.9	12607.2	11967.8	8557.6	4083.0	40183.7	49259.6	32115.2	67230.0	20038.1	8749.0	—
1405	20110.3	62900.4	12668.5	12029.1	8618.8	4113.6	40429.8	49568.4	32176.8	67537.6	20161.5	8771.5	—
1505	20139.2	61330.9	12725.5	12085.7	8674.8	4141.4	40649.9	49841.0	32236.7	67805.6	20267.4	8782.6	—
1524	~~8144.5~~	~~61385.7~~	12739.0	12098.7	8690.2	4146.8	40718.9	49928.9	32247.4	67894.6	20303.2	8792.4	—
	20144.5	63185.7											
	(SP)	(SP)											
Net	217.5	1740.2	435.1	435	437.1	217.5	1742.2	2178.9	435.5	2175.2	870.3	164.4	
Net Total	11,048.9												

1107 – Shut down EW-12, low flow
1155 – Restart EW-12
1405 – Shut down EW-12 low flow
1445 – Restart EW-12

A. Jones

Filling Inf. Tank
Start Level – 0.0
Stop Level – 13.3' Aprox?

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 9-8-11

Time	Volume Extracted (gal.)												
	EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
0725	20144.5	63185.7	12739.0	12098.7	8690.2	4146.8	40718.9	49928.9	32247.4	67894.6	20303.2	8792.4	—
0820	20173.8	63408.4	12795.4	12155.8	8747.9	4176.8	40936.3	50201.4	32305.2	68179.0	20418.6	8823.4	—
0925	20205.4	63659.8	12858.5	12218.7	8810.7	4208.2	41188.8	50517.4	32366.7	68485.7	20540.7	8847.4	—
1018	20231.5	63869.9	12910.8	12270.8	8862.9	4234.4	41398.8	50779.3	32419.0	68744.5	20647.8	8854.6	—
1132	20270.5	64183.3	12988.8	12349.2	8941.1	4273.5	41711.4	51169.9	32497.2	69138.2	20801.7	8890.1	—
1229	20296.7	64391.8	13041.0	12401.2	8993.1	4299.7	41926.5	51430.9	32549.7	69400.6	20906.6	8896.1	—
1330	20327.4	64632.7	13103.0	12462.7	9054.9	4330.5	42166.7	51738.9	32610.9	69706.3	21028.8	8923.0	—
1430	20359.1	64891.8	13166.4	12526.3	9118.5	4362.4	42421.4	52058.9	32674.9	70027.1	21157.5	8939.6	—
1445	20362.1	64933.0	13174.0	12533.8	9125.8	4364.3	42460.0	52105.9	32682.5	70071.5	21174.5	8939.6	—
Net	217.6	1747.3	435	435.1	435.6	217.5	1741.1	2177	435.1	2176.9	871.3	147.2	
Net Total	11,036.7												

0922 – Shut down EW-12 – NO flow – 0.0
1010 – Restart EW-12
1137 – Shut down EW-12 Low flow – 0.2
1229 – ReStart EW-12
1420 – Shut down EW-12 Low flow 0.2
1420 – Inf. Tank Level Ind. Stuck ON 12.1'

A. Jones

Filling Eff. TANK
Start Level – 0.0
Stop Level – 13.7'

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 9-13-11

Time	Volume Extracted (gal.) EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
0722	20362.1	64933.0	13174.0	12533.8	9125.8	4364.3	42460.0	52105.9	32682.5	70071.5	21174.5	8946.6	—
0829	20399.4	65222.4	13247.0	12607.2	9199.2	4402.3	42742.7	52458.5	32753.3	70416.3	21315.8	8978.3	—
0932	20430.9	65473.8	13310.3	12670.3	9262.2	4433.8	42994.5	52774.2	32816.4	70730.8	21441.7	9004.4	—
1049	20469.6	65783.8	13387.7	12748.1	9339.7	4472.5	43303.5	53161.5	32894.1	71119.9	21597.2	9009.1	—
1130	20489.4	65941.8	13427.2	12787.9	9379.5	4492.5	43463.0	53359.5	32933.8	71317.7	21676.4	9028.4	—
1235	20523.8	66215.2	13494.8	12854.9	9445.4	4525.2	43723.5	53691.9	32997.5	71633.8	21802.2	9055.6	—
1345	20556.8	66478.8	13561.3	12921.8	9513.5	4559.4	43998.7	54028.7	33067.5	71986.0	21943.7	9073.7	—
1442	20579.6	66673.1	13609.0	~~12968.8~~ 12968.8	9562.0	4582.1	44200.3	54281.0	33117.9	72246.8	22044.6	9100.0	—
Net	217.5	1740.1	435	435	436.2	217.8	1740.3	2175.1	435.4	2175.3	870.1	158.4	
Net Total	11,036.2												

Beginning figure does not match ending on 9/8/11 due to trouble-shooting after log sheet completed (2 gals. off-tank level ind. problem)

0931 – Shut down EW-12 Low Flow – 0.2
1049 – Restart EW-12
1312 ~~1334~~ – Shut down EW-12 Low Flow – 0.3
1342 – Restart EW-12

A. Jones

Filling Inf. TANK
Start Level – 0.0
Stop Level – 13.3'

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 9-14-11

Time	Volume Extracted (gal.)												
	EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
0730	20579.6	66673.1	13609.0	12968.8	9562.0	4582.1	44200.3	54281.0	33117.9	72246.8	22044.6	9100.0	—
0840	20618.3	66972.3	13684.8	13044.9	9638.2	4621.5	44493.6	54648.9	33191.9	72612.6	22192.2	9139.2	—
0928	20640.3	67147.8	13728.7	13088.9	9681.7	4643.4	44668.6	54868.2	33235.8	72830.8	22279.4	9151.1	—
1038	20677.1	67442.6	13802.2	13162.3	9755.2	4680.1	44961.7	55234.9	33309.1	73198.0	22426.4	9155.6	—
1129	20700.4	67628.4	13849.0	13209.0	9801.8	4703.4	45148.8	55467.8	33355.9	73432.5	22520.2	9179.1	—
1237	20736.3	67914.9	13920.6	13280.7	9873.8	4739.5	45436.7	55827.8	33427.8	73791.3	22663.7	9205.7	—
1338	20766.9	68160.9	13981.9	13342.2	9935.4	4770.0	45682.0	56135.2	33489.3	74098.7	22786.9	9205.7	—
1448	20797.2	68413.2	14044.1	13403.8	9997.4	4799.6	45942.4	56460.3	33552.9	74422.2	22915.1	9240.5	—
Net	217.6	1740.1	435.1	435	435.4	217.5	1742.1	2179.3	435	2175.4	870.5	140.5	
Net Total	11,023.5												

0912 – Shut down EW-12 Low flow 0.2
0914 – Inf. TANK Level went from 2.4' to 21.1'
1037 – ReStart EW-12
1232 – Shut down EW-12 Low flow 0.2
1225 – INF TANK Came down from 21.1' to 9.4'
1339 – Restart EW-12

A. Jones

Filling [redacted] Eff. TANK
Start Level – 0.0
Stop Level – 13.5'

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 9-19-11

Time	Volume Extracted (gal.) EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
0720	20797.2	68413.2	14044.1	13403.8	9997.4	4799.6	45942.4	56460.3	33552.9	74422.2	22915.1	9240.5	—
0820	20828.5	68654.4	14104.8	13465.4	10059.6	4832.2	46180.7	56759.0	33614.1	74723.5	23036.5	9273.1	—
0920	20858.8	68894.5	14165.6	13525.8	10180.8	4862.7	46424.8	57065.1	33675.1	75028.9	23159.0	9291.9	—
1022	20886.7	69117.3	14221.0	13581.8	10176.0	4890.3	46645.7	57340.8	33730.4	75304.5	23269.2	9297.3	—
1120	20916.5	69356.9	14281.0	13641.8	10235.4	4920.2	46884.7	57640.6	33790.4	75608.5	23390.7	9327.6	—
1215	20944.3	69580.8	14337.0	13697.5	10291.6	4948.0	47107.5	57917.7	33845.7	75882.8	23500.6	9841.3	—
1355	20996.3	69995.8	14440.9	13800.9	10395.6	5000.2	47524.7	58446.5	33950.3	76404.8	23709.4	9373.6	—
1439	21014.7	70154.4	14479.6	13839.9	~~10432~~ 10432.6	5017.1	47682.5	58635.6	33987.9	76597.8	23786.3	9384.3	
Net	217.5	1741.2	435.5	436.1	435.2	217.5	1740.1	2175.3	435	2175.6	871.2	143.8	
Net total	11,024.0												

0908 – Shut down EW-12 Low flow – 0.2
1014 – Restart EW-12
1208 – Shut down EW-12 Low flow
1300 – Restart EW-12
[redacted]1427 – Shut down EW-12

A. Jones

Filling Inf. Tank
Start Level – 0.0
Stop Level – 13.4'

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 9-20-11

Time	Volume Extracted (gal.)												
	EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
0725	21014.7	70154.4	14479.6	13839.9	10432.6	5017.1	47682.5	58635.6	33987.9	76597.8	23786.3	9384.3	—
0822	21045.0	70384.1	14538.1	13899.4	10499.4	5047.8	47907.3	58918.7	34044.8	76877.7	23892.7	9415.1	—
0920	21074.0	70617.2	14596.2	13957.3	10549.2	5076.7	48137.6	59206.1	34102.0	77163.6	24013.7	9434.7	—
1017	21102.5	70845.1	14653.3	14014.4	10606.7	5105.4	48367.5	59494.2	34159.8	77451.4	24129.2	9440.0	—
1130	21140.1	71144.9	14728.2	14088.9	10681.5	5142.8	48663	59866.5	34234.4	77825.1	24278.2	9475.4	—
1230	21168.9	71376.6	14786.0	14147.0	10739.3	5171.8	48897.2	60155.5	34292.2	78114.7	24394.5	9486.7	—
1322	21194.9	71584.7	14838.1	14199.1	10791.2	5197.8	49105.5	60416.7	34344.4	78374.7	24498.5	9507.2	—
1442	21232.2	71898.9	14914.6	14275.1	10867.7	5234.6	49428.9	60820.0	34422.9	78772.9	24656.2	9536.5	—
Net	217.5	1744.5	435	435.2	435.1	217.5	1746.4	2184.4	435	2175.1	869.9	152.2	
Net Total	11,047.8												

0912 – Shut down EW-12 - NO Flow – 0.0
1012 – Restart EW-12
1135 – Shut down EW-12 Low Flow - 0.2
1225 – Restart EW-12

A. Jones

Filling Eff. TANK
Start Level – 0.0
Stop Level – 13.7

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

22 (SP)

DATE 9-21-11

Time	Volume Extracted (gal.)												
	EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
0717	21232.2	71898.9	14914.6	14275.1	10867.7	5234.6	49428.9	60820.0	34422.9	78772.9	24656.2	9536.5	—
0816	21262.5	72190.9	14973.5	14334.3	10927.7	5265.4	49658.7	61108.9	34482.1	79062.6	24773.0	9568.1	—
0915	21292.5	72370.9	15033.8	14394.8	10988.1	5296.0	49896.5	61407.2	34541.7	79360.9	24892.4	9589.9	—
1020	21325.8	72636.9	15099.9	14460.9	11054.6	5329.2	50161.1	61738.4	34607.8	79693.2	25025.1	9594.3	—
1115	21352.1	73846.7	15152.1	14513.1	11106.3	5355.2	50367.9	61998.7	34660.0	79952.8	25129.0	9620.1	—
1218	21383.1	73093.7	15214.3	14575.5	11168.7	5386.3	50618.6	62313.4	34724.4	80276.8	25238.6	9640.9	—
1315	21413.8	73339.7	15275.7	14636.9	11230.1	5417.1	50866.0	62617.7	34783.7	80571.7	25376.7	9647.4	—
1435	21449.7	73639.2	15349.6	14710.1	11303.7	5452.1	51169.0	62997.8	34857.9	80950.1	25527.8	9682.3	—
Net	217.5	1740.3	435	435	436	217.5	1740.1	2177.8	435	2177.2	871.6	145.8	
Net Total	11,028.8												

0916 – Shut down EW-12 Low flow - 0.2
1019 – Restart EW-12
1217 – Shut down EW-12 low flow - 0.2
1312 – Restart EW-12

A. Jones

Filling Inf. Tank
Start Level - 0.0'
Stop Level - 13.3'

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 9-26-11

Time	Volume Extracted (gal.)												
	EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
0747	21499.7	73639.2	15349.6	14710.1	11303.7	5452.1	51169.0	62997.8	34857.9	80950.1	25527.8	9682.3	—
0850	21481.9	73887.5	15412.6	14773.9	11366.9	5485.1	51411.7	63301.6	34918.9	81250.5	25649.3	9714.9	—
1016	21526.2	74240.8	15501.1	14862.0	11455.0	5529.2	51764.2	63742.9	35006.9	81690.2	25824.6	9749.1	—
1312	21572.5	74595.9	15590.1	14951.6	11545.5	5575.4	52110.7	64175.7	35094.8	82123.3	26268.8	9783.6	—
1430	21611.8	74909.2	15668.5	15030.5	11624.3	5614.7	52486.9	64570.7	35173.8	82518.5	26421.3	9793.3	—
1528	21638.7	75126.9	15723.2	15084.9	11678.6	5642.1	52645.2	64844.7	35228.5	82791.4	26421.3	9823.2	—
1486	21667.9	75379.8	15785.0	15145.1	11739.3	5670.1	52910.4	65172.4	35292.9	83125.4	26421.3	9843.0	—
Net	218.5	1740.6	435.4	435	435.6	218	1741.4	2174.6	435	2175.3	893.5	160.7	
Net Total	11,063.6												

1029 - Shut down EW-12 Low flow - 0.2 — Restart EW-12 @ 1215
1335 - Shut down EW-12 Low flow - 0.2 — Restart EW-12 @ 1430

Filling Inf. Tank
Start Level - 0.0'
Stop Level - 13.3'

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 9-26-11

Time	Volume Extracted (gal.) EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11*	EW-12	EW-13
0747	21499.7	73639.2	15349.6	14710.1	11303.7	5452.1	51169.0	62997.8	34857.9	80950.1	25527.8	9682.3	—
0850	21481.9	73887.5	15412.6	14773.9	11366.9	5485.1	51411.7	63301.6	34918.9	81250.5	25649.3	9714.9	—
1016	21526.2	74240.8	15501.1	14862.0	11465.0	5529.2	51764.2	63742.9	35006.9	81690.2	25824.6	9749.1	—
1312	21572.5	74595.9	15590.1	14951.6	11545.5	5575.4	52110.7	64175.7	35094.8	82123.3	26026.8	9783.6	—
1430	21611.8	74909.2	15668.5	15030.5	11624.3	5614.7	52486.9	64570.7	35173.8	82518.5	26121.3	9793.3	—
1528	21638.7	75126.9	15783.2	15084.9	11678.6	5642.1	52645.2	64844.7	35228.5	82791.4	26121.3	9823.2	—
~~1486~~ 1636	21667.9	75379.8	15785.0	15145.1	11739.3	5670.1	52910.4	65172.4	35292.9	83125.4	26121.3	9843.0	—
Net	218.5	1740.6	435.4	435	435.6	218	1741.4	2174.6	435	2175.3	~~893.5~~ 374.8	160.7	
Net Total	~~11,063.6~~	10,545.2											

Short Power Outage @ 10:55 AM.

1029 - Shut down EW-12 Low flow - 0.2 — Restart EW-12 @ 1215
1335 - Shut down EW-12 Low flow - 0.2 — Restart EW-12 @ 1430

* Following the short power outage even though EW-11 was set at 2 gpm, the flow on the SCADA was indicating 7.7 gpm and the totalizer was increasing by 7 gpm. The local flow meter indicated 0 gpm. Upon further troubleshooting on 9/27 it became evident that there WAS NO FLOW. BASED ON the duration that the pump was active prior to the power outage, we assume that the total volume pulled from EW-11 on 9/26/11 is 374.8 gallons.

EW Test.xls

J. Welch ; A. Jones

Filling Eff. TANK
Start level - 0.0
Stop Level - 13.5'

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 9-27-11

Time	Volume Extracted (gal.)												
	EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
0743	21667.9	75379.8	15785.0	15145.1	11739.3	5670.1	52910.4	65172.4	35292.9	83125.4	26421.3	9843.0	—
0930	21721.4	75798.7	15890.6	15251.6	11846.6	5724.6	53328.7	65696.4	35399.4	83651.7	26583.0	9893.5	—
1045	21759.2	76100.4	15966.5	15327.1	11922.1	5762.8	53629.9	66072.0	35471.8	84013.0	26725.0	9903.0	—
1145	21790.9	76353.6	16029.6	15390.0	11985.4	5794.4	53882.8	66388.4	35537.3	84342.8	26858.6	9929.3	—
1245	21820.5	76586.8	16087.3	15447.5	12041.7	5822.5	54106.3	66664.9	35591.9	84611.7	26964.7	9949.5	—
1349	21854.6	76860.7	16155.3	15516.1	12109.9	5856.6	54379.4	67006.9	35660.2	84954.1	27102.0	9949.5	—
1505	21885.4	77120.0	16220.1	15580.1	12175.5	5887.6	54650.5	67347.8	35728.3	85301.1	27251.0	9988.5	—
Total	217.5	1740.2	435.1	435	436.2	217.5	1740.1	2175.4	435.4	2175.7	829.7 *	145.5	
Net Total	10,983.3												

0951 - Shut down EW-12 Low flow
1101 - Restart EW-12
1241 - Shut down EW-12 - Low flow
1349 - Restart EW-12

A. Jones

* EW-11 gallons low due to short (35 min.) problem with totalizer.

To: Jamie Welch

Filling Inf. Tank
Start Level - 0-0
Stop Level - 13.3'

LCP Chemicals Site, Brunswick, Georgia
Caustic Brine Pool Removal Action
Extraction Well Test

DATE 9-29-11

Time	Volume Extracted (gal.) EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	EW-11	EW-12	EW-13
0710	21885.4	77120.0	16220.1	15580.1	12175.5	5887.6	54650.5	67347.8	35728.3	85301.1	27251.0	9988.5	—
0820	21921.4	77399.6	16291.2	15651.7	12247.1	5924.9	54926.9	67695.3	35798.9	85649.4	27391.3	10026.1	—
0918	21947.9	77609.9	16343.5	15704.1	12299.4	5951.1	55136.3	67956.8	35851.4	85911.3	27496.1	10036.0	—
1029	21984.2	77902.5	16416.6	15777.0	12373.1	5987.6	55428.6	68332.0	35924.3	86276.4	27642.2	10046.5	—
1120	22010.8	78114.9	16469.6	15830.1	12486.0	6014.1	55640.7	68586.7	35977.2	86541.6	27748.3	10072.7	—
1220	22041.8	78363.2	16532.0	15892.4	12488.3	6045.3	55890.3	68898.4	36039.5	86853.0	27872.9	10095.0	—
1346	22086.0	78716.4	16619.9	15980.4	12576.2	6089.3	56242.9	69339.6	36127.7	87293.5	28048.8	10103.5	—
1427	22102.9	78861.9	16655.9	16016.5	12610.6	6105.1	56390.7	69523.0	36163.3	87476.4	28122.0	10121.8	—
Total	217.5	1741.9	435.8	436.4	435.1	217.5	1740.2	2175.2	435	2175.3	871	133.3	
Net Total	—	11014.2											

0845 - Shut down EW-12 Low Flow 0.2
1010 - Restart EW-12
1230 - Shut down EW-12 Low Flow 0.2
1346 - Restart EW 12

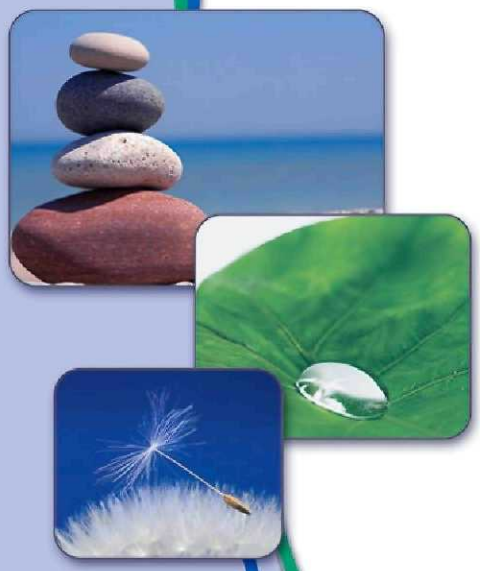
A. Jones

9122620103
Sep 29 11 04:08p CH2MHILLOMIBRU

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT



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TestAmerica Job ID: 680-69200-1
Client Project/Site: Honeywell - Brunswick Site

For:
Environmental Planning Specialists, Inc.
900 Ashwood Parkway
Suite 350
Atlanta, Georgia 30338

Attn: Chris Saranko

Linda A. Wolfe

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Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com

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Job ID: 680-69200-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Environmental Planning Specialists, Inc.

Project: Honeywell - Brunswick Site

Report Number: 680-69200-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 06/10/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler on receipt was 2.6 C.

TOTAL MERCURY

Sample 11160-CBP001 (680-69200-1) was analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 06/10/2011. The pH of the volume submitted for mercury was greater than 2, therefore additional acid was added. Due to the expedited turn around, the sample was digested following the addition of the acid and ananlyzed.

Due to the level of mercury in the sample, the MS / MSD of sample 11160-CBP001MS (680-69200-1) in batch 680-205534 failed the recovery criteria. The presence of the '4' qualifier in the report indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

Sample 11160-CBP001 (680-69200-1)[50X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the mercury analysis.

All other quality control parameters were within the acceptance limits.

CORROSIVITY (PH)

Sample 11160-CBP001 (680-69200-1) was analyzed for corrosivity (pH) in accordance with SM 4500 H+ B. The samples were analyzed on 06/10/2011. This is a field parameter and the holding time is immediate, therefore the data has been qualified with an "HF"

No difficulties were encountered during the pH analysis.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-69200-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-69200-1	11160-CBP001	Water	06/09/11 14:00	06/10/11 09:10

Method Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-69200-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 4500 H+ B	pH	SM	TAL SAV

Protocol References:

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Client: Environmental Planning Specialists, Inc. TestAmerica Job ID: 680-69200-1
Project/Site: Honeywell - Brunswick Site

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
U	Indicates the analyte was analyzed for but not detected.

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.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-69200-1

Client Sample ID: 11160-CBP001
Date Collected: 06/09/11 14:00
Date Received: 06/10/11 09:10

Lab Sample ID: 680-69200-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	170		10	4.6	ug/L		06/10/11 10:31	06/10/11 15:10	50

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	11.1	HF			SU			06/10/11 11:01	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-205492/1-A
Matrix: Water
Analysis Batch: 205534

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 205492

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		06/10/11 10:31	06/10/11 14:31	1

Lab Sample ID: LCS 680-205492/2-A
Matrix: Water
Analysis Batch: 205534

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 205492

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	2.61		ug/L		104	80 - 120

Lab Sample ID: 680-69200-1 MS
Matrix: Water
Analysis Batch: 205534

Client Sample ID: 11160-CBP001
Prep Type: Total/NA
Prep Batch: 205492

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	170		1.00	179	4	ug/L		390	80 - 120

Lab Sample ID: 680-69200-1 MSD
Matrix: Water
Analysis Batch: 205534

Client Sample ID: 11160-CBP001
Prep Type: Total/NA
Prep Batch: 205492

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	170		1.00	180	4	ug/L		490	80 - 120	1	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 680-205509/1
Matrix: Water
Analysis Batch: 205509

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
pH	7.00	7.010		SU		100	63 - 158

Lab Sample ID: 680-69200-1 DU
Matrix: Water
Analysis Batch: 205509

Client Sample ID: 11160-CBP001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	11.1	HF	11.05		SU		0.09	40

Lab Chronicle

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-69200-1

Client Sample ID: 11160-CBP001
Date Collected: 06/09/11 14:00
Date Received: 06/10/11 09:10

Lab Sample ID: 680-69200-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			205492	06/10/11 10:31	JV	TAL SAV
Total/NA	Analysis	7470A		50	205534	06/10/11 15:10	JV	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	205509	06/10/11 11:01	JKL	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number 040482

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
LCP Chemicals		GA
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: EPS	CLIENT PHONE	CLIENT FAX
CLIENT NAME: Kirk Kessler	CLIENT E-MAIL	
CLIENT ADDRESS: 900 Ashwood Pkwy Ste. 350 Atlanta GA		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE ____ OF ____

STANDARD REPORT DELIVERY ◯
DATE DUE ____

EXPEDITED REPORT DELIVERY (SURCHARGE) ◯
DATE DUE ____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT,...)	REQUIRED ANALYSIS: 149 / 7470A	REQUIRED ANALYSIS: PH SW 4500 H+B	REMARKS
6.9.11	14:00	11160-CBP001		✓				1	1	

PRESERVATIVE

NUMBER OF CONTAINERS SUBMITTED

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	6.9.11	14:00						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Beth A Daughtry	06/10/11	0910	YES ◯ NO ◯		680-69200	Temp 2 6°C

TAL 8240-680 (1008)

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06/10/2011

Certification Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-69200-1

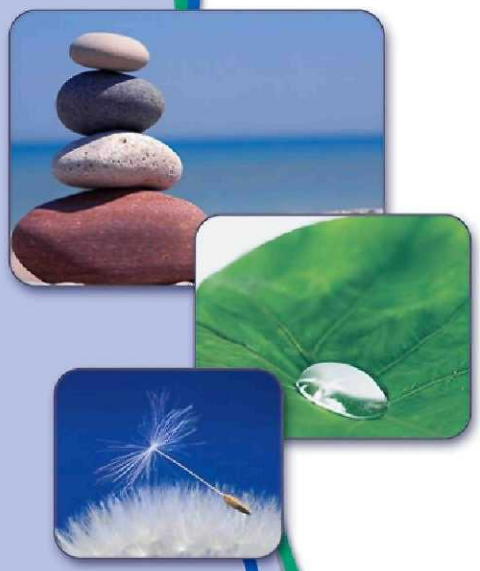
Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP	0	0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025	0	399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kansas	NELAC	7	E-10322
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	Nevada	State Program	9	GA6
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Oklahoma	State Program	6	9984
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA	0	SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT



TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-69409-1
Client Project/Site: Honeywell - Brunswick Site

For:
Environmental Planning Specialists, Inc.
900 Ashwood Parkway
Suite 350
Atlanta, Georgia 30338

Attn: Chris Saranko

Linda A. Wolfe

Authorized for release by:
06/20/2011 11:17:49 AM

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com

LINKS

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Visit us at: www.testamericainc.com

Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all 2003 NELAC requirements for accredited parameters, exceptions are noted in this report. Pursuant to NELAC, 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.

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Job ID: 680-69409-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Environmental Planning Specialists, Inc.

Project: Honeywell - Brunswick Site

Report Number: 680-69409-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 06/16/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 4.8 C.

TOTAL MERCURY

Sample 11166-CBP002E (680-69409-1) was analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 06/16/2011 and analyzed on 06/17/2011.

Sample 11166-CBP002E (680-69409-1)[100X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

CORROSIVITY (PH)

Sample 11166-CBP002E (680-69409-1) was analyzed for corrosivity (pH) in accordance with SM 4500 H+ B. The samples were analyzed on 06/16/2011. This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe

No difficulties were encountered during the pH analysis.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-69409-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-69409-1	11166-CBP002E	Water	06/15/11 15:30	06/16/11 09:37

Method Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-69409-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 4500 H+ B	pH	SM	TAL SAV

Protocol References:

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Client: Environmental Planning Specialists, Inc. TestAmerica Job ID: 680-69409-1
Project/Site: Honeywell - Brunswick Site

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-69409-1

Client Sample ID: 11166-CBP002E
Date Collected: 06/15/11 15:30
Date Received: 06/16/11 09:37

Lab Sample ID: 680-69409-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	240		20	9.1	ug/L		06/16/11 12:46	06/17/11 17:39	100

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	10.8	HF			SU			06/16/11 17:27	1

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-69409-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-206119/1-A
Matrix: Water
Analysis Batch: 206396

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 206119

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		06/16/11 12:33	06/17/11 14:38	1

Lab Sample ID: LCS 680-206119/2-A
Matrix: Water
Analysis Batch: 206396

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 206119

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	2.47		ug/L		99	80 - 120

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 680-206166/3
Matrix: Water
Analysis Batch: 206166

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
pH	7.00	7.010		SU		100	63 - 158

QC Association Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-69409-1

Metals

Prep Batch: 206119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-206119/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-206119/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-69409-1	11166-CBP002E	Total/NA	Water	7470A	

Analysis Batch: 206396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-206119/1-A	Method Blank	Total/NA	Water	7470A	206119
LCS 680-206119/2-A	Lab Control Sample	Total/NA	Water	7470A	206119
680-69409-1	11166-CBP002E	Total/NA	Water	7470A	206119

General Chemistry

Analysis Batch: 206166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-206166/3	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
680-69409-1	11166-CBP002E	Total/NA	Water	SM 4500 H+ B	

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-69409-1

Client Sample ID: 11166-CBP002E
Date Collected: 06/15/11 15:30
Date Received: 06/16/11 09:37

Lab Sample ID: 680-69409-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			206119	06/16/11 12:46	JV	TAL SAV
Total/NA	Analysis	7470A		100	206396	06/17/11 17:39	JPH	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	206166	06/16/11 17:27	JKL	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number 041053

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

○ TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

○ Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
LCP CHEMICALS		GA
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: EPS	CLIENT PHONE	CLIENT FAX
CLIENT NAME: KIRK KESSLER	CLIENT E-MAIL	
CLIENT ADDRESS: 900 ASHWOOD PKWY STE 350 ATLANTA, GA		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE ____ OF ____

STANDARD REPORT DELIVERY ○
DATE DUE ____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE ____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: Hg 7470A	REQUIRED ANALYSIS: Mn SM 4500H+B	REMARKS
								PRESERVATIVE		
6-15-11	1530	11166 - CBP ΦΦ2 E		✓				1	1	

NUMBER OF CONTAINERS SUBMITTED

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
R Gregory	6-15-11	1530						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Ruth A Daughtry	06/16/11	0937	YES ○ NO ○		680-69409	Temp 4.8°C

TAL 8240-680 (1008)

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06/20/2011

Login Sample Receipt Checklist

Client: Environmental Planning Specialists, Inc.

Job Number: 680-69409-1

Login Number: 69409

List Source: TestAmerica Savannah

List Number: 1

Creator: Daughtry, Beth

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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	Metals container needs the pH adjusted
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.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-69409-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP	0	0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025	0	399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kansas	NELAC	7	E-10322
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	Nevada	State Program	9	GA6
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Oklahoma	State Program	6	9984
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA	0	SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

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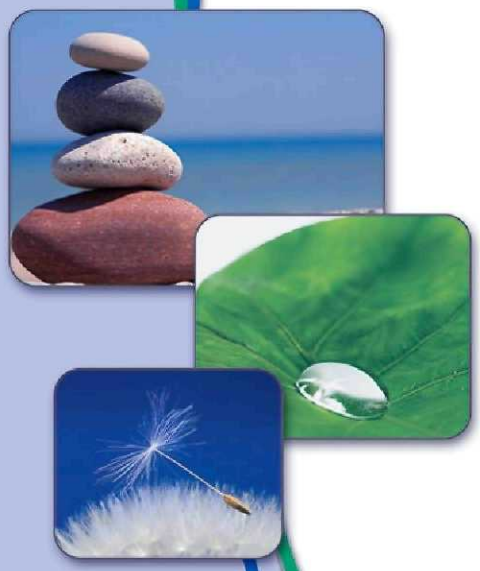
ANALYTICAL REPORT



TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-69583-1
Client Project/Site: Honeywell - Brunswick Site

For:
Environmental Planning Specialists, Inc.
900 Ashwood Parkway
Suite 350
Atlanta, Georgia 30338

Attn: Chris Saranko

Linda A. Wolfe

Authorized for release by:
06/22/2011 12:25:52 PM

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com

LINKS

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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.

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Sample Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-69583-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-69583-1	11171-CBP-003E	Water	06/20/11 17:10	06/21/11 09:05
680-69583-2	11171-CBP-004I	Water	06/20/11 16:45	06/21/11 09:05

Method Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-69583-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 4500 H+ B	pH	SM	TAL SAV

Protocol References:

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Client: Environmental Planning Specialists, Inc. TestAmerica Job ID: 680-69583-1
Project/Site: Honeywell - Brunswick Site

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-69583-1

Client Sample ID: 11171-CBP-003E

Lab Sample ID: 680-69583-1

Date Collected: 06/20/11 17:10
Matrix: Water
Date Received: 06/21/11 09:05

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	220		10	4.6	ug/L		06/21/11 09:33	06/21/11 17:18	50

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	10.6	HF			SU			06/21/11 17:08	1

Client Sample ID: 11171-CBP-004I

Lab Sample ID: 680-69583-2

Date Collected: 06/20/11 16:45
Matrix: Water
Date Received: 06/21/11 09:05

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	200		10	4.6	ug/L		06/21/11 09:33	06/21/11 17:21	50

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	11.0	HF			SU			06/21/11 17:05	1

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-69583-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-206522/1-A
Matrix: Water
Analysis Batch: 206645

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 206522

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		06/21/11 09:33	06/21/11 16:58	1

Lab Sample ID: LCS 680-206522/2-A
Matrix: Water
Analysis Batch: 206645

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 206522

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	2.47		ug/L		99	80 - 120

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 680-206599/1
Matrix: Water
Analysis Batch: 206599

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
pH	7.00	7.050		SU		101	63 - 158

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-69583-1

Metals

Prep Batch: 206522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-206522/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-206522/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-69583-1	11171-CBP-003E	Total/NA	Water	7470A	
680-69583-2	11171-CBP-004I	Total/NA	Water	7470A	

Analysis Batch: 206645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-206522/1-A	Method Blank	Total/NA	Water	7470A	206522
LCS 680-206522/2-A	Lab Control Sample	Total/NA	Water	7470A	206522
680-69583-1	11171-CBP-003E	Total/NA	Water	7470A	206522
680-69583-2	11171-CBP-004I	Total/NA	Water	7470A	206522

General Chemistry

Analysis Batch: 206599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-206599/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
680-69583-2	11171-CBP-004I	Total/NA	Water	SM 4500 H+ B	
680-69583-1	11171-CBP-003E	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-69583-1

Client Sample ID: 11171-CBP-003E

Lab Sample ID: 680-69583-1

Date Collected: 06/20/11 17:10

Matrix: Water

Date Received: 06/21/11 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			206522	06/21/11 09:33	JV	TAL SAV
Total/NA	Analysis	7470A		50	206645	06/21/11 17:18	JPH	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	206599	06/21/11 17:08	MSJ	TAL SAV

Client Sample ID: 11171-CBP-004I

Lab Sample ID: 680-69583-2

Date Collected: 06/20/11 16:45

Matrix: Water

Date Received: 06/21/11 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			206522	06/21/11 09:33	JV	TAL SAV
Total/NA	Analysis	7470A		50	206645	06/21/11 17:21	JPH	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	206599	06/21/11 17:05	MSJ	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number 041054

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

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○ TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

○ Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
L&P CHEMICALS		GA
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
EPS		
CLIENT NAME	CLIENT E-MAIL	
KIRK KESSLER		
CLIENT ADDRESS		
900 ASHWOOD PKWY. STE 350 ATLANTA, GA		
COMPANY CONTRACTING THIS WORK (If applicable)		

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE | AQUEOUS (WATER) | SOLID OR SEMISOLID | AIR | NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

REQUIRED ANALYSIS: Hg 7470 A | pH 9045D/H+S

PRESERVATIVE

PAGE ____ OF ____

STANDARD REPORT DELIVERY ○
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED: Hg 7470 A	NUMBER OF CONTAINERS SUBMITTED: pH 9045D/H+S	REMARKS
6-20-11	1710	11171-CBP 003E		✓				1	1	
6-20-11	1645	11171-CBP 004I		✓				1	1	Rush 24 hr TAT

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
L Gregory	6-20-11	1745						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	6/21/11	0905	YES ○ NO ○		680-64583	3.2°C

TAL.8240-680 (1008)

06/22/2011

Login Sample Receipt Checklist

Client: Environmental Planning Specialists, Inc.

Job Number: 680-69583-1

Login Number: 69583

List Source: TestAmerica Savannah

List Number: 1

Creator: Conner, Keaton

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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?	N/A	
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.	False	nitric containers need adjusting
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.	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-69583-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
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TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
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TestAmerica Savannah	New Mexico	State Program	6	N/A
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TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
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TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-69735-1
Client Project/Site: Honeywell - Brunswick Site

For:
Environmental Planning Specialists, Inc.
900 Ashwood Parkway
Suite 350
Atlanta, Georgia 30338

Attn: Chris Saranko

Linda A. Wolfe

Authorized for release by:
06/27/2011 04:13:31 PM

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com

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Job ID: 680-69735-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Environmental Planning Specialists, Inc.

Project: Honeywell - Brunswick Site

Report Number: 680-69735-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 06/24/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.8 C.

TOTAL MERCURY

Sample 11174-CBP 005I (680-69735-1) was analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 06/24/2011.

The spiking solution was inadvertently omitted during the preperation process for the laboratory control sample (LCS) associated with preparation batch 680-206935; therefore, percent recoveries are unavailable. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits; therefore, the data have been reported.
Refer to the QC report for details.

Sample 11174-CBP 005I (680-69735-1)[50X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the mercury analysis.

All other quality control parameters were within the acceptance limits.

CORROSIVITY (PH)

Sample 11174-CBP 005I (680-69735-1) was analyzed for corrosivity (pH) in accordance with SM 4500 H+ B. The samples were analyzed on 06/24/2011. This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe,

No difficulties were encountered during the pH analysis.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-69735-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-69735-1	11174-CBP 005I	Water	06/23/11 17:00	06/24/11 09:20

Method Summary

Client: Environmental Planning Specialists, Inc. TestAmerica Job ID: 680-69735-1
Project/Site: Honeywell - Brunswick Site

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 4500 H+ B	pH	SM	TAL SAV

Protocol References:

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

Metals

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
U	Indicates the analyte was analyzed for but not detected.

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.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-69735-1

Client Sample ID: 11174-CBP 005I
Date Collected: 06/23/11 17:00
Date Received: 06/24/11 09:20

Lab Sample ID: 680-69735-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	210	*	10	4.6	ug/L		06/24/11 10:57	06/24/11 15:36	50

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	11.1	HF			SU			06/24/11 16:04	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-206935/1-A
Matrix: Water
Analysis Batch: 207044

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 206935

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		06/24/11 09:08	06/24/11 15:29	1

Lab Sample ID: LCS 680-206935/2-A
Matrix: Water
Analysis Batch: 207044

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 206935

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	0.20	U *	ug/L		-2	80 - 120

Lab Sample ID: 680-69702-A-4-B MS
Matrix: Water
Analysis Batch: 207044

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 206935

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.20	U *	1.00	1.00		ug/L		100	80 - 120

Lab Sample ID: 680-69702-A-4-C MSD
Matrix: Water
Analysis Batch: 207044

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 206935

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.20	U *	1.00	0.980		ug/L		98	80 - 120	2	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 680-207134/7
Matrix: Water
Analysis Batch: 207134

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
pH	7.00	7.040		SU		101	63 - 158

Lab Sample ID: 680-69733-X-1 DU
Matrix: Water
Analysis Batch: 207134

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.04		8.030		SU		0.1	40

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-69735-1

Metals

Prep Batch: 206935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-206935/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-206935/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-69702-A-4-B MS	Matrix Spike	Total/NA	Water	7470A	
680-69702-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	
680-69735-1	11174-CBP 005I	Total/NA	Water	7470A	

Analysis Batch: 207044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-206935/1-A	Method Blank	Total/NA	Water	7470A	206935
LCS 680-206935/2-A	Lab Control Sample	Total/NA	Water	7470A	206935
680-69735-1	11174-CBP 005I	Total/NA	Water	7470A	206935
680-69702-A-4-B MS	Matrix Spike	Total/NA	Water	7470A	206935
680-69702-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	206935

General Chemistry

Analysis Batch: 207134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-207134/7	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
680-69733-X-1 DU	Duplicate	Total/NA	Water	SM 4500 H+ B	
680-69735-1	11174-CBP 005I	Total/NA	Water	SM 4500 H+ B	

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-69735-1

Client Sample ID: 11174-CBP 005I
Date Collected: 06/23/11 17:00
Date Received: 06/24/11 09:20

Lab Sample ID: 680-69735-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			206935	06/24/11 10:57	JV	TAL SAV
Total/NA	Analysis	7470A		50	207044	06/24/11 15:36	JPH	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	207134	06/24/11 16:04	JKL	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number 040973

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

○ TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

○ Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
LBP CHEMICALS		GA
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: EPS	CLIENT PHONE	CLIENT FAX
CLIENT NAME: KIRK KESSLER	CLIENT E-MAIL	
CLIENT ADDRESS: 900 ASHWOOD PKWY STE. 350 ATLANTA, GA.		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ○
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: Hg 7470 A	pH SM4500H+B	NUMBER OF CONTAINERS SUBMITTED	REMARKS
6-23-11	1700	11174-CBP 605I		G				1	1		

PRESERVATIVE

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
R Gregory	6-23-11	1730						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Beth A Daughtry	06/24/11	0920	YES ○ NO ○		680-69735	Temp 1.8°C

TAL 8240-680 (1008)

06/27/2011

Login Sample Receipt Checklist

Client: Environmental Planning Specialists, Inc.

Job Number: 680-69735-1

Login Number: 69735

List Source: TestAmerica Savannah

List Number: 1

Creator: Daughtry, Beth

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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	pH needs to be adjusted for Metals container
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.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

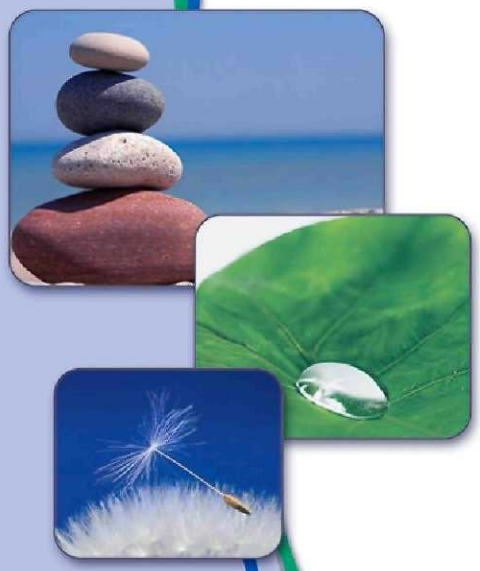
TestAmerica Job ID: 680-69735-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kansas	NELAC	7	E-10322
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	Nevada	State Program	9	GA6
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Oklahoma	State Program	6	9984
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-69869-1
Client Project/Site: Honeywell - Brunswick Site

For:
Environmental Planning Specialists, Inc.
900 Ashwood Parkway
Suite 350
Atlanta, Georgia 30338

Attn: Kirk Kessler

Linda A. Wolfe

Authorized for release by:
06/30/2011 05:04:20 PM

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com

LINKS

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Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all 2003 NELAC requirements for accredited parameters, exceptions are noted in this report. Pursuant to NELAC, 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.

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Job ID: 680-69869-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Environmental Planning Specialists, Inc.

Project: Honeywell - Brunswick Site

Report Number: 680-69869-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 06/29/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 2.6 C.

TOTAL MERCURY

Samples 11179-CBP 006I (680-69869-1), 11179-CBP 007I (680-69869-2), 11179-CBP 008I (680-69869-3), 11179-CBP 009I (680-69869-4) and 11179-CBP 010I (680-69869-5) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 06/29/2011.

A MS/MSD was performed on client sample 11179-CBP 006IMS (680-69869-1) in batch 680-207701. Due to the abundance of the mercury in the parent sample, the MS/MSD recoveries exceeded the limits. The presence of the '4' qualifier in the report indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

Samples 11179-CBP 006I (680-69869-1)[50X], 11179-CBP 007I (680-69869-2)[50X], 11179-CBP 008I (680-69869-3)[50X], 11179-CBP 009I (680-69869-4)[50X] and 11179-CBP 010I (680-69869-5)[50X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the mercury analyses.

All other quality control parameters were within the acceptance limits.

Sample Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-69869-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-69869-1	11179-CBP 006I	Water	06/28/11 17:00	06/29/11 08:20
680-69869-2	11179-CBP 007I	Water	06/28/11 17:02	06/29/11 08:20
680-69869-3	11179-CBP 008I	Water	06/28/11 17:04	06/29/11 08:20
680-69869-4	11179-CBP 009I	Water	06/28/11 17:06	06/29/11 08:20
680-69869-5	11179-CBP 010I	Water	06/28/11 17:08	06/29/11 08:20

Method Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-69869-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	TAL SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Client: Environmental Planning Specialists, Inc. TestAmerica Job ID: 680-69869-1
Project/Site: Honeywell - Brunswick Site

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
U	Indicates the analyte was analyzed for but not detected.

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.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-69869-1

Client Sample ID: 11179-CBP 006I — **Lab Sample ID: 680-69869-1**
Date Collected: 06/28/11 17:00 — **Matrix: Water**
Date Received: 06/29/11 08:20

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	206		10.0	4.6	ug/L		06/29/11 12:31	06/29/11 18:20	50

Client Sample ID: 11179-CBP 007I — **Lab Sample ID: 680-69869-2**
Date Collected: 06/28/11 17:02 — **Matrix: Water**
Date Received: 06/29/11 08:20

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	212		10.0	4.6	ug/L		06/29/11 12:31	06/29/11 18:36	50

Client Sample ID: 11179-CBP 008I — **Lab Sample ID: 680-69869-3**
Date Collected: 06/28/11 17:04 — **Matrix: Water**
Date Received: 06/29/11 08:20

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	159		10.0	4.6	ug/L		06/29/11 12:31	06/29/11 18:40	50

Client Sample ID: 11179-CBP 009I — **Lab Sample ID: 680-69869-4**
Date Collected: 06/28/11 17:06 — **Matrix: Water**
Date Received: 06/29/11 08:20

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	215		10.0	4.6	ug/L		06/29/11 12:31	06/29/11 18:43	50

Client Sample ID: 11179-CBP 010I — **Lab Sample ID: 680-69869-5**
Date Collected: 06/28/11 17:08 — **Matrix: Water**
Date Received: 06/29/11 08:20

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	208		10.0	4.6	ug/L		06/29/11 12:31	06/29/11 18:47	50

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-207496/1-A
Matrix: Water
Analysis Batch: 207701

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 207496

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		06/29/11 12:31	06/29/11 18:14	1

Lab Sample ID: LCS 680-207496/2-A
Matrix: Water
Analysis Batch: 207701

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 207496

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	2.56		ug/L		102	80 - 120

Lab Sample ID: 680-69869-1 MS
Matrix: Water
Analysis Batch: 207701

Client Sample ID: 11179-CBP 006I
Prep Type: Total/NA
Prep Batch: 207496

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	206		1.00	211.0	4	ug/L		485	80 - 120

Lab Sample ID: 680-69869-1 MSD
Matrix: Water
Analysis Batch: 207701

Client Sample ID: 11179-CBP 006I
Prep Type: Total/NA
Prep Batch: 207496

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	206		1.00	216.8	4	ug/L		1060	80 - 120	3	20

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-69869-1

Metals

Prep Batch: 207496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-207496/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-207496/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-69869-1	11179-CBP 006I	Total/NA	Water	7470A	
680-69869-1 MS	11179-CBP 006I	Total/NA	Water	7470A	
680-69869-1 MSD	11179-CBP 006I	Total/NA	Water	7470A	
680-69869-2	11179-CBP 007I	Total/NA	Water	7470A	
680-69869-3	11179-CBP 008I	Total/NA	Water	7470A	
680-69869-4	11179-CBP 009I	Total/NA	Water	7470A	
680-69869-5	11179-CBP 010I	Total/NA	Water	7470A	

Analysis Batch: 207701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-207496/1-A	Method Blank	Total/NA	Water	7470A	207496
LCS 680-207496/2-A	Lab Control Sample	Total/NA	Water	7470A	207496
680-69869-1	11179-CBP 006I	Total/NA	Water	7470A	207496
680-69869-1 MS	11179-CBP 006I	Total/NA	Water	7470A	207496
680-69869-1 MSD	11179-CBP 006I	Total/NA	Water	7470A	207496
680-69869-2	11179-CBP 007I	Total/NA	Water	7470A	207496
680-69869-3	11179-CBP 008I	Total/NA	Water	7470A	207496
680-69869-4	11179-CBP 009I	Total/NA	Water	7470A	207496
680-69869-5	11179-CBP 010I	Total/NA	Water	7470A	207496

Lab Chronicle

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-69869-1

Client Sample ID: 11179-CBP 006I

Lab Sample ID: 680-69869-1

Date Collected: 06/28/11 17:00

Matrix: Water

Date Received: 06/29/11 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			207496	06/29/11 12:31	JPH	TAL SAV
Total/NA	Analysis	7470A		50	207701	06/29/11 18:20	JPH	TAL SAV

Client Sample ID: 11179-CBP 007I

Lab Sample ID: 680-69869-2

Date Collected: 06/28/11 17:02

Matrix: Water

Date Received: 06/29/11 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			207496	06/29/11 12:31	JPH	TAL SAV
Total/NA	Analysis	7470A		50	207701	06/29/11 18:36	JPH	TAL SAV

Client Sample ID: 11179-CBP 008I

Lab Sample ID: 680-69869-3

Date Collected: 06/28/11 17:04

Matrix: Water

Date Received: 06/29/11 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			207496	06/29/11 12:31	JPH	TAL SAV
Total/NA	Analysis	7470A		50	207701	06/29/11 18:40	JPH	TAL SAV

Client Sample ID: 11179-CBP 009I

Lab Sample ID: 680-69869-4

Date Collected: 06/28/11 17:06

Matrix: Water

Date Received: 06/29/11 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			207496	06/29/11 12:31	JPH	TAL SAV
Total/NA	Analysis	7470A		50	207701	06/29/11 18:43	JPH	TAL SAV

Client Sample ID: 11179-CBP 010I

Lab Sample ID: 680-69869-5

Date Collected: 06/28/11 17:08

Matrix: Water

Date Received: 06/29/11 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			207496	06/29/11 12:31	JPH	TAL SAV
Total/NA	Analysis	7470A		50	207701	06/29/11 18:47	JPH	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number 041002

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
LCP CHEMICALS		GA
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: EPS	CLIENT PHONE	CLIENT FAX
CLIENT NAME: KIRK KESSLER	CLIENT E-MAIL	
CLIENT ADDRESS: 900 ASHWOOD PKWY STE. 350 ATLANTA, GA.		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ◯
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ◯
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: Hg 7470A	NUMBER OF CONTAINERS SUBMITTED	REMARKS
6-28-11	1700	11179-CBP-0006-I		✓				1		
6-28-11	1702	11179-CBP-0007-I		✓				1		
6-28-11	1704	11179-CBP-0008-I		✓				1		
6-28-11	1706	11179-CBP-0009-I		✓				1		
6-28-11	1708	11179-CBP-0010-I		✓				1		

PRESERVATIVE

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
R Gregory	6-28-11	1800						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Frances Swafford	06/29/11	08:20	YES ◯ NO ◯		680-69869	2.6°C

TAL 8240-680 (1008)

Page 11 of 13

06/30/2011

Login Sample Receipt Checklist

Client: Environmental Planning Specialists, Inc.

Job Number: 680-69869-1

Login Number: 69869

List Source: TestAmerica Savannah

List Number: 1

Creator: Swafford, Frances

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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?	N/A	
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	all samples >2
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.	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-69869-1

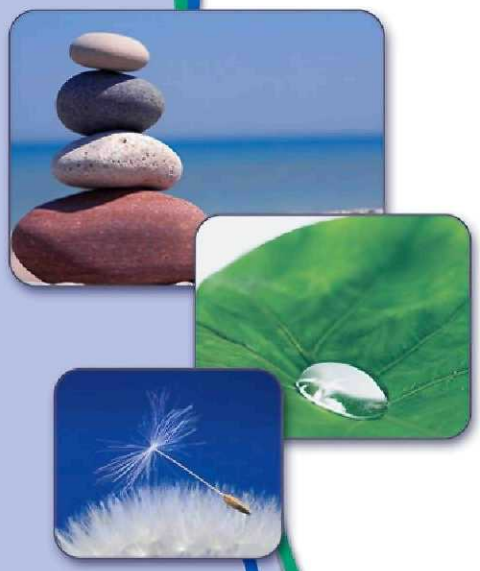
Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kansas	NELAC	7	E-10322
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	Nevada	State Program	9	GA6
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Oklahoma	State Program	6	9984
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT



TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-70066-1
Client Project/Site: Honeywell - Brunswick Site

For:
Environmental Planning Specialists, Inc.
900 Ashwood Parkway
Suite 350
Atlanta, Georgia 30338

Attn: Kirk Kessler

Authorized for release by:
07/07/2011 03:17:57 PM
Bernard Kirkland
Project Manager I
bernard.kirkland@testamericainc.com

Designee for

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all 2003 NELAC requirements for accredited parameters, exceptions are noted in this report. Pursuant to NELAC, 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.

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Job ID: 680-70066-1

Laboratory: TestAmerica Savannah

Narrative

Job Narrative
680-70066-1

Comments
No additional comments.

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

Metals
No analytical or quality issues were noted.

General Chemistry
Method(s) SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample(s) has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: 11186-CBP-011I (680-70066-1), 11186-CBP-012I (680-70066-2), 11186-CBP-013I (680-70066-3), 11186-CBP-014I (680-70066-4), 11186-CBP-015I (680-70066-5)

No other analytical or quality issues were noted.

Sample Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70066-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-70066-1	11186-CBP-011I	Water	07/05/11 13:15	07/06/11 09:15
680-70066-2	11186-CBP-012I	Water	07/05/11 13:17	07/06/11 09:15
680-70066-3	11186-CBP-013I	Water	07/05/11 13:19	07/06/11 09:15
680-70066-4	11186-CBP-014I	Water	07/05/11 13:21	07/06/11 09:15
680-70066-5	11186-CBP-015I	Water	07/05/11 13:23	07/06/11 09:15

Method Summary

Client: Environmental Planning Specialists, Inc. TestAmerica Job ID: 680-70066-1
Project/Site: Honeywell - Brunswick Site

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 4500 H+ B	pH	SM	TAL SAV

Protocol References:

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70066-1

Client Sample ID: 11186-CBP-011I — **Lab Sample ID: 680-70066-1**
Date Collected: 07/05/11 13:15 — Matrix: Water
Date Received: 07/06/11 09:15

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	149		10.0	4.6	ug/L		07/06/11 14:25	07/07/11 12:16	50

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	10.7	HF			SU			07/06/11 13:49	1

Client Sample ID: 11186-CBP-012I — **Lab Sample ID: 680-70066-2**
Date Collected: 07/05/11 13:17 — Matrix: Water
Date Received: 07/06/11 09:15

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	155		10.0	4.6	ug/L		07/06/11 14:25	07/07/11 12:19	50

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	10.8	HF			SU			07/06/11 13:53	1

Client Sample ID: 11186-CBP-013I — **Lab Sample ID: 680-70066-3**
Date Collected: 07/05/11 13:19 — Matrix: Water
Date Received: 07/06/11 09:15

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	146		10.0	4.6	ug/L		07/06/11 14:25	07/07/11 12:22	50

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	10.8	HF			SU			07/06/11 13:57	1

Client Sample ID: 11186-CBP-014I — **Lab Sample ID: 680-70066-4**
Date Collected: 07/05/11 13:21 — Matrix: Water
Date Received: 07/06/11 09:15

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	159		10.0	4.6	ug/L		07/06/11 14:25	07/07/11 12:25	50

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	10.7	HF			SU			07/06/11 14:00	1

Client Sample ID: 11186-CBP-015I — **Lab Sample ID: 680-70066-5**
Date Collected: 07/05/11 13:23 — Matrix: Water
Date Received: 07/06/11 09:15

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	183		10.0	4.6	ug/L		07/06/11 14:25	07/07/11 12:29	50

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70066-1

Client Sample ID: 11186-CBP-015I
Date Collected: 07/05/11 13:23
Date Received: 07/06/11 09:15

Lab Sample ID: 680-70066-5
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	10.8	HF			SU			07/06/11 14:04	1

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70066-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-208092/1-A
Matrix: Water
Analysis Batch: 208219

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 208092

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		07/06/11 14:25	07/07/11 11:19	1

Lab Sample ID: LCS 680-208092/2-A
Matrix: Water
Analysis Batch: 208219

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 208092

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	2.72		ug/L		109	80 - 120

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 680-208097/5
Matrix: Water
Analysis Batch: 208097

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
pH	7.00	7.000		SU		100	63 - 158

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70066-1

Metals

Prep Batch: 208092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-208092/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-208092/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-70066-1	11186-CBP-011I	Total/NA	Water	7470A	
680-70066-2	11186-CBP-012I	Total/NA	Water	7470A	
680-70066-3	11186-CBP-013I	Total/NA	Water	7470A	
680-70066-4	11186-CBP-014I	Total/NA	Water	7470A	
680-70066-5	11186-CBP-015I	Total/NA	Water	7470A	

Analysis Batch: 208219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-208092/1-A	Method Blank	Total/NA	Water	7470A	208092
LCS 680-208092/2-A	Lab Control Sample	Total/NA	Water	7470A	208092
680-70066-1	11186-CBP-011I	Total/NA	Water	7470A	208092
680-70066-2	11186-CBP-012I	Total/NA	Water	7470A	208092
680-70066-3	11186-CBP-013I	Total/NA	Water	7470A	208092
680-70066-4	11186-CBP-014I	Total/NA	Water	7470A	208092
680-70066-5	11186-CBP-015I	Total/NA	Water	7470A	208092

General Chemistry

Analysis Batch: 208097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-208097/5	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
680-70066-1	11186-CBP-011I	Total/NA	Water	SM 4500 H+ B	
680-70066-2	11186-CBP-012I	Total/NA	Water	SM 4500 H+ B	
680-70066-3	11186-CBP-013I	Total/NA	Water	SM 4500 H+ B	
680-70066-4	11186-CBP-014I	Total/NA	Water	SM 4500 H+ B	
680-70066-5	11186-CBP-015I	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70066-1

Client Sample ID: 11186-CBP-011I

Lab Sample ID: 680-70066-1

Date Collected: 07/05/11 13:15
Matrix: Water
Date Received: 07/06/11 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			208092	07/06/11 14:25	JPH	TAL SAV
Total/NA	Analysis	7470A		50	208219	07/07/11 12:16	CE	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	208097	07/06/11 13:49	JKL	TAL SAV

Client Sample ID: 11186-CBP-012I

Lab Sample ID: 680-70066-2

Date Collected: 07/05/11 13:17
Matrix: Water
Date Received: 07/06/11 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			208092	07/06/11 14:25	JPH	TAL SAV
Total/NA	Analysis	7470A		50	208219	07/07/11 12:19	CE	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	208097	07/06/11 13:53	JKL	TAL SAV

Client Sample ID: 11186-CBP-013I

Lab Sample ID: 680-70066-3

Date Collected: 07/05/11 13:19
Matrix: Water
Date Received: 07/06/11 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			208092	07/06/11 14:25	JPH	TAL SAV
Total/NA	Analysis	7470A		50	208219	07/07/11 12:22	CE	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	208097	07/06/11 13:57	JKL	TAL SAV

Client Sample ID: 11186-CBP-014I

Lab Sample ID: 680-70066-4

Date Collected: 07/05/11 13:21
Matrix: Water
Date Received: 07/06/11 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			208092	07/06/11 14:25	JPH	TAL SAV
Total/NA	Analysis	7470A		50	208219	07/07/11 12:25	CE	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	208097	07/06/11 14:00	JKL	TAL SAV

Client Sample ID: 11186-CBP-015I

Lab Sample ID: 680-70066-5

Date Collected: 07/05/11 13:23
Matrix: Water
Date Received: 07/06/11 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			208092	07/06/11 14:25	JPH	TAL SAV
Total/NA	Analysis	7470A		50	208219	07/07/11 12:29	CE	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	208097	07/06/11 14:04	JKL	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number 013374

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
LCP CHEMICALS		GA
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
EPS		
CLIENT NAME	CLIENT E-MAIL	
KIRK KESSLER		
CLIENT ADDRESS		
900 ASHWOOD PKWY STE. 350 ATLANTA, GA		
COMPANY CONTRACTING THIS WORK (if applicable)		

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

REQUIRED ANALYSIS: Hg 7470 A; pH SW 9040 A+B

PRESERVATIVE

PAGE 1 OF 1

STANDARD REPORT DELIVERY ◯ DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE) ◯ DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	AQUEOUS (WATER)	NUMBER OF CONTAINERS SUBMITTED		REMARKS
7-5-11	1315	11186-CBP-011I	✓	1	1	
7-5-11	1317	11186-CBP-012I	✓	1	1	
7-5-11	1319	11186-CBP-013I	✓	1	1	
7-5-11	1321	11186-CBP-014I	✓	1	1	
7-5-11	1323	11186-CBP-015I	✓	1	1	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
R Gregory	7-5-11	1800						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Bertha Daughtry	07/06/11	0915	YES ◯ NO ◯		680-700166	Temp 2.6°C

TAL 8240-680 (1008)

Page 12 of 14

07/07/2011

Login Sample Receipt Checklist

Client: Environmental Planning Specialists, Inc.

Job Number: 680-70066-1

Login Number: 70066

List Source: TestAmerica Savannah

List Number: 1

Creator: Daughtry, Beth

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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	metals containers need to be pH adjusted
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.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70066-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kansas	NELAC	7	E-10322
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	Nevada	State Program	9	GA6
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Oklahoma	State Program	6	9984
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

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TestAmerica

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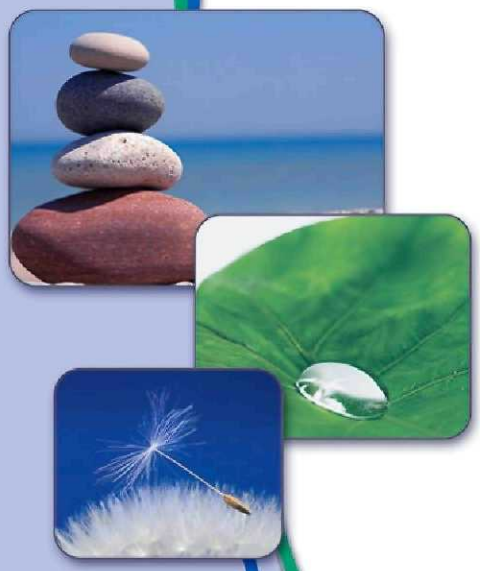
ANALYTICAL REPORT



TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-70313-1
Client Project/Site: Honeywell - Brunswick Site

For:
Environmental Planning Specialists, Inc.
900 Ashwood Parkway
Suite 350
Atlanta, Georgia 30338

Attn: Kirk Kessler

Linda A. Wolfe

Authorized for release by:
07/18/2011 08:45:11 AM

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com

LINKS

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Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all 2003 NELAC requirements for accredited parameters, exceptions are noted in this report. Pursuant to NELAC, 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.

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Sample Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70313-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-70313-1	11193-CBP-016-I	Water	07/12/11 15:00	07/13/11 10:04

Method Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70313-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 4500 H+ B	pH	SM	TAL SAV

Protocol References:

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Client: Environmental Planning Specialists, Inc. TestAmerica Job ID: 680-70313-1
Project/Site: Honeywell - Brunswick Site

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70313-1

Client Sample ID: 11193-CBP-016-I
Date Collected: 07/12/11 15:00
Date Received: 07/13/11 10:04

Lab Sample ID: 680-70313-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	173		10.0	4.6	ug/L		07/15/11 12:10	07/16/11 12:23	50

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	10.8	HF			SU			07/13/11 16:11	1

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70313-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-208984/22-A
Matrix: Water
Analysis Batch: 209081

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 208984

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		07/15/11 12:10	07/16/11 10:57	1

Lab Sample ID: LCS 680-208984/23-A
Matrix: Water
Analysis Batch: 209081

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 208984

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	2.52		ug/L		101	80 - 120

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 680-208789/1
Matrix: Water
Analysis Batch: 208789

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
pH	7.00	7.000		SU		100	63 - 158

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70313-1

Metals

Prep Batch: 208984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-70313-1	11193-CBP-016-I	Total/NA	Water	7470A	
MB 680-208984/22-A	Method Blank	Total/NA	Water	7470A	
LCS 680-208984/23-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 209081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-208984/22-A	Method Blank	Total/NA	Water	7470A	208984
LCS 680-208984/23-A	Lab Control Sample	Total/NA	Water	7470A	208984
680-70313-1	11193-CBP-016-I	Total/NA	Water	7470A	208984

General Chemistry

Analysis Batch: 208789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-208789/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
680-70313-1	11193-CBP-016-I	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70313-1

Client Sample ID: 11193-CBP-016-I
Date Collected: 07/12/11 15:00
Date Received: 07/13/11 10:04

Lab Sample ID: 680-70313-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			208984	07/15/11 12:10	SS	TAL SAV
Total/NA	Analysis	7470A		50	209081	07/16/11 12:23	CE	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	208789	07/13/11 16:11	JKL	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number 036284

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
LCP CHEMICALS		GA.
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
EPS		
CLIENT NAME	CLIENT E-MAIL	
KIRK KESSLER		
CLIENT ADDRESS		
900 ASHWOOD PKWY STE. 350 ATLANTA, GA.		
COMPANY CONTRACTING THIS WORK (if applicable)		

MATRIX TYPE (COMPOSITE (C) OR GRAB (G) INDICATE)

REQUIRED ANALYSIS: Hg 7470 A; pH 5M4500 H+B

PAGE 1 OF 1

STANDARD REPORT DELIVERY ◯

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ◯

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT,)	NUMBER OF CONTAINERS SUBMITTED		REMARKS
7-12-11	1500	11193-CBP-016I	✓				1	1	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
R Gregory	7-12-11	1800						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	7/13/11	1004	YES ◯ NO ◯		680-70313	3.1°C

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07/18/2011

Login Sample Receipt Checklist

Client: Environmental Planning Specialists, Inc.

Job Number: 680-70313-1

Login Number: 70313

List Number: 1

Creator: Conner, Keaton

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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?	N/A	
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.	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70313-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kansas	NELAC	7	E-10322
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	Nevada	State Program	9	GA6
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Oklahoma	State Program	6	9984
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

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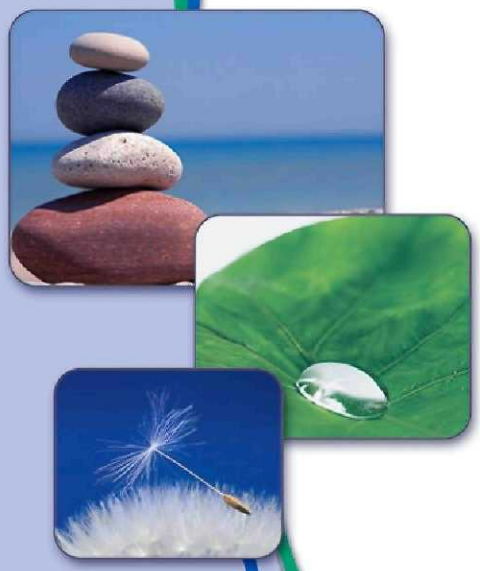
ANALYTICAL REPORT



TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-70421-1
Client Project/Site: Honeywell - Brunswick Site

For:
Environmental Planning Specialists, Inc.
900 Ashwood Parkway
Suite 350
Atlanta, Georgia 30338

Attn: Kirk Kessler

Linda A. Wolfe

Authorized for release by:
07/19/2011 10:25:37 AM

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com

LINKS

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Sample Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70421-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-70421-1	1195 - CBP - 017E	Water	07/14/11 11:50	07/15/11 08:19

Method Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70421-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 4500 H+ B	pH	SM	TAL SAV

Protocol References:

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Client: Environmental Planning Specialists, Inc. TestAmerica Job ID: 680-70421-1
Project/Site: Honeywell - Brunswick Site

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70421-1

Client Sample ID: 1195 - CBP - 017E
Date Collected: 07/14/11 11:50
Date Received: 07/15/11 08:19

Lab Sample ID: 680-70421-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	104		10.0	4.6	ug/L		07/16/11 08:42	07/17/11 20:32	50

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	10.5	HF			SU			07/15/11 10:38	1

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70421-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-209070/1-A
Matrix: Water
Analysis Batch: 209242

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 209070

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		07/16/11 08:42	07/17/11 18:47	1

Lab Sample ID: LCS 680-209070/2-A
Matrix: Water
Analysis Batch: 209242

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 209070

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	2.47		ug/L		99	80 - 120

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 680-209053/1
Matrix: Water
Analysis Batch: 209053

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
pH	7.00	6.990		SU		100	63 - 158

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70421-1

Metals

Prep Batch: 209070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-209070/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-209070/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-70421-1	1195 - CBP - 017E	Total/NA	Water	7470A	

Analysis Batch: 209242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-209070/1-A	Method Blank	Total/NA	Water	7470A	209070
LCS 680-209070/2-A	Lab Control Sample	Total/NA	Water	7470A	209070
680-70421-1	1195 - CBP - 017E	Total/NA	Water	7470A	209070

General Chemistry

Analysis Batch: 209053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-209053/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
680-70421-1	1195 - CBP - 017E	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70421-1

Client Sample ID: 1195 - CBP - 017E
Date Collected: 07/14/11 11:50
Date Received: 07/15/11 08:19

Lab Sample ID: 680-70421-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			209070	07/16/11 08:42	SS	TAL SAV
Total/NA	Analysis	7470A		50	209242	07/17/11 20:32	CE	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	209053	07/15/11 10:38	JKL	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number 041774

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

○ TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

○ Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
LCP Chemicals		GA
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
EPS		
CLIENT NAME	CLIENT E-MAIL	
Kirk Kessler		
CLIENT ADDRESS		
900 Ashwood Pkwy Ste. 350 Atlanta		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ○
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ●
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: Hg 7470A	REQUIRED ANALYSIS: pH SM4500 H+B	REMARKS
								Nitric	PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED
7-14-11	1150	11195-CBP-017E		✓				1	1	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Sara Awbe-Sagg	7/14/11	1700						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Eddie Barnett	07/15/11	0819	YES ○ NO ○		680-70421	4.4 C

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07/19/2011

Login Sample Receipt Checklist

Client: Environmental Planning Specialists, Inc.

Job Number: 680-70421-1

Login Number: 70421

List Source: TestAmerica Savannah

List Number: 1

Creator: Barnett, Eddie T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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?	N/A	
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	Sample -1 had a pH that was out of range (>2)
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.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70421-1

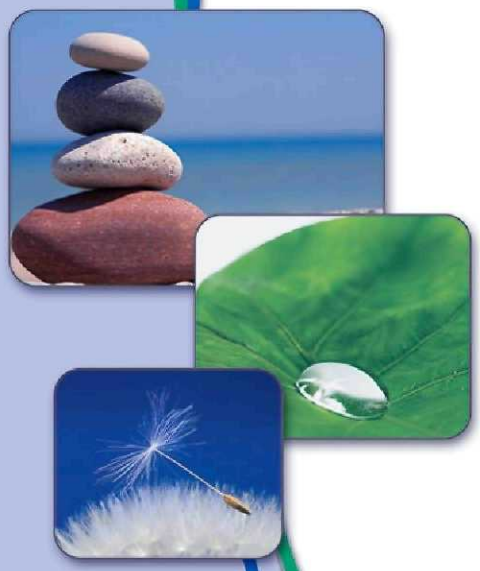
Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kansas	NELAC	7	E-10322
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	Nevada	State Program	9	GA6
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Oklahoma	State Program	6	9984
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT



TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-70545-1
Client Project/Site: Honeywell - Brunswick Site

For:
Environmental Planning Specialists, Inc.
900 Ashwood Parkway
Suite 350
Atlanta, Georgia 30338

Attn: Kirk Kessler

Linda A. Wolfe

Authorized for release by:
07/22/2011 03:13:13 PM

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com

LINKS

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Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all 2003 NELAC requirements for accredited parameters, exceptions are noted in this report. Pursuant to NELAC, 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.

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Sample Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70545-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-70545-1	11200-CBP-018I	Water	07/19/11 16:15	07/20/11 09:15

Method Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70545-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 4500 H+ B	pH	SM	TAL SAV

Protocol References:

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Client: Environmental Planning Specialists, Inc. TestAmerica Job ID: 680-70545-1
Project/Site: Honeywell - Brunswick Site

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70545-1

Client Sample ID: 11200-CBP-018I
Date Collected: 07/19/11 16:15
Date Received: 07/20/11 09:15

Lab Sample ID: 680-70545-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	145		10.0	4.6	ug/L		07/21/11 17:30	07/22/11 14:31	50

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	10.8	HF			SU			07/20/11 15:12	1

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70545-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-209621/1-A
Matrix: Water
Analysis Batch: 209738

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 209621

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		07/21/11 17:30	07/22/11 13:11	1

Lab Sample ID: LCS 680-209621/2-A
Matrix: Water
Analysis Batch: 209738

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 209621

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	2.63		ug/L		105	80 - 120

Lab Sample ID: 680-70517-B-2-C MS
Matrix: Water
Analysis Batch: 209738

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 209621

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.20	U	1.00	1.00		ug/L		100	80 - 120

Lab Sample ID: 680-70517-B-2-D MSD
Matrix: Water
Analysis Batch: 209738

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 209621

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	0.944		ug/L		94	80 - 120	6	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 680-209496/1
Matrix: Water
Analysis Batch: 209496

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
pH	7.00	7.010		SU		100	63 - 158

Lab Sample ID: 680-70547-A-1 DU
Matrix: Water
Analysis Batch: 209496

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.00		7.950		SU		0.6	40

QC Association Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70545-1

Metals

Prep Batch: 209621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-209621/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-209621/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-70517-B-2-C MS	Matrix Spike	Total/NA	Water	7470A	
680-70517-B-2-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	
680-70545-1	11200-CBP-018I	Total/NA	Water	7470A	

Analysis Batch: 209738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-209621/1-A	Method Blank	Total/NA	Water	7470A	209621
LCS 680-209621/2-A	Lab Control Sample	Total/NA	Water	7470A	209621
680-70517-B-2-C MS	Matrix Spike	Total/NA	Water	7470A	209621
680-70517-B-2-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	209621
680-70545-1	11200-CBP-018I	Total/NA	Water	7470A	209621

General Chemistry

Analysis Batch: 209496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-209496/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
680-70547-A-1 DU	Duplicate	Total/NA	Water	SM 4500 H+ B	
680-70545-1	11200-CBP-018I	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70545-1

Client Sample ID: 11200-CBP-018I
Date Collected: 07/19/11 16:15
Date Received: 07/20/11 09:15

Lab Sample ID: 680-70545-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			209621	07/21/11 17:30	SS	TAL SAV
Total/NA	Analysis	7470A		50	209738	07/22/11 14:31	BR	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	209496	07/20/11 15:12	JKL	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number 042056

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

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○ TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

○ Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
LCP CHEMICALS		GA
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: EPS	CLIENT PHONE	CLIENT FAX
CLIENT NAME: Kirk Kessler	CLIENT E-MAIL	
CLIENT ADDRESS: 900 Ashwood PKwy Ste. 350 Atlanta, GA		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ○

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: Nitrate 7470A	REQUIRED ANALYSIS: Hg pH SM4500 H+B	REQUIRED ANALYSIS: PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
7-19-11	1615	11200-CBP-018I		✓				1	1			

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Alvin Jones	7/19/11	1715						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Ruth A Daughtry	07/20/11	0915	YES ○ NO ○		680 70545	Temp 3.4°C

TAL 8240-680 (1008)

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07/22/2011

Login Sample Receipt Checklist

Client: Environmental Planning Specialists, Inc.

Job Number: 680-70545-1

Login Number: 70545

List Source: TestAmerica Savannah

List Number: 1

Creator: Daughtry, Beth

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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?	False	
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	-1A (nitric) >2
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.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70545-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
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TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
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TestAmerica Savannah	Kentucky	State Program	4	90084
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TestAmerica Savannah	Louisiana	NELAC	6	LA100015
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TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
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TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

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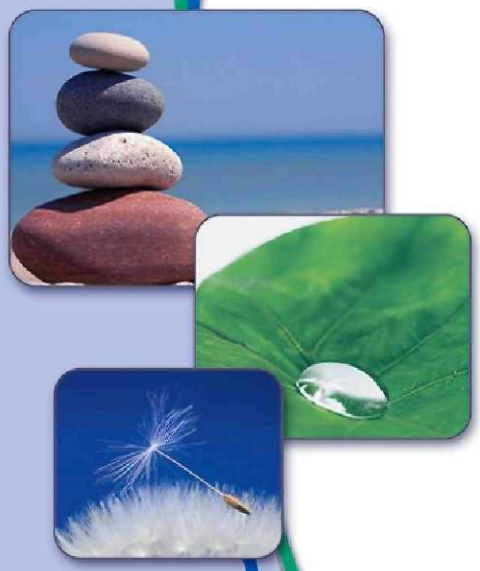
ANALYTICAL REPORT



TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-70649-1
Client Project/Site: Honeywell - Brunswick Site

For:
Environmental Planning Specialists, Inc.
900 Ashwood Parkway
Suite 350
Atlanta, Georgia 30338

Attn: Kirk Kessler

Linda A. Wolfe

Authorized for release by:
07/25/2011 03:47:21 PM

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com

LINKS

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Sample Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70649-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-70649-1	11202-CBP-019E	Water	07/21/11 17:22	07/22/11 10:00

Method Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70649-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 4500 H+ B	pH	SM	TAL SAV

Protocol References:

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70649-1

Client Sample ID: 11202-CBP-019E
Date Collected: 07/21/11 17:22
Date Received: 07/22/11 10:00

Lab Sample ID: 680-70649-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	120		10.0	4.6	ug/L		07/23/11 10:18	07/24/11 15:54	50

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	10.7	HF			SU			07/22/11 15:53	1

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70649-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-209798/1-A
Matrix: Water
Analysis Batch: 209915

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 209798

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		07/23/11 10:18	07/24/11 14:17	1

Lab Sample ID: LCS 680-209798/2-A
Matrix: Water
Analysis Batch: 209915

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 209798

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	2.74		ug/L		110	80 - 120

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 680-209755/1
Matrix: Water
Analysis Batch: 209755

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
pH	7.00	7.010		SU		100	63 - 158

Lab Sample ID: 680-70649-1 DU
Matrix: Water
Analysis Batch: 209755

Client Sample ID: 11202-CBP-019E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	10.7	HF	10.70		SU		0	40

QC Association Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70649-1

Metals

Prep Batch: 209798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-209798/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-209798/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-70649-1	11202-CBP-019E	Total/NA	Water	7470A	

Analysis Batch: 209915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-209798/1-A	Method Blank	Total/NA	Water	7470A	209798
LCS 680-209798/2-A	Lab Control Sample	Total/NA	Water	7470A	209798
680-70649-1	11202-CBP-019E	Total/NA	Water	7470A	209798

General Chemistry

Analysis Batch: 209755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-209755/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
680-70649-1	11202-CBP-019E	Total/NA	Water	SM 4500 H+ B	
680-70649-1 DU	11202-CBP-019E	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70649-1

Client Sample ID: 11202-CBP-019E
Date Collected: 07/21/11 17:22
Date Received: 07/22/11 10:00

Lab Sample ID: 680-70649-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			209798	07/23/11 10:18	SS	TAL SAV
Total/NA	Analysis	7470A		50	209915	07/24/11 15:54	CE	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	209755	07/22/11 15:53	JKL	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number 042057

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

○ TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

○ Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
LCP CHEMICALS		GA
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: EPS	CLIENT PHONE	CLIENT FAX
CLIENT NAME: Kirk Kessler	CLIENT E-MAIL	
CLIENT ADDRESS: 900 Ashwood PKwy Ste. 350. Atlanta, GA		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE | OF

STANDARD REPORT DELIVERY ○
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: NUMBER OF CONTAINERS SUBMITTED: Nitric Hg 7470A	REQUIRED ANALYSIS: NUMBER OF CONTAINERS SUBMITTED: pH SM4500 H+B	REMARKS
7-21-11	1722	11202-CBP-019E		✓				1	1	

PRESERVATIVE

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Allison Jones	7/21/11	1800						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Ruth A Daughtry	07/22/11	1000	YES ○ NO ○		680-70649	Temp 2.6°C

TAL 8240-680 (1008)

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07/25/2011

Login Sample Receipt Checklist

Client: Environmental Planning Specialists, Inc.

Job Number: 680-70649-1

Login Number: 70649

List Source: TestAmerica Savannah

List Number: 1

Creator: Daughtry, Beth

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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	Metals needs the pH adjusted
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.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70649-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kansas	NELAC	7	E-10322
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	Nevada	State Program	9	GA6
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Oklahoma	State Program	6	9984
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

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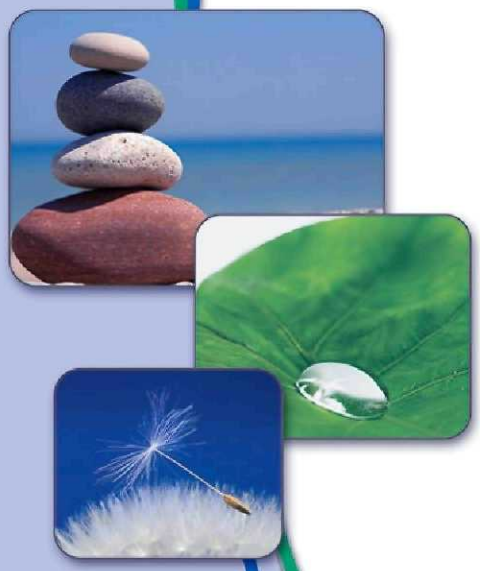
ANALYTICAL REPORT



TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-70751-1
Client Project/Site: Honeywell - Brunswick Site

For:
Environmental Planning Specialists, Inc.
900 Ashwood Parkway
Suite 350
Atlanta, Georgia 30338

Attn: Kirk Kessler

Linda A. Wolfe

Authorized for release by:
07/29/2011 03:51:13 PM

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com

LINKS

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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.

Table of Contents

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Table of Contents 2
Sample Summary 3
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Sample Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70751-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-70751-1	11207-CBP-020I	Water	07/26/11 15:30	07/27/11 09:20

Method Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70751-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 4500 H+ B	pH	SM	TAL SAV

Protocol References:

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Client: Environmental Planning Specialists, Inc. TestAmerica Job ID: 680-70751-1
Project/Site: Honeywell - Brunswick Site

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70751-1

Client Sample ID: 11207-CBP-020I
Date Collected: 07/26/11 15:30
Date Received: 07/27/11 09:20

Lab Sample ID: 680-70751-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	129		10.0	4.6	ug/L		07/28/11 15:05	07/29/11 14:07	50

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	10.9	HF			SU			07/27/11 13:17	1

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70751-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-210339/1-A
Matrix: Water
Analysis Batch: 210475

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 210339

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		07/28/11 15:05	07/29/11 11:21	1

Lab Sample ID: LCS 680-210339/2-A
Matrix: Water
Analysis Batch: 210475

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 210339

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	2.47		ug/L		99	80 - 120

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 680-210216/1
Matrix: Water
Analysis Batch: 210216

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
pH	7.00	7.010		SU		100	63 - 158

Lab Sample ID: 680-70743-B-1 DU
Matrix: Water
Analysis Batch: 210216

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.39		8.410		SU		0.2	40

QC Association Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70751-1

Metals

Prep Batch: 210339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-210339/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-210339/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-70751-1	11207-CBP-020I	Total/NA	Water	7470A	

Analysis Batch: 210475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-210339/1-A	Method Blank	Total/NA	Water	7470A	210339
LCS 680-210339/2-A	Lab Control Sample	Total/NA	Water	7470A	210339
680-70751-1	11207-CBP-020I	Total/NA	Water	7470A	210339

General Chemistry

Analysis Batch: 210216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-210216/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
680-70743-B-1 DU	Duplicate	Total/NA	Water	SM 4500 H+ B	
680-70751-1	11207-CBP-020I	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70751-1

Client Sample ID: 11207-CBP-020I
Date Collected: 07/26/11 15:30
Date Received: 07/27/11 09:20

Lab Sample ID: 680-70751-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			210339	07/28/11 15:05	BR	TAL SAV
Total/NA	Analysis	7470A		50	210475	07/29/11 14:07	CE	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	210216	07/27/11 13:17	JKL	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number 041573

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

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TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
LCP CHEMICALS		GA
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: EPS	CLIENT PHONE	CLIENT FAX
CLIENT NAME: Kirk Kessler	CLIENT E-MAIL	
CLIENT ADDRESS: 900 Ashwood Pkwy Ste. 350 Atlanta, GA		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ○
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: Nitric Hg 7470A	REQUIRED ANALYSIS: pH SM4500 H+B	REMARKS
7/26/11	1530	11207-CBP-020I		✓				1	1	

PRESERVATIVE

RELINQUISHED BY: (SIGNATURE) R Gregory — DATE 7/26/11 — TIME 1800
RELINQUISHED BY: (SIGNATURE) — DATE — TIME
RELINQUISHED BY: (SIGNATURE) — DATE — TIME

RECEIVED BY: (SIGNATURE) — DATE — TIME
RECEIVED BY: (SIGNATURE) — DATE — TIME
RECEIVED BY: (SIGNATURE) — DATE — TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Beth A Daughtry	07/27/11	0920	YES ○ NO ○		680-70751	Temp 4.6°C

TAL 8240-680 (1008)

Page 10 of 12

07/29/2011

Login Sample Receipt Checklist

Client: Environmental Planning Specialists, Inc.

Job Number: 680-70751-1

Login Number: 70751

List Source: TestAmerica Savannah

List Number: 1

Creator: Daughtry, Beth

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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	-1A nitric >2
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.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70751-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kansas	NELAC	7	E-10322
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	Nevada	State Program	9	GA6
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Oklahoma	State Program	6	9984
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

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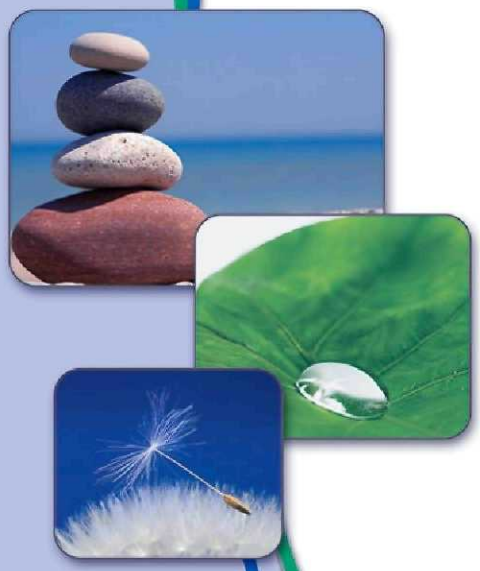
ANALYTICAL REPORT



TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-70901-1
Client Project/Site: Honeywell - Brunswick Site

For:
Environmental Planning Specialists, Inc.
900 Ashwood Parkway
Suite 350
Atlanta, Georgia 30338

Attn: Kirk Kessler

Linda A. Wolfe

Authorized for release by:
08/02/2011 05:05:08 PM

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com

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Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all 2003 NELAC requirements for accredited parameters, exceptions are noted in this report. Pursuant to NELAC, 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.

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Sample Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70901-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-70901-1	11210-CBP-021E	Water	07/29/11 11:00	07/30/11 10:21

Method Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70901-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 4500 H+ B	pH	SM	TAL SAV

Protocol References:

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70901-1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70901-1

Client Sample ID: 11210-CBP-021E
Date Collected: 07/29/11 11:00
Date Received: 07/30/11 10:21

Lab Sample ID: 680-70901-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	119		10.0	4.6	ug/L		08/02/11 09:42	08/02/11 15:29	50

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	10.9	HF			SU			07/30/11 13:01	1

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70901-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-210700/1-A
Matrix: Water
Analysis Batch: 210774

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 210700

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		08/02/11 09:42	08/02/11 15:23	1

Lab Sample ID: LCS 680-210700/2-A
Matrix: Water
Analysis Batch: 210774

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 210700

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	2.57		ug/L		103	80 - 120

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 680-210613/1
Matrix: Water
Analysis Batch: 210613

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
pH	7.00	7.030		SU		100	63 - 158

Lab Sample ID: 680-70904-M-1 DU
Matrix: Water
Analysis Batch: 210613

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.72		7.700		SU		0.3	40

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70901-1

Metals

Prep Batch: 210700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-210700/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-210700/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-70901-1	11210-CBP-021E	Total/NA	Water	7470A	

Analysis Batch: 210774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-210700/1-A	Method Blank	Total/NA	Water	7470A	210700
680-70901-1	11210-CBP-021E	Total/NA	Water	7470A	210700
LCS 680-210700/2-A	Lab Control Sample	Total/NA	Water	7470A	210700

General Chemistry

Analysis Batch: 210613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-210613/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
680-70901-1	11210-CBP-021E	Total/NA	Water	SM 4500 H+ B	
680-70904-M-1 DU	Duplicate	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70901-1

Client Sample ID: 11210-CBP-021E
Date Collected: 07/29/11 11:00
Date Received: 07/30/11 10:21

Lab Sample ID: 680-70901-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			210700	08/02/11 09:42	BCB	TAL SAV
Total/NA	Analysis	7470A		50	210774	08/02/11 15:29	CE	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	210613	07/30/11 13:01	JKL	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number 042059

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
LCP CHEMICALS		GA
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
EPS		
CLIENT NAME	CLIENT E-MAIL	
KIRK KESSLER		
CLIENT ADDRESS		
900 ASHWOOD PKWY STE 350 ATLANTA, GA		
COMPANY CONTRACTING THIS WORK (if applicable)		

MATRIX TYPE (COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...))

REQUIRED ANALYSIS: Hg 7470 A; pH SW 9040 HPB

PRESERVATIVE

PAGE 1 OF 1

STANDARD REPORT DELIVERY ○
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED		REMARKS
7-29-11	1100	11210-CBP-021 E		✓				1	1	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
R Gregory	7-29-11	1300						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Ruth A Daughty	07/30/11	1021	YES ○ NO ○		680-70901	Temp 4.4°C

TAL 8240-680 (1008)

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08/02/2011

Login Sample Receipt Checklist

Client: Environmental Planning Specialists, Inc.

Job Number: 680-70901-1

Login Number: 70901

List Source: TestAmerica Savannah

List Number: 1

Creator: Daughtry, Beth

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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	-1: Metals container needs pH adjusted
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.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

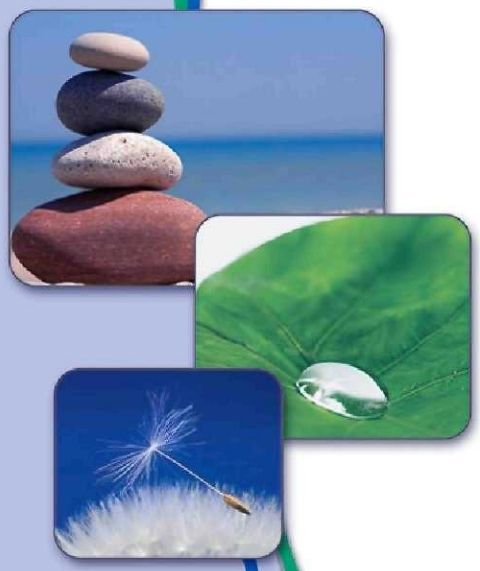
TestAmerica Job ID: 680-70901-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kansas	NELAC	7	E-10322
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	Nevada	State Program	9	GA6
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Oklahoma	State Program	6	9984
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-70988-1
Client Project/Site: Honeywell - Brunswick Site

For:
Environmental Planning Specialists, Inc.
900 Ashwood Parkway
Suite 350
Atlanta, Georgia 30338

Attn: Kirk Kessler

Authorized for release by:
08/05/2011 06:40:39 PM
Bernard Kirkland
Project Manager I
bernard.kirkland@testamericainc.com

Designee for

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com

LINKS

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Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all 2003 NELAC requirements for accredited parameters, exceptions are noted in this report. Pursuant to NELAC, 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.

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Job ID: 680-70988-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Environmental Planning Specialists, Inc.

Project: Honeywell - Brunswick Site

Report Number: 680-70988-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 08/03/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.6 C.

TOTAL MERCURY

Sample 11214-CBP-022I (680-70988-1) was analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 08/05/2011.

Sample 11214-CBP-022I (680-70988-1)[50X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The batch MS/MSD recovered outside of control limits.

Refer to QC section of the report.

All quality control parameters were within the acceptance limits.

CORROSIVITY (PH)

Sample 11214-CBP-022I (680-70988-1) was analyzed for corrosivity (pH) in accordance with SM 4500 H+ B. The samples were analyzed on 08/04/2011.

This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. This sample(s) was performed in the laboratory outside the 15 minute timeframe.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70988-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-70988-1	11214-CBP-022I	Water	08/02/11 17:00	08/03/11 09:25

Method Summary

Client: Environmental Planning Specialists, Inc. TestAmerica Job ID: 680-70988-1
Project/Site: Honeywell - Brunswick Site

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 4500 H+ B	pH	SM	TAL SAV

Protocol References:

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

Metals

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
U	Indicates the analyte was analyzed for but not detected.

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.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70988-1

Client Sample ID: 11214-CBP-022I
Date Collected: 08/02/11 17:00
Date Received: 08/03/11 09:25

Lab Sample ID: 680-70988-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	140		10.0	4.6	ug/L		08/05/11 12:09	08/05/11 17:27	50

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	10.9	HF			SU			08/04/11 10:15	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-211087/1-A
Matrix: Water
Analysis Batch: 211050

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 211087

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		08/05/11 12:06	08/05/11 17:21	1

Lab Sample ID: LCS 680-211087/2-A
Matrix: Water
Analysis Batch: 211050

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 211087

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	2.25		ug/L		90	80 - 120

Lab Sample ID: 680-70897-C-3-C MS
Matrix: Water
Analysis Batch: 211050

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 211087

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.20	U	1.00	0.775	F	ug/L		78	80 - 120

Lab Sample ID: 680-70897-C-3-D MSD
Matrix: Water
Analysis Batch: 211050

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 211087

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	0.786	F	ug/L		79	80 - 120	1	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 680-211021/1
Matrix: Water
Analysis Batch: 211021

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
pH	7.00	6.990		SU		100	63 - 158

Lab Sample ID: 680-70983-A-1 DU
Matrix: Water
Analysis Batch: 211021

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.89		8.230		SU		8	40

QC Association Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70988-1

Metals

Analysis Batch: 211050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-211087/1-A	Method Blank	Total/NA	Water	7470A	211087
LCS 680-211087/2-A	Lab Control Sample	Total/NA	Water	7470A	211087
680-70988-1	11214-CBP-022I	Total/NA	Water	7470A	211087
680-70897-C-3-C MS	Matrix Spike	Total/NA	Water	7470A	211087
680-70897-C-3-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	211087

Prep Batch: 211087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-211087/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-211087/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-70897-C-3-C MS	Matrix Spike	Total/NA	Water	7470A	
680-70897-C-3-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	
680-70988-1	11214-CBP-022I	Total/NA	Water	7470A	

General Chemistry

Analysis Batch: 211021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-211021/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
680-70983-A-1 DU	Duplicate	Total/NA	Water	SM 4500 H+ B	
680-70988-1	11214-CBP-022I	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70988-1

Client Sample ID: 11214-CBP-022I
Date Collected: 08/02/11 17:00
Date Received: 08/03/11 09:25

Lab Sample ID: 680-70988-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			211087	08/05/11 12:09	RAM	TAL SAV
Total/NA	Analysis	7470A		50	211050	08/05/11 17:27	CE	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	211021	08/04/11 10:15	JKL	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number 041795

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
LCP CHEMICALS		GA
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: EPS	CLIENT PHONE	CLIENT FAX
CLIENT NAME: Kirk Kessler	CLIENT E-MAIL	
CLIENT ADDRESS: 900 Ashwood Pkwy Ste. 350 Atlanta, GA		
COMPANY CONTRACTING THIS WORK (If applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ◯
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ◯
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: Nitric Hg 7470A	REQUIRED ANALYSIS: pH SM4500 H+B	REMARKS
								1 PRESERVATIVE		
8-2-11	1700	11214-CBP-022I		✓				1	1	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	8-2-11	1800						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Eddie Barnett	08/03/11	0925	YES ◯ NO ◯		70988	0.6 °C

TAL 8240-680 (1008)

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08/05/2011

Login Sample Receipt Checklist

Client: Environmental Planning Specialists, Inc. Job Number: 680-70988-1

Login Number: 70988 **List Source: TestAmerica Savannah**
List Number: 1
Creator: Barnett, Eddie T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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?	N/A	
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	Metals container had a ph >2
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.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70988-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kansas	NELAC	7	E-10322
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	Nevada	State Program	9	GA6
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Oklahoma	State Program	6	9984
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

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TestAmerica

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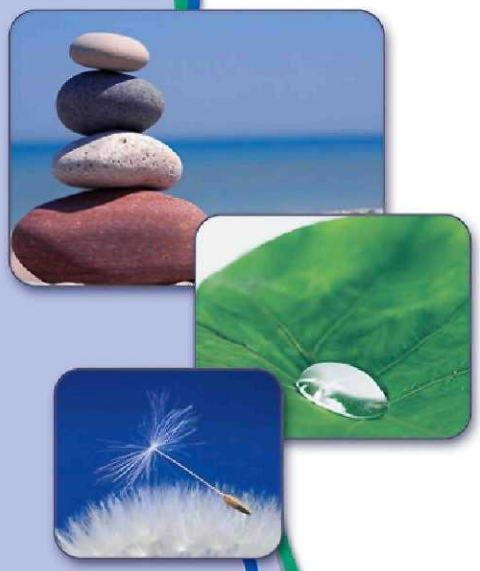
ANALYTICAL REPORT



TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-71042-1
Client Project/Site: Honeywell - Brunswick Site

For:
Environmental Planning Specialists, Inc.
900 Ashwood Parkway
Suite 350
Atlanta, Georgia 30338

Attn: Kirk Kessler

Linda A. Wolfe

Authorized for release by:
08/08/2011 09:40:25 AM

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com

LINKS

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Sample Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71042-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-71042-1	11215-CBP-023I	Water	08/03/11 16:00	08/04/11 09:37

Method Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71042-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 4500 H+ B	pH	SM	TAL SAV

Protocol References:

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

Metals

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
U	Indicates the analyte was analyzed for but not detected.

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.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71042-1

Client Sample ID: 11215-CBP-023I
Date Collected: 08/03/11 16:00
Date Received: 08/04/11 09:37

Lab Sample ID: 680-71042-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	149		10.0	4.6	ug/L		08/05/11 12:09	08/05/11 17:31	50

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	10.8	HF			SU			08/04/11 14:23	1

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71042-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-211087/1-A
Matrix: Water
Analysis Batch: 211050

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 211087

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		08/05/11 12:06	08/05/11 17:21	1

Lab Sample ID: LCS 680-211087/2-A
Matrix: Water
Analysis Batch: 211050

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 211087

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	2.25		ug/L		90	80 - 120

Lab Sample ID: 680-70897-C-3-C MS
Matrix: Water
Analysis Batch: 211050

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 211087

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.20	U	1.00	0.775	F	ug/L		78	80 - 120

Lab Sample ID: 680-70897-C-3-D MSD
Matrix: Water
Analysis Batch: 211050

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 211087

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	0.786	F	ug/L		79	80 - 120	1	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 680-211021/1
Matrix: Water
Analysis Batch: 211021

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
pH	7.00	6.990		SU		100	63 - 158

Lab Sample ID: 680-71045-A-1 DU
Matrix: Water
Analysis Batch: 211021

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.36		7.350		SU		0.1	40

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71042-1

Metals

Analysis Batch: 211050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-211087/1-A	Method Blank	Total/NA	Water	7470A	211087
LCS 680-211087/2-A	Lab Control Sample	Total/NA	Water	7470A	211087
680-71042-1	11215-CBP-023I	Total/NA	Water	7470A	211087
680-70897-C-3-C MS	Matrix Spike	Total/NA	Water	7470A	211087
680-70897-C-3-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	211087

Prep Batch: 211087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-211087/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-211087/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-70897-C-3-C MS	Matrix Spike	Total/NA	Water	7470A	
680-70897-C-3-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	
680-71042-1	11215-CBP-023I	Total/NA	Water	7470A	

General Chemistry

Analysis Batch: 211021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-211021/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
680-71045-A-1 DU	Duplicate	Total/NA	Water	SM 4500 H+ B	
680-71042-1	11215-CBP-023I	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71042-1

Client Sample ID: 11215-CBP-023I
Date Collected: 08/03/11 16:00
Date Received: 08/04/11 09:37

Lab Sample ID: 680-71042-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			211087	08/05/11 12:09	RAM	TAL SAV
Total/NA	Analysis	7470A		50	211050	08/05/11 17:31	CE	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	211021	08/04/11 14:23	JKL	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number 041796

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
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○ TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

○ Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
LCP CHEMICALS		GA
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: EPS	CLIENT PHONE	CLIENT FAX
CLIENT NAME: Kirk Kessler	CLIENT E-MAIL	
CLIENT ADDRESS: 900 Ashwood Pkwy Ste. 350 Atlanta, GA		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ○
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: Nitric Hg 7470A	REQUIRED ANALYSIS: 1 pH SM 4500 H+B	REMARKS
8/3/11	1600	11215-CBP-023I		✓				1	1	

PRESERVATIVE

NUMBER OF CONTAINERS SUBMITTED

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
R Gregory	8/3/11	1730						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Ruth D Daughtry	08/04/11	0937	YES ○ NO ○		680-71042	Temp 0.6°C

TAL 8240-680 (1008)

08/08/2011

Login Sample Receipt Checklist

Client: Environmental Planning Specialists, Inc.

Job Number: 680-71042-1

Login Number: 71042

List Source: TestAmerica Savannah

List Number: 1

Creator: Daughtry, Beth

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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	Metals container needs the pH adjusted
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.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71042-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
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TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

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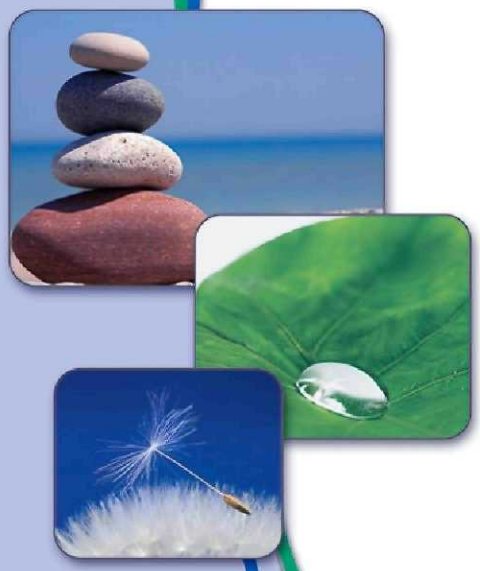
ANALYTICAL REPORT



TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-71176-1
Client Project/Site: Honeywell - Brunswick Site

For:
Environmental Planning Specialists, Inc.
900 Ashwood Parkway
Suite 350
Atlanta, Georgia 30338

Attn: Kirk Kessler

Linda A. Wolfe

Authorized for release by:
08/10/2011 06:08:43 PM

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com

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Sample Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71176-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-71176-1	11220-CBP-024E	Water	08/08/11 16:50	08/09/11 09:42

Method Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71176-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 4500 H+ B	pH	SM	TAL SAV

Protocol References:

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71176-1

Client Sample ID: 11220-CBP-024E
Date Collected: 08/08/11 16:50
Date Received: 08/09/11 09:42

Lab Sample ID: 680-71176-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	127		10.0	4.6	ug/L		08/09/11 10:27	08/10/11 17:49	50

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	10.6	HF			SU			08/09/11 17:00	1

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71176-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-211340/1-A
Matrix: Water
Analysis Batch: 211519

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 211340

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		08/09/11 10:27	08/10/11 17:32	1

Lab Sample ID: LCS 680-211340/2-A
Matrix: Water
Analysis Batch: 211519

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 211340

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	2.65		ug/L		106	80 - 120

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 680-211402/1
Matrix: Water
Analysis Batch: 211402

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
pH	7.00	7.020		SU		100	63 - 158

Lab Sample ID: 680-71176-1 DU
Matrix: Water
Analysis Batch: 211402

Client Sample ID: 11220-CBP-024E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	10.6	HF	10.66		SU		0.3	40

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71176-1

Metals

Prep Batch: 211340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-211340/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-211340/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-71176-1	11220-CBP-024E	Total/NA	Water	7470A	

Analysis Batch: 211519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-211340/1-A	Method Blank	Total/NA	Water	7470A	211340
LCS 680-211340/2-A	Lab Control Sample	Total/NA	Water	7470A	211340
680-71176-1	11220-CBP-024E	Total/NA	Water	7470A	211340

General Chemistry

Analysis Batch: 211402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-211402/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
680-71176-1	11220-CBP-024E	Total/NA	Water	SM 4500 H+ B	
680-71176-1 DU	11220-CBP-024E	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71176-1

Client Sample ID: 11220-CBP-024E
Date Collected: 08/08/11 16:50
Date Received: 08/09/11 09:42

Lab Sample ID: 680-71176-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			211340	08/09/11 10:27	RAM	TAL SAV
Total/NA	Analysis	7470A		50	211519	08/10/11 17:49	BR	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	211402	08/09/11 17:00	JKL	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number 042062

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	MATRIX TYPE	REQUIRED ANALYSIS	PAGE / OF
LCP CHEMICALS		GA			1 / 1
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.			STANDARD REPORT DELIVERY ○
CLIENT (SITE) PM: EPS	CLIENT PHONE	CLIENT FAX			DATE DUE
CLIENT NAME: Kirk Kessler	CLIENT E-MAIL				EXPEDITED REPORT DELIVERY (SURCHARGE) ○
CLIENT ADDRESS: 900 Ashwood Pkwy Ste. 350 Atlanta, GA					DATE DUE
COMPANY CONTRACTING THIS WORK (if applicable)					NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	Nitric Hg and TOC	pH Sensitive Mtls	NUMBER OF CONTAINERS SUBMITTED	REMARKS
8/8/11	1650	11220-CBP-024-E		✓				1	1		

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	8/8/11	1800						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Ruth A Daughtry	08/09/11	0942	YES ○ NO ○		680 71176	Temp 4.1°C

TAL-8210-680 (1008)

Login Sample Receipt Checklist

Client: Environmental Planning Specialists, Inc.

Job Number: 680-71176-1

Login Number: 71176

List Source: TestAmerica Savannah

List Number: 1

Creator: Daughtry, Beth

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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.	False	
COC is filled out in ink and legible.	N/A	COC not present
COC is filled out with all pertinent information.	N/A	COC not present
Is the Field Sampler's name present on COC?	N/A	COC Not present
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	Metals container needs pH adjusted
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.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71176-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kansas	NELAC	7	E-10322
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	Nevada	State Program	9	GA6
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Oklahoma	State Program	6	9984
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

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

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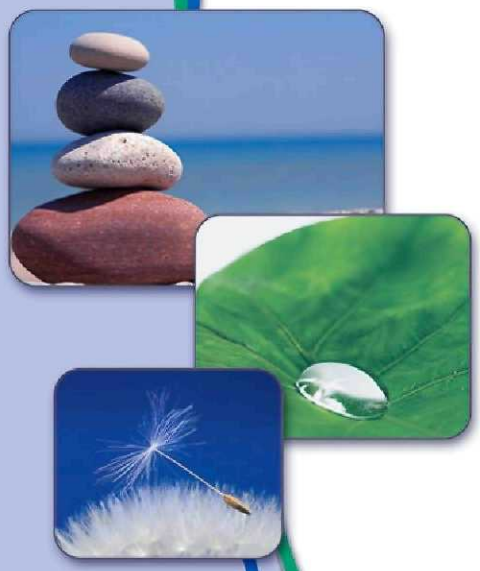
ANALYTICAL REPORT



TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-71263-1
Client Project/Site: Honeywell - Brunswick Site

For:
Environmental Planning Specialists, Inc.
900 Ashwood Parkway
Suite 350
Atlanta, Georgia 30338

Attn: Kirk Kessler

Linda A. Wolfe

Authorized for release by:
08/11/2011 04:46:22 PM

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com

LINKS

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

Table of Contents

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Sample Summary 3
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QC Sample Results 7
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Sample Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71263-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-71263-1	11222-CBP-025I	Water	08/10/11 15:50	08/11/11 09:10

Method Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71263-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 4500 H+ B	pH	SM	TAL SAV

Protocol References:

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71263-1

Client Sample ID: 11222-CBP-025I
Date Collected: 08/10/11 15:50
Date Received: 08/11/11 09:10

Lab Sample ID: 680-71263-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	133		10.0	4.6	ug/L		08/11/11 10:41	08/11/11 14:56	50

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	10.9	HF			SU			08/11/11 14:09	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-211573/1-A
Matrix: Water
Analysis Batch: 211644

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 211573

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		08/11/11 10:35	08/11/11 14:39	1

Lab Sample ID: LCS 680-211573/2-A
Matrix: Water
Analysis Batch: 211644

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 211573

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	2.55		ug/L		102	80 - 120

Lab Sample ID: 680-71094-C-16-B MS
Matrix: Water
Analysis Batch: 211644

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 211573

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.20	U	1.00	1.08		ug/L		108	80 - 120

Lab Sample ID: 680-71094-C-16-C MSD
Matrix: Water
Analysis Batch: 211644

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 211573

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	1.07		ug/L		107	80 - 120	2	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 680-211632/1
Matrix: Water
Analysis Batch: 211632

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
pH	7.00	7.010		SU		100	63 - 158

Lab Sample ID: 680-71265-B-1 DU
Matrix: Water
Analysis Batch: 211632

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	6.41		6.420		SU		0.2	40

QC Association Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71263-1

Metals

Prep Batch: 211573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-211573/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-211573/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-71094-C-16-B MS	Matrix Spike	Total/NA	Water	7470A	
680-71094-C-16-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	
680-71263-1	11222-CBP-025I	Total/NA	Water	7470A	

Analysis Batch: 211644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-211573/1-A	Method Blank	Total/NA	Water	7470A	211573
LCS 680-211573/2-A	Lab Control Sample	Total/NA	Water	7470A	211573
680-71094-C-16-B MS	Matrix Spike	Total/NA	Water	7470A	211573
680-71094-C-16-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	211573
680-71263-1	11222-CBP-025I	Total/NA	Water	7470A	211573

General Chemistry

Analysis Batch: 211632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-211632/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
680-71265-B-1 DU	Duplicate	Total/NA	Water	SM 4500 H+ B	
680-71263-1	11222-CBP-025I	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71263-1

Client Sample ID: 11222-CBP-025I
Date Collected: 08/10/11 15:50
Date Received: 08/11/11 09:10

Lab Sample ID: 680-71263-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			211573	08/11/11 10:41	RAM	TAL SAV
Total/NA	Analysis	7470A		50	211644	08/11/11 14:56	RAM	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	211632	08/11/11 14:09	JKL	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number 040976

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

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○ TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

○ Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
LCP CHEMICALS		GA
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: EPS	CLIENT PHONE	CLIENT FAX
CLIENT NAME: Kirk Kessler	CLIENT E-MAIL	
CLIENT ADDRESS: 900 Ashwood Pkwy Ste. 350 Atlanta, GA		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE: | OF:

STANDARD REPORT DELIVERY ○
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: Nitric Hg 7470A	pH SM4500 H+B	NUMBER OF CONTAINERS SUBMITTED	REMARKS
8/10/11	1550	11222-CBP-025I		✓				1	1		

PRESERVATIVE

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
L Gregory	8/10/11	1730						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Ruth A. Daughtry	08/11/11	0910	YES ○ NO ○		680-71263	Temp 3.2°C

TA1 8240-680 (1008)

Login Sample Receipt Checklist

Client: Environmental Planning Specialists, Inc.

Job Number: 680-71263-1

Login Number: 71263

List Source: TestAmerica Savannah

List Number: 1

Creator: Daughtry, Beth

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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	Metals container needs the pH adjusted
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.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71263-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kansas	NELAC	7	E-10322
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	Nevada	State Program	9	GA6
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Oklahoma	State Program	6	9984
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

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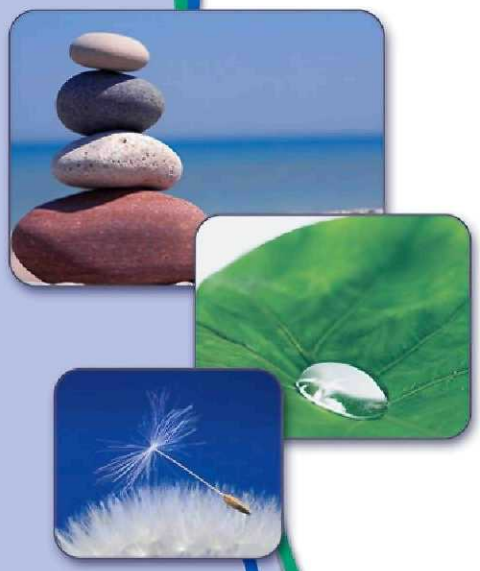
ANALYTICAL REPORT



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Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-71400-1

Client Project/Site: Honeywell - Brunswick Site

For:

Environmental Planning Specialists, Inc.
900 Ashwood Parkway
Suite 350
Atlanta, Georgia 30338

Attn: Kirk Kessler

Linda A. Wolfe

Authorized for release by:
08/16/2011 04:27:33 PM

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com

LINKS

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

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Sample Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71400-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-71400-1	11227-CBP-026E	Water	08/15/11 15:00	08/16/11 08:36

Method Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71400-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 4500 H+ B	pH	SM	TAL SAV

Protocol References:

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

Metals

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
U	Indicates the analyte was analyzed for but not detected.

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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit (Dioxin)
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or method detection limit if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71400-1

Client Sample ID: 11227-CBP-026E
Date Collected: 08/15/11 15:00
Date Received: 08/16/11 08:36

Lab Sample ID: 680-71400-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	134		10.0	4.6	ug/L		08/16/11 09:41	08/16/11 15:54	50

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	10.8	HF			SU			08/16/11 09:55	1

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71400-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-211964/1-A
Matrix: Water
Analysis Batch: 212037

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 211964

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		08/16/11 09:41	08/16/11 15:48	1

Lab Sample ID: LCS 680-211964/2-A
Matrix: Water
Analysis Batch: 212037

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 211964

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	2.57		ug/L		103	80 - 120

Lab Sample ID: 680-71296-C-1-E MS
Matrix: Water
Analysis Batch: 212037

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 211964

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.20	U	1.00	1.23	F	ug/L		123	80 - 120

Lab Sample ID: 680-71296-C-1-F MSD
Matrix: Water
Analysis Batch: 212037

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 211964

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	1.09		ug/L		109	80 - 120	12	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 680-211978/5
Matrix: Water
Analysis Batch: 211978

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
pH	7.00	7.020		SU		100	63 - 158

Lab Sample ID: 680-71400-1 DU
Matrix: Water
Analysis Batch: 211978

Client Sample ID: 11227-CBP-026E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	10.8	HF	10.82		SU		0	40

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71400-1

Metals

Prep Batch: 211964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-211964/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-211964/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-71400-1	11227-CBP-026E	Total/NA	Water	7470A	
680-71296-C-1-E MS	Matrix Spike	Total/NA	Water	7470A	
680-71296-C-1-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 212037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-211964/1-A	Method Blank	Total/NA	Water	7470A	211964
LCS 680-211964/2-A	Lab Control Sample	Total/NA	Water	7470A	211964
680-71400-1	11227-CBP-026E	Total/NA	Water	7470A	211964
680-71296-C-1-E MS	Matrix Spike	Total/NA	Water	7470A	211964
680-71296-C-1-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	211964

General Chemistry

Analysis Batch: 211978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-211978/5	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
680-71400-1	11227-CBP-026E	Total/NA	Water	SM 4500 H+ B	
680-71400-1 DU	11227-CBP-026E	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71400-1

Client Sample ID: 11227-CBP-026E
Date Collected: 08/15/11 15:00
Date Received: 08/16/11 08:36

Lab Sample ID: 680-71400-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			211964	08/16/11 09:41	BR	TAL SAV
Total/NA	Analysis	7470A		50	212037	08/16/11 15:54	CE	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	211978	08/16/11 09:55	MSJ	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

○ TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

○ Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
LCP CHEMICALS		
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: EPS	CLIENT PHONE	CLIENT FAX
CLIENT NAME: Kirk Kessler	CLIENT E-MAIL	
CLIENT ADDRESS: 900 Ashwood Pkwy Ste. 350 Atlanta, GA		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ○

DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE) ● 24 hr.

DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: Nitric Hg 7470A / PRESERVATIVE	REQUIRED ANALYSIS: pH SM4500 H+B	NUMBER OF CONTAINERS SUBMITTED	REMARKS
8/15/11	1500	11227-CBP-026E		✓				1	1		

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
R Gregory	8/15/11	1730						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Frances Swafford	08/16/11	09:36	YES ○ NO ○		680-71400	3.6°C

TAL 8210-680 (1008)

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08/16/2011

Login Sample Receipt Checklist

Client: Environmental Planning Specialists, Inc.

Job Number: 680-71400-1

Login Number: 71400

List Source: TestAmerica Savannah

List Number: 1

Creator: Swafford, Frances

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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?	N/A	
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	-1A nitric >2
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.	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71400-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kansas	NELAC	7	E-10322
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	Nevada	State Program	9	GA6
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Oklahoma	State Program	6	9984
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

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

TestAmerica

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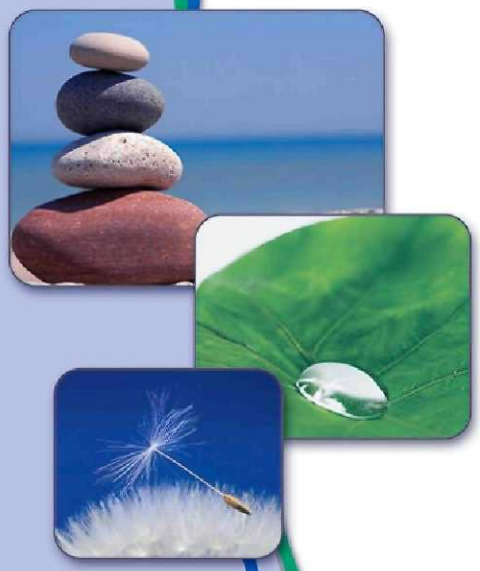
ANALYTICAL REPORT



TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-71437-1
Client Project/Site: Honeywell - Brunswick Site

For:
Environmental Planning Specialists, Inc.
900 Ashwood Parkway
Suite 350
Atlanta, Georgia 30338

Attn: Kirk Kessler

Linda A. Wolfe

Authorized for release by:
08/17/2011 04:56:40 PM

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com

LINKS

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Sample Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71437-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-71437-1	11228-CBP-027I	Water	08/16/11 15:15	08/17/11 08:20

Method Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71437-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 4500 H+ B	pH	SM	TAL SAV

Protocol References:

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Client: Environmental Planning Specialists, Inc. TestAmerica Job ID: 680-71437-1
Project/Site: Honeywell - Brunswick Site

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit (Dioxin)
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or method detection limit if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71437-1

Client Sample ID: 11228-CBP-027I
Date Collected: 08/16/11 15:15
Date Received: 08/17/11 08:20

Lab Sample ID: 680-71437-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	120		10.0	4.6	ug/L		08/17/11 10:58	08/17/11 15:20	50

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	11.0	HF			SU			08/17/11 10:30	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-212112/1-A
Matrix: Water
Analysis Batch: 212037

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 212112

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		08/17/11 10:58	08/17/11 15:13	1

Lab Sample ID: LCS 680-212112/2-A
Matrix: Water
Analysis Batch: 212037

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 212112

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	2.21		ug/L		88	80 - 120

Lab Sample ID: 680-71223-C-10-B MS
Matrix: Water
Analysis Batch: 212037

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 212112

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.20	U	1.00	0.841		ug/L		84	80 - 120

Lab Sample ID: 680-71223-C-10-C MSD
Matrix: Water
Analysis Batch: 212037

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 212112

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	0.886		ug/L		89	80 - 120	5	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 680-212123/10
Matrix: Water
Analysis Batch: 212123

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
pH	7.00	7.010		SU		100	63 - 158

Lab Sample ID: 680-71437-1 DU
Matrix: Water
Analysis Batch: 212123

Client Sample ID: 11228-CBP-027I
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	11.0	HF	10.96		SU		0.09	40

Metals

Analysis Batch: 212037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-212112/1-A	Method Blank	Total/NA	Water	7470A	212112
LCS 680-212112/2-A	Lab Control Sample	Total/NA	Water	7470A	212112
680-71437-1	11228-CBP-027I	Total/NA	Water	7470A	212112
680-71223-C-10-B MS	Matrix Spike	Total/NA	Water	7470A	212112
680-71223-C-10-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	212112

Prep Batch: 212112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-212112/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-212112/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-71437-1	11228-CBP-027I	Total/NA	Water	7470A	
680-71223-C-10-B MS	Matrix Spike	Total/NA	Water	7470A	
680-71223-C-10-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

General Chemistry

Analysis Batch: 212123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-71437-1	11228-CBP-027I	Total/NA	Water	SM 4500 H+ B	
680-71437-1 DU	11228-CBP-027I	Total/NA	Water	SM 4500 H+ B	
LCS 680-212123/10	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71437-1

Client Sample ID: 11228-CBP-027I
Date Collected: 08/16/11 15:15
Date Received: 08/17/11 08:20

Lab Sample ID: 680-71437-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			212112	08/17/11 10:58	JKL	TAL SAV
Total/NA	Analysis	7470A		50	212037	08/17/11 15:20	CE	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	212123	08/17/11 10:30	MSJ	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number 041776

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

08/17/2011

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
LCP CHEMICALS		GA
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: EPS	CLIENT PHONE	CLIENT FAX
CLIENT NAME: Kirk Kessler	CLIENT E-MAIL	
CLIENT ADDRESS: 900 Ashwood Pkwy Ste. 350 Atlanta, GA		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ○
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ● 24 hr.
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: Nitric Hg 7470A	REQUIRED ANALYSIS: pH SM4500 H+B	REQUIRED ANALYSIS: \PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
8/16/11	1515	11228-CBP-027I		✓				1	1			

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
C Gregory	8/16/11	1730						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Thanos Swafford	08/17/11	08:20	YES ○ NO ○		680-71437	1.8°C

TAL 8240-680 (1008)

Login Sample Receipt Checklist

Client: Environmental Planning Specialists, Inc.

Job Number: 680-71437-1

Login Number: 71437

List Source: TestAmerica Savannah

List Number: 1

Creator: Swafford, Frances

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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?	N/A	
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	-1A nitric >2
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.	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71437-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kansas	NELAC	7	E-10322
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	Nevada	State Program	9	GA6
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Oklahoma	State Program	6	9984
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

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

TestAmerica

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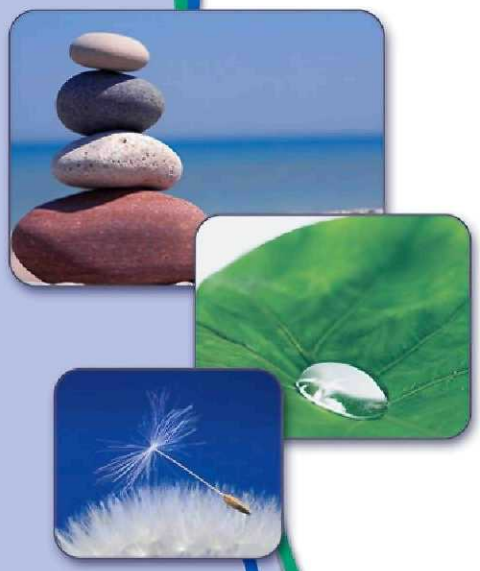

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-71530-1
Client Project/Site: Honeywell - Brunswick Site

For:
Environmental Planning Specialists, Inc.
900 Ashwood Parkway
Suite 350
Atlanta, Georgia 30338

Attn: Kirk Kessler

Authorized for release by:
08/19/2011 05:06:49 PM
Bernard Kirkland
Project Manager I
bernard.kirkland@testamericainc.com

Designee for

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com

LINKS

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

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Job ID: 680-71530-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Environmental Planning Specialists, Inc.

Project: Honeywell - Brunswick Site

Report Number: 680-71530-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 08/19/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.2 C.

TOTAL MERCURY

Sample 11230-CBP-28E (680-71530-1) was analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 08/19/2011.

During pH adjustment, the following sample(s) required 2 mL of acid to reach the desired pH: 11230-CBP-28E (680-71530-1).

Mercury failed the recovery criteria for the MS and MSD of sample 11230-CBP-28EMS (680-71530-1) in batch 680-212388.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

Sample 11230-CBP-28E (680-71530-1)[50X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the mercury analysis.

All other quality control parameters were within the acceptance limits.

CORROSIVITY (PH)

Sample 11230-CBP-28E (680-71530-1) was analyzed for corrosivity (pH) in accordance with SM 4500 H+ B. The samples were analyzed on 08/19/2011.

This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. This sample(s) was performed in the laboratory outside the 15 minute timeframe.

No difficulties were encountered during the pH analysis.

All quality control parameters were within the acceptance limits.

Job ID: 680-71530-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

Sample Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71530-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-71530-1	11230-CBP-28E	Water	08/18/11 16:00	08/19/11 08:08

Method Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71530-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 4500 H+ B	pH	SM	TAL SAV

Protocol References:

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
U	Indicates the analyte was analyzed for but not detected.

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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit (Dioxin)
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or method detection limit if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71530-1

Client Sample ID: 11230-CBP-28E
Date Collected: 08/18/11 16:00
Date Received: 08/19/11 08:08

Lab Sample ID: 680-71530-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	122		10.0	4.6	ug/L		08/19/11 08:42	08/19/11 14:26	50

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	10.9	HF			SU			08/19/11 10:24	1

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71530-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-212299/1-A
Matrix: Water
Analysis Batch: 212388

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 212299

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		08/19/11 08:42	08/19/11 14:20	1

Lab Sample ID: LCS 680-212299/2-A
Matrix: Water
Analysis Batch: 212388

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 212299

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	2.13		ug/L		85	80 - 120

Lab Sample ID: 680-71530-1 MS
Matrix: Water
Analysis Batch: 212388

Client Sample ID: 11230-CBP-28E
Prep Type: Total/NA
Prep Batch: 212299

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	122		1.00	123.2	4	ug/L		70	80 - 120

Lab Sample ID: 680-71530-1 MSD
Matrix: Water
Analysis Batch: 212388

Client Sample ID: 11230-CBP-28E
Prep Type: Total/NA
Prep Batch: 212299

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	122		1.00	126.5	4	ug/L		400	80 - 120	3	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 680-212319/7
Matrix: Water
Analysis Batch: 212319

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
pH	7.00	7.050		SU		101	63 - 158

Lab Sample ID: 680-71530-1 DU
Matrix: Water
Analysis Batch: 212319

Client Sample ID: 11230-CBP-28E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	10.9	HF	10.86		SU		0	40

QC Association Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71530-1

Metals

Prep Batch: 212299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-212299/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-212299/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-71530-1	11230-CBP-28E	Total/NA	Water	7470A	
680-71530-1 MS	11230-CBP-28E	Total/NA	Water	7470A	
680-71530-1 MSD	11230-CBP-28E	Total/NA	Water	7470A	

Analysis Batch: 212388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-212299/1-A	Method Blank	Total/NA	Water	7470A	212299
LCS 680-212299/2-A	Lab Control Sample	Total/NA	Water	7470A	212299
680-71530-1	11230-CBP-28E	Total/NA	Water	7470A	212299
680-71530-1 MS	11230-CBP-28E	Total/NA	Water	7470A	212299
680-71530-1 MSD	11230-CBP-28E	Total/NA	Water	7470A	212299

General Chemistry

Analysis Batch: 212319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-212319/7	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
680-71530-1	11230-CBP-28E	Total/NA	Water	SM 4500 H+ B	
680-71530-1 DU	11230-CBP-28E	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71530-1

Client Sample ID: 11230-CBP-28E
Date Collected: 08/18/11 16:00
Date Received: 08/19/11 08:08

Lab Sample ID: 680-71530-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			212299	08/19/11 08:42	JKL	TAL SAV
Total/NA	Analysis	7470A		50	212388	08/19/11 14:26	CE	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	212319	08/19/11 10:24	MSJ	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Savannah
5102 LaRoche Avenue
Suite 106
Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
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TestAmerica Laboratories, Inc.

08/19/2011

Client Contact	Project Manager:	Site Contact: Kirk Kessler	Date: 8/18/2011	COC No: 30927-11230
Environmental Planning Specialist	Tel/Fax:	Lab Contact: Linda Wolfe	Carrier:	1 of 1 COCs
900 Ashwood Parkway, Suite 350	Analysis Turnaround Time			Job No.
Atlanta, Georgia 30338	RUSH - 24 Hours			
404-315-9113 Phone	~~TAT if different from Below~~			SDG No.
FAX	~~2 weeks~~			
Project Name: Honeywell Brunswick Site	~~1 week~~			
Site: 30927	~~2 days~~			
PO # 4500027786	~~1 day~~			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Mercury (7470A)	pH (SW 4500 H+B)	Sample Specific Notes:
11230-CBP-028E	8/18/2011	16:00	Grab	Water	2	N	X	X	
							4		

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other

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

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

Special Instructions/QC Requirements & Comments:

TEMP 2.2°C

680 - 71530

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
R Gregory	CH2M HILL OMI	8/18/2011 - 17:30		Fed Ex	
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by: Frances Swafford	Company: TAS	Date/Time: 08/19/11 08:08

Login Sample Receipt Checklist

Client: Environmental Planning Specialists, Inc.

Job Number: 680-71530-1

Login Number: 71530

List Source: TestAmerica Savannah

List Number: 1

Creator: Swafford, Frances

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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?	N/A	
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	nitric container >2
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.	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71530-1

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TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
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TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
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TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	NELAC Secondary AB	3	460161
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

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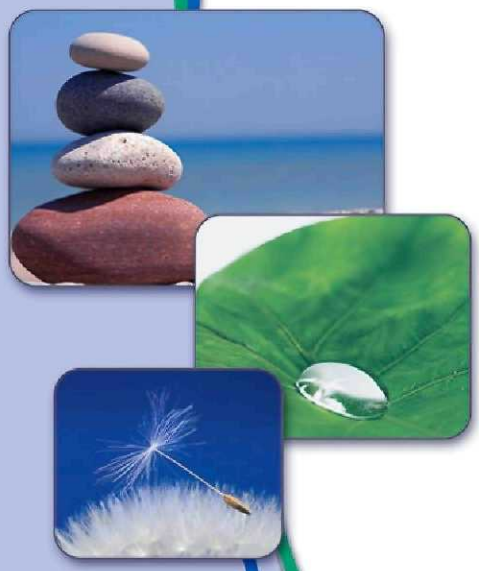
ANALYTICAL REPORT



TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-71624-1
Client Project/Site: Honeywell - Brunswick Site

For:
Environmental Planning Specialists, Inc.
900 Ashwood Parkway
Suite 350
Atlanta, Georgia 30338

Attn: Kirk Kessler

Linda A. Wolfe

Authorized for release by:
08/23/2011 03:22:31 PM

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com

LINKS

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Sample Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71624-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-71624-1	11234-CBP-029I	Water	08/22/11 15:00	08/23/11 07:57

Method Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71624-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 4500 H+ B	pH	SM	TAL SAV

Protocol References:

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71624-1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit (Dioxin)
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or method detection limit if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71624-1

Client Sample ID: 11234-CBP-029I
Date Collected: 08/22/11 15:00
Date Received: 08/23/11 07:57

Lab Sample ID: 680-71624-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	147		10.0	4.6	ug/L		08/23/11 09:23	08/23/11 14:22	50

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	11.1	HF			SU			08/23/11 09:44	1

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71624-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-212604/1-A
Matrix: Water
Analysis Batch: 212657

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 212604

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		08/23/11 09:23	08/23/11 14:16	1

Lab Sample ID: LCS 680-212604/2-A
Matrix: Water
Analysis Batch: 212657

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 212604

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	2.55		ug/L		102	80 - 120

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 680-212631/1
Matrix: Water
Analysis Batch: 212631

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
pH	7.00	7.060		SU		101	63 - 158

Lab Sample ID: 680-71624-1 DU
Matrix: Water
Analysis Batch: 212631

Client Sample ID: 11234-CBP-029I
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	11.1	HF	11.07		SU		0.2	40

QC Association Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71624-1

Metals

Prep Batch: 212604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-212604/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-212604/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-71624-1	11234-CBP-029I	Total/NA	Water	7470A	

Analysis Batch: 212657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-212604/1-A	Method Blank	Total/NA	Water	7470A	212604
LCS 680-212604/2-A	Lab Control Sample	Total/NA	Water	7470A	212604
680-71624-1	11234-CBP-029I	Total/NA	Water	7470A	212604

General Chemistry

Analysis Batch: 212631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-212631/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
680-71624-1	11234-CBP-029I	Total/NA	Water	SM 4500 H+ B	
680-71624-1 DU	11234-CBP-029I	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71624-1

Client Sample ID: 11234-CBP-029I
Date Collected: 08/22/11 15:00
Date Received: 08/23/11 07:57

Lab Sample ID: 680-71624-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			212604	08/23/11 09:23	JKL	TAL SAV
Total/NA	Analysis	7470A		50	212657	08/23/11 14:22	CE	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	212631	08/23/11 09:44	MSJ	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Savannah
5102 LaRoche Avenue
Suite 106
Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

08/23/2011

Client Contact	**Project Manager:**	**Site Contact: Kirk Kessler**	**Date: 8/22/2011**	COC No: 30927-11234
Environmental Planning Specialist	**Tel/Fax:**	**Lab Contact: Linda Wolfe**	**Carrier:**	1 of 1 COCs
900 Ashwood Parkway, Suite 350	**Analysis Turnaround Time**			Job No.
Atlanta, Georgia 30338	RUSH - 24 Hours			
404-315-9113 Phone	~~TAT if different from Below~~			
FAX	~~2 weeks~~			SDG No.
Project Name: Honeywell Brunswick Site	~~1 week~~			
Site: 30927	~~2 days~~			
PO # 4500027786	~~1 day~~			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Mercury (7470A)	pH (SW 4500 H+B)	Sample Specific Notes:
11234-CBP-029I	8/22/2011	15:00	Grab	Water	2	N	X	X	
							4		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

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

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

Special Instructions/QC Requirements & Comments:

680 - 71624 3.2°C

Relinquished by: Alvin Jones	Company: CH2M HILL OMI	Date/Time: 8/22/2011 - 17:30	Received by:	Company: Fed Ex	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by: Eddie Barnett	Company: TA SAV	Date/Time: 08/23/11 0757
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Login Sample Receipt Checklist

Client: Environmental Planning Specialists, Inc.

Job Number: 680-71624-1

Login Number: 71624

List Source: TestAmerica Savannah

List Number: 1

Creator: Barnett, Eddie T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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?	N/A	
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	ph >2 for sample 1A
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.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71624-1

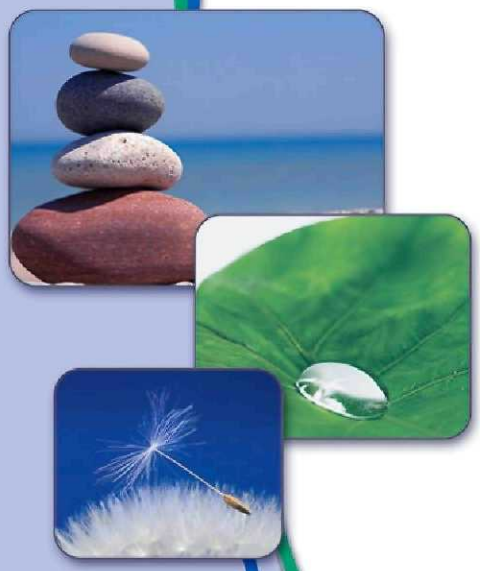
Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kansas	NELAC	7	E-10322
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	Nevada	State Program	9	GA6
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Oklahoma	State Program	6	9984
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	NELAC Secondary AB	3	460161
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT



TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-71666-1

Client Project/Site: Honeywell - Brunswick Site

For:

Environmental Planning Specialists, Inc.
900 Ashwood Parkway
Suite 350
Atlanta, Georgia 30338

Attn: Kirk Kessler

Linda A. Wolfe

Authorized for release by:
08/24/2011 04:02:51 PM

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com

LINKS

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

Table of Contents

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Sample Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71666-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-71666-1	11235-CBP-030E	Water	08/23/11 15:30	08/24/11 08:05

Method Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71666-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 4500 H+ B	pH	SM	TAL SAV

Protocol References:

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit (Dioxin)
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or method detection limit if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71666-1

Client Sample ID: 11235-CBP-030E
Date Collected: 08/23/11 15:30
Date Received: 08/24/11 08:05

Lab Sample ID: 680-71666-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	139		10.0	4.6	ug/L		08/24/11 09:34	08/24/11 14:20	50

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	10.9	HF			SU			08/24/11 09:50	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-212725/1-A
Matrix: Water
Analysis Batch: 212811

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 212725

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		08/24/11 09:34	08/24/11 14:13	1

Lab Sample ID: LCS 680-212725/2-A
Matrix: Water
Analysis Batch: 212811

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 212725

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	2.54		ug/L		101	80 - 120

Lab Sample ID: 680-71548-E-19-C MS
Matrix: Water
Analysis Batch: 212811

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 212725

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.20	U	1.00	0.958		ug/L		96	80 - 120

Lab Sample ID: 680-71548-E-19-D MSD
Matrix: Water
Analysis Batch: 212811

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 212725

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	1.02		ug/L		102	80 - 120	6	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 680-212739/1
Matrix: Water
Analysis Batch: 212739

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
pH	7.00	7.100		SU		101	63 - 158

Lab Sample ID: 680-71666-1 DU
Matrix: Water
Analysis Batch: 212739

Client Sample ID: 11235-CBP-030E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	10.9	HF	10.87		SU		0.09	40

QC Association Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71666-1

Metals

Prep Batch: 212725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-212725/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-212725/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-71666-1	11235-CBP-030E	Total/NA	Water	7470A	
680-71548-E-19-C MS	Matrix Spike	Total/NA	Water	7470A	
680-71548-E-19-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 212811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-212725/1-A	Method Blank	Total/NA	Water	7470A	212725
LCS 680-212725/2-A	Lab Control Sample	Total/NA	Water	7470A	212725
680-71666-1	11235-CBP-030E	Total/NA	Water	7470A	212725
680-71548-E-19-C MS	Matrix Spike	Total/NA	Water	7470A	212725
680-71548-E-19-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	212725

General Chemistry

Analysis Batch: 212739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-212739/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
680-71666-1	11235-CBP-030E	Total/NA	Water	SM 4500 H+ B	
680-71666-1 DU	11235-CBP-030E	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71666-1

Client Sample ID: 11235-CBP-030E
Date Collected: 08/23/11 15:30
Date Received: 08/24/11 08:05

Lab Sample ID: 680-71666-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			212725	08/24/11 09:34	JKL	TAL SAV
Total/NA	Analysis	7470A		50	212811	08/24/11 14:20	CE	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	212739	08/24/11 09:50	MSJ	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Savannah
5102 LaRoche Avenue
Suite 106
Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

08/24/2011

Client Contact	Project Manager:	Site Contact: Kirk Kessler	Date: 8/23/2011	COC No: 30927-11235
Environmental Planning Specialist	Tel/Fax:	Lab Contact: Linda Wolfe	Carrier:	1 of 1 COCs
900 Ashwood Parkway, Suite 350	Analysis Turnaround Time			Job No.
Atlanta, Georgia 30338	RUSH - 24 Hours			
404-315-9113 Phone	~~TAT if different from Below~~			
FAX	~~2 weeks~~			SDG No.
Project Name: Honeywell Brunswick Site	~~1 week~~			
Site: 30927	~~2 days~~			
PO # 4500027786	~~1 day~~			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Mercury (7470A)	pH (SW 4500 H+B)	Sample Specific Notes:
11235-CBP-030E	8/23/2011	15:30	Grab	Water	2	N	X	X	
							4		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

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

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

Special Instructions/QC Requirements & Comments:

2-6 °C 680-71664

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Alvin Jones	CH2M HILL OMI	8/23/2011 - 17:30		Fed Ex	
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
			Addi Burnett	TA SDV	08/24/11 0805

Login Sample Receipt Checklist

Client: Environmental Planning Specialists, Inc.

Job Number: 680-71666-1

Login Number: 71666

List Source: TestAmerica Savannah

List Number: 1

Creator: Barnett, Eddie T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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?	N/A	
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	pH for Mercury samples is >2
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.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71666-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kansas	NELAC	7	E-10322
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	Nevada	State Program	9	GA6
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Oklahoma	State Program	6	9984
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	NELAC Secondary AB	3	460161
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

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TestAmerica

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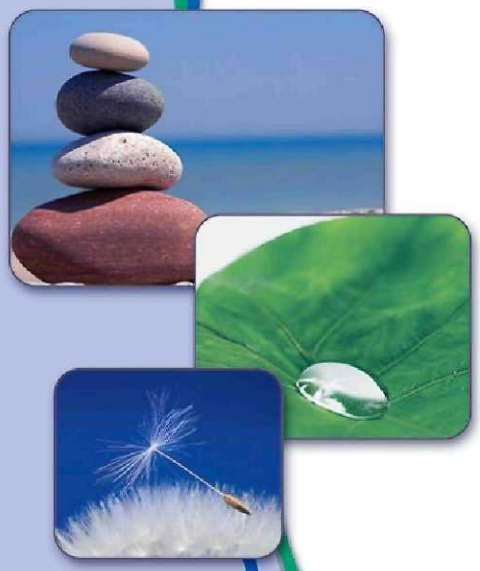

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-71771-1
Client Project/Site: Honeywell - Brunswick Site

For:
Environmental Planning Specialists, Inc.
900 Ashwood Parkway
Suite 350
Atlanta, Georgia 30338

Attn: Kirk Kessler

Linda A. Wolfe

Authorized for release by:
08/26/2011 03:50:19 PM

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com

LINKS

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Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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Sample Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71771-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-71771-1	11237-CBP-0311	Water	08/25/11 15:15	08/26/11 08:25

Method Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71771-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 4500 H+ B	pH	SM	TAL SAV

Protocol References:

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit (Dioxin)
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or method detection limit if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71771-1

Client Sample ID: 11237-CBP-0311
Date Collected: 08/25/11 15:15
Date Received: 08/26/11 08:25

Lab Sample ID: 680-71771-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	164		10.0	4.6	ug/L		08/26/11 09:28	08/26/11 15:12	50

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	10.8	HF			SU			08/26/11 10:10	1

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71771-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-213008/1-A
Matrix: Water
Analysis Batch: 213081

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 213008

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		08/26/11 09:26	08/26/11 14:52	1

Lab Sample ID: LCS 680-213008/2-A
Matrix: Water
Analysis Batch: 213081

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 213008

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	2.87		ug/L		115	80 - 120

Lab Sample ID: 680-71738-E-20-B MS
Matrix: Water
Analysis Batch: 213081

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 213008

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.20	U	1.00	1.10		ug/L		110	80 - 120

Lab Sample ID: 680-71738-E-20-C MSD
Matrix: Water
Analysis Batch: 213081

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 213008

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	1.15		ug/L		115	80 - 120	5	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 680-213027/1
Matrix: Water
Analysis Batch: 213027

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
pH	7.00	6.970		SU		100	63 - 158

Lab Sample ID: 680-71770-S-1 DU
Matrix: Water
Analysis Batch: 213027

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.34		7.310		SU		0.4	40

QC Association Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71771-1

Metals

Prep Batch: 213008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-71738-E-20-B MS	Matrix Spike	Total/NA	Water	7470A	
680-71738-E-20-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	
680-71771-1	11237-CBP-0311	Total/NA	Water	7470A	
LCS 680-213008/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-213008/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 213081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-71738-E-20-B MS	Matrix Spike	Total/NA	Water	7470A	213008
680-71738-E-20-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	213008
680-71771-1	11237-CBP-0311	Total/NA	Water	7470A	213008
LCS 680-213008/2-A	Lab Control Sample	Total/NA	Water	7470A	213008
MB 680-213008/1-A	Method Blank	Total/NA	Water	7470A	213008

General Chemistry

Analysis Batch: 213027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-71770-S-1 DU	Duplicate	Total/NA	Water	SM 4500 H+ B	
680-71771-1	11237-CBP-0311	Total/NA	Water	SM 4500 H+ B	
LCS 680-213027/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71771-1

Client Sample ID: 11237-CBP-0311
Date Collected: 08/25/11 15:15
Date Received: 08/26/11 08:25

Lab Sample ID: 680-71771-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			213008	08/26/11 09:28	JKL	TAL SAV
Total/NA	Analysis	7470A		50	213081	08/26/11 15:12	CE	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	213027	08/26/11 10:10	PAT	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Savannah
5102 LaRoche Avenue
Suite 106
Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

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TestAmerica Laboratories, Inc.

08/26/2011

Client Contact	Project Manager:	Site Contact: Kirk Kessler	Date: 8/25/2011	COC No: 30927-11237
Environmental Planning Specialist	Tel/Fax:	Lab Contact: Linda Wolfe	Carrier:	1 of 1 COCs
900 Ashwood Parkway, Suite 350	Analysis Turnaround Time			Job No.
Atlanta, Georgia 30338	RUSH - 24 Hours			
404-315-9113 Phone	~~TAT if different from Below~~			SDG No.
FAX	~~2 weeks~~			
Project Name: Honeywell Brunswick Site	~~1 week~~			
Site: 30927	~~2 days~~			
PO # 4500027786	~~1 day~~			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Mercury (7470A)	pH (SW 4500 H+B)	Sample Specific Notes:
11237-CBP-031I	8/25/2011	15:15	Grab	Water	2	N	X	X	
							4		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

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

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

Special Instructions/QC Requirements & Comments:

1.0°c 680-71771

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Alvin Jones	CH2M HILL OMI	8/25/2011 - 17:00	Debbie Barnett	Fed Ex TK 880	08/26/11 0825
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Login Sample Receipt Checklist

Client: Environmental Planning Specialists, Inc.

Job Number: 680-71771-1

Login Number: 71771

List Source: TestAmerica Savannah

List Number: 1

Creator: Barnett, Eddie T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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?	N/A	
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	pH for mercury sample is out of range (>2)
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.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71771-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
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TestAmerica Savannah	Hawaii	State Program	9	N/A
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TestAmerica Savannah	New York	NELAC	2	10842
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TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

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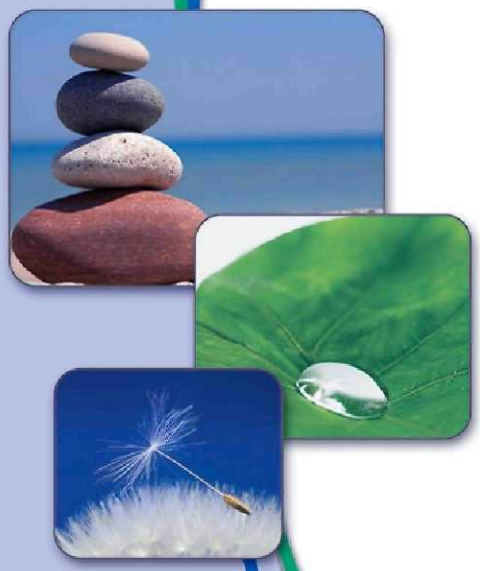
ANALYTICAL REPORT



TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-71771-1
Client Project/Site: Honeywell - Brunswick Site
Revision: 1

For:
Environmental Planning Specialists, Inc.
900 Ashwood Parkway
Suite 350
Atlanta, Georgia 30338

Attn: Kirk Kessler

Linda A. Wolfe

Authorized for release by:
09/06/2011 11:52:37 AM

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com

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Certification Summary 12

Sample Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71771-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-71771-1	11237-CBP-031I	Water	08/25/11 15:15	08/26/11 08:25

Method Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71771-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 4500 H+ B	pH	SM	TAL SAV

Protocol References:

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit (Dioxin)
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or method detection limit if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71771-1

Client Sample ID: 11237-CBP-031I
Date Collected: 08/25/11 15:15
Date Received: 08/26/11 08:25

Lab Sample ID: 680-71771-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	164		10.0	4.6	ug/L		08/26/11 09:28	08/26/11 15:12	50

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	10.8	HF			SU			08/26/11 10:10	1

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71771-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-213008/1-A
Matrix: Water
Analysis Batch: 213081

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 213008

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		08/26/11 09:26	08/26/11 14:52	1

Lab Sample ID: LCS 680-213008/2-A
Matrix: Water
Analysis Batch: 213081

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 213008

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	2.87		ug/L		115	80 - 120

Lab Sample ID: 680-71738-E-20-B MS
Matrix: Water
Analysis Batch: 213081

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 213008

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.20	U	1.00	1.10		ug/L		110	80 - 120

Lab Sample ID: 680-71738-E-20-C MSD
Matrix: Water
Analysis Batch: 213081

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 213008

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	1.15		ug/L		115	80 - 120	5	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 680-213027/1
Matrix: Water
Analysis Batch: 213027

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
pH	7.00	6.970		SU		100	63 - 158

Lab Sample ID: 680-71770-S-1 DU
Matrix: Water
Analysis Batch: 213027

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.34		7.310		SU		0.4	40

QC Association Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71771-1

Metals

Prep Batch: 213008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-71738-E-20-B MS	Matrix Spike	Total/NA	Water	7470A	
680-71738-E-20-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	
680-71771-1	11237-CBP-031I	Total/NA	Water	7470A	
LCS 680-213008/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-213008/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 213081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-71738-E-20-B MS	Matrix Spike	Total/NA	Water	7470A	213008
680-71738-E-20-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	213008
680-71771-1	11237-CBP-031I	Total/NA	Water	7470A	213008
LCS 680-213008/2-A	Lab Control Sample	Total/NA	Water	7470A	213008
MB 680-213008/1-A	Method Blank	Total/NA	Water	7470A	213008

General Chemistry

Analysis Batch: 213027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-71770-S-1 DU	Duplicate	Total/NA	Water	SM 4500 H+ B	
680-71771-1	11237-CBP-031I	Total/NA	Water	SM 4500 H+ B	
LCS 680-213027/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71771-1

Client Sample ID: 11237-CBP-031I
Date Collected: 08/25/11 15:15
Date Received: 08/26/11 08:25

Lab Sample ID: 680-71771-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			213008	08/26/11 09:28	JKL	TAL SAV
Total/NA	Analysis	7470A		50	213081	08/26/11 15:12	CE	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	213027	08/26/11 10:10	PAT	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Savannah
5102 LaRoche Avenue
Suite 106
Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

09/06/2011

Client Contact	Project Manager:	Site Contact: Kirk Kessler	Date: 8/25/2011	COC No: 30927-11237
Environmental Planning Specialist	Tel/Fax:	Lab Contact: Linda Wolfe	Carrier:	1 of 1 COCs
900 Ashwood Parkway, Suite 350	Analysis Turnaround Time			Job No.
Atlanta, Georgia 30338	RUSH - 24 Hours			
404-315-9113 Phone	~~TAT if different from Below~~			SDG No.
FAX	~~2 weeks~~			
Project Name: Honeywell Brunswick Site	~~1 week~~			
Site: 30927	~~2 days~~			
PO # 4500027786	~~1 day~~			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Mercury (7470A)	pH (SW 4500 H+B)	Sample Specific Notes:
11237-CBP-031I	8/25/2011	15:15	Grab	Water	2	N	X	X	
								4	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

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

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

Special Instructions/QC Requirements & Comments:

1.0°c 680-71771

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Alvin Jones	CH2M HILL OMI	8/25/2011 - 17:00	Debbie Barnett	Fed Ex TK 880	08/26/11 0825
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Login Sample Receipt Checklist

Client: Environmental Planning Specialists, Inc.

Job Number: 680-71771-1

Login Number: 71771
List Number: 1
Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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?	N/A	
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	pH for mercury sample is out of range (>2)
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.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71771-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	NELAC Secondary AB	3	460161
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

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

TestAmerica

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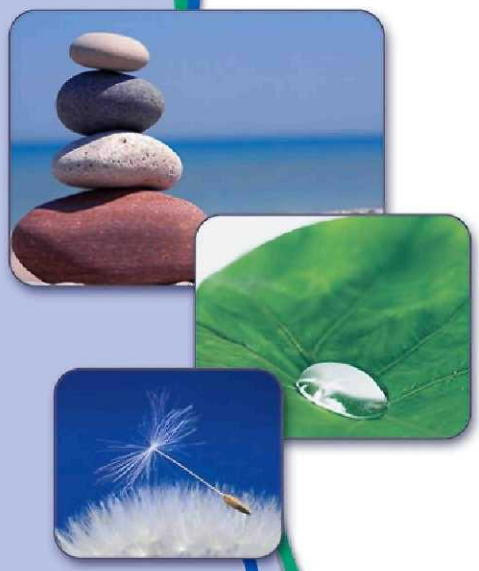

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-71866-1
Client Project/Site: Honeywell - Brunswick Site

For:
Environmental Planning Specialists, Inc.
900 Ashwood Parkway
Suite 350
Atlanta, Georgia 30338

Attn: Kirk Kessler

Linda A. Wolfe

Authorized for release by:
08/30/2011 04:10:52 PM

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com

LINKS

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

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Sample Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71866-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-71866-1	11241-CBP-032E	Water	08/29/11 15:30	08/30/11 08:09

Method Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71866-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 4500 H+ B	pH	SM	TAL SAV

Protocol References:

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71866-1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit (Dioxin)
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or method detection limit if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71866-1

Client Sample ID: 11241-CBP-032E
Date Collected: 08/29/11 15:30
Date Received: 08/30/11 08:09

Lab Sample ID: 680-71866-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	76.9		10.0	4.6	ug/L		08/30/11 10:24	08/30/11 15:02	50

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	10.9	HF			SU			08/30/11 09:10	1

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71866-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-213330/1-A
Matrix: Water
Analysis Batch: 213405

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 213330

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		08/30/11 10:24	08/30/11 14:55	1

Lab Sample ID: LCS 680-213330/2-A
Matrix: Water
Analysis Batch: 213405

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 213330

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	2.50		ug/L		100	80 - 120

Lab Sample ID: 680-71809-C-2-B MS
Matrix: Water
Analysis Batch: 213405

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 213330

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.20	U	1.00	0.925		ug/L		92	80 - 120

Lab Sample ID: 680-71809-C-2-C MSD
Matrix: Water
Analysis Batch: 213405

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 213330

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	0.953		ug/L		95	80 - 120	3	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 680-213321/1
Matrix: Water
Analysis Batch: 213321

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
pH	7.00	7.070		SU		101	63 - 158

Lab Sample ID: 680-71866-1 DU
Matrix: Water
Analysis Batch: 213321

Client Sample ID: 11241-CBP-032E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	10.9	HF	10.89		SU		0.3	40

QC Association Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71866-1

Metals

Prep Batch: 213330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-71809-C-2-B MS	Matrix Spike	Total/NA	Water	7470A	
680-71809-C-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	
680-71866-1	11241-CBP-032E	Total/NA	Water	7470A	
LCS 680-213330/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-213330/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 213405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-71809-C-2-B MS	Matrix Spike	Total/NA	Water	7470A	213330
680-71809-C-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	213330
680-71866-1	11241-CBP-032E	Total/NA	Water	7470A	213330
LCS 680-213330/2-A	Lab Control Sample	Total/NA	Water	7470A	213330
MB 680-213330/1-A	Method Blank	Total/NA	Water	7470A	213330

General Chemistry

Analysis Batch: 213321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-71866-1	11241-CBP-032E	Total/NA	Water	SM 4500 H+ B	
680-71866-1 DU	11241-CBP-032E	Total/NA	Water	SM 4500 H+ B	
LCS 680-213321/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71866-1

Client Sample ID: 11241-CBP-032E
Date Collected: 08/29/11 15:30
Date Received: 08/30/11 08:09

Lab Sample ID: 680-71866-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			213330	08/30/11 10:24	BR	TAL SAV
Total/NA	Analysis	7470A		50	213405	08/30/11 15:02	CE	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	213321	08/30/11 09:10	PAT	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Savannah
5102 LaRoche Avenue
Suite 106
Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

08/30/2011

Client Contact	Project Manager:	Site Contact: Kirk Kessler	Date: 8/29/2011	COC No: 30927-11241
Environmental Planning Specialist	Tel/Fax:	Lab Contact: Linda Wolfe	Carrier:	1 of 1 COCs
900 Ashwood Parkway, Suite 350	**Analysis Turnaround Time**			Job No.
Atlanta, Georgia 30338	RUSH - 24 Hours			
404-315-9113 Phone	~~TAT if different from Below~~			
FAX	~~2 weeks~~			SDG No.
Project Name: Honeywell Brunswick Site	~~1 week~~			
Site: 30927	~~2 days~~			
PO # 4500027786	~~1 day~~			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Mercury (7470A)	pH (SW 4500 H+B)	Sample Specific Notes:
11241-CBP-032E	8/29/2011	15:30	Grab	Water	2	N	X	X	
							4		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

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

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

Special Instructions/QC Requirements & Comments:

3.8°c 680-71866

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Alvin Jones	CH2M HILL OMI	8/29/2011 - 17:30	Yolanda Barnett	~~Fed Ex~~ TA SAV	08/30/11 0809
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Login Sample Receipt Checklist

Client: Environmental Planning Specialists, Inc.

Job Number: 680-71866-1

Login Number: 71866

List Source: TestAmerica Savannah

List Number: 1

Creator: Barnett, Eddie T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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?	N/A	
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	Mercury sample (nitric acid) has a ph>2 - out of range.
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.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71866-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kansas	NELAC	7	E-10322
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	Nevada	State Program	9	GA6
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Oklahoma	State Program	6	9984
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	NELAC Secondary AB	3	460161
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

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

TestAmerica

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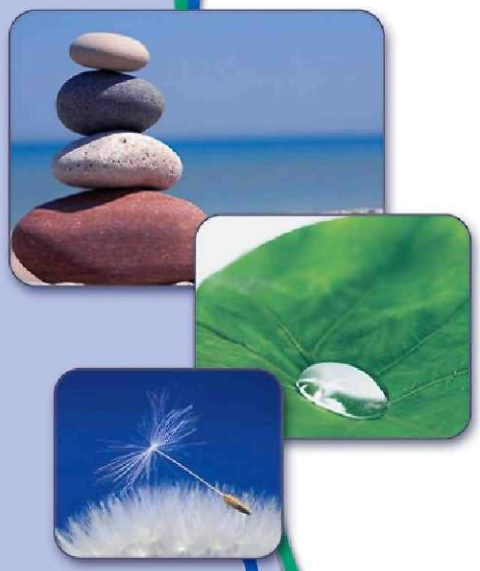
ANALYTICAL REPORT



TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-71908-1

Client Project/Site: Honeywell - Brunswick Site

For:

Environmental Planning Specialists, Inc.
900 Ashwood Parkway
Suite 350
Atlanta, Georgia 30338

Attn: Kirk Kessler

Linda A. Wolfe

Authorized for release by:
08/31/2011 04:02:57 PM

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com

LINKS

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

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Sample Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71908-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-71908-1	11242-CBP-033I	Water	08/30/11 15:30	08/31/11 08:01

Method Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71908-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 4500 H+ B	pH	SM	TAL SAV

Protocol References:

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit (Dioxin)
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or method detection limit if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71908-1

Client Sample ID: 11242-CBP-033I
Date Collected: 08/30/11 15:30
Date Received: 08/31/11 08:01

Lab Sample ID: 680-71908-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	114		10.0	4.6	ug/L		08/31/11 09:39	08/31/11 14:50	50

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	11.0	HF			SU			08/31/11 10:09	1

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71908-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-213452/1-A
Matrix: Water
Analysis Batch: 213535

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 213452

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		08/31/11 09:39	08/31/11 14:43	1

Lab Sample ID: LCS 680-213452/2-A
Matrix: Water
Analysis Batch: 213535

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 213452

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	2.52		ug/L		101	80 - 120

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 680-213460/1
Matrix: Water
Analysis Batch: 213460

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
pH	7.00	7.040		SU		101	63 - 158

Lab Sample ID: 680-71908-1 DU
Matrix: Water
Analysis Batch: 213460

Client Sample ID: 11242-CBP-033I
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	11.0	HF	10.93		SU		0.3	40

QC Association Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71908-1

Metals

Prep Batch: 213452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-71908-1	11242-CBP-033I	Total/NA	Water	7470A	
LCS 680-213452/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-213452/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 213535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-71908-1	11242-CBP-033I	Total/NA	Water	7470A	213452
LCS 680-213452/2-A	Lab Control Sample	Total/NA	Water	7470A	213452
MB 680-213452/1-A	Method Blank	Total/NA	Water	7470A	213452

General Chemistry

Analysis Batch: 213460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-71908-1	11242-CBP-033I	Total/NA	Water	SM 4500 H+ B	
680-71908-1 DU	11242-CBP-033I	Total/NA	Water	SM 4500 H+ B	
LCS 680-213460/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71908-1

Client Sample ID: 11242-CBP-033I
Date Collected: 08/30/11 15:30
Date Received: 08/31/11 08:01

Lab Sample ID: 680-71908-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			213452	08/31/11 09:39	BR	TAL SAV
Total/NA	Analysis	7470A		50	213535	08/31/11 14:50	BR	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	213460	08/31/11 10:09	PAT	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Savannah
5102 LaRoche Avenue
Suite 106
Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

09/31/2011

Client Contact	Project Manager:	Site Contact: Kirk Kessler	Date: 8/30/2011	COC No: 30927-11242
Environmental Planning Specialist	Tel/Fax:	Lab Contact: Linda Wolfe	Carrier:	1 of 1 COCs
900 Ashwood Parkway, Suite 350	Analysis Turnaround Time			Job No.
Atlanta, Georgia 30338	RUSH - 24 Hours			
404-315-9113 Phone	~~TAT if different from Below~~			SDG No.
FAX	~~2 weeks~~			
Project Name: Honeywell Brunswick Site	~~1 week~~			
Site: 30927	~~2 days~~			
PO # 4500027786	~~1 day~~			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Mercury (7470A)	pH (SW 4500 H+B)	Sample Specific Notes:
11242-CBP-033I	8/30/2011	15:30	Grab	Water	2	N	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____ 4

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

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

Special Instructions/QC Requirements & Comments:

5.4°c 680-71908

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Alvin Jones	CH2M HILL OMI	8/30/2011 - 17:30		Fed Ex	
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by: Eddie Burnett	Company: TAL SAV	Date/Time: 08/31/11 0801

Login Sample Receipt Checklist

Client: Environmental Planning Specialists, Inc.

Job Number: 680-71908-1

Login Number: 71908

List Source: TestAmerica Savannah

List Number: 1

Creator: Barnett, Eddie T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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?	N/A	
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	pH for nitric metals container is >2
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.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-71908-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kansas	NELAC	7	E-10322
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	Nevada	State Program	9	GA6
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	NELAC Secondary AB	3	460161
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

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

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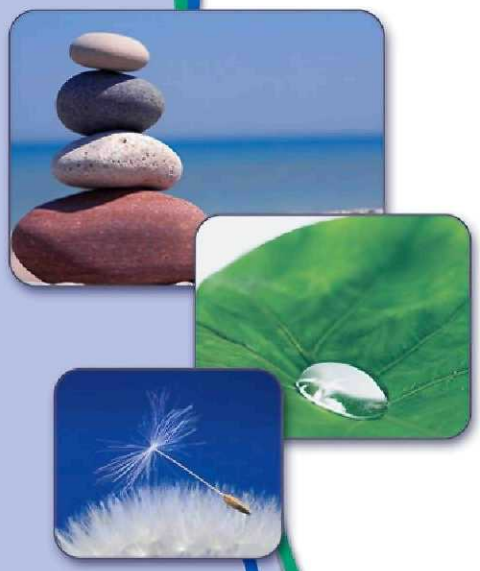
ANALYTICAL REPORT



TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-72571-1
Client Project/Site: Honeywell - Brunswick Site

For:
Environmental Planning Specialists, Inc.
900 Ashwood Parkway
Suite 350
Atlanta, Georgia 30338

Attn: Kirk Kessler

Linda A. Wolfe

Authorized for release by:
09/21/2011 04:26:33 PM

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com

LINKS

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Visit us at: www.testamericainc.com

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

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Sample Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72571-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-72571-1	11263-CBP-041I	Water	09/20/11 15:20	09/21/11 07:52

Method Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72571-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 4500 H+ B	pH	SM	TAL SAV

Protocol References:

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit (Dioxin)
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or method detection limit if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72571-1

Client Sample ID: 11263-CBP-041I
Date Collected: 09/20/11 15:20
Date Received: 09/21/11 07:52

Lab Sample ID: 680-72571-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	168		10.0	4.6	ug/L		09/21/11 08:27	09/21/11 13:28	50

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	11.0	HF			SU			09/21/11 09:31	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-215284/1-A
Matrix: Water
Analysis Batch: 215360

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 215284

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		09/21/11 08:27	09/21/11 13:22	1

Lab Sample ID: LCS 680-215284/2-A
Matrix: Water
Analysis Batch: 215360

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 215284

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	2.64		ug/L		106	80 - 120

Lab Sample ID: 680-72515-A-1-B MS
Matrix: Water
Analysis Batch: 215360

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 215284

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.20	U	1.00	1.05		ug/L		105	80 - 120

Lab Sample ID: 680-72515-A-1-C MSD
Matrix: Water
Analysis Batch: 215360

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 215284

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	0.919		ug/L		92	80 - 120	13	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 680-215299/7
Matrix: Water
Analysis Batch: 215299

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
pH	7.00	7.070		SU		101	63 - 158

Lab Sample ID: 680-72571-1 DU
Matrix: Water
Analysis Batch: 215299

Client Sample ID: 11263-CBP-041I
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	11.0	HF	11.02		SU		0	40

QC Association Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72571-1

Metals

Prep Batch: 215284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-72515-A-1-B MS	Matrix Spike	Total/NA	Water	7470A	
680-72515-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	
680-72571-1	11263-CBP-041I	Total/NA	Water	7470A	
LCS 680-215284/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-215284/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 215360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-72515-A-1-B MS	Matrix Spike	Total/NA	Water	7470A	215284
680-72515-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	215284
680-72571-1	11263-CBP-041I	Total/NA	Water	7470A	215284
LCS 680-215284/2-A	Lab Control Sample	Total/NA	Water	7470A	215284
MB 680-215284/1-A	Method Blank	Total/NA	Water	7470A	215284

General Chemistry

Analysis Batch: 215299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-72571-1	11263-CBP-041I	Total/NA	Water	SM 4500 H+ B	
680-72571-1 DU	11263-CBP-041I	Total/NA	Water	SM 4500 H+ B	
LCS 680-215299/7	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72571-1

Client Sample ID: 11263-CBP-041I
Date Collected: 09/20/11 15:20
Date Received: 09/21/11 07:52

Lab Sample ID: 680-72571-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			215284	09/21/11 08:27	JKL	TAL SAV
Total/NA	Analysis	7470A		50	215360	09/21/11 13:28	CE	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	215299	09/21/11 09:31	PAT	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Savannah
5102 LaRoche Avenue
Suite 106
Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

09/21/2011

Client Contact	Project Manager:	Site Contact: Kirk Kessler	Date: 9/20/2011	COC No: 30927-11263
Environmental Planning Specialist	Tel/Fax:	Lab Contact: Linda Wolfe	Carrier:	1 of 1 COCs
900 Ashwood Parkway, Suite 350	**Analysis Turnaround Time**			Job No.
Atlanta, Georgia 30338	RUSH - 24 Hours			
404-315-9113 Phone	~~TAT if different from Below~~			
FAX	~~2 weeks~~			SDG No.
Project Name: Honeywell Brunswick Site	~~1 week~~			
Site: 30927	~~2 days~~			
PO # 4500027786	~~1 day~~			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Mercury (7470A)	pH (SW 4500 H+B)	Sample Specific Notes:
11263-CBP-041I	9/20/2011	15:20	Grab	Water	2	N	X	X	

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Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____ 4

Possible Hazard Identification

X *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

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

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

Special Instructions/QC Requirements & Comments:

680-72571 2.0°C

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Alvin Jones	CH2M HILL OMI	09/20/2011 - 17:30		Fed Ex	
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
			Debbie Bennett	STA STL	09/21/11 0852
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Login Sample Receipt Checklist

Client: Environmental Planning Specialists, Inc.

Job Number: 680-72571-1

Login Number: 72571

List Source: TestAmerica Savannah

List Number: 1

Creator: Barnett, Eddie T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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	pH of mercury sample is > 2
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.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72571-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	NELAC Secondary AB	3	460161
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

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

TestAmerica

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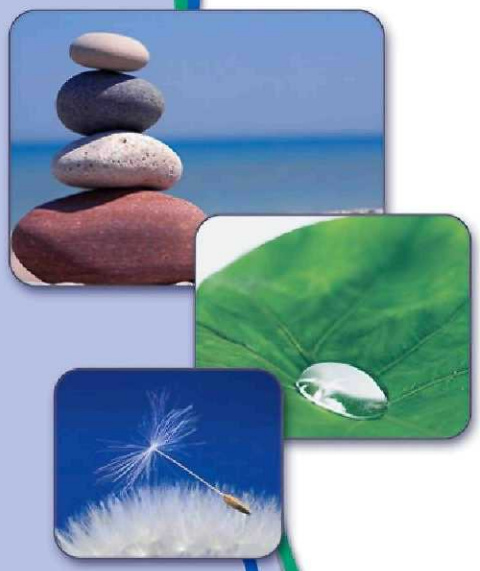
ANALYTICAL REPORT



TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-72008-1
Client Project/Site: Honeywell - Brunswick Site

For:
Environmental Planning Specialists, Inc.
900 Ashwood Parkway
Suite 350
Atlanta, Georgia 30338

Attn: Kirk Kessler

Authorized for release by:
09/02/2011 04:44:47 PM
Abbie Yant
Project Manager I
abbie.yant@testamericainc.com

Designee for

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com

LINKS

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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.

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Job ID: 680-72008-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Environmental Planning Specialists, Inc.

Project: Honeywell - Brunswick Site

Report Number: 680-72008-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 09/02/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.0 C.

TOTAL MERCURY

Sample 11244-CBP-034E (680-72008-1) was analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 09/02/2011.

Sample 11244-CBP-034E (680-72008-1)[50X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

CORROSIVITY (PH)

Sample 11244-CBP-034E (680-72008-1) was analyzed for corrosivity (pH) in accordance with SM 4500 H+ B. The samples were analyzed on 09/02/2011.

This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. This sample(s) was performed in the laboratory outside the 15 minute timeframe.

No difficulties were encountered during the pH analysis.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72008-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-72008-1	11244-CBP-034E	Water	09/01/11 15:30	09/02/11 07:55

Method Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72008-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 4500 H+ B	pH	SM	TAL SAV

Protocol References:

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit (Dioxin)
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or method detection limit if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72008-1

Client Sample ID: 11244-CBP-034E
Date Collected: 09/01/11 15:30
Date Received: 09/02/11 07:55

Lab Sample ID: 680-72008-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	148		10.0	4.6	ug/L		09/02/11 09:08	09/02/11 15:33	50

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	10.9	HF			SU			09/02/11 09:47	1

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72008-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-213715/1-A
Matrix: Water
Analysis Batch: 213791

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 213715

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		09/02/11 09:07	09/02/11 15:26	1

Lab Sample ID: LCS 680-213715/2-A
Matrix: Water
Analysis Batch: 213791

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 213715

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	2.77		ug/L		111	80 - 120

Lab Sample ID: 680-71948-F-2-C MS
Matrix: Water
Analysis Batch: 213791

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 213715

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.20	U	1.00	1.05		ug/L		105	80 - 120

Lab Sample ID: 680-71948-F-2-D MSD
Matrix: Water
Analysis Batch: 213791

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 213715

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	1.10		ug/L		110	80 - 120	5	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 680-213732/1
Matrix: Water
Analysis Batch: 213732

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
pH	7.00	7.020		SU		100	63 - 158

Lab Sample ID: 680-72003-D-1 DU
Matrix: Water
Analysis Batch: 213732

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	6.90		6.880		SU		0.3	40

QC Association Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72008-1

Metals

Prep Batch: 213715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-71948-F-2-C MS	Matrix Spike	Total/NA	Water	7470A	
680-71948-F-2-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	
680-72008-1	11244-CBP-034E	Total/NA	Water	7470A	
LCS 680-213715/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-213715/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 213791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-71948-F-2-C MS	Matrix Spike	Total/NA	Water	7470A	213715
680-71948-F-2-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	213715
680-72008-1	11244-CBP-034E	Total/NA	Water	7470A	213715
LCS 680-213715/2-A	Lab Control Sample	Total/NA	Water	7470A	213715
MB 680-213715/1-A	Method Blank	Total/NA	Water	7470A	213715

General Chemistry

Analysis Batch: 213732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-72003-D-1 DU	Duplicate	Total/NA	Water	SM 4500 H+ B	
680-72008-1	11244-CBP-034E	Total/NA	Water	SM 4500 H+ B	
LCS 680-213732/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72008-1

Client Sample ID: 11244-CBP-034E
Date Collected: 09/01/11 15:30
Date Received: 09/02/11 07:55

Lab Sample ID: 680-72008-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			213715	09/02/11 09:08	JKL	TAL SAV
Total/NA	Analysis	7470A		50	213791	09/02/11 15:33	BR	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	213732	09/02/11 09:47	PAT	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Savannah
5102 LaRoche Avenue
Suite 106
Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

09/02/2011

Client Contact	Project Manager:	Site Contact: Kirk Kessler	Date: 9/01/2011	COC No: 30927-11244
Environmental Planning Specialist	Tel/Fax:	Lab Contact: Linda Wolfe	Carrier:	1 of 1 COCs
900 Ashwood Parkway, Suite 350	**Analysis Turnaround Time**			Job No.
Atlanta, Georgia 30338	RUSH - 24 Hours			
404-315-9113 Phone	~~TAT if different from Below~~			
FAX	~~2 weeks~~			SDG No.
Project Name: Honeywell Brunswick Site	~~1 week~~			
Site: 30927	~~2 days~~			
PO # 4500027786	~~1 day~~			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Mercury (7470A)	pH (SW 4500 H+B)	Sample Specific Notes:
11244-CBP-034E	9/1/2011	15:30	Grab	Water	2	N	X	X	
							4		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification

[X] *Non-Hazard* [ ] *Flammable* [ ] *Skin Irritant* *Poison B* [ ] *Unknown* [ ]

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

[ ] *Return To Client* [X] *Disposal By Lab* [ ] *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments:

2.0°C 680 - 72008

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Alvin Jones	CH2M HILL OMI	09/01/2011 - 17:30	Debbi Barnett	Fed Ex	
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
				TA STL	09/02/11 0755
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Login Sample Receipt Checklist

Client: Environmental Planning Specialists, Inc.

Job Number: 680-72008-1

Login Number: 72008

List Source: TestAmerica Savannah

List Number: 1

Creator: Barnett, Eddie T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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?	N/A	
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	-1 sample pH > 2
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.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72008-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
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TestAmerica Savannah	Virginia	NELAC Secondary AB	3	460161
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
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TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

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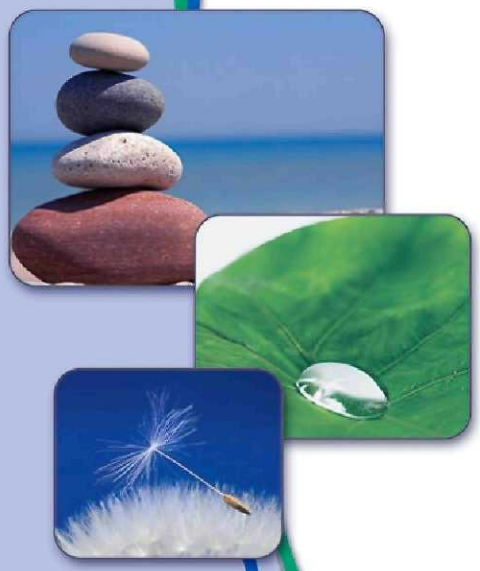
ANALYTICAL REPORT



TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-72064-1
Client Project/Site: Honeywell - Brunswick Site

For:
Environmental Planning Specialists, Inc.
900 Ashwood Parkway
Suite 350
Atlanta, Georgia 30338

Attn: Kirk Kessler

Linda A. Wolfe

Authorized for release by:
09/06/2011 04:13:23 PM

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com

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Sample Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72064-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-72064-1	11245-CBP-035I	Water	09/02/11 15:30	09/03/11 10:17

Method Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72064-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 4500 H+ B	pH	SM	TAL SAV

Protocol References:

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit (Dioxin)
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or method detection limit if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72064-1

Client Sample ID: 11245-CBP-035I
Date Collected: 09/02/11 15:30
Date Received: 09/03/11 10:17

Lab Sample ID: 680-72064-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	136		10.0	4.6	ug/L		09/06/11 09:25	09/06/11 15:09	50

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	11.0	HF			SU			09/03/11 12:24	1

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72064-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-213889/1-A
Matrix: Water
Analysis Batch: 213981

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 213889

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		09/06/11 09:25	09/06/11 14:49	1

Lab Sample ID: LCS 680-213889/2-A
Matrix: Water
Analysis Batch: 213981

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 213889

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	2.36		ug/L		94	80 - 120

Lab Sample ID: 680-72023-A-2-A MS
Matrix: Water
Analysis Batch: 213981

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 213889

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.20	U	1.00	1.14		ug/L		114	80 - 120

Lab Sample ID: 680-72023-A-2-B MSD
Matrix: Water
Analysis Batch: 213981

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 213889

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	1.06		ug/L		106	80 - 120	8	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 680-213822/1
Matrix: Water
Analysis Batch: 213822

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
pH	7.00	7.010		SU		100	63 - 158

Lab Sample ID: 680-72061-A-1 DU
Matrix: Water
Analysis Batch: 213822

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.13		8.130		SU		0	40

QC Association Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72064-1

Metals

Prep Batch: 213889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-72023-A-2-A MS	Matrix Spike	Total/NA	Water	7470A	
680-72023-A-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	
680-72064-1	11245-CBP-035I	Total/NA	Water	7470A	
LCS 680-213889/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-213889/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 213981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-72023-A-2-A MS	Matrix Spike	Total/NA	Water	7470A	213889
680-72023-A-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	213889
680-72064-1	11245-CBP-035I	Total/NA	Water	7470A	213889
LCS 680-213889/2-A	Lab Control Sample	Total/NA	Water	7470A	213889
MB 680-213889/1-A	Method Blank	Total/NA	Water	7470A	213889

General Chemistry

Analysis Batch: 213822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-72061-A-1 DU	Duplicate	Total/NA	Water	SM 4500 H+ B	
680-72064-1	11245-CBP-035I	Total/NA	Water	SM 4500 H+ B	
LCS 680-213822/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72064-1

Client Sample ID: 11245-CBP-035I
Date Collected: 09/02/11 15:30
Date Received: 09/03/11 10:17

Lab Sample ID: 680-72064-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			213889	09/06/11 09:25	JKL	TAL SAV
Total/NA	Analysis	7470A		50	213981	09/06/11 15:09	CE	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	213822	09/03/11 12:24	JKL	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Savannah
5102 LaRoche Avenue
Suite 106
Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager:	Site Contact: Kirk Kessler	Date: 9/02/2011	COC No: 30927-11245
Environmental Planning Specialist	Tel/Fax:	Lab Contact: Linda Wolfe	Carrier:	1 of 1 COCs
900 Ashwood Parkway, Suite 350	Analysis Turnaround Time			Job No.
Atlanta, Georgia 30338	RUSH - 24 Hours			
404-315-9113 Phone	~~TAT if different from Below~~			SDG No.
FAX	~~2 weeks~~			
Project Name: Honeywell Brunswick Site	~~1 week~~			
Site: 30927	~~2 days~~			
PO # 4500027786	~~1 day~~			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Mercury (7470A)	pH (SW 4500 H+B)	Sample Specific Notes:
11245-CBP-035I	9/2/2011	15:30	Grab	Water	2	N	X	X	
							4		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification

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

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

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

Special Instructions/QC Requirements & Comments:

680-72064
3 8°C

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Alvin Jones	CH2M HILL OMI	09/02/2011 - 17:30		Fed Ex	
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
				TA SV	9/3/11 1917
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

09/06/2011

Login Sample Receipt Checklist

Client: Environmental Planning Specialists, Inc.

Job Number: 680-72064-1

Login Number: 72064

List Source: TestAmerica Savannah

List Number: 1

Creator: Conner, Keaton

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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.	False	pH >2 on nitric container
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.	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72064-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	NELAC Secondary AB	3	460161
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

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

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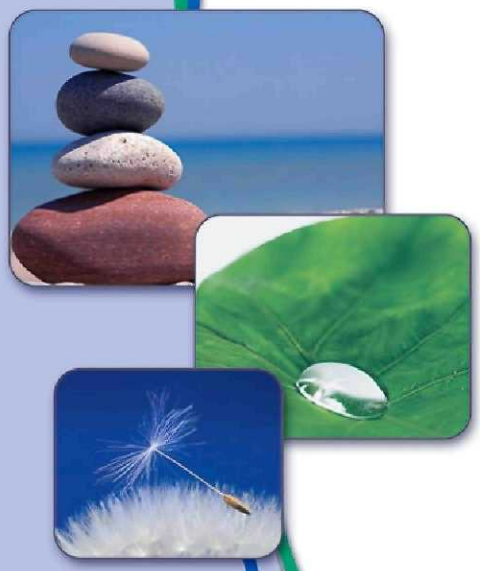
ANALYTICAL REPORT



TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-72189-1
Client Project/Site: Honeywell - Brunswick Site

For:
Environmental Planning Specialists, Inc.
900 Ashwood Parkway
Suite 350
Atlanta, Georgia 30338

Attn: Kirk Kessler

Linda A. Wolfe

Authorized for release by:
09/09/2011 04:22:04 PM

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com

LINKS

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

Table of Contents

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Sample Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72189-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-72189-1	11251-CBP-037I	Water	09/08/11 15:30	09/09/11 08:19

Method Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72189-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 4500 H+ B	pH	SM	TAL SAV

Protocol References:

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

Metals

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
U	Indicates the analyte was analyzed for but not detected.

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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit (Dioxin)
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or method detection limit if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72189-1

Client Sample ID: 11251-CBP-037I
Date Collected: 09/08/11 15:30
Date Received: 09/09/11 08:19

Lab Sample ID: 680-72189-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	146		10.0	4.6	ug/L		09/09/11 08:33	09/09/11 14:36	50

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	11.0	HF			SU			09/09/11 15:31	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-214266/1-A
Matrix: Water
Analysis Batch: 214348

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 214266

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		09/09/11 08:33	09/09/11 14:30	1

Lab Sample ID: LCS 680-214266/2-A
Matrix: Water
Analysis Batch: 214348

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 214266

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	2.16		ug/L		86	80 - 120

Lab Sample ID: 680-72181-K-1-B MS
Matrix: Water
Analysis Batch: 214348

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 214266

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.20	U	1.00	0.813		ug/L		81	80 - 120

Lab Sample ID: 680-72181-K-1-C MSD
Matrix: Water
Analysis Batch: 214348

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 214266

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	0.741	F	ug/L		74	80 - 120	9	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 680-214345/2
Matrix: Water
Analysis Batch: 214345

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
pH	7.00	7.030		SU		100	63 - 158

Lab Sample ID: 680-72189-1 DU
Matrix: Water
Analysis Batch: 214345

Client Sample ID: 11251-CBP-037I
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	11.0	HF	10.96		SU		0	40

QC Association Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72189-1

Metals

Prep Batch: 214266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-72181-K-1-B MS	Matrix Spike	Total/NA	Water	7470A	
680-72181-K-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	
680-72189-1	11251-CBP-037I	Total/NA	Water	7470A	
LCS 680-214266/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-214266/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 214348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-72181-K-1-B MS	Matrix Spike	Total/NA	Water	7470A	214266
680-72181-K-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	214266
680-72189-1	11251-CBP-037I	Total/NA	Water	7470A	214266
LCS 680-214266/2-A	Lab Control Sample	Total/NA	Water	7470A	214266
MB 680-214266/1-A	Method Blank	Total/NA	Water	7470A	214266

General Chemistry

Analysis Batch: 214345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-72189-1	11251-CBP-037I	Total/NA	Water	SM 4500 H+ B	
680-72189-1 DU	11251-CBP-037I	Total/NA	Water	SM 4500 H+ B	
LCS 680-214345/2	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72189-1

Client Sample ID: 11251-CBP-037I
Date Collected: 09/08/11 15:30
Date Received: 09/09/11 08:19

Lab Sample ID: 680-72189-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			214266	09/09/11 08:33	JKL	TAL SAV
Total/NA	Analysis	7470A		50	214348	09/09/11 14:36	CE	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	214345	09/09/11 15:31	JAL	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Savannah
5102 LaRoche Avenue
Suite 106
Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

09/09/2011

Client Contact	Project Manager:	Site Contact: Kirk Kessler	Date: 9/08/2011	COC No: 30927-11251
Environmental Planning Specialist	Tel/Fax:	Lab Contact: Linda Wolfe	Carrier:	1 of 1 COCs
900 Ashwood Parkway, Suite 350	Analysis Turnaround Time			Job No.
Atlanta, Georgia 30338	RUSH - 24 Hours			
404-315-9113 Phone	~~TAT if different from Below~~			
FAX	~~2 weeks~~			SDG No.
Project Name: Honeywell Brunswick Site	~~1 week~~			
Site: 30927	~~2 days~~			
PO # 4500027786	~~1 day~~			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Mercury (7470A)	pH (SW 4500 H+B)	Sample Specific Notes:
11251-CBP-037I	9/8/2011	15:30	Grab	Water	2	N	X	X	
							4		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification
[X] *Non-Hazard* [ ] *Flammable* [ ] *Skin Irritant* *Poison B* [ ] *Unknown* [ ]

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

Special Instructions/QC Requirements & Comments:

2.0°C 680-72189

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Alvin Jones	CH2M HILL OMI	09/08/2011 - 17:00		Fed Ex	
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by: Eddie Barnett	Company: TA SAV	Date/Time: 09/09/11 0819

Login Sample Receipt Checklist

Client: Environmental Planning Specialists, Inc.

Job Number: 680-72189-1

Login Number: 72189

List Source: TestAmerica Savannah

List Number: 1

Creator: Barnett, Eddie T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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	pH for metals sample is > 2
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.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72189-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	NELAC Secondary AB	3	460161
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

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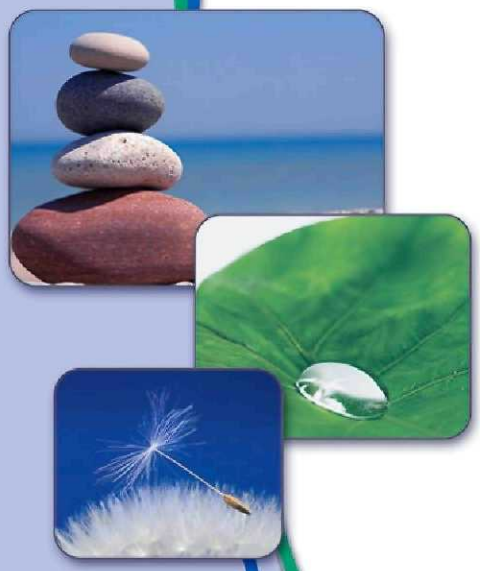
ANALYTICAL REPORT



TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-72308-1
Client Project/Site: Honeywell - Brunswick Site

For:
Environmental Planning Specialists, Inc.
900 Ashwood Parkway
Suite 350
Atlanta, Georgia 30338

Attn: Kirk Kessler

Linda A. Wolfe

Authorized for release by:
09/14/2011 04:42:45 PM

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com

LINKS

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

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Sample Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72308-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-72308-1	11256-CBP-038E	Water	09/13/11 15:30	09/14/11 08:23

Method Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72308-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 4500 H+ B	pH	SM	TAL SAV

Protocol References:

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

Metals

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
U	Indicates the analyte was analyzed for but not detected.

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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit (Dioxin)
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or method detection limit if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72308-1

Client Sample ID: 11256-CBP-038E
Date Collected: 09/13/11 15:30
Date Received: 09/14/11 08:23

Lab Sample ID: 680-72308-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	124		10.0	4.6	ug/L		09/14/11 09:10	09/14/11 14:35	50

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	11.0	HF			SU			09/14/11 09:39	1

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72308-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-214647/1-A
Matrix: Water
Analysis Batch: 214720

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 214647

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		09/14/11 09:10	09/14/11 14:15	1

Lab Sample ID: LCS 680-214647/2-A
Matrix: Water
Analysis Batch: 214720

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 214647

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	2.10		ug/L		84	80 - 120

Lab Sample ID: 680-72278-C-4-D MS
Matrix: Water
Analysis Batch: 214720

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 214647

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.16	J	1.00	0.944	F	ug/L		79	80 - 120

Lab Sample ID: 680-72278-C-4-E MSD
Matrix: Water
Analysis Batch: 214720

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 214647

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.16	J	1.00	1.07		ug/L		92	80 - 120	13	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 680-214662/7
Matrix: Water
Analysis Batch: 214662

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
pH	7.00	7.060		SU		101	63 - 158

Lab Sample ID: 680-72308-1 DU
Matrix: Water
Analysis Batch: 214662

Client Sample ID: 11256-CBP-038E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	11.0	HF	11.02		SU		0	40

QC Association Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72308-1

Metals

Prep Batch: 214647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-72278-C-4-D MS	Matrix Spike	Total/NA	Water	7470A	
680-72278-C-4-E MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	
680-72308-1	11256-CBP-038E	Total/NA	Water	7470A	
LCS 680-214647/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-214647/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 214720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-72278-C-4-D MS	Matrix Spike	Total/NA	Water	7470A	214647
680-72278-C-4-E MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	214647
680-72308-1	11256-CBP-038E	Total/NA	Water	7470A	214647
LCS 680-214647/2-A	Lab Control Sample	Total/NA	Water	7470A	214647
MB 680-214647/1-A	Method Blank	Total/NA	Water	7470A	214647

General Chemistry

Analysis Batch: 214662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-72308-1	11256-CBP-038E	Total/NA	Water	SM 4500 H+ B	
680-72308-1 DU	11256-CBP-038E	Total/NA	Water	SM 4500 H+ B	
LCS 680-214662/7	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72308-1

Client Sample ID: 11256-CBP-038E
Date Collected: 09/13/11 15:30
Date Received: 09/14/11 08:23

Lab Sample ID: 680-72308-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			214647	09/14/11 09:10	JKL	TAL SAV
Total/NA	Analysis	7470A		50	214720	09/14/11 14:35	CE	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	214662	09/14/11 09:39	PAT	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Savannah
5102 LaRoche Avenue
Suite 106
Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

09/14/2011

Client Contact	Project Manager:	Site Contact: Kirk Kessler	Date: 9/13/2011	COC No: 30927-11256
Environmental Planning Specialist	Tel/Fax:	Lab Contact: Linda Wolfe	Carrier:	1 of 1 COCs
900 Ashwood Parkway, Suite 350	Analysis Turnaround Time			Job No.
Atlanta, Georgia 30338	RUSH - 24 Hours			
404-315-9113 Phone	~~TAT if different from Below~~			
FAX	~~2 weeks~~			SDG No.
Project Name: Honeywell Brunswick Site	~~1 week~~			
Site: 30927	~~2 days~~			
PO # 4500027786	~~1 day~~			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Mercury (7470A)	pH (SW 4500 H+B)	Sample Specific Notes:
11256-CBP-038E	9/13/2011	15:30	Grab	Water	2	N	X	X	
							4		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

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

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

Special Instructions/QC Requirements & Comments:

680-72308 4.2°C

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Alvin Jones	CH2M HILL OMI	09/13/2011 - 17:30		Fed Ex	
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by: Debbi Barnett	Company: TTSRV	Date/Time: 09/14/11 0823

Login Sample Receipt Checklist

Client: Environmental Planning Specialists, Inc.

Job Number: 680-72308-1

Login Number: 72308

List Source: TestAmerica Savannah

List Number: 1

Creator: Barnett, Eddie T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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	pH for mercury sample is > 2
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.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72308-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	NELAC Secondary AB	3	460161
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

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

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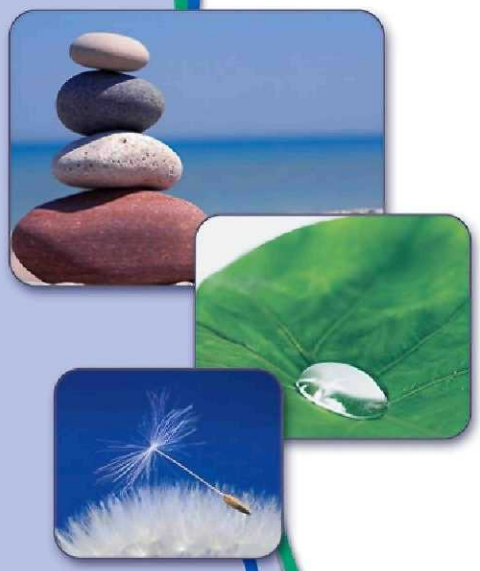
ANALYTICAL REPORT



TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-72382-1
Client Project/Site: Honeywell - Brunswick Site

For:
Environmental Planning Specialists, Inc.
900 Ashwood Parkway
Suite 350
Atlanta, Georgia 30338

Attn: Kirk Kessler

Linda A. Wolfe

Authorized for release by:
09/15/2011 05:00:49 PM

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com

LINKS

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Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72382-1

Job ID: 680-72382-1

Laboratory: TestAmerica Savannah

Narrative

Job Narrative
680-72382-1

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

Metals
Method(s) 7470A: The method blank for preparation batch 214798 contained Mercury above the reporting limit (RL). The associated sample(s) contained detects for this analyte at concentrations greater than 10X the value found in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Sample Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72382-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-72382-1	11257-CBP-039I	Water	09/14/11 15:30	09/15/11 08:46

Method Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72382-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 4500 H+ B	pH	SM	TAL SAV

Protocol References:

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.

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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit (Dioxin)
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or method detection limit if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72382-1

Client Sample ID: 11257-CBP-039I
Date Collected: 09/14/11 15:30
Date Received: 09/15/11 08:46

Lab Sample ID: 680-72382-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	154	B	10.0	4.6	ug/L		09/15/11 10:39	09/15/11 16:23	50

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	11.0	HF			SU			09/15/11 10:01	1

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72382-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-214798/1-A
Matrix: Water
Analysis Batch: 214870

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 214798

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.332		0.20	0.091	ug/L		09/15/11 10:39	09/15/11 16:16	1

Lab Sample ID: LCS 680-214798/2-A
Matrix: Water
Analysis Batch: 214870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 214798

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	2.34		ug/L		94	80 - 120

Lab Sample ID: 680-72375-A-1-D MS
Matrix: Water
Analysis Batch: 214870

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 214798

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.54	B	1.00	1.66		ug/L		112	80 - 120

Lab Sample ID: 680-72375-A-1-E MSD
Matrix: Water
Analysis Batch: 214870

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 214798

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.54	B	1.00	1.48		ug/L		95	80 - 120	11	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 680-214795/1
Matrix: Water
Analysis Batch: 214795

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
pH	7.00	7.060		SU		101	63 - 158

Lab Sample ID: 680-72382-1 DU
Matrix: Water
Analysis Batch: 214795

Client Sample ID: 11257-CBP-039I
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	11.0	HF	10.98		SU		0.09	40

QC Association Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72382-1

Metals

Prep Batch: 214798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-72375-A-1-D MS	Matrix Spike	Total/NA	Water	7470A	
680-72375-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	
680-72382-1	11257-CBP-039I	Total/NA	Water	7470A	
LCS 680-214798/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-214798/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 214870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-72375-A-1-D MS	Matrix Spike	Total/NA	Water	7470A	214798
680-72375-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	214798
680-72382-1	11257-CBP-039I	Total/NA	Water	7470A	214798
LCS 680-214798/2-A	Lab Control Sample	Total/NA	Water	7470A	214798
MB 680-214798/1-A	Method Blank	Total/NA	Water	7470A	214798

General Chemistry

Analysis Batch: 214795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-72382-1	11257-CBP-039I	Total/NA	Water	SM 4500 H+ B	
680-72382-1 DU	11257-CBP-039I	Total/NA	Water	SM 4500 H+ B	
LCS 680-214795/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72382-1

Client Sample ID: 11257-CBP-039I
Date Collected: 09/14/11 15:30
Date Received: 09/15/11 08:46

Lab Sample ID: 680-72382-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			214798	09/15/11 10:39	BR	TAL SAV
Total/NA	Analysis	7470A		50	214870	09/15/11 16:23	CE	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	214795	09/15/11 10:01	PAT	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Savannah
5102 LaRoche Avenue
Suite 106
Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

09/15/2011

Client Contact	Project Manager:	Site Contact: Kirk Kessler	Date: 9/14/2011	COC No: 30927-11257
Environmental Planning Specialist	Tel/Fax:	Lab Contact: Linda Wolfe	Carrier:	1 of 1 COCs
900 Ashwood Parkway, Suite 350	Analysis Turnaround Time			Job No.
Atlanta, Georgia 30338	RUSH - 24 Hours			
404-315-9113 Phone	~~TAT if different from Below~~			
FAX	~~2 weeks~~			SDG No.
Project Name: Honeywell Brunswick Site	~~1 week~~			
Site: 30927	~~2 days~~			
PO # 4500027786	~~1 day~~			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Mercury (7470A)	pH (SW 4500 H+B)	Sample Specific Notes:
11257-CBP-039I	9/14/2011	15:30	Grab	Water	2	N	X	X	
							4		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

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

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

Special Instructions/QC Requirements & Comments:

680 - 12382 4.0°C

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Alvin Jones	CH2M HILL OMI	09/14/2011 - 17:15		Fed Ex	
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:-	Date/Time:	Received by:	Company: TA SAV	Date/Time: 09/15/11 0846

Login Sample Receipt Checklist

Client: Environmental Planning Specialists, Inc.

Job Number: 680-72382-1

Login Number: 72382

List Source: TestAmerica Savannah

List Number: 1

Creator: Barnett, Eddie T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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	pH for mercury sample > 2
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.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72382-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	NELAC Secondary AB	3	460161
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

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

TestAmerica

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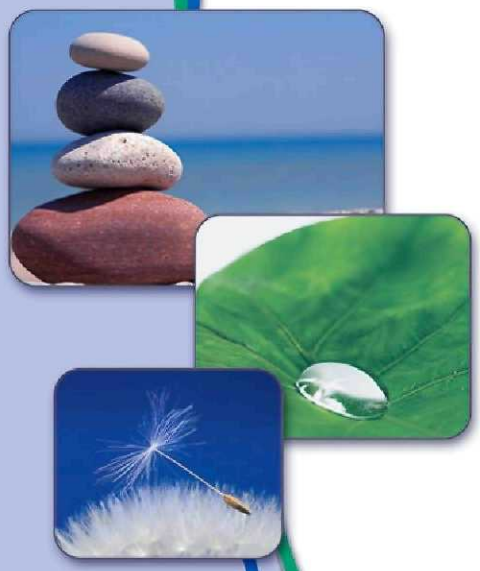
ANALYTICAL REPORT



TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-72529-1
Client Project/Site: Honeywell - Brunswick Site

For:
Environmental Planning Specialists, Inc.
900 Ashwood Parkway
Suite 350
Atlanta, Georgia 30338

Attn: Kirk Kessler

Linda A. Wolfe

Authorized for release by:
09/20/2011 04:25:29 PM

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com

LINKS

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

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Sample Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72529-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-72529-1	11262-CBP-040E	Water	09/19/11 15:30	09/20/11 09:46

Method Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72529-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 4500 H+ B	pH	SM	TAL SAV

Protocol References:

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

Metals

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
B	Compound was found in the blank and sample.

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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit (Dioxin)
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or method detection limit if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72529-1

Client Sample ID: 11262-CBP-040E
Date Collected: 09/19/11 15:30
Date Received: 09/20/11 09:46

Lab Sample ID: 680-72529-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	187	B	10.0	4.6	ug/L		09/20/11 10:09	09/20/11 14:30	50

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	11.0	HF			SU			09/20/11 10:42	1

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72529-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-215185/1-A
Matrix: Water
Analysis Batch: 215254

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 215185

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.267		0.20	0.091	ug/L		09/20/11 10:09	09/20/11 14:23	1

Lab Sample ID: LCS 680-215185/2-A
Matrix: Water
Analysis Batch: 215254

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 215185

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	2.82		ug/L		113	80 - 120

Lab Sample ID: 680-72450-I-2-B MS
Matrix: Water
Analysis Batch: 215254

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 215185

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.20	U	1.00	1.25	F	ug/L		125	80 - 120

Lab Sample ID: 680-72450-I-2-C MSD
Matrix: Water
Analysis Batch: 215254

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 215185

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	1.29	F	ug/L		129	80 - 120	3	20

Method: SM 4500 H+ B - pH

Lab Sample ID: 680-72528-A-1 DU
Matrix: Water
Analysis Batch: 215215

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.96		7.950		SU		0.1	40

QC Association Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72529-1

Metals

Prep Batch: 215185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-72450-I-2-B MS	Matrix Spike	Total/NA	Water	7470A	
680-72450-I-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	
680-72529-1	11262-CBP-040E	Total/NA	Water	7470A	
LCS 680-215185/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-215185/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 215254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-72450-I-2-B MS	Matrix Spike	Total/NA	Water	7470A	215185
680-72450-I-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	215185
680-72529-1	11262-CBP-040E	Total/NA	Water	7470A	215185
LCS 680-215185/2-A	Lab Control Sample	Total/NA	Water	7470A	215185
MB 680-215185/1-A	Method Blank	Total/NA	Water	7470A	215185

General Chemistry

Analysis Batch: 215215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-72528-A-1 DU	Duplicate	Total/NA	Water	SM 4500 H+ B	
680-72529-1	11262-CBP-040E	Total/NA	Water	SM 4500 H+ B	
LCS 680-215215/3	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72529-1

Client Sample ID: 11262-CBP-040E
Date Collected: 09/19/11 15:30
Date Received: 09/20/11 09:46

Lab Sample ID: 680-72529-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			215185	09/20/11 10:09	JKL	TAL SAV
Total/NA	Analysis	7470A		50	215254	09/20/11 14:30	CE	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	215215	09/20/11 10:42	PAT	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Savannah
5102 LaRoche Avenue
Suite 106
Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

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TestAmerica Laboratories, Inc.

09/20/2011

Client Contact	Project Manager:	Site Contact: Kirk Kesster	Date: 9/19/2011	COC No: 30927-11262
Environmental Planning Specialist	Tel/Fax:	Lab Contact: Linda Wolfe	Carrier:	1 of 1 COCs
900 Ashwood Parkway, Suite 350	Analysis Turnaround Time			Job No.
Atlanta, Georgia 30338	RUSH - 24 Hours			
404-315-9113 Phone	~~TAT if different from Below~~			SDG No.
FAX	~~2 weeks~~			
Project Name: Honeywell Brunswick Site	~~1 week~~			
Site: 30927	~~2 days~~			
PO # 4500027786	~~1 day~~			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Mercury (7470A)	pH (SW 4500 H+B)	Sample Specific Notes:
11262-CBP-040E	9/19/2011	15:30	Grab	Water	2	N	X	X	
							4		

Page 10 of 12

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification

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

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

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

Special Instructions/QC Requirements & Comments:

680 - 72529 4.0°C

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Alvin Jones	CH2M HILL OMI	09/19/2011 - 17:30	Eddie Barnett	Fed Ex	
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
				TRSAV	09/20/11 0946
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Login Sample Receipt Checklist

Client: Environmental Planning Specialists, Inc.

Job Number: 680-72529-1

Login Number: 72529

List Source: TestAmerica Savannah

List Number: 1

Creator: Barnett, Eddie T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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	pH for mercury sample is > 2
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.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72529-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
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TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
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TestAmerica Savannah	New Mexico	State Program	6	N/A
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TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

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TestAmerica

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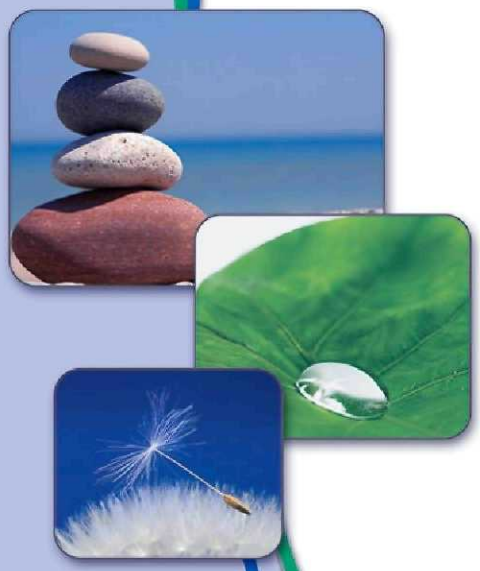
ANALYTICAL REPORT



TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-72667-1
Client Project/Site: Honeywell - Brunswick Site

For:
Environmental Planning Specialists, Inc.
900 Ashwood Parkway
Suite 350
Atlanta, Georgia 30338

Attn: Kirk Kessler

Linda A. Wolfe

Authorized for release by:
09/23/2011 04:01:09 PM

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com

LINKS

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Sample Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72667-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-72667-1	11265-CBP-042E	Water	09/22/11 15:30	09/23/11 08:14

Method Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72667-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 4500 H+ B	pH	SM	TAL SAV

Protocol References:

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72667-1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72667-1

Client Sample ID: 11265-CBP-042E
Date Collected: 09/22/11 15:30
Date Received: 09/23/11 08:14

Lab Sample ID: 680-72667-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	182		10.0	4.6	ug/L		09/23/11 08:39	09/23/11 13:40	50

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	11.0	HF			SU			09/23/11 09:38	1

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72667-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-215528/1-A
Matrix: Water
Analysis Batch: 215626

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 215528

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		09/23/11 08:39	09/23/11 13:34	1

Lab Sample ID: LCS 680-215528/2-A
Matrix: Water
Analysis Batch: 215626

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 215528

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	2.50		ug/L		100	80 - 120

Lab Sample ID: 680-72595-A-1-B MS
Matrix: Water
Analysis Batch: 215626

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 215528

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.20	U	1.00	1.01		ug/L		101	80 - 120

Lab Sample ID: 680-72595-A-1-C MSD
Matrix: Water
Analysis Batch: 215626

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 215528

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	1.07		ug/L		107	80 - 120	6	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 680-215544/7
Matrix: Water
Analysis Batch: 215544

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
pH	7.00	7.080		SU		101	63 - 158

Lab Sample ID: 680-72667-1 DU
Matrix: Water
Analysis Batch: 215544

Client Sample ID: 11265-CBP-042E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	11.0	HF	11.02		SU		0.09	40

QC Association Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72667-1

Metals

Prep Batch: 215528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-72595-A-1-B MS	Matrix Spike	Total/NA	Water	7470A	
680-72595-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	
680-72667-1	11265-CBP-042E	Total/NA	Water	7470A	
LCS 680-215528/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-215528/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 215626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-72595-A-1-B MS	Matrix Spike	Total/NA	Water	7470A	215528
680-72595-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	215528
680-72667-1	11265-CBP-042E	Total/NA	Water	7470A	215528
LCS 680-215528/2-A	Lab Control Sample	Total/NA	Water	7470A	215528
MB 680-215528/1-A	Method Blank	Total/NA	Water	7470A	215528

General Chemistry

Analysis Batch: 215544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-72667-1	11265-CBP-042E	Total/NA	Water	SM 4500 H+ B	
680-72667-1 DU	11265-CBP-042E	Total/NA	Water	SM 4500 H+ B	
LCS 680-215544/7	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72667-1

Client Sample ID: 11265-CBP-042E
Date Collected: 09/22/11 15:30
Date Received: 09/23/11 08:14

Lab Sample ID: 680-72667-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			215528	09/23/11 08:39	JKL	TAL SAV
Total/NA	Analysis	7470A		50	215626	09/23/11 13:40	CE	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	215544	09/23/11 09:38	PAT	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Savannah
5102 LaRoche Avenue
Suite 106
Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

09/23/2011

Client Contact	Project Manager:	Site Contact: Kirk Kessler	Date: 9/22/2011	COC No: 30927-11265
Environmental Planning Specialist	Tel/Fax:	Lab Contact: Linda Wolfe	Carrier:	1 of 1 COCs
900 Ashwood Parkway, Suite 350	Analysis Turnaround Time			Job No.
Atlanta, Georgia 30338	RUSH - 24 Hours			
404-315-9113 Phone	~~TAT if different from Below~~			SDG No.
FAX	~~2 weeks~~			
Project Name: Honeywell Brunswick Site	~~1 week~~			
Site: 30927	~~2 days~~			
PO # 4500027786	~~1 day~~			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Mercury (7470A)	pH (SW 4500 H+B)	Sample Specific Notes:
11265-CBP-042E	9/22/2011	15:30	Grab	Water	2	N	X	X	
							4		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

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

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

Special Instructions/QC Requirements & Comments:

680-72667 4.6 °C

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Alvin Jones	CH2M HILL OMI	09/22/2011 - 17:15		Fed Ex	
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
			Debbi Bennett	JT SAV	09/23/11 0814
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Login Sample Receipt Checklist

Client: Environmental Planning Specialists, Inc.

Job Number: 680-72667-1

Login Number: 72667

List Source: TestAmerica Savannah

List Number: 1

Creator: Barnett, Eddie T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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	Hg sample pH is > 2
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.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72667-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	NELAC Secondary AB	3	460161
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

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

TestAmerica

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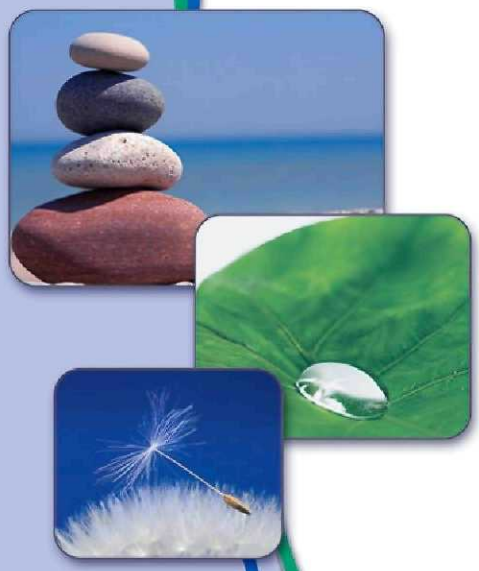
ANALYTICAL REPORT



TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-72741-1
Client Project/Site: Honeywell - Brunswick Site

For:
Environmental Planning Specialists, Inc.
900 Ashwood Parkway
Suite 350
Atlanta, Georgia 30338

Attn: Kirk Kessler

Linda A. Wolfe

Authorized for release by:
09/27/2011 04:27:02 PM

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com

LINKS

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

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Sample Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72741-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-72741-1	11269-CBP-043I	Water	09/26/11 17:00	09/27/11 08:03

Method Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72741-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 4500 H+ B	pH	SM	TAL SAV

Protocol References:

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72741-1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72741-1

Client Sample ID: 11269-CBP-043I
Date Collected: 09/26/11 17:00
Date Received: 09/27/11 08:03

Lab Sample ID: 680-72741-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	148		10.0	4.6	ug/L		09/27/11 08:33	09/27/11 15:05	50

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	10.9	HF			SU			09/27/11 09:43	1

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72741-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-215871/1-A
Matrix: Water
Analysis Batch: 215949

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 215871

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		09/27/11 08:33	09/27/11 14:55	1

Lab Sample ID: LCS 680-215871/2-A
Matrix: Water
Analysis Batch: 215949

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 215871

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	2.41		ug/L		96	80 - 120

Lab Sample ID: LCSD 680-215871/3-A
Matrix: Water
Analysis Batch: 215949

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 215871

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	2.50	2.31		ug/L		92	80 - 120	4	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 680-215890/7
Matrix: Water
Analysis Batch: 215890

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
pH	7.00	7.070		SU		101	63 - 158

Lab Sample ID: 680-72741-1 DU
Matrix: Water
Analysis Batch: 215890

Client Sample ID: 11269-CBP-043I
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	10.9	HF	10.95		SU		0.09	40

QC Association Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72741-1

Metals

Prep Batch: 215871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-72741-1	11269-CBP-043I	Total/NA	Water	7470A	
LCS 680-215871/2-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 680-215871/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	
MB 680-215871/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 215949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-72741-1	11269-CBP-043I	Total/NA	Water	7470A	215871
LCS 680-215871/2-A	Lab Control Sample	Total/NA	Water	7470A	215871
LCSD 680-215871/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	215871
MB 680-215871/1-A	Method Blank	Total/NA	Water	7470A	215871

General Chemistry

Analysis Batch: 215890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-72741-1	11269-CBP-043I	Total/NA	Water	SM 4500 H+ B	
680-72741-1 DU	11269-CBP-043I	Total/NA	Water	SM 4500 H+ B	
LCS 680-215890/7	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72741-1

Client Sample ID: 11269-CBP-043I
Date Collected: 09/26/11 17:00
Date Received: 09/27/11 08:03

Lab Sample ID: 680-72741-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			215871	09/27/11 08:33	JKL	TAL SAV
Total/NA	Analysis	7470A		50	215949	09/27/11 15:05	CE	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	215890	09/27/11 09:43	PAT	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Savannah
5102 LaRoche Avenue
Suite 106
Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
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TestAmerica Laboratories, Inc.

09/27/2011

Client Contact	Project Manager:	Site Contact: Kirk Kessler	Date: 9/26/2011	COC No: 30927-11269
Environmental Planning Specialist	Tel/Fax:	Lab Contact: Linda Wolfe	Carrier:	1 of 1 COCs
900 Ashwood Parkway, Suite 350	**Analysis Turnaround Time**			Job No.
Atlanta, Georgia 30338	RUSH - 24 Hours			
404-315-9113 Phone	~~TAT if different from Below~~			
FAX	~~2 weeks~~			SDG No.
Project Name: Honeywell Brunswick Site	~~1 week~~			
Site: 30927	~~2 days~~			
PO # 4500027786	~~1 day~~			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Mercury (7470A)	pH (SW 4500 H+B)	Sample Specific Notes:
11269-CBP-043I	9/26/2011	17:00	Grab	Water	2	N	X	X	
							4		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification
[X] *Non-Hazard* [ ] *Flammable* [ ] *Skin Irritant* *Poison B* [ ] *Unknown* [ ]

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

Special Instructions/QC Requirements & Comments:

2.6°C 680-72741

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Alvin Jones	CH2M HILL OMI	09/26/2011 - 17:30		Fed Ex	
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by: Eddi Bennett	Company: TA STL	Date/Time: 09/27/11 0803

Login Sample Receipt Checklist

Client: Environmental Planning Specialists, Inc.

Job Number: 680-72741-1

Login Number: 72741

List Source: TestAmerica Savannah

List Number: 1

Creator: Barnett, Eddie T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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	pH of Hg sample is > 2
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.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

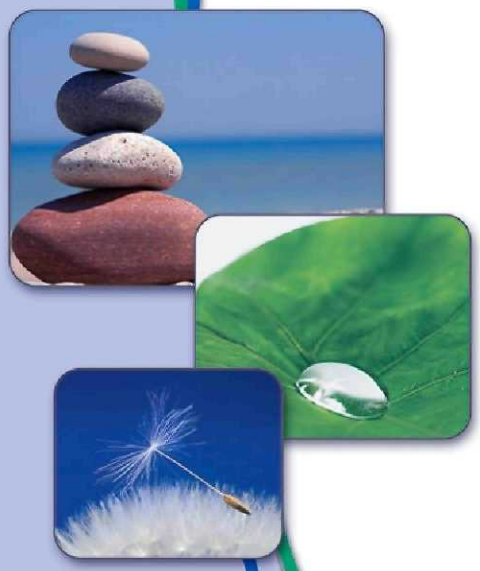
TestAmerica Job ID: 680-72741-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	NELAC Secondary AB	3	460161
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-72776-1
Client Project/Site: Honeywell - Brunswick Site

For:
Environmental Planning Specialists, Inc.
900 Ashwood Parkway
Suite 350
Atlanta, Georgia 30338

Attn: Kirk Kessler

Authorized for release by:
09/28/2011 04:33:20 PM
Abbie Yant
Project Manager I
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Designee for

Linda Wolfe
Project Manager I
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LINKS

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

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Job ID: 680-72776-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Environmental Planning Specialists, Inc.

Project: Honeywell - Brunswick Site

Report Number: 680-72776-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 09/28/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.8 C.

TOTAL MERCURY

Sample 11270-CBP-044E (680-72776-1) was analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 09/28/2011.

Sample 11270-CBP-044E (680-72776-1)[50X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

CORROSIVITY (PH)

Sample 11270-CBP-044E (680-72776-1) was analyzed for corrosivity (pH) in accordance with SM 4500 H+ B. The samples were analyzed on 09/28/2011.

This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. This sample(s) was performed in the laboratory outside the 15 minute timeframe.

No difficulties were encountered during the pH analysis.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72776-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-72776-1	11270-CBP-044E	Water	09/27/11 16:00	09/28/11 07:58

Method Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72776-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 4500 H+ B	pH	SM	TAL SAV

Protocol References:

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72776-1

Client Sample ID: 11270-CBP-044E
Date Collected: 09/27/11 16:00
Date Received: 09/28/11 07:58

Lab Sample ID: 680-72776-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	159		10.0	4.6	ug/L		09/28/11 10:14	09/28/11 14:16	50

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	10.9	HF			SU			09/28/11 09:40	1

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72776-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-216007/1-A
Matrix: Water
Analysis Batch: 216090

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216007

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		09/28/11 10:14	09/28/11 14:06	1

Lab Sample ID: LCS 680-216007/2-A
Matrix: Water
Analysis Batch: 216090

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216007

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	2.48		ug/L		99	80 - 120

Lab Sample ID: LCSD 680-216007/3-A
Matrix: Water
Analysis Batch: 216090

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 216007

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	2.50	2.43		ug/L		97	80 - 120	2	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 680-216005/7
Matrix: Water
Analysis Batch: 216005

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
pH	7.00	7.030		SU		100	63 - 158

Lab Sample ID: 680-72776-1 DU
Matrix: Water
Analysis Batch: 216005

Client Sample ID: 11270-CBP-044E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	10.9	HF	10.95		SU		0.09	40

QC Association Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72776-1

Metals

Prep Batch: 216007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-72776-1	11270-CBP-044E	Total/NA	Water	7470A	
LCS 680-216007/2-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 680-216007/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	
MB 680-216007/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 216090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-72776-1	11270-CBP-044E	Total/NA	Water	7470A	216007
LCS 680-216007/2-A	Lab Control Sample	Total/NA	Water	7470A	216007
LCSD 680-216007/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	216007
MB 680-216007/1-A	Method Blank	Total/NA	Water	7470A	216007

General Chemistry

Analysis Batch: 216005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-72776-1	11270-CBP-044E	Total/NA	Water	SM 4500 H+ B	
680-72776-1 DU	11270-CBP-044E	Total/NA	Water	SM 4500 H+ B	
LCS 680-216005/7	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72776-1

Client Sample ID: 11270-CBP-044E
Date Collected: 09/27/11 16:00
Date Received: 09/28/11 07:58

Lab Sample ID: 680-72776-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			216007	09/28/11 10:14	BR	TAL SAV
Total/NA	Analysis	7470A		50	216090	09/28/11 14:16	CE	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	216005	09/28/11 09:40	PAT	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Savannah
5102 LaRoche Avenue
Suite 106
Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

09/28/2011

Client Contact	Project Manager:	Site Contact: Kirk Kessler	Date: 9/27/2011	COC No: 30927-11270
Environmental Planning Specialist	Tel/Fax:	Lab Contact: Linda Wolfe	Carrier:	1 of 1 COCs
900 Ashwood Parkway, Suite 350	**Analysis Turnaround Time**			Job No.
Atlanta, Georgia 30338	RUSH - 24 Hours			
404-315-9113 Phone	~~TAT if different from Below~~			
FAX	~~2 weeks~~			SDG No.
Project Name: Honeywell Brunswick Site	~~1 week~~			
Site: 30927	~~2 days~~			
PO # 4500027786	~~1 day~~			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Mercury (7470A)	pH (SW 4500 H+B)	Sample Specific Notes:
11270-CBP-044E	9/27/2011	16:00	Grab	Water	2	N	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other — 4

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

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

Special Instructions/QC Requirements & Comments:

680-72776 2.8 °C

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Alvin Jones	CH2M HILL OMI	09/27/2011 - 17:30		Fed Ex	
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by: Eddie Barnett	Company: TA SAV	Date/Time: 09/28/11 0758

Login Sample Receipt Checklist

Client: Environmental Planning Specialists, Inc.

Job Number: 680-72776-1

Login Number: 72776

List Source: TestAmerica Savannah

List Number: 1

Creator: Barnett, Eddie T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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	pH of Hg sample is > 2
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.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72776-1

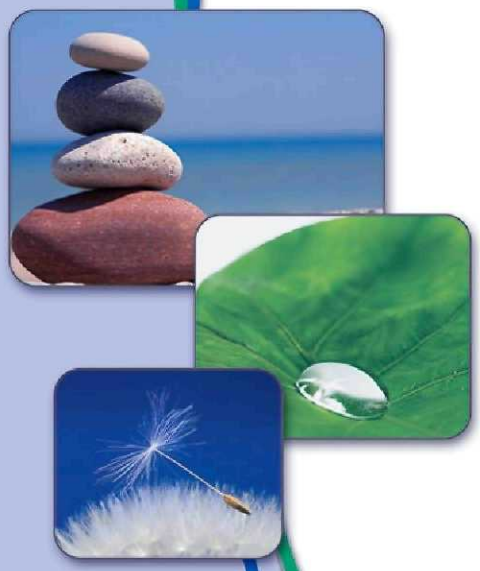
Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	NELAC Secondary AB	3	460161
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT



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TestAmerica Job ID: 680-72970-1
Client Project/Site: Honeywell - Brunswick Site

For:
Environmental Planning Specialists, Inc.
900 Ashwood Parkway
Suite 350
Atlanta, Georgia 30338

Attn: Kirk Kessler

Linda A. Wolfe

Authorized for release by:
10/04/2011 04:37:24 PM

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com

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Sample Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72970-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-72970-1	11276-CBP-046E	Water	10/03/11 15:25	10/04/11 09:15

Method Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72970-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 4500 H+ B	pH	SM	TAL SAV

Protocol References:

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72970-1

Client Sample ID: 11276-CBP-046E
Date Collected: 10/03/11 15:25
Date Received: 10/04/11 09:15

Lab Sample ID: 680-72970-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	165		10.0	4.6	ug/L		10/04/11 10:03	10/04/11 15:43	50

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	11.0	HF			SU			10/04/11 10:22	1

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72970-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-216500/1-A
Matrix: Water
Analysis Batch: 216640

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216500

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		10/04/11 10:03	10/04/11 15:36	1

Lab Sample ID: LCS 680-216500/2-A
Matrix: Water
Analysis Batch: 216640

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216500

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	2.51		ug/L		100	80 - 120

Lab Sample ID: 680-72754-H-5-E MS
Matrix: Water
Analysis Batch: 216640

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 216500

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.20	U	1.00	1.01		ug/L		101	80 - 120

Lab Sample ID: 680-72754-H-5-F MSD
Matrix: Water
Analysis Batch: 216640

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 216500

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	0.921		ug/L		92	80 - 120	9	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 680-216572/5
Matrix: Water
Analysis Batch: 216572

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
pH	7.00	7.030		SU		100	63 - 158

Lab Sample ID: 680-72970-1 DU
Matrix: Water
Analysis Batch: 216572

Client Sample ID: 11276-CBP-046E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	11.0	HF	11.02		SU		0.3	40

QC Association Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72970-1

Metals

Prep Batch: 216500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-72754-H-5-E MS	Matrix Spike	Total/NA	Water	7470A	
680-72754-H-5-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	
680-72970-1	11276-CBP-046E	Total/NA	Water	7470A	
LCS 680-216500/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-216500/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 216640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-72754-H-5-E MS	Matrix Spike	Total/NA	Water	7470A	216500
680-72754-H-5-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	216500
680-72970-1	11276-CBP-046E	Total/NA	Water	7470A	216500
LCS 680-216500/2-A	Lab Control Sample	Total/NA	Water	7470A	216500
MB 680-216500/1-A	Method Blank	Total/NA	Water	7470A	216500

General Chemistry

Analysis Batch: 216572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-72970-1	11276-CBP-046E	Total/NA	Water	SM 4500 H+ B	
680-72970-1 DU	11276-CBP-046E	Total/NA	Water	SM 4500 H+ B	
LCS 680-216572/5	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72970-1

Client Sample ID: 11276-CBP-046E
Date Collected: 10/03/11 15:25
Date Received: 10/04/11 09:15

Lab Sample ID: 680-72970-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			216500	10/04/11 10:03	JKL	TAL SAV
Total/NA	Analysis	7470A		50	216640	10/04/11 15:43	CE	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	216572	10/04/11 10:22	PAT	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Savannah
5102 LaRoche Avenue
Suite 106
Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager:	Site Contact: Kirk Kessler	Date: 10/03/2011	COC No: 30927-11276
Environmental Planning Specialist	Tel/Fax:	Lab Contact: Linda Wolfe	Carrier:	1 of 1 COCs
900 Ashwood Parkway, Suite 350	Analysis Turnaround Time			Job No.
Atlanta, Georgia 30338	RUSH - 24 Hours			
404-315-9113 Phone	~~TAT if different from Below~~			SDG No.
FAX	~~2 weeks~~			
Project Name: Honeywell Brunswick Site	~~1 week~~			
Site: 30927	~~2 days~~			
PO # 4500027786	~~1 day~~			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Mercury (7470A)	pH (SW 4500 H+B)	Sample Specific Notes:
11276-CBP-046E	10/3/2011	15:25	Grab	Water	2	N	X	X	
							4		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification
[X] Non-Hazard [ ] Flammable [ ] Skin Irritant Poison B [ ] Unknown [ ]

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

Special Instructions/QC Requirements & Comments:

680-72470

2.6 °C

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Alvin Jones	CH2M HILL OMI	10/03/2011 - 17:30		Fed Ex	
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by: Leslie Isaacs	Company: TA SAV	Date/Time: 10/04/11 0915

10/04/2011

Login Sample Receipt Checklist

Client: Environmental Planning Specialists, Inc.

Job Number: 680-72970-1

Login Number: 72970

List Source: TestAmerica Savannah

List Number: 1

Creator: Barnett, Eddie T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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	pH of Hg sample > 2
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.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-72970-1

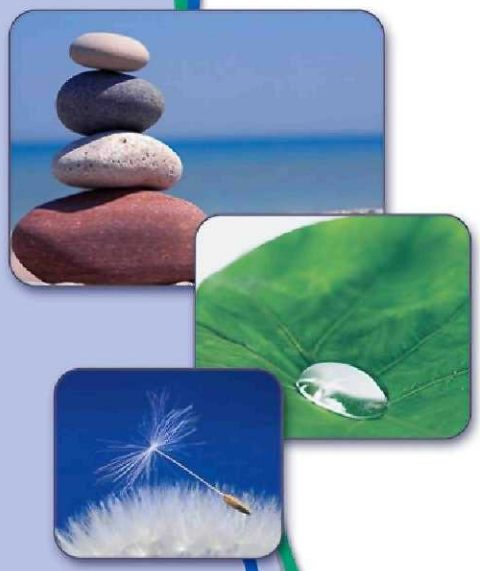
Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Oklahoma	State Program	6	9984
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	NELAC Secondary AB	3	460161
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT



TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-73010-1
Client Project/Site: Honeywell - Brunswick Site

For:
Environmental Planning Specialists, Inc.
900 Ashwood Parkway
Suite 350
Atlanta, Georgia 30338

Attn: Kirk Kessler

Linda A. Wolfe

Authorized for release by:
10/05/2011 04:19:45 PM

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com

LINKS

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

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Sample Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-73010-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-73010-1	11277-CBP-047I	Water	10/04/11 15:35	10/05/11 07:59

Method Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-73010-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 4500 H+ B	pH	SM	TAL SAV

Protocol References:

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-73010-1

Client Sample ID: 11277-CBP-047I
Date Collected: 10/04/11 15:35
Date Received: 10/05/11 07:59

Lab Sample ID: 680-73010-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	161		10.0	4.6	ug/L		10/05/11 07:59	10/05/11 14:18	50

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	11.1	HF			SU			10/05/11 09:10	1

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-73010-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-216660/1-A
Matrix: Water
Analysis Batch: 216787

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216660

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		10/05/11 07:59	10/05/11 14:11	1

Lab Sample ID: LCS 680-216660/2-A
Matrix: Water
Analysis Batch: 216787

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216660

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	2.52		ug/L		101	80 - 120

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 680-216685/7
Matrix: Water
Analysis Batch: 216685

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
pH	7.00	7.060		SU		101	63 - 158

Lab Sample ID: 680-73010-1 DU
Matrix: Water
Analysis Batch: 216685

Client Sample ID: 11277-CBP-047I
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	11.1	HF	11.07		SU		0.09	40

QC Association Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-73010-1

Metals

Prep Batch: 216660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-73010-1	11277-CBP-047I	Total/NA	Water	7470A	
LCS 680-216660/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-216660/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 216787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-73010-1	11277-CBP-047I	Total/NA	Water	7470A	216660
LCS 680-216660/2-A	Lab Control Sample	Total/NA	Water	7470A	216660
MB 680-216660/1-A	Method Blank	Total/NA	Water	7470A	216660

General Chemistry

Analysis Batch: 216685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-73010-1	11277-CBP-047I	Total/NA	Water	SM 4500 H+ B	
680-73010-1 DU	11277-CBP-047I	Total/NA	Water	SM 4500 H+ B	
LCS 680-216685/7	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-73010-1

Client Sample ID: 11277-CBP-047I
Date Collected: 10/04/11 15:35
Date Received: 10/05/11 07:59

Lab Sample ID: 680-73010-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			216660	10/05/11 07:59	JKL	TAL SAV
Total/NA	Analysis	7470A		50	216787	10/05/11 14:18	CE	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	216685	10/05/11 09:10	PAT	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Savannah
5102 LaRoche Avenue
Suite 106
Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

10/05/2011

Client Contact	Project Manager:	Site Contact: Kirk Kessler	Date: 10/04/2011	COC No: 30927-11277
Environmental Planning Specialist	Tel/Fax:	Lab Contact: Linda Wolfe	Carrier:	1 of 1 COCs
900 Ashwood Parkway, Suite 350	Analysis Turnaround Time			Job No.
Atlanta, Georgia 30338	RUSH - 24 Hours			
404-315-9113 Phone	~~TAT if different from Below~~			SDG No.
FAX	~~2 weeks~~			
Project Name: Honeywell Brunswick Site	~~1 week~~			
Site: 30927	~~2 days~~			
PO # 4500027786	~~1 day~~			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Mercury (7470A)	pH (SW 4500 H+B)	Sample Specific Notes:
11277-CBP-047I	10/4/2011	15:35	Grab	Water	2	N	X	X	
							4		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification
[X] Non-Hazard [ ] Flammable [ ] Skin Irritant Poison B [ ] Unknown [ ]

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

Special Instructions/QC Requirements & Comments:

680 - 73010 2.4°C

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Alvin Jones	CH2M HILL OMI	10/04/2011 - 17:30		Fed Ex	
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by: Linda Burnett	Company: TASAV	Date/Time: 10/05/11 0759

Login Sample Receipt Checklist

Client: Environmental Planning Specialists, Inc.

Job Number: 680-73010-1

Login Number: 73010

List Source: TestAmerica Savannah

List Number: 1

Creator: Barnett, Eddie T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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	pH of Hg sample > 2
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.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-73010-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Oklahoma	State Program	6	9984
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
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TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	NELAC Secondary AB	3	460161
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

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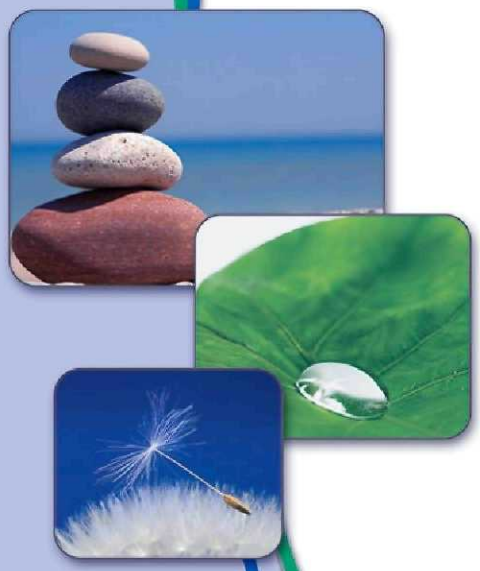
TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-73121-1
Client Project/Site: Honeywell - Brunswick Site

For:
Environmental Planning Specialists, Inc.
900 Ashwood Parkway
Suite 350
Atlanta, Georgia 30338

Attn: Kirk Kessler

Linda A. Wolfe

Authorized for release by:
10/07/2011 04:39:47 PM

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com

LINKS

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

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Case Narrative

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-73121-1

Job ID: 680-73121-1

Laboratory: TestAmerica Savannah

Narrative

Job Narrative
680-73121-1

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

Metals
Method(s) 7470A: The LCS recovery was 121% , the upper limit is 120%. A batch MS/MSD was performed and recovered at 120% and 117%. The data is reported and qualified.

Sample Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-73121-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-73121-1	11279-CBP-048E	Water	10/06/11 15:30	10/07/11 08:28

Method Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-73121-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 4500 H+ B	pH	SM	TAL SAV

Protocol References:

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Definitions/Glossary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-73121-1

Qualifiers

Metals

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
U	Indicates the analyte was analyzed for but not detected.

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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-73121-1

Client Sample ID: 11279-CBP-048E
Date Collected: 10/06/11 15:30
Date Received: 10/07/11 08:28

Lab Sample ID: 680-73121-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	147	*	10.0	4.6	ug/L		10/07/11 08:38	10/07/11 15:51	50

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	11.0	HF			SU			10/07/11 09:14	1

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-73121-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-216961/1-A
Matrix: Water
Analysis Batch: 217068

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216961

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		10/07/11 08:38	10/07/11 15:45	1

Lab Sample ID: LCS 680-216961/2-A
Matrix: Water
Analysis Batch: 217068

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216961

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	3.02	*	ug/L		121	80 - 120

Lab Sample ID: 680-73016-E-25-B MS
Matrix: Water
Analysis Batch: 217068

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 216961

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.20	U *	1.00	1.20		ug/L		120	80 - 120

Lab Sample ID: 680-73016-E-25-C MSD
Matrix: Water
Analysis Batch: 217068

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 216961

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.20	U *	1.00	1.17		ug/L		117	80 - 120	2	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 680-217006/1
Matrix: Water
Analysis Batch: 217006

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
pH	7.00	7.060		SU		101	63 - 158

Lab Sample ID: 680-73062-D-3 DU
Matrix: Water
Analysis Batch: 217006

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.79		7.810		SU		0.3	40

QC Association Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-73121-1

Metals

Prep Batch: 216961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-73016-E-25-B MS	Matrix Spike	Total/NA	Water	7470A	
680-73016-E-25-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	
680-73121-1	11279-CBP-048E	Total/NA	Water	7470A	
LCS 680-216961/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-216961/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 217068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-73016-E-25-B MS	Matrix Spike	Total/NA	Water	7470A	216961
680-73016-E-25-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	216961
680-73121-1	11279-CBP-048E	Total/NA	Water	7470A	216961
LCS 680-216961/2-A	Lab Control Sample	Total/NA	Water	7470A	216961
MB 680-216961/1-A	Method Blank	Total/NA	Water	7470A	216961

General Chemistry

Analysis Batch: 217006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-73062-D-3 DU	Duplicate	Total/NA	Water	SM 4500 H+ B	
680-73121-1	11279-CBP-048E	Total/NA	Water	SM 4500 H+ B	
LCS 680-217006/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-73121-1

Client Sample ID: 11279-CBP-048E
Date Collected: 10/06/11 15:30
Date Received: 10/07/11 08:28

Lab Sample ID: 680-73121-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			216961	10/07/11 08:38	JKL	TAL SAV
Total/NA	Analysis	7470A		50	217068	10/07/11 15:51	CE	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	217006	10/07/11 09:14	PAT	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Savannah
5102 LaRoche Avenue
Suite 106
Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager:	Site Contact: Kirk Kessler	Date: 10/06/2011	COC No: 30927-11279
Environmental Planning Specialist	Tel/Fax:	Lab Contact: Linda Wolfe	Carrier:	1 of 1 COCs
900 Ashwood Parkway, Suite 350	**Analysis Turnaround Time**			Job No.
Atlanta, Georgia 30338	RUSH - 24 Hours			
404-315-9113 Phone	~~TAT if different from Below~~			SDG No.
FAX	~~2 weeks~~			
Project Name: Honeywell Brunswick Site	~~1 week~~			
Site: 30927	~~2 days~~			
PO # 4500027786	~~1 day~~			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Mercury (7470A)	pH (SW 4500 H+B)	Sample Specific Notes:
11279-CBP-048E	10/6/2011	15:30	Grab	Water	2	N	X	X	
								4	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

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

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

Special Instructions/QC Requirements & Comments:

2.6°C 680 - 73121

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Alvin Jones	CH2M HILL OMI	10/06/2011 - 17:20		Fed Ex	
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
				TA-STL	10/06/11 0828

10/07/2011

Login Sample Receipt Checklist

Client: Environmental Planning Specialists, Inc.

Job Number: 680-73121-1

Login Number: 73121

List Source: TestAmerica Savannah

List Number: 1

Creator: Barnett, Eddie T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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	pH of Hg sample is > 2
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.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

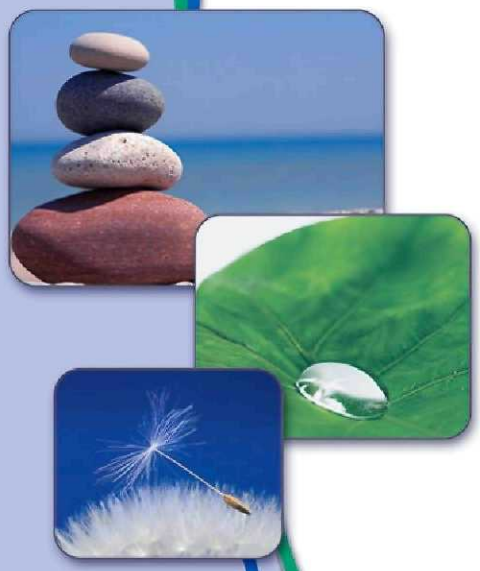
TestAmerica Job ID: 680-73121-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Oklahoma	State Program	6	9984
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	NELAC Secondary AB	3	460161
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-73206-1
Client Project/Site: Honeywell - Brunswick Site

For:
Environmental Planning Specialists, Inc.
900 Ashwood Parkway
Suite 350
Atlanta, Georgia 30338

Attn: Kirk Kessler

Linda A. Wolfe

Authorized for release by:
10/11/2011 03:58:36 PM

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com

LINKS

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

Table of Contents

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Sample Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-73206-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-73206-1	11283-CBP-049I	Water	10/10/11 16:00	10/11/11 08:24

Method Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-73206-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 4500 H+ B	pH	SM	TAL SAV

Protocol References:

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-73206-1

Client Sample ID: 11283-CBP-049I
Date Collected: 10/10/11 16:00
Date Received: 10/11/11 08:24

Lab Sample ID: 680-73206-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	122		10.0	4.6	ug/L		10/11/11 10:20	10/11/11 14:54	50

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	11.1	HF			SU			10/11/11 09:14	1

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-73206-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-217241/1-A
Matrix: Water
Analysis Batch: 217372

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217241

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		10/11/11 10:20	10/11/11 14:46	1

Lab Sample ID: LCS 680-217241/2-A
Matrix: Water
Analysis Batch: 217372

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217241

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	2.41		ug/L		96	80 - 120

Lab Sample ID: 680-73070-A-13-B MS
Matrix: Water
Analysis Batch: 217372

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 217241

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.20	U	1.00	0.956		ug/L		96	80 - 120

Lab Sample ID: 680-73070-A-13-C MSD
Matrix: Water
Analysis Batch: 217372

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 217241

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	0.930		ug/L		93	80 - 120	3	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 680-217286/7
Matrix: Water
Analysis Batch: 217286

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
pH	7.00	7.080		SU		101	63 - 158

Lab Sample ID: 680-73206-1 DU
Matrix: Water
Analysis Batch: 217286

Client Sample ID: 11283-CBP-049I
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	11.1	HF	11.08		SU		0	40

QC Association Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-73206-1

Metals

Prep Batch: 217241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-73070-A-13-B MS	Matrix Spike	Total/NA	Water	7470A	
680-73070-A-13-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	
680-73206-1	11283-CBP-049I	Total/NA	Water	7470A	
LCS 680-217241/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-217241/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 217372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-73070-A-13-B MS	Matrix Spike	Total/NA	Water	7470A	217241
680-73070-A-13-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	217241
680-73206-1	11283-CBP-049I	Total/NA	Water	7470A	217241
LCS 680-217241/2-A	Lab Control Sample	Total/NA	Water	7470A	217241
MB 680-217241/1-A	Method Blank	Total/NA	Water	7470A	217241

General Chemistry

Analysis Batch: 217286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-73206-1	11283-CBP-049I	Total/NA	Water	SM 4500 H+ B	
680-73206-1 DU	11283-CBP-049I	Total/NA	Water	SM 4500 H+ B	
LCS 680-217286/7	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-73206-1

Client Sample ID: 11283-CBP-049I
Date Collected: 10/10/11 16:00
Date Received: 10/11/11 08:24

Lab Sample ID: 680-73206-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			217241	10/11/11 10:20	JKL	TAL SAV
Total/NA	Analysis	7470A		50	217372	10/11/11 14:54	CE	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	217286	10/11/11 09:14	PAT	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Savannah
5102 LaRoche Avenue
Suite 106
Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager:	Site Contact: Kirk Kessler	Date: 10/10/2011	COC No: 30927-11283
Environmental Planning Specialist	Tel/Fax:	Lab Contact: Linda Wolfe	Carrier:	1 of 1 COCs
900 Ashwood Parkway, Suite 350	Analysis Turnaround Time			Job No.
Atlanta, Georgia 30338	RUSH - 24 Hours			
404-315-9113 Phone	~~TAT if different from Below~~			SDG No.
FAX	~~2 weeks~~			-
Project Name: Honeywell Brunswick Site	~~1 week~~			
Site: 30927	~~2 days~~			
PO # 4500027786	~~1 day~~			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Mercury (7470A)	pH (SW 4500 H+B)	Sample Specific Notes:
11283-CBP-0491	10-10-11 ########	16:00	Grab	Water	2	N	X	X	
							4		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

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

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

Special Instructions/QC Requirements & Comments:

680 - 73206 1.0°C

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Richard G Gregory	CH2M HILL OMI	10/10/2011 - 17:30		Fed Ex	
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by: Debbie Barrett	Company: TA STL	Date/Time: 10/11/11 0824

10/11/2011

Login Sample Receipt Checklist

Client: Environmental Planning Specialists, Inc.

Job Number: 680-73206-1

Login Number: 73206

List Source: TestAmerica Savannah

List Number: 1

Creator: Barnett, Eddie T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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	pH of Hg sample > 2
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.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-73206-1

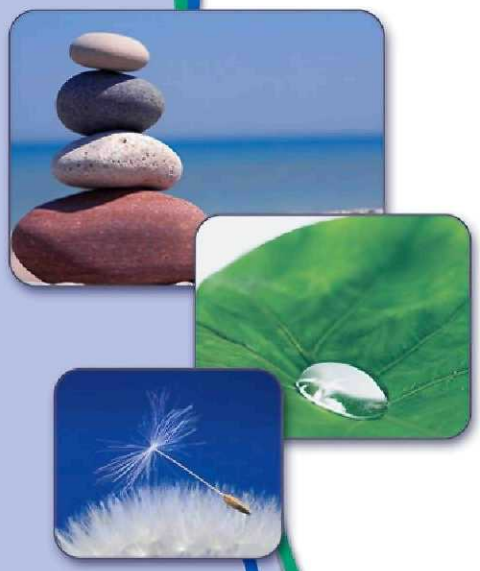
Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Oklahoma	State Program	6	9984
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	NELAC Secondary AB	3	460161
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT



TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-73240-1
Client Project/Site: Honeywell - Brunswick Site

For:
Environmental Planning Specialists, Inc.
900 Ashwood Parkway
Suite 350
Atlanta, Georgia 30338

Attn: Kirk Kessler

Linda A. Wolfe

Authorized for release by:
10/12/2011 03:33:27 PM

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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Sample Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-73240-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-73240-1	11284-CBP-050E	Water	10/11/11 15:45	10/12/11 08:09

Method Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-73240-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 4500 H+ B	pH	SM	TAL SAV

Protocol References:

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-73240-1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-73240-1

Client Sample ID: 11284-CBP-050E
Date Collected: 10/11/11 15:45
Date Received: 10/12/11 08:09

Lab Sample ID: 680-73240-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	114		10.0	4.6	ug/L		10/12/11 09:02	10/12/11 14:19	50

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	11.0	HF			SU			10/12/11 09:43	1

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-73240-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-217409/1-A
Matrix: Water
Analysis Batch: 217507

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217409

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		10/12/11 09:02	10/12/11 14:13	1

Lab Sample ID: LCS 680-217409/2-A
Matrix: Water
Analysis Batch: 217507

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217409

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	2.42		ug/L		97	80 - 120

Lab Sample ID: 680-73212-E-1-B MS
Matrix: Water
Analysis Batch: 217507

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 217409

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.20	U	1.00	1.02		ug/L		102	80 - 120

Lab Sample ID: 680-73212-E-1-C MSD
Matrix: Water
Analysis Batch: 217507

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 217409

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	1.02		ug/L		102	80 - 120	1	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 680-217425/7
Matrix: Water
Analysis Batch: 217425

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
pH	7.00	7.060		SU		101	63 - 158

Lab Sample ID: 680-73240-1 DU
Matrix: Water
Analysis Batch: 217425

Client Sample ID: 11284-CBP-050E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	11.0	HF	11.01		SU		0	40

QC Association Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-73240-1

Metals

Prep Batch: 217409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-73212-E-1-B MS	Matrix Spike	Total/NA	Water	7470A	
680-73212-E-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	
680-73240-1	11284-CBP-050E	Total/NA	Water	7470A	
LCS 680-217409/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-217409/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 217507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-73212-E-1-B MS	Matrix Spike	Total/NA	Water	7470A	217409
680-73212-E-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	217409
680-73240-1	11284-CBP-050E	Total/NA	Water	7470A	217409
LCS 680-217409/2-A	Lab Control Sample	Total/NA	Water	7470A	217409
MB 680-217409/1-A	Method Blank	Total/NA	Water	7470A	217409

General Chemistry

Analysis Batch: 217425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-73240-1	11284-CBP-050E	Total/NA	Water	SM 4500 H+ B	
680-73240-1 DU	11284-CBP-050E	Total/NA	Water	SM 4500 H+ B	
LCS 680-217425/7	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-73240-1

Client Sample ID: 11284-CBP-050E
Date Collected: 10/11/11 15:45
Date Received: 10/12/11 08:09

Lab Sample ID: 680-73240-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			217409	10/12/11 09:02	JKL	TAL SAV
Total/NA	Analysis	7470A		50	217507	10/12/11 14:19	CE	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	217425	10/12/11 09:43	PAT	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Savannah
5102 LaRoche Avenue
Suite 106
Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager:	Site Contact: Kirk Kessler	Date: 10/11/2011	COC No: 30927-11284
Environmental Planning Specialist	Tel/Fax:	Lab Contact: Linda Wolfe	Carrier:	1 of 1 COCs
900 Ashwood Parkway, Suite 350	Analysis Turnaround Time			Job No.
Atlanta, Georgia 30338	RUSH - 24 Hours			
404-315-9113 Phone	~~TAT if different from Below~~			SDG No.
FAX	~~2 weeks~~			-
Project Name: Honeywell Brunswick Site	~~1 week~~			
Site: 30927	~~2 days~~			
PO # 4500027786	~~1 day~~			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Mercury (7470A)	pH (SW 4500 H+B)	Sample Specific Notes:
11284-CBP-050E	10/11/11	15:45	Grab	Water	2	N	X	X	
							4		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification

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

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

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

Special Instructions/QC Requirements & Comments:

680 – 73240 4.3°C

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Richard B Gregory	CH2M HILL OMI	10/11/2011 - 17:30		Fed Ex	
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by: Debbie Burnett	Company: TA SAV	Date/Time: 10/12/11 0809

10/12/2011

Login Sample Receipt Checklist

Client: Environmental Planning Specialists, Inc.

Job Number: 680-73240-1

Login Number: 73240

List Source: TestAmerica Savannah

List Number: 1

Creator: Barnett, Eddie T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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	pH of Hg sample is > 2
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.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Environmental Planning Specialists, Inc.
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-73240-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Oklahoma	State Program	6	9984
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	NELAC Secondary AB	3	460161
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

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APPENDIX B.3

JEA DISCHARGE PERMIT FOR WRI AND WRI PROJECT REPORT

Attachment

JEA Industrial Pretreatment Categorical Industrial User Discharge Permit #099

Water Recovery, LLC
1819 Albert Street
Jacksonville, FL 32202
904-475-9320
www.wrijax.com

- As per the monitoring requirements of our discharge permit, a flow proportional autosampler was employed to collect a composite sample for analysis by our contract NELAP Certified laboratory (Advanced Environmental Laboratories, Inc.)
- At the request of Environmental Planning Specialists, Inc, a split of our composite discharge sample was also prepared for submission to Columbia Analytical Services for evaluation
- Water Recovery, LLC has received and reviewed the analytical data reported from both Advanced Environmental Laboratories, Inc. and Columbia Analytical Services on the composite sample form our discharge event, November 16, 2010
- The were absolutely no violations of our discharge permit parameters
- WRI plant management and technical staff concur that our CWT is capable of treatment and disposal of the contaminated groundwater from the LCP Chemicals site in Brunswick, Georgia

Discussion

After reviewing the results of the scale evaluation, WRI projects that our CWT would be capable of treatment and disposal of an annual volume of 2 million gallons. This annual volume estimate is based on the nature and composition of the material as delivered for the scale evaluation. Given the possibility that the nature and composition of the groundwater may change, and also the potential extension of technical treatment capabilities of the CWT, the annual treatment and disposal capacity of WRI could range from 1 million to 4 million gallons.

Sincerely,

Gregory G. Reynolds
Vice President and General Manager
Water Recovery, LLC

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Self-monitoring Report Forms	Appendix A
Notification Forms	Appendix B
Informational Handouts	Appendix C

Industrial Pretreatment

CATEGORICAL
INDUSTRIAL USER DISCHARGE PERMIT #099

In accordance with the provisions of JEA's *Industrial Pretreatment Regulation*:

Water Recovery, LLC.
(hereinafter referred to as "Permittee"), located at
1819 Albert Street

is hereby authorized to discharge industrial wastewater from the above location into the District I (Buckman) Publicly Owned Treatment Works (POTW), in accordance with the conditions set forth in this permit. Compliance with this permit does not relieve Permittee of its obligation to comply with any or all applicable pretreatment regulations, standards or requirements under local, State and Federal laws, including any such regulations, standards, requirements, or laws that may become effective during the term of this permit. Noncompliance with any term or condition of this permit shall constitute a violation of JEA's *Industrial Pretreatment Regulation* and may subject Permittee to enforcement action pursuant thereto.

This permit shall become effective on: July 01, 2008.

This permit shall expire at midnight on: **June 30, 2013**.

The deadline to apply for permit reissuance is: March 01, 2013.

This permit was modified effective on: June 29, 2009.

Dan Parnell, Manager
Industrial Pretreatment

Wastestream Designation	Wastestream Description
Wastestream 2	Receipts of oily wastes as defined by 40 CFR 437.2(p). This wastestream is regulated by 40 CFR 437. Such receipts include: • Used oils • Oil-water emulsions or mixtures • Lubricants • Coolants • Contaminated groundwater clean-up from petroleum sources • Used petroleum products • Oil Spill clean-up • Bilge water • Rinse/wash waters from petroleum sources • Interceptor wastes • Off-specification fuels • Underground storage remediation waste • Tank clean-out from petroleum or oily sources • Non-contact used glycols • Aqueous and oil mixtures from parts cleaning operations • Wastewater from oil bearing paint washes
Wastestream 3	Receipts of organic wastes defined by 40 CFR 437.2(r) and regulated by 40 CFR 437. Such wastes include: • Landfill leachate • Contaminated groundwater clean-up from non-petroleum sources • Solvent-bearing wastes • Off-specification organic products • Still bottoms • Byproduct glycols • Wastewater from paint washes • Wastewater from adhesives and/or epoxies • Wastewater from chemical product operations • Tank clean-out from organic, non-petroleum sources.
Wastestream 4	Wastewater generated on-site (i.e., within the boundaries of the CWT facility) from used oil processing. This wastestream is regulated by 40 CFR 437.

SECTION 1 – FACILITY DESCRIPTION

1.1 General

The Permittee operates a centralized waste treatment (CWT) facility. The Permittee receives non-hazardous wastewater and used oil from a variety of industrial generators. Wastewater received by the Permittee contains oils, metals, or organic pollutants and/or a combination thereof. The Permittee reclaims oil and sells it on the used oil market. Solids generated at the Permittee's facility receive the appropriate off-site treatment and/or disposal.

1.2 Wastestream Descriptions

Wastewater discharged to the POTW from this facility is described below:

Wastestream Designation	Wastestream Description
Wastestream 1	Receipts of metal-bearing wastes as defined by 40 CFR 437.2(l). This wastestream is regulated by 40 CFR 437. Such receipts include: • Spent electroplating baths and/or sludges • Metal finishing rinse water and sludges • Chromate wastes • Air pollution control blow down water and sludges • Spent anodizing solutions • Incineration wastewaters • Waste liquid mercury • Cyanide containing wastes • Waste acids and bases with or without metals • Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations • Vibratory deburring wastewater • Alkaline and acid solutions used to clean metal parts or equipment • Pressure wash or "hydroblast" water used to clean metal and/or painted metal surfaces • X-ray and photographic film processing wastewaters • Ink-bearing wash and rinse wastewaters from printing operations

Wastestream Designation	Pretreatment Description
Wastestream 6	This wastestream is sanitary wastewater; therefore, no pretreatment is required.

1.4 Outfall(s) and Sample Point(s)

The following table lists the outfall(s) and sample point(s) approved under this permit.

An "outfall" is a point of discharge to the POTW. Permittee is strictly prohibited from discharging non-domestic wastewater to the POTW through an unlisted outfall. Permittee is also strictly prohibited from discharging non-domestic wastewaters not in accordance with the outfall description(s) and outfall designation(s) indicated below.

A "sample point" is the designated location where Permittee shall conduct periodic self-monitoring of the wastewater discharged to the POTW. Each sample point shall be readily accessible to JEA for the purposes of inspection, monitoring, and sampling to verify compliance with any applicable pretreatment standards. Sample point(s) and monitoring equipment shall be subject to approval by JEA.

Permittee shall permanently label each sample point, clearly indicating the Industrial User Discharge Permit Number and Sample Point Designation (e.g. IUDP #099 – SP001):

Outfall Designation	Outfall Description	Sample Point Designation	Sample Point Description
A	This outfall consists of a gravity discharge line from Permittee's final holding tank. This line discharges to the off-site monitoring station located in the north right-of-way of Albert Street, approximately 50 feet west of Bryan Street. Wastestreams 1, 2, 4 and 5 are discharged to the POTW via this outfall.	SP001	Samples shall be taken from the monitoring station located in the north right-of-way of Albert Street immediately adjacent to the facility. This is the sample point for effluent from metal-bearing and oily wastes treatment.

Wastestream Designation	Wastestream Description
Wastestream 5	Wastewater generated on-site (i.e., within the boundaries of the facility) from CWT operations besides used oil processing. This wastestream is regulated by 40 CFR 437. Such wastewater includes: • equipment/area washdown • water separated from recovered/recycled materials • contact/wash water from recovery and treatment operations (e.g. centrate and/or filtrate from solids de-watering) • CWT internal facility transport container washdown • solubilization wastewater • laboratory-derived wastewater • air pollution control wastewater • contaminated storm water (e.g. storm water collected within secondary containment structures)
Wastestream 6	This wastestream consists of sanitary wastewater from lavatories, lavatory floor drains, sinks, showers, water coolers, etc.

1.3 Pretreatment Systems

Permittee employs the following pretreatment equipment and/or procedures:

Wastestream Designation	Pretreatment Description
Wastestream 1	This wastestream is batch treated in treatment tanks 1W-9W via chemical precipitation, liquid-solid separation, alkaline chlorination, chromium reduction, and/or cyanide oxidation prior to discharge. Wastestream(s) requiring further treatment with O/W separation and/or dissolved air flotation (DAF) pass into the 50,000 gallon equalization tank. Wastewater in the equalization tank is air mixed and gravity fed into the DAF and/or O/W separator for additional treatment prior to discharge into a final 50,000 gallon compliance testing and discharge tank. Water in the final discharge tank may be redirected into the equalization tank for further treatment on an as needed basis.
Wastestream 2	This wastestream is batch treated in treatment tanks 1P-9P via gravity separation, and/or chemical emulsion breaking prior to the treatment described for Wastestream 1 above.
Wastestream 3	This wastestream is batch treated in treatment tanks 101 and/or 102 (tank 102 is only used for excess organics wastewater storage during periods of increased business) as needed via aeration, and/or chemical oxidation prior to discharge.
Wastestream 4	This wastestream is batch treated the same as Wastestream 2.
Wastestream 5	This wastestream is batch treated the same as Wastestream 1 or 3.

1.5 Monitoring Equipment

The following table describes the equipment approved under this permit for monitoring wastewater discharged to the POTW.

Sample Point	Parameters Monitored	Equipment Description
SP001	Flow rate and volume	Parshall flume with totalizing ultrasonic flow meter
SP001	Conventional and non-conventional pollutants	Flow integrated automatic composite sampler and grab sampling equipment
SP001	pH	pH meter
SP002	Flow rate and volume	3" Endress + Hauser electromagnetic flow meter with totalizer
SP002	Conventional and non-conventional pollutants	Flow integrated automatic composite sampler and grab sampling equipment
SP002	pH	pH meter
SP003	Cyanide	Grab sampling equipment

Outfall Designation	Outfall Description	Sample Point Designation	Sample Point Description
B	This outfall consists of a force main discharge line from Permittee's organics batch treatment tanks on Bryan Street. The line discharges to the organics sampling and monitoring building and gravity flows into the sewer line in Bryan Street. Wastestreams 3 and 5 are discharged to the POTW via this outfall.	SP002	Sample shall be taken from the sample port, downstream of the magnetic flow meter in the organics sampling and flow monitoring building at the northeast corner of the main treatment facility near Bryan Street. This is the sample point for organics wastes treatment.
A	Same as above	SP003 [A]	Samples shall be taken from the discharge line immediately downstream from the cyanide destruction process, prior to additional treatment steps. This is the sample point for cyanide waste.
C	This outfall consists of a gravity drain line discharging from the office building located in the northwest corner of the facility to the sewer main along Albert Street, east of Talleyrand Avenue and west of Bryan Street. Wastestream 6 is discharged to the POTW via this outfall. Discharge of non-domestic wastewater via this outfall is prohibited.	N/A	N/A

[A] In-plant cyanide monitoring and compliance at this sample point is only required if Permittee accepts a wastestream that contains more than 136 mg/l of total cyanide.

Water Recovery, LLC
1819 Albert Street
Jacksonville, FL 32202
904-475-9320
www.wrijax.com

October 6, 2011

Mr. Kirk Kessler
Vice President
Environmental Planning Specialists Inc.
900 Ashwood Parkway, Suite 350
Atlanta, GA 30338

Re: Project Report for Transportation and Disposal Evaluation of LCP Chemicals Site, Brunswick, GA Contaminated Groundwater

Background

Water Recovery, LLC (WRI) has engaged with Environmental Planning Specialists Inc. to evaluate the feasibility of transportation, treatment and disposal of the non-hazardous contaminated groundwater from the LCP Chemicals Site in Brunswick, Georgia.

On June 14, 2011, the evaluation began. Since then, WRI has picked up 365,878 gallons of non-hazardous contaminated groundwater at the Brunswick, Georgia site for transportation, treatment and disposal at our Centralized Wastewater Treatment (CWT) plant in Jacksonville, Florida. Prior to conducting the second evaluation, WRI received and reviewed considerable analytical data characterizing the material, completed in house laboratory analysis and treatability evaluations of a representative sample of the material, and conducted a site visit of the subject property. The purpose of this report is to document and discuss the results of the second evaluation.

Results

- Prior to dispatching tanker trucks to the site, WRI received and reviewed analytical data confirming that the material was non-hazardous for mercury
- Since June 14, 2011 tankers trucks were loaded with 365,878 gallons total at the site, manifested as non-hazardous contaminated groundwater, and transported to our Jacksonville, Florida CWT.
- The incoming loads were sampled and fingerprint tested in our laboratory to verify conformance with this materials approved waste profile
- The material was accepted and unloaded for treatment and disposal
- Aerobic biological treatment continues until the entire volume is contained in the plants discharge event to our receiving POTW via sample point SP002

Water Recovery, LLC
1819 Albert Street
Jacksonville, FL 32202
904-475-9320
www.wrijax.com

- As per the monitoring requirements of our discharge permit, a flow proportional autosampler was employed to collect a composite sample for analysis by our contract NELAP Certified laboratory (Advanced Environmental Laboratories, Inc.)
- At the request of Environmental Planning Specialists, Inc. a split of our composite discharge sample was also prepared for submission to Columbia Analytical Services for evaluation
- Water Recovery, LLC has received and reviewed the analytical data reported from both Advanced Environmental Laboratories, Inc. and Columbia Analytical Services on the composite sample form our discharge event
- The were absolutely no violations of our discharge permit parameters
- WRI plant management and technical staff concur that our CWT is capable of treatment and disposal of the contaminated groundwater from the LCP Chemicals site in Brunswick, Georgia

Discussion

After reviewing the results of the second evaluation, WRI projects that our CWT would be capable of treatment and disposal of an annual volume of 2 million gallons. This annual volume estimate is based on the nature and composition of the material as delivered for the scale evaluation. Given the possibility that the nature and composition of the groundwater may change, and also the potential extension of technical treatment capabilities of the CWT, the annual treatment and disposal capacity of WRI could range from 1 million to 4 million gallons.

Sincerely,

Gregory G. Reynolds
Vice President and General Manager
Water Recovery, LLC

APPENDIX C

ONSITE CBP GROUNDWATER TREATABILITY TESTING ANALYTICAL DATA

C.1 INITIAL CBP GROUNDWATER CHARACTERIZATION DATA (TEST AMERICA)

C.2 SIEMENS ONSITE TREATABILITY TESTING REPORT

C.3 WESTECH ONSITE TREATABILITY TESTING REPORT

C.4 PARSONS ONSITE TREATABILITY TESTING DATA

APPENDIX C.1

INITIAL CHARACTERIZATION DATA (TEST AMERICA)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-70074-1
Client Project/Site: Honeywell - Brunswick Site
Revision: 1

For:
Parsons Corporation
3577 Parkway Lane
Suite 100
Norcross, Georgia 30092

Attn: Mr. James Frere

Linda A. Wolfe

Authorized for release by:
07/18/2011 03:13:18 PM

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all 2003 NELAC requirements for accredited parameters, exceptions are noted in this report. Pursuant to NELAC, 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.

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Job ID: 680-70074-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Parsons Corporation

Project: Honeywell - Brunswick Site

Report Number: 680-70074-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 07/06/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt were 5.8 and 4.8 C.

TOTAL METALS (ICP)- 6010B

Samples 107B (680-70074-1), Composite (680-70074-2) and EW-6 (680-70074-3) were analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 07/11/2011 and analyzed on 07/13/2011.

A batch MS/MSD was performed on sample 107B. Due to the level of Calcium in the parent sample the MS and MSD failed the recovery criteria high. The presence of the '4' qualifier in the report indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples 107B (680-70074-1), Composite (680-70074-2) and EW-6 (680-70074-3) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 07/07/2011 and analyzed on 07/08/2011.

Samples Composite (680-70074-2)[100X] and EW-6 (680-70074-3)[250X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the mercury analyses.

All quality control parameters were within the acceptance limits.

TURBIDITY

Samples 107B (680-70074-1), Composite (680-70074-2) and EW-6 (680-70074-3) were analyzed for turbidity in accordance with EPA Method 180.1 - Nephelometric. The samples were analyzed on 07/06/2011.

Job ID: 680-70074-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

No difficulties were encountered during the turbidity analyses.

All quality control parameters were within the acceptance limits.

TOTAL DISSOLVED SOLIDS

Samples 107B (680-70074-1), Composite (680-70074-2) and EW-6 (680-70074-3) were analyzed for total dissolved solids in accordance with SM 2540C. The samples were analyzed on 07/06/2011.

No difficulties were encountered during the TDS analyses.

All quality control parameters were within the acceptance limits.

TOTAL SUSPENDED SOLIDS

Samples 107B (680-70074-1), Composite (680-70074-2) and EW-6 (680-70074-3) were analyzed for total suspended solids in accordance with SM 2540D. The samples were analyzed on 07/06/2011.

No difficulties were encountered during the TSS analyses.

All quality control parameters were within the acceptance limits.

SPECIFIC GRAVITY

Samples 107B (680-70074-1), Composite (680-70074-2) and EW-6 (680-70074-3) were analyzed for specific gravity in accordance with SM 2710F. The samples were analyzed on 07/06/2011.

Specific Gravity was detected in method blank MB 680-208099/1 at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been “B” flagged. Refer to the QC report for details.

No other difficulties were encountered during the specific gravity analyses.

All other quality control parameters were within the acceptance limits.

ANIONS

Samples Composite (680-70074-2) and EW-6 (680-70074-3) were analyzed for chloride and sulfate in accordance with EPA Method 300.0. The samples were analyzed on 07/11/2011 and 07/13/2011.

Samples Composite (680-70074-2)[100X], Composite (680-70074-2)[200X], EW-6 (680-70074-3)[100X] and EW-6 (680-70074-3)[500X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Samples Composite (680-70074-2) and EW-6 (680-70074-3) were analyzed for nitrate in accordance with EPA Method 300.0. The samples were analyzed on 07/06/2011.

Samples Composite (680-70074-2)[100X] and EW-6 (680-70074-3)[100X] required dilution for nitrate prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the anions analyses.

All quality control parameters were within the acceptance limits.

ALKALINITY

Samples 107B (680-70074-1), Composite (680-70074-2) and EW-6 (680-70074-3) were analyzed for alkalinity in accordance with EPA Method 310.1. The samples were analyzed on 07/06/2011.

No difficulties were encountered during the alkalinity analyses.

Job ID: 680-70074-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

All quality control parameters were within the acceptance limits.

BIOCHEMICAL OXYGEN DEMAND

Samples 107B (680-70074-1), Composite (680-70074-2) and EW-6 (680-70074-3) were analyzed for Biochemical Oxygen Demand in accordance with SM 5210B. The samples were analyzed on 07/06/2011. The composite sample overdepleted and was reanal yzed.

No other difficulties were encountered during the BOD analyses.

All quality control parameters were within the acceptance limits.

CHEMICAL OXYGEN DEMAND

Samples 107B (680-70074-1), Composite (680-70074-2) and EW-6 (680-70074-3) were analyzed for chemical oxygen demand in accordance with SM 5220D. The samples were analyzed on 07/08/2011.

Samples Composite (680-70074-2)[10X] and EW-6 (680-70074-3)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the COD analyses.

All quality control parameters were within the acceptance limits.

CORROSIVITY (PH)

Samples 107B (680-70074-1), Composite (680-70074-2) and EW-6 (680-70074-3) were analyzed for corrosivity (pH) in accordance with SM 4500 H+ B. The samples were analyzed on 07/06/2011.

This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The analysis was performed in the laboratory outside the 15 minute timeframe.

No difficulties were encountered during the pH analyses.

All quality control parameters were within the acceptance limits.

SULFIDE

Samples 107B (680-70074-1), Composite (680-70074-2) and EW-6 (680-70074-3) were analyzed for sulfide in accordance with SM 4500 S2 F. The samples were analyzed on 07/12/2011.

No difficulties were encountered during the sulfide analyses.

All quality control parameters were within the acceptance limits.

TOTAL ORGANIC CARBON

Samples 107B (680-70074-1), Composite (680-70074-2) and EW-6 (680-70074-3) were analyzed for total organic carbon in accordance with SM 5310B. The samples were analyzed on 07/07/2011.

Samples Composite (680-70074-2)[100X] and EW-6 (680-70074-3)[100X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the TOC analyses.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: Parsons Corporation
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70074-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-70074-1	107B	Water	07/05/11 14:30	07/06/11 09:15
680-70074-2	Composite	Water	07/05/11 17:00	07/06/11 09:15
680-70074-3	EW-6	Water	07/05/11 15:20	07/06/11 09:15

Method Summary

Client: Parsons Corporation
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70074-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL SAV
7470A	Mercury (CVAA)	SW846	TAL SAV
180.1	Turbidity, Nephelometric	MCAWW	TAL SAV
300.0	Anions, Ion Chromatography	MCAWW	TAL SAV
310.1	Alkalinity	MCAWW	TAL SAV
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL SAV
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL SAV
SM 2710F	Specific Gravity, Density	SM	TAL SAV
SM 4500 H+ B	pH	SM	TAL SAV
SM 4500 S2 F	Sulfide, Total	SM	TAL SAV
SM 5210B	BOD, 5-Day	SM	TAL SAV
SM 5220D	COD	SM	TAL SAV
SM 5310B	Organic Carbon, Total (TOC)	SM	TAL SAV

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

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.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
H	Sample was prepped or analyzed beyond the specified holding time
HF	Field parameter with a holding time of 15 minutes
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

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.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Client Sample ID: 107B

Date Collected: 07/05/11 14:30
Date Received: 07/06/11 09:15

Lab Sample ID: 680-70074-1

Matrix: Water

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	10.0	U	10.0	0.89	ug/L		07/11/11 12:38	07/13/11 11:27	1
Aluminum	**124**	**J**	200	100	ug/L		07/11/11 12:38	07/13/11 11:27	1
Arsenic	20.0	U	20.0	4.6	ug/L		07/11/11 12:38	07/13/11 11:27	1
Barium	**18.4**		10.0	2.3	ug/L		07/11/11 12:38	07/13/11 11:27	1
Beryllium	4.0	U	4.0	0.20	ug/L		07/11/11 12:38	07/13/11 11:27	1
Calcium	**4130**		500	96.0	ug/L		07/11/11 12:38	07/13/11 11:27	1
Cadmium	5.0	U	5.0	2.0	ug/L		07/11/11 12:38	07/13/11 11:27	1
Cobalt	10.0	U	10.0	0.95	ug/L		07/11/11 12:38	07/13/11 11:27	1
Chromium	10.0	U	10.0	1.2	ug/L		07/11/11 12:38	07/13/11 11:27	1
Copper	20.0	U	20.0	1.9	ug/L		07/11/11 12:38	07/13/11 11:27	1
Iron	100	U	100	50.0	ug/L		07/11/11 12:38	07/13/11 11:27	1
Potassium	**1200**		1000	22.0	ug/L		07/11/11 12:38	07/13/11 11:27	1
Magnesium	**343**	**J**	500	9.9	ug/L		07/11/11 12:38	07/13/11 11:27	1
Manganese	**2.7**	**J**	10.0	2.0	ug/L		07/11/11 12:38	07/13/11 11:27	1
Sodium	**16100**		1000	500	ug/L		07/11/11 12:38	07/13/11 11:27	1
Nickel	40.0	U	40.0	2.3	ug/L		07/11/11 12:38	07/13/11 11:27	1
Lead	10.0	U	10.0	4.0	ug/L		07/11/11 12:38	07/13/11 11:27	1
Antimony	**6.3**	**J**	20.0	5.3	ug/L		07/11/11 12:38	07/13/11 11:27	1
Selenium	20.0	U	20.0	6.4	ug/L		07/11/11 12:38	07/13/11 11:27	1
Thallium	25.0	U	25.0	8.8	ug/L		07/11/11 12:38	07/13/11 11:27	1
Vanadium	10.0	U	10.0	2.4	ug/L		07/11/11 12:38	07/13/11 11:27	1
Zinc	20.0	U	20.0	8.7	ug/L		07/11/11 12:38	07/13/11 11:27	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
SiO2, Silica Dissolved	**4270**		500	50.0	ug/L			07/15/11 09:42	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		07/07/11 13:32	07/08/11 18:08	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Specific Gravity	**1.003**				g/mL			07/06/11 14:54	1
pH	**6.16**	**HF**			SU			07/06/11 14:08	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	**11.8**	**J**	20.0	6.3	mg/L			07/08/11 07:37	1
Total Organic Carbon	**9.8**		1.0	0.50	mg/L			07/07/11 12:11	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.132**		0.100	0.100	NTU			07/06/11 15:33	1
Alkalinity	**16.0**		5.0	5.0	mg/L			07/06/11 18:34	1
Bicarbonate Alkalinity as CaCO3	**16.0**		5.0	5.0	mg/L			07/06/11 18:34	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	5.0	mg/L			07/06/11 18:34	1
Total Dissolved Solids	**58.0**		5.0	5.0	mg/L			07/06/11 16:41	1
Total Suspended Solids	5.0	U	5.0	5.0	mg/L			07/06/11 17:47	1
Sulfide	1.0	U	1.0	1.0	mg/L			07/12/11 10:11	1
Biochemical Oxygen Demand	2.0	U	2.0	2.0	mg/L			07/06/11 17:13	1

Client Sample ID: Composite

Date Collected: 07/05/11 17:00
Date Received: 07/06/11 09:15

Lab Sample ID: 680-70074-2

Matrix: Water

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	10.0	U	10.0	0.89	ug/L		07/11/11 12:38	07/13/11 11:32	1
Aluminum	2410		200	100	ug/L		07/11/11 12:38	07/13/11 11:32	1
Arsenic	127		20.0	4.6	ug/L		07/11/11 12:38	07/13/11 11:32	1
Barium	220		10.0	2.3	ug/L		07/11/11 12:38	07/13/11 11:32	1
Beryllium	8.5		4.0	0.20	ug/L		07/11/11 12:38	07/13/11 11:32	1
Calcium	9780		500	96.0	ug/L		07/11/11 12:38	07/13/11 11:32	1
Cadmium	5.0	U	5.0	2.0	ug/L		07/11/11 12:38	07/13/11 11:32	1
Cobalt	2.4	J	10.0	0.95	ug/L		07/11/11 12:38	07/13/11 11:32	1
Chromium	327		10.0	1.2	ug/L		07/11/11 12:38	07/13/11 11:32	1
Copper	20.2		20.0	1.9	ug/L		07/11/11 12:38	07/13/11 11:32	1
Iron	2970		100	50.0	ug/L		07/11/11 12:38	07/13/11 11:32	1
Potassium	10100		1000	22.0	ug/L		07/11/11 12:38	07/13/11 11:32	1
Magnesium	762		500	9.9	ug/L		07/11/11 12:38	07/13/11 11:32	1
Manganese	14.2		10.0	2.0	ug/L		07/11/11 12:38	07/13/11 11:32	1
Sodium	69200		1000	500	ug/L		07/11/11 12:38	07/13/11 13:58	1
Nickel	57.8		40.0	2.3	ug/L		07/11/11 12:38	07/13/11 11:32	1
Lead	7.6	J	10.0	4.0	ug/L		07/11/11 12:38	07/13/11 11:32	1
Antimony	20.0	U	20.0	5.3	ug/L		07/11/11 12:38	07/13/11 11:32	1
Selenium	9.7	J	20.0	6.4	ug/L		07/11/11 12:38	07/13/11 11:32	1
Thallium	25.0	U	25.0	8.8	ug/L		07/11/11 12:38	07/13/11 11:32	1
Vanadium	1160		10.0	2.4	ug/L		07/11/11 12:38	07/13/11 11:32	1
Zinc	48.9		20.0	8.7	ug/L		07/11/11 12:38	07/13/11 11:32	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
SiO2, Silica Dissolved	142000		5000	500	ug/L			07/15/11 14:04	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	246		20.0	9.1	ug/L		07/07/11 13:32	07/08/11 18:11	100

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Specific Gravity	1.021				g/mL			07/06/11 14:54	1
pH	10.8	HF			SU			07/06/11 14:15	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8610		200	40.0	mg/L			07/13/11 13:33	200
Nitrate as NO3	22.0	U	22.0	7.2	mg/L			07/06/11 19:51	100
Sulfate	672		100	52.0	mg/L			07/11/11 09:02	100
Chemical Oxygen Demand	3170		200	63.0	mg/L			07/08/11 07:37	10
Total Organic Carbon	948		100	50.0	mg/L			07/07/11 12:25	100

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	10.1		0.100	0.100	NTU			07/06/11 15:33	1
Alkalinity	5.0	U	5.0	5.0	mg/L			07/06/11 19:03	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	5.0	mg/L			07/06/11 19:03	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	5.0	mg/L			07/06/11 19:03	1
Total Dissolved Solids	17000		100	100	mg/L			07/06/11 16:41	1
Total Suspended Solids	31.0		5.0	5.0	mg/L			07/06/11 17:47	1
Sulfide	32.7		10.0	10.0	mg/L			07/12/11 10:11	1
Biochemical Oxygen Demand	48.5	H *	2.0	2.0	mg/L			07/12/11 17:07	1

Client Sample ID: EW-6

Date Collected: 07/05/11 15:20
Date Received: 07/06/11 09:15

Lab Sample ID: 680-70074-3

Matrix: Water

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	10.0	U	10.0	0.89	ug/L		07/11/11 12:38	07/13/11 11:38	1
Aluminum	1090		200	100	ug/L		07/11/11 12:38	07/13/11 11:38	1
Arsenic	529		20.0	4.6	ug/L		07/11/11 12:38	07/13/11 11:38	1
Barium	81.4		10.0	2.3	ug/L		07/11/11 12:38	07/13/11 11:38	1
Beryllium	4.0	U	4.0	0.20	ug/L		07/11/11 12:38	07/13/11 11:38	1
Calcium	3840		500	96.0	ug/L		07/11/11 12:38	07/13/11 11:38	1
Cadmium	5.0	U	5.0	2.0	ug/L		07/11/11 12:38	07/13/11 11:38	1
Cobalt	10.0	U	10.0	0.95	ug/L		07/11/11 12:38	07/13/11 11:38	1
Chromium	184		10.0	1.2	ug/L		07/11/11 12:38	07/13/11 11:38	1
Copper	4.1	J	20.0	1.9	ug/L		07/11/11 12:38	07/13/11 11:38	1
Iron	10200		100	50.0	ug/L		07/11/11 12:38	07/13/11 11:38	1
Potassium	29300		1000	22.0	ug/L		07/11/11 12:38	07/13/11 11:38	1
Magnesium	46.7	J	500	9.9	ug/L		07/11/11 12:38	07/13/11 11:38	1
Manganese	3.7	J	10.0	2.0	ug/L		07/11/11 12:38	07/13/11 11:38	1
Sodium	11600		1000	500	ug/L		07/11/11 12:38	07/13/11 14:09	1
Nickel	48.2		40.0	2.3	ug/L		07/11/11 12:38	07/13/11 11:38	1
Lead	10.0	U	10.0	4.0	ug/L		07/11/11 12:38	07/13/11 11:38	1
Antimony	20.0	U	20.0	5.3	ug/L		07/11/11 12:38	07/13/11 11:38	1
Selenium	14.9	J	20.0	6.4	ug/L		07/11/11 12:38	07/13/11 11:38	1
Thallium	25.0	U	25.0	8.8	ug/L		07/11/11 12:38	07/13/11 11:38	1
Vanadium	1570		10.0	2.4	ug/L		07/11/11 12:38	07/13/11 11:38	1
Zinc	13.2	J	20.0	8.7	ug/L		07/11/11 12:38	07/13/11 11:38	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
SiO2, Silica Dissolved	1530000		50000	5000	ug/L			07/15/11 13:31	100

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1090		50.0	22.8	ug/L		07/07/11 13:32	07/08/11 18:14	250

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Specific Gravity	1.047				g/mL			07/06/11 14:54	1
pH	11.3	HF			SU			07/06/11 14:23	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21800		500	100	mg/L			07/13/11 14:01	500
Nitrate as NO3	22.0	U	22.0	7.2	mg/L			07/06/11 20:06	100
Sulfate	1930		100	52.0	mg/L			07/11/11 09:17	100
Chemical Oxygen Demand	13600		400	126	mg/L			07/08/11 07:37	20
Total Organic Carbon	987		100	50.0	mg/L			07/07/11 12:39	100

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	1.73		0.100	0.100	NTU			07/06/11 15:33	1
Alkalinity	5.0	U	5.0	5.0	mg/L			07/06/11 19:31	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	5.0	mg/L			07/06/11 19:31	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	5.0	mg/L			07/06/11 19:31	1
Total Dissolved Solids	39900		100	100	mg/L			07/06/11 16:41	1
Total Suspended Solids	89.5		5.0	5.0	mg/L			07/06/11 17:47	1
Sulfide	50.1		10.0	10.0	mg/L			07/12/11 10:11	1
Biochemical Oxygen Demand	219		2.0	2.0	mg/L			07/06/11 17:13	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 680-208511/1-A
Matrix: Water
Analysis Batch: 208759

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 208511

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	10.0	U	10.0	0.89	ug/L		07/11/11 12:38	07/13/11 11:17	1
Aluminum	200	U	200	100	ug/L		07/11/11 12:38	07/13/11 11:17	1
Arsenic	20.0	U	20.0	4.6	ug/L		07/11/11 12:38	07/13/11 11:17	1
Barium	10.0	U	10.0	2.3	ug/L		07/11/11 12:38	07/13/11 11:17	1
Beryllium	4.0	U	4.0	0.20	ug/L		07/11/11 12:38	07/13/11 11:17	1
Calcium	500	U	500	96.0	ug/L		07/11/11 12:38	07/13/11 11:17	1
Cadmium	5.0	U	5.0	2.0	ug/L		07/11/11 12:38	07/13/11 11:17	1
Cobalt	10.0	U	10.0	0.95	ug/L		07/11/11 12:38	07/13/11 11:17	1
Chromium	10.0	U	10.0	1.2	ug/L		07/11/11 12:38	07/13/11 11:17	1
Copper	20.0	U	20.0	1.9	ug/L		07/11/11 12:38	07/13/11 11:17	1
Iron	100	U	100	50.0	ug/L		07/11/11 12:38	07/13/11 11:17	1
Potassium	1000	U	1000	22.0	ug/L		07/11/11 12:38	07/13/11 11:17	1
Magnesium	500	U	500	9.9	ug/L		07/11/11 12:38	07/13/11 11:17	1
Manganese	10.0	U	10.0	2.0	ug/L		07/11/11 12:38	07/13/11 11:17	1
Sodium	1000	U	1000	500	ug/L		07/11/11 12:38	07/13/11 11:17	1
Nickel	40.0	U	40.0	2.3	ug/L		07/11/11 12:38	07/13/11 11:17	1
Lead	10.0	U	10.0	4.0	ug/L		07/11/11 12:38	07/13/11 11:17	1
Antimony	20.0	U	20.0	5.3	ug/L		07/11/11 12:38	07/13/11 11:17	1
Selenium	20.0	U	20.0	6.4	ug/L		07/11/11 12:38	07/13/11 11:17	1
Thallium	25.0	U	25.0	8.8	ug/L		07/11/11 12:38	07/13/11 11:17	1
Vanadium	10.0	U	10.0	2.4	ug/L		07/11/11 12:38	07/13/11 11:17	1
Zinc	20.0	U	20.0	8.7	ug/L		07/11/11 12:38	07/13/11 11:17	1

Lab Sample ID: LCS 680-208511/2-A
Matrix: Water
Analysis Batch: 208759

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 208511

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Silver	50.0	51.35		ug/L		103	75 - 125
Aluminum	2000	1955		ug/L		98	75 - 125
Arsenic	2000	1908		ug/L		95	75 - 125
Barium	2000	2090		ug/L		104	75 - 125
Beryllium	50.0	49.14		ug/L		98	75 - 125
Calcium	5000	4825		ug/L		97	75 - 125
Cadmium	50.0	49.65		ug/L		99	75 - 125
Cobalt	500	489.8		ug/L		98	75 - 125
Chromium	200	197.4		ug/L		99	75 - 125
Copper	250	252.3		ug/L		101	75 - 125
Iron	1000	982.6		ug/L		98	75 - 125
Potassium	5000	4869		ug/L		97	75 - 125
Magnesium	5000	4713		ug/L		94	75 - 125
Manganese	500	495.3		ug/L		99	75 - 125
Sodium	5000	4744		ug/L		95	75 - 125
Nickel	500	490.5		ug/L		98	75 - 125
Lead	500	482.7		ug/L		97	75 - 125
Antimony	500	490.3		ug/L		98	75 - 125
Selenium	2000	1979		ug/L		99	75 - 125
Thallium	2000	2026		ug/L		101	75 - 125
Vanadium	500	487.6		ug/L		98	75 - 125
Zinc	500	490.6		ug/L		98	75 - 125

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

Lab Sample ID: MB 680-208985/1-A
Matrix: Water
Analysis Batch: 209034

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
SiO2, Silica Dissolved	500	U	500	50.0	ug/L			07/15/11 09:36	1

Lab Sample ID: LCS 680-208985/2-A
Matrix: Water
Analysis Batch: 209034

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
SiO2, Silica Dissolved	10000	9962		ug/L		99	75 - 125

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-208210/1-A
Matrix: Water
Analysis Batch: 208459

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 208210

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		07/07/11 13:32	07/08/11 16:05	1

Lab Sample ID: LCS 680-208210/2-A
Matrix: Water
Analysis Batch: 208459

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 208210

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	2.47		ug/L		99	80 - 120

Method: 180.1 - Turbidity, Nephelometric

Lab Sample ID: MB 680-208155/1
Matrix: Water
Analysis Batch: 208155

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	0.100	U	0.100	0.100	NTU			07/06/11 15:33	1

Lab Sample ID: 680-70074-1 DU
Matrix: Water
Analysis Batch: 208155

Client Sample ID: 107B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Turbidity	0.132		0.1290		NTU		2	30

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 680-208401/2
Matrix: Water
Analysis Batch: 208401

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as NO3	1.1	U	1.1	0.36	mg/L			07/06/11 17:32	5

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 680-208401/3
Matrix: Water
Analysis Batch: 208401

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Nitrate as NO3	22.1	22.97		mg/L		104	90 - 110

Lab Sample ID: LCSD 680-208401/4
Matrix: Water
Analysis Batch: 208401

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Nitrate as NO3	22.1	22.89		mg/L		104	90 - 110	0	30

Lab Sample ID: MB 680-208752/2
Matrix: Water
Analysis Batch: 208752

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.0	U	5.0	1.0	mg/L			07/11/11 08:19	5
Sulfate	5.0	U	5.0	2.6	mg/L			07/11/11 08:19	5

Lab Sample ID: LCS 680-208752/3
Matrix: Water
Analysis Batch: 208752

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Chloride	50.0	51.30		mg/L		103	90 - 110
Sulfate	50.0	53.95		mg/L		108	90 - 110

Lab Sample ID: MB 680-208777/2
Matrix: Water
Analysis Batch: 208777

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.0	U	5.0	1.0	mg/L			07/13/11 12:49	5

Lab Sample ID: LCS 680-208777/3
Matrix: Water
Analysis Batch: 208777

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Chloride	50.0	51.42		mg/L		103	90 - 110

Lab Sample ID: LCSD 680-208777/4
Matrix: Water
Analysis Batch: 208777

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Chloride	50.0	51.32		mg/L		103	90 - 110	0	30

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 680-70074-2 MS
Matrix: Water
Analysis Batch: 208777

Client Sample ID: Composite
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Chloride	8610		2000	10520	E 4	mg/L		95	90 - 110

Method: 310.1 - Alkalinity

Lab Sample ID: MB 680-208145/2
Matrix: Water
Analysis Batch: 208145

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	5.0	U	5.0	5.0	mg/L			07/06/11 18:20	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	5.0	mg/L			07/06/11 18:20	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	5.0	mg/L			07/06/11 18:20	1

Lab Sample ID: LCS 680-208145/3
Matrix: Water
Analysis Batch: 208145

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Alkalinity	252	222.4		mg/L		88	80 - 120

Lab Sample ID: LCSD 680-208145/13
Matrix: Water
Analysis Batch: 208145

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Alkalinity	252	222.6		mg/L		88	80 - 120	0	30

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 680-208127/1
Matrix: Water
Analysis Batch: 208127

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			07/06/11 16:41	1

Lab Sample ID: LCS 680-208127/2
Matrix: Water
Analysis Batch: 208127

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Total Dissolved Solids	374	360.0		mg/L		96	80 - 120

Lab Sample ID: LCSD 680-208127/3
Matrix: Water
Analysis Batch: 208127

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Total Dissolved Solids	374	373.0		mg/L		100	80 - 120	4	25

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: 680-70074-1 DU
Matrix: Water
Analysis Batch: 208127

Client Sample ID: 107B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	58.0		61.00		mg/L		5	25

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

Lab Sample ID: MB 680-208141/1
Matrix: Water
Analysis Batch: 208141

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	5.0	U	5.0	5.0	mg/L			07/06/11 17:47	1

Lab Sample ID: LCS 680-208141/2
Matrix: Water
Analysis Batch: 208141

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Total Suspended Solids	100	95.00		mg/L		95	80 - 120

Lab Sample ID: LCSD 680-208141/3
Matrix: Water
Analysis Batch: 208141

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Total Suspended Solids	100	96.00		mg/L		96	80 - 120	1	25

Method: SM 2710F - Specific Gravity, Density

Lab Sample ID: MB 680-208099/1
Matrix: Water
Analysis Batch: 208099

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

Analyte	MB Result	MB Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Specific Gravity	0.998				g/mL			07/06/11 14:54	1

Lab Sample ID: 680-70074-3 DU
Matrix: Water
Analysis Batch: 208099

Client Sample ID: EW-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Specific Gravity	1.047		1.05		g/mL		0.2	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 680-208097/5
Matrix: Water
Analysis Batch: 208097

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
pH	7.00	7.000		SU		100	63 - 158

Method: SM 4500 H+ B - pH (Continued)

Lab Sample ID: 680-70074-2 DU
Matrix: Water
Analysis Batch: 208097

Client Sample ID: Composite
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	10.8	HF	10.80		SU		0.2	40

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 680-208605/1
Matrix: Water
Analysis Batch: 208605

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	1.0	U	1.0	1.0	mg/L			07/12/11 10:03	1

Lab Sample ID: LCS 680-208605/2
Matrix: Water
Analysis Batch: 208605

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Sulfide	10.0	10.03		mg/L		100	75 - 125

Lab Sample ID: LCSD 680-208605/3
Matrix: Water
Analysis Batch: 208605

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Sulfide	10.0	10.10		mg/L		101	75 - 125	1	30

Lab Sample ID: 680-70074-1 DU
Matrix: Water
Analysis Batch: 208605

Client Sample ID: 107B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide	1.0	U	1.0	U	mg/L		NC	30

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: USB 680-208133/1 USB
Matrix: Water
Analysis Batch: 208133

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

Analyte	USB Result	USB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	2.0	U	2.0	2.0	mg/L			07/06/11 17:13	1

Lab Sample ID: LCS 680-208133/2
Matrix: Water
Analysis Batch: 208133

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Biochemical Oxygen Demand	198	193.9		mg/L		98	85 - 115

Method: SM 5210B - BOD, 5-Day (Continued)

Lab Sample ID: LCSD 680-208133/3
Matrix: Water
Analysis Batch: 208133

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Biochemical Oxygen Demand	198	193.4		mg/L		98	85 - 115	0	30

Lab Sample ID: USB 680-208681/1 USB
Matrix: Water
Analysis Batch: 208681

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

Analyte	USB Result	USB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	2.0	U	2.0	2.0	mg/L			07/12/11 17:06	1

Lab Sample ID: LCS 680-208681/2
Matrix: Water
Analysis Batch: 208681

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Biochemical Oxygen Demand	198	176.7		mg/L		89	85 - 115

Lab Sample ID: LCSD 680-208681/3
Matrix: Water
Analysis Batch: 208681

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Biochemical Oxygen Demand	198	166.2	*	mg/L		84	85 - 115	6	30

Method: SM 5220D - COD

Lab Sample ID: MB 680-208291/3
Matrix: Water
Analysis Batch: 208291

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	20.0	U	20.0	6.3	mg/L			07/08/11 07:37	1

Lab Sample ID: LCS 680-208291/4
Matrix: Water
Analysis Batch: 208291

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Chemical Oxygen Demand	100	100.7		mg/L		101	90 - 110

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 680-208289/2
Matrix: Water
Analysis Batch: 208289

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.0	U	1.0	0.50	mg/L			07/07/11 09:36	1

Method: SM 5310B - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCS 680-208289/4
Matrix: Water
Analysis Batch: 208289

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Total Organic Carbon	20.0	19.93		mg/L		100	80 - 120

Client Sample ID: 107B

Lab Sample ID: 680-70074-1

Date Collected: 07/05/11 14:30

Matrix: Water

Date Received: 07/06/11 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			208210	07/07/11 13:32	JPH	TAL SAV
Total/NA	Analysis	7470A		1	208459	07/08/11 18:08	JPH	TAL SAV
Total/NA	Prep	3010A			208511	07/11/11 12:38	RA	TAL SAV
Total/NA	Analysis	6010B		1	208759	07/13/11 11:27	BCB	TAL SAV
Dissolved	Analysis	6010B		1	209034	07/15/11 09:42	BCB	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	208097	07/06/11 14:08	JKL	TAL SAV
Total/NA	Analysis	SM 2710F		1	208099	07/06/11 14:54	TR	TAL SAV
Total/NA	Analysis	SM 2540C		1	208127	07/06/11 16:41	TR	TAL SAV
Total/NA	Analysis	SM 5210B		1	208133	07/06/11 17:13	JKL	TAL SAV
Total/NA	Analysis	SM 2540D		1	208141	07/06/11 17:47	TR	TAL SAV
Total/NA	Analysis	310.1		1	208145	07/06/11 18:34	TR	TAL SAV
Total/NA	Analysis	180.1		1	208155	07/06/11 15:33	TH	TAL SAV
Total/NA	Analysis	SM 5310B		1	208289	07/07/11 12:11	TH	TAL SAV
Total/NA	Analysis	SM 5220D		1	208291	07/08/11 07:37	DAM	TAL SAV
Total/NA	Analysis	SM 4500 S2 F		1	208605	07/12/11 10:11	DAM	TAL SAV

Client Sample ID: Composite

Lab Sample ID: 680-70074-2

Date Collected: 07/05/11 17:00

Matrix: Water

Date Received: 07/06/11 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			208210	07/07/11 13:32	JPH	TAL SAV
Total/NA	Analysis	7470A		100	208459	07/08/11 18:11	JPH	TAL SAV
Total/NA	Prep	3010A			208511	07/11/11 12:38	RA	TAL SAV
Total/NA	Analysis	6010B		1	208759	07/13/11 11:32	BCB	TAL SAV
Total/NA	Analysis	6010B		1	208759	07/13/11 13:58	BCB	TAL SAV
Dissolved	Analysis	6010B		10	209034	07/15/11 14:04	BCB	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	208097	07/06/11 14:15	JKL	TAL SAV
Total/NA	Analysis	SM 2710F		1	208099	07/06/11 14:54	TR	TAL SAV
Total/NA	Analysis	SM 2540C		1	208127	07/06/11 16:41	TR	TAL SAV
Total/NA	Analysis	SM 2540D		1	208141	07/06/11 17:47	TR	TAL SAV
Total/NA	Analysis	310.1		1	208145	07/06/11 19:03	TR	TAL SAV
Total/NA	Analysis	180.1		1	208155	07/06/11 15:33	TH	TAL SAV
Total/NA	Analysis	SM 5310B		100	208289	07/07/11 12:25	TH	TAL SAV
Total/NA	Analysis	SM 5220D		10	208291	07/08/11 07:37	DAM	TAL SAV
Total/NA	Analysis	300.0		100	208401	07/06/11 19:51	CB	TAL SAV
Total/NA	Analysis	SM 4500 S2 F		1	208605	07/12/11 10:11	DAM	TAL SAV
Total/NA	Analysis	SM 5210B		1	208681	07/12/11 17:07	JKL	TAL SAV
Total/NA	Analysis	300.0		100	208752	07/11/11 09:02	CB	TAL SAV
Total/NA	Analysis	300.0		200	208777	07/13/11 13:33	CB	TAL SAV

Client Sample ID: EW-6
Date Collected: 07/05/11 15:20
Date Received: 07/06/11 09:15

Lab Sample ID: 680-70074-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			208210	07/07/11 13:32	JPH	TAL SAV
Total/NA	Analysis	7470A		250	208459	07/08/11 18:14	JPH	TAL SAV
Total/NA	Prep	3010A			208511	07/11/11 12:38	RA	TAL SAV
Total/NA	Analysis	6010B		1	208759	07/13/11 11:38	BCB	TAL SAV
Total/NA	Analysis	6010B		1	208759	07/13/11 14:09	BCB	TAL SAV
Dissolved	Analysis	6010B		100	209034	07/15/11 13:31	BCB	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	208097	07/06/11 14:23	JKL	TAL SAV
Total/NA	Analysis	SM 2710F		1	208099	07/06/11 14:54	TR	TAL SAV
Total/NA	Analysis	SM 2540C		1	208127	07/06/11 16:41	TR	TAL SAV
Total/NA	Analysis	SM 5210B		1	208133	07/06/11 17:13	JKL	TAL SAV
Total/NA	Analysis	SM 2540D		1	208141	07/06/11 17:47	TR	TAL SAV
Total/NA	Analysis	310.1		1	208145	07/06/11 19:31	TR	TAL SAV
Total/NA	Analysis	180.1		1	208155	07/06/11 15:33	TH	TAL SAV
Total/NA	Analysis	SM 5310B		100	208289	07/07/11 12:39	TH	TAL SAV
Total/NA	Analysis	SM 5220D		20	208291	07/08/11 07:37	DAM	TAL SAV
Total/NA	*Analysis*	*300.0*		*100*	*208401*	*07/06/11 20:06*	*CB*	*TAL SAV*
Total/NA	Analysis	SM 4500 S2 F		1	208605	07/12/11 10:11	DAM	TAL SAV
Total/NA	Analysis	300.0		100	208752	07/11/11 09:17	CB	TAL SAV
Total/NA	Analysis	300.0		500	208777	07/13/11 14:01	CB	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number 042063

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE: Honeywell Brunswick	PROJECT NO.: 446727	PROJECT LOCATION (STATE): GA	
TAL (LAB) PROJECT MANAGER: Linda Wolfe	P.O. NUMBER: 45000 24670	CONTRACT NO.	
CLIENT (SITE) PM: Jim Frere	CLIENT PHONE: 678-969-2356	CLIENT FAX	
CLIENT NAME: Parsons	CLIENT E-MAIL: james.frere@parsons.com		
CLIENT ADDRESS: Norcross, GA 30092			
COMPANY CONTRACTING THIS WORK (if applicable)			

MATRIX TYPE — COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

REQUIRED ANALYSIS — PRESERVATIVE: +Ch/sulfate; dissolved silica; Alkalinity; TAL metals Hg; TOC; BOD; TDS/TSS; sulfide; COD; sp. grav. pH/TURB

PAGE 1 OF

STANDARD REPORT DELIVERY ○

DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE) ● 7/13 dtc

DATE DUE 7/12

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	C	AQ	SOL	AIR	NAQ	+Ch/sulfate	dissolved silica	Alkalinity	TAL metals Hg	TOC	BOD	TDS/TSS	sulfide	COD	sp. grav. pH/TURB	REMARKS
7/5	14:30	107B	C	/														
7/5	14:30	107B		/					1									* 7/6/11
7/5	14:30	107B		/						1								confirmed TAT
7/5	14:30	107B		/							1							w/ J. Frere, data
7/5	14:30	107B		/								1						due 7/13/11
7/5	14:30	107B		/									1					J. Lapreia
7/5	14:30	107B		/										1				
7/5	14:30	107B		/											2			
7/5	14:30	107B		/												1		
7/5	14:30	107B		/													1	
7/5	14:30	107B		/													1	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
James McFrere	7/5/11	6:00						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Frances Swafford	07/06/11	09:15	YES ○ NO ○		680-70074	5.8°C, 4.8°C

TAL 8240-680 (1008)

07/18/2011

Serial Number 042043

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Honeywell Brunswick	446727	GA

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Linda Wolfe	4500024670	

CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
Jim Frere	678-969-2356	

CLIENT NAME	CLIENT E-MAIL
Parsons	james.frere@parsons.com

CLIENT ADDRESS: Norcross GA 30092

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 2 OF 3

STANDARD REPORT DELIVERY ○
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: NO3+Cl/sulfate	dissolved silica	Alk	TAL Metals 6010	TOC	BOD	TDS/TSS	sulfide	COD	Sp. gravity & Hydrocarbon	REMARKS
								PRESERVATIVE										
7/5	17:00	composite	C					1										* 7/6/11 confirmed
7/5	17:00	composite	C						1									w/ J. Frere, NO3
7/5	17:00	composite	C							1								to also be analyzed
7/5	17:00	composite	C								1							by 300.
7/5	17:00	composite	C									1						D. Reginald
7/5	17:00	composite	C										1					
7/5	17:00	composite	C											1				
7/5	17:00	composite	C												2			
7/5	17:00	composite	C													1		
7/5	17:00	composite	C														1	
7/5	17:00																1	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
James M Frere	7/5/11	18:00						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Frances Swafford	07/06/11	09:15	YES ○ NO ○		680-70074	4.8°C, 5.8°C

TAL 8240-680 (1008)

07/18/2011

Serial Number 042041

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE: Honeywell Brunswick	PROJECT NO.: 446727	PROJECT LOCATION (STATE): GA	PAGE: 3 OF 3
TAL (LAB) PROJECT MANAGER: Linda Wolfe	P.O. NUMBER: 45000 24670	CONTRACT NO.	STANDARD REPORT DELIVERY ○
CLIENT (SITE) PM: Jim Frere	CLIENT PHONE: 678-969-2356	CLIENT FAX	DATE DUE
CLIENT NAME: Parsons	CLIENT E-MAIL: james.frere@parsons.com		EXPEDITED REPORT DELIVERY (SURCHARGE) 7/13 per
CLIENT ADDRESS: Norcross, GA 30092			DATE DUE 7/12
COMPANY CONTRACTING THIS WORK (if applicable)			NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: chloride, sulfide, dissolved silica, Alkalinity, TAL metals (Hg), TOC, BOD, TDS/TSS, sulfide, COD, Sp. gravity & pH STORET	NUMBER OF CONTAINERS SUBMITTED	7/6/11 REMARKS
7/5	15:20	EW-6	G					1	1	* Combined sample time w/ STORET # per Jen
7/5		EW-6	G					1	1	
7/5		EW-6	G					1	1	
7/5		EW-6	G					1	1	
7/5		EW-6	G					1	1	
7/5		EW-6	G					1	1	
7/5		EW-6	G					1	1	
7/5		EW-6	G					2	1	
7/5		EW-6	G					1	1	
7/5		EW-6	G					1	1	
7/5		EW-6	G					1	1	

PRESERVATIVE: 6+ | 4°C

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
James M Frere	7/5/11	6:00						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Frances Swafford	07/06/11	09:15	YES ○ NO ○		680-70074	4.8°C, 5.8°C

TAL 8240-680 (1008)

07/18/2011

Certification Summary

Client: Parsons Corporation
Project/Site: Honeywell - Brunswick Site

TestAmerica Job ID: 680-70074-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kansas	NELAC	7	E-10322
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	Nevada	State Program	9	GA6
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Oklahoma	State Program	6	9984
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

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

APPENDIX C.2

SIEMENS ONSITE TREATABILITY TESTING REPORT

TREATABILITY TEST REPORT

Treatment of Caustic Brine Pool (Honeywell Brunswick Site)

Conducted for

Parsons Engineering
100 High Street
Boston, MA 02110

Report No. JWM11012
October 17, 2011

Siemens Industry, Inc.
181 Thorn Hill Road
Warrendale, PA 15086
724-772-0044

Treatment of Caustic Brine Pool

Parsons Engineering
100 High Street
Boston, MA 02110

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SECTION I
BACKGROUND

The study described in this report was conducted for Parson, on behalf of Honeywell. The purpose of the study was to evaluate potential treatment methods for caustic brine pool (CBP) water from the Honeywell Brunswick site in Brunswick, Georgia. The Brunswick facility was formerly a chlor-alkali plant that produced chlorine gas. The CPB water is highly buffered, caustic and has elevated concentrations of naturally occurring humic and fulvic organic acids and silica.

SECTION II
SAMPLE DESCRIPTION

Two separate samples were received on July 21, 2011 and evaluated during the study. They consisted of a sample labeled "Effluent" and a sample labeled "EW-6." It should be noted that although the sample was labeled "effluent", according to Parsons, composite would have been the more proper label.

Both samples appeared black opaque with a faint odor of soil. There were no noticeable suspended or settled solids.

These samples were analyzed by Parsons prior to shipment to the Siemens lab in Warrendale, PA. In addition, Siemens analyzed for selected parameters upon arrive at our lab. All analysis of the untreated samples can be found on Table 1 – As Received Analysis.

In addition, a titration curve was done on both as-received samples. The results are presented in Table 2 and in Figure 1.

Table 1 - As Received Analysis

	Unit	Parsons Analysis [1]		Siemens Analysis [2]	
		Effluent	EW-6	Effluent	EW-6
Aluminum	mg/L	2.41	1.09	---	---
Antimony	mg/L	<0.02	<0.02	---	---
Arsenic	mg/L	0.127	0.529	0.059	0.646
Barium	mg/L	0.22	0.0814	---	---
Beryllium	mg/L	0.0085	<0.004	---	---
Cadmium	mg/L	<0.005	<0.005	---	---
Calcium	mg/L	9.78	3.84	---	---
Chloride	mg/L	8,610	21,800	---	---
Chromium	mg/L	0.327	0.184	0.621	0.590
Cobalt	mg/L	0.0024	<0.01	---	---
Copper	mg/L	0.0202	0.0041	---	---
Iron	mg/L	2.97	10.2	---	---
Lead	mg/L	0.0076	<0.01	<0.08	<0.08
Magnesium	mg/L	0.762	0.0467	---	---
Manganese	mg/L	0.0142	0.0037	---	---
Mercury	mg/L	0.246	1.09	0.207	1.04
Nickel	mg/L	0.0578	0.0482	---	---
Nitrate	mg/L	<22	<22	---	---
Potassium	mg/L	10.1	29.3	---	---
Selenium	mg/L	0.0097	0.0149	---	---
Silica	mg/L	142	1,530	---	---
Silver	mg/L	<0.01	<0.01	---	---
Sodium	mg/L	69.2	11.6	---	---
Sulfate	mg/L	672	1,930	---	---
Sulfide	mg/L	32.7	50.1	---	---
Thallium	mg/L	<0.025	<0.025	---	---
Turbidity	NTU	10.1	1.73	---	---
Vanadium	mg/L	1.16	1.57	---	---
Zinc	mg/L	0.0489	0.0132	---	---
pH	SU	10.8	11.3	10.9	11.8
Alkalinity	mg/L CaCO3	<5	<5	3,890	13,000
Bicarbonate	mg/L CaCO3	<5	<5	---	---
Carbonate	mg/L CaCO3	<5	<5	---	---
Specific Gravity	g/mL	1.021	1.047	---	---
BOD	mg/L	48.5	219	---	---
COD	mg/L	3,170	13,600	3,804	---
TOC	mg/L	948	987	---	---
TDS	mg/L	17,000	39,900	21,800	62,800
TSS	mg/L	31	89.5	---	---
Color	PC units	---	---	15,000	20,000

(1) - Analysis conducted by Test America, Savannah, Ga. Samples were collected for analysis prior to shipment to Siemens.

(2) - Analysis was conducted by Siemens, Enviroscan, Rothschild, Wi. after the drums arrived at the Siemens lab in Warrendale, PA

Table 2
Titration Curve Data - Effluent Sample

H_2SO_4 (milliliters)	pH	H_2SO_4 (mg per liter)
0	10.99	0
0.9	10.5	530
1.8	9.96	1,060
2.65	9.5	1,560
3.35	9.01	1,972
3.65	8.52	2,149
3.8	7.95	2,237
3.95	7.52	2,325
4.25	6.94	2,502

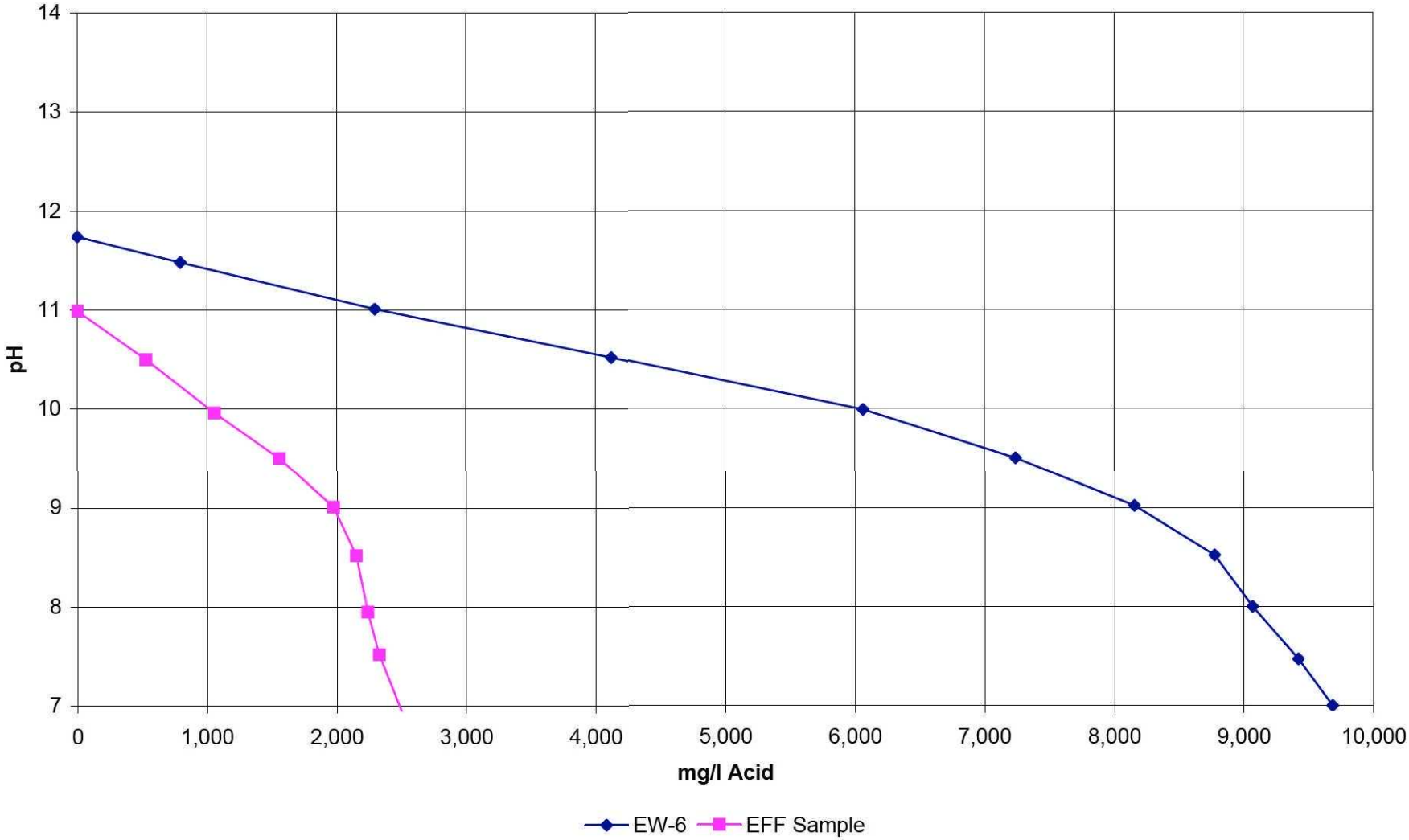
300 ml sample was used for titration

Table 3
Titration Curve Data - EW-6 Sample

H_2SO_4 (milliliters)	pH	H_2SO_4 (mg per liter)
0	11.74	0
1.35	11.48	795
3.9	11.01	2,296
7	10.52	4,121
10.3	9.99	6,063
12.3	9.5	7,241
13.85	9.02	8,153
14.9	8.52	8,771
15.4	8	9,065
16	7.47	9,419
16.45	7	9,684

300 ml sample was used for titration

Figure 1
Titration Curves - As Received Samples



SECTION III
TREATABILITY TESTING

A. Initial Evaluation of Samples

Prior to conducting any qualitative jar tests, several preliminary tests were conducted on the EW-6 sample. These tests showed the following:

- The addition of 200 - 500 mg/l ferric chloride and anionic polymer had no visible effect on the sample.
- Addition of sulfuric acid to pH 9, followed by the addition of 200 mg/l ferric chloride and polymer caused a significant quantity of gel to form, so much that the sample was very difficult to stir.
- Addition of sulfuric acid to pH 6 also generated a significant quantity of gel, some of the gel redissolved as the pH was by re-neutralization with lime to pH 10.
- Adding up to 500 mg/l ferric chloride to the treatment immediately above did not significantly change the characteristics of the treated sample.
- Due to the color of the sample, it was somewhat difficult to see the quantities of solids generated, this was especially true when the samples gelled, since the gel was relatively colorless.
- When the gel did form it generally looked like small beads having a diameter of about 1/16 - 1/8 inch in diameter.

The above observations were made on EW-6 sample to identify potential treatability issues given the characteristics of the CBP fluid. However, the intent of the study was to concentrate mainly on treatability of the Effluent sample."

B. Jar Testing Of Effluent Sample

A series of jar tests were conducted on the effluent sample. The following procedure was followed for all tests, although it should be noted that not every step was used on all treatments.

Add sulfuric acid
Add coagulant / co-precipitant (ferric chloride, alum, or magnesium chloride)
Add organo-sulfide (TMT-15 or Nalco 8702)
Mix for 10 minutes (15 minutes if organo-sulfide was added)
Polymer addition (Betz AP1120 anionic polymer – 1-2 mg/l)
20 second fast mix, 2 minute slow mix
Settle for 1 hour
Filter supernatant through Whatman #1 filter paper (10 micron) to simulate sand filtration
Analyze filtrate for arsenic, chrome, and mercury

Results are presented on Table 4.

Table 4 - Results of Initial Jar Tests

	No Treatment	Test 1	Test 2	Test 3	Test 4	Test 5	Test 6	Test 7	Test 8	Test 9
Sulfuric acid to pH	---	7.0	9.0	7.0	9.0	7.5	7.5	---	---	---
Sulfuric acid added, mg/l	---	2,540	2,120	2,395	1,870	2,544	2,374	---	---	---
Ferric chloride added, mg/l	---	200	200	500	500	---	---	---	---	---
Alum added, mg/l	---	---	---	---	---	200	500	500	500	500
Magnesium Chloride added, mg/l	---	---	---	---	---	---	---	---	---	---
Sulfuric acid to pH	---	---	---	---	---	---	---	---	9	9
Sulfuric acid added, mg/l	---	---	---	---	---	---	---	---	1,961	1,961
Lime to pH			---	---	---	---	---	---	---	---
Lime added, mg/l	---	---	---	---	---	---	---	---	---	---
TMT-15, mg/l	---	---	---	---	---	---	---	---	---	25
Nalco 8702 added, mg/l	---	---	---	---	---	---	---	---	---	---
NaOH to pH	---	---	---	---	---	---	---	---	---	---
NaOH added, mg/l	---	---	---	---	---	---	---	---	---	---
Mixing time, minutes	---	10	10	10	10	10	10	10	10	15
Final pH	---	6.8	8.9	7	9	7.5	7.5	11.4	9	9
Anionic Polymer (Betz AP1120), mg/l	---	1	1	1	1	1	1	1	1	1
Settled Sludge, %V in 60 minutes	---	10	10	20	15	---	---	---	10	10
Arsenic, 10 micron filtrate, mg/l	0.127	0.094	0.105	0.055	0.111	0.103	0.083	0.066	0.117	0.112
Chrome, 10 micron filtrate, mg/l	0.621	0.551	0.601	0.545	0.59	0.59	0.562	0.564	0.567	0.56
Mercury, 10 micron filtrate, mg/l	0.207	0.179	0.211	0.231	0.194	0.203	0.198	0.194	0.197	0.185

Note: All chemicals were added in the order listed above.

Table 4 - Results of Initial Jar Tests

	No Treatment	Test 10	Test 11	Test 12	Test 13	Test 14	Test 15	Test 16	Test 17
Sulfuric acid to pH	---	---	9.0	9.0	4.5	4.5	7.0	7.5	---
Sulfuric acid added, mg/l	---	---	2,234	2,058	3,535	3,535	2.941	2,651	---
Ferric chloride added, mg/l	---	---	---	---	500	500	500	---	---
Alum added, mg/l	---	---	---	---	---	---	---	200	---
Magnesium Chloride added, mg/l	---	---	---	---	---	---	---	---	500
Sulfuric acid to pH	---	---	---	---	---	---	---	---	---
Sulfuric acid added, mg/l	---	---	---	---	---	---	---	---	---
Lime to pH		---	---	---	8.0	8.0	---	---	---
Lime added, mg/l	---	---	---	---	3,000	3,000	---	---	---
TMT-15, mg/l	---	25	25	---	---	25	25	25	25
Nalco 8702 added, mg/l	---	---	---	25	---	---	---	---	---
NaOH to pH	---	---	---	---	---	---	7.0		---
NaOH added, mg/l	---	---	---	---	---	---	244	133.1	---
Mixing time, minutes	---	15	15	15	10	15	15	15	15
Final pH	---	11.4	9	9	8	8	8	7.5	11.4
Anionic Polymer (Betz AP1120), mg/l	---	1	1	1	2	2	2	1	1
Settled Sludge, %V in 60 minutes	---	<1	<1	<1	40	40	40	---	20
Arsenic, 10 micron filtrate, mg/l	0.127	0.135	0.168	0.111	0.05	< 0.05	< 0.05	0.072	0.083
Chrome, 10 micron filtrate, mg/l	0.621	0.592	0.58	0.581	0.246	0.217	0.496	0.536	0.556
Mercury, 10 micron filtrate, mg/l	0.207	0.199	0.195	0.201	0.065	0.0735	0.165	0.176	0.185

Note: All chemicals were added in the order listed abo Note: All chemicals were added in the order listed above.

C. Additional Jar Tests on Effluent Sample

Based upon the results achieved in the initial jar tests, several additional tests were conducted. The general test procedure used was the same used in the initial jar tests (Section IIIB).

Included in these additional tests was the use of ferrous sulfate and activated carbon. Ferrous sulfate was added to allow for reduction of hexavalent chromium if it was present. The final pH was increased slightly (<9) to allow for precipitation of any iron that was added. In addition, various filters were used to simulate sequential polishing filters.

Activated carbon is often effective in the adsorption of mercury and other heavy metals. In tests were carbon was used, a 400 milliliter sample was pumped through a column of granular activated carbon. Samples were collected after 200 milliliters were processed. The following is a description of the column that was used.

Carbon: ..... Siemens AC1240
Column: ..... 0.6" x 36" glass
Carbon bed depth: ..... 0.6" x 18" (81 ml empty bed volume)
Contact time..... 10 minutes (based on empty bed)
Service: ..... Downflow
Feed method: ..... Positive displacement pump

Results are presented on Table 5

Table 5 - Additional Jar Tests

	No Treatment	Test 18	Test 19	Test 20	Test 21	Test 22	Test 23	Test 24	Test 25	Test 26	Test 27	Test 28	Test 29	Test 30
Sulfuric acid to pH	---	4.5	4.5	7	7	7	7	7	7	7	7	7	7	4.5
Sulfuric acid, mg/l	---	1,961	1,961	1,405	1,405	1,405	1,405	1,405	1,405	1,405	1,405	1,405	1,405	1,961
Ferric chloride, mg/l	---	500	500	500	500	500	500	500	500	500	500	500	500	---
Ferrous sulfate, mg/l	---	---	---	---	---	---	---	---	---	---	---	---	---	500
Lime to pH	---	8	8	---	---	---	---	---	---	---	---	---	---	9.5
Lime, mg/l	---	2,720	2,720	---	---	---	---	---	---	---	---	---	---	3,200
NaOH to pH	---	---	---	7	7	7	7	7	7	7	7	7	7	---
NaOH, mg/l	---	---	---	440	440	440	440	440	440	440	440	440	440	---
TMT-15, mg/l	---	---	---	---	25	---	25	---	25	---	25	---	25	---
Mixing time, minutes	---	10	10	10	10	10	10	10	10	10	10	10	10	10
End pH	---	8	8	7	7	7	7	7	7	7	7	7	7	9.5
AP1120, mg/l	---	1	1	1	1	1	1	1	1	1	1	1	1	1
Settled Sludge, %	---	50	50	50	50	50	50	50	50	50	50	50	50	47
Treatment of Supernatant														
Filter Size	---	1.5	1.5	10	10	1.5	1.5	1.5	1.5	0.45	0.45	0.1	0.1	1.5
Carbon Filtration	---	---	yes	---	---	---	---	yes	yes	---	---	---	---	---
Results														
Arsenic, mg/l	0.127	0.0585	0.206	0.0314	0.027	0.0258	0.027	0.391	0.224	0.0332	0.0204	0.0312	0.0213	0.0603
Chrome, mg/l	0.621	0.137	0.107	0.313	0.303	0.264	0.264	0.226	0.252	0.276	0.267	0.273	0.256	0.117
Mercury, mg/l	0.207	0.0462	0.036	0.106	0.0886	0.0922	0.0851	0.0638	0.0689	0.0785	0.0822	0.078	0.085	0.0528
COD, mg/l	3,804	---	1,010	---	---	---	---	1,490	1,430	---	---	---	---	---
Color, PtCo	15,000	---	2,500	---	---	---	---	7,000	7,000	---	---	---	---	---
Alkalinity, mg/l	---	---	478	---	---	---	---	986	1,080	---	---	---	---	---
TDS	21,800	---	20,500	---	---	---	---	20,600	19,800	---	---	---	---	---

D. Ferrous Sulfate Treatment of Effluent Sample

Based upon the results obtained from the above testing, an additional test was conducted using ferrous sulfate. For this test, the sample was treated and then the supernatant from the original treatment was retreated using the exact same treatment. Six gallons of sample was used to generate sufficient sludge for TCLP testing. The treatment was conducted as follows:

Stage 1

- Sulfuric acid to pH 4.5
- Ferrous sulfate – 500 mg/l (using $FeSO_4$ $7H_2O$)
- Mix 15 minutes
- Lime to pH 9.5
- Mix 15 minutes
- Anionic polymer – 1 mg/l
- Mix 2 minutes
- Settle 1 hour
- Analyze supernatant for total and soluble arsenic, mercury, and chrome
- Conduct a dewatering test and TCLP leach test on the solids generated

Stage 2

The supernatant from Test 1 was re-treated using the same process as shown in stage 1. However, the supernatant was filtered through a 1.5 micron filter prior to analysis and a more complete analysis was conducted.

Results

See Table 6 for chemical doses, quantity of solids generated, and analytical results. See Section III E for a description of the dewatering test and TCLP results.

Table 6 - Analysis of Ferrous Sulfate Double Treatment

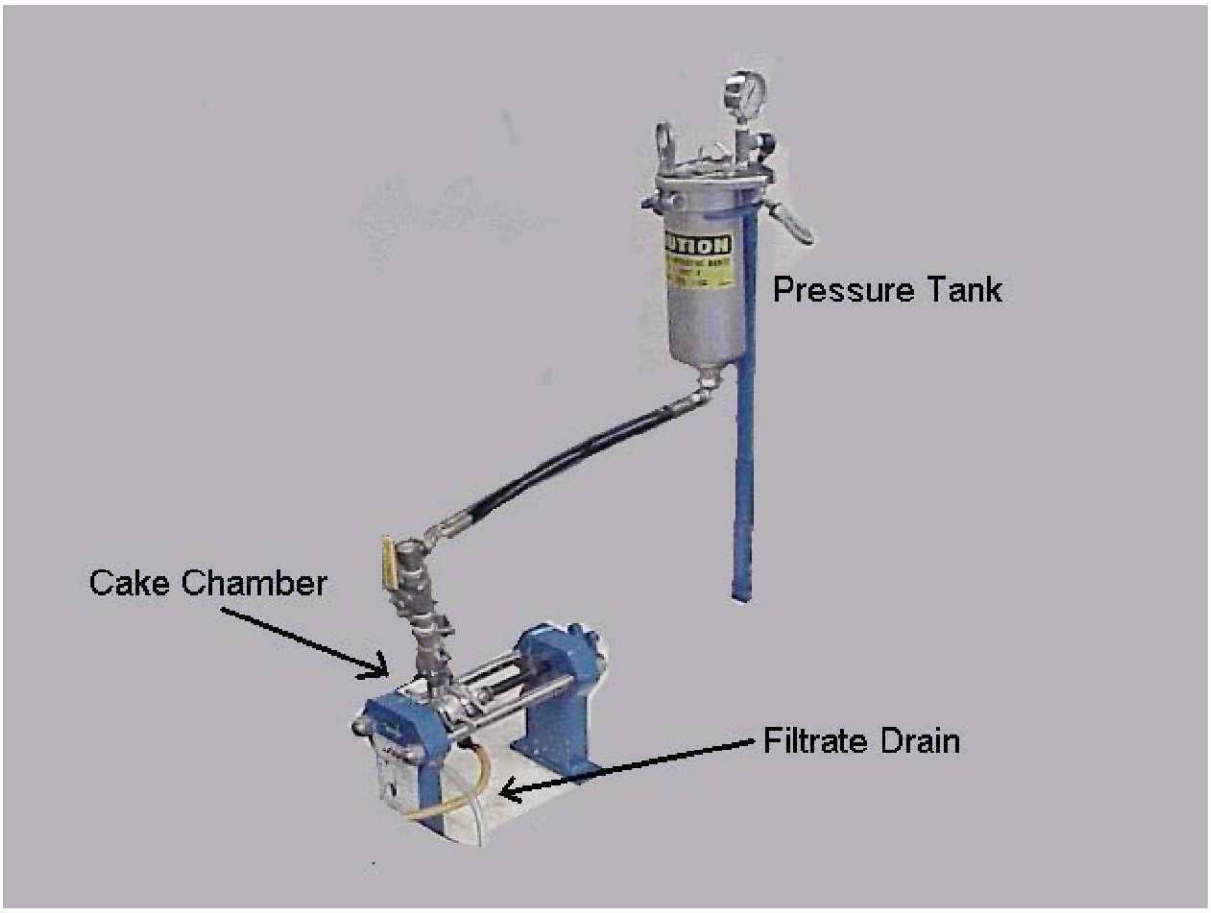
Parameter	Stage 1 Supernatant Total (mg/l)	Stage 1 Supernatant 1.5µ filtered (mg/l)	Stage 2 Supernatant 1.5µ filtered (mg/l)
Sulfuric Acid Dose (mg/l)	3,200	---	630
Lime Dose (mg/l)	1,600	---	640
Solids Generated (mg/l) (1)	2,200	---	280
Settled Solids (%V) (2)	47%	---	7.50%
Aluminum	---	---	0.154
Antimony	---	---	< 0.009
Arsenic	0.0646	0.063	0.0207
Barium	---	---	0.26
Beryllium	---	---	0.00257
Cadmium	---	---	< 0.003
Calcium	---	---	706
Chromium	0.105	0.104	0.0386
Cobalt	---	---	< 0.009
Copper	---	---	0.0183
Iron	---	---	0.245
Lead	---	---	< 0.0045
Magnesium	---	---	1.84
Manganese	---	---	0.0186
Mercury	0.0627	0.0581	0.0385
Nickel	---	---	0.109
Potassium	---	---	9.44
Selenium	---	---	0.0154
Silver	---	---	< 0.003
Sodium	---	---	7,380
Thallium	---	---	< 0.003
Zinc	---	---	0.0419
TDS	---	---	21,100
BOD	---	---	< 200
COD	---	---	1,040
Silica	---	---	20.6
Color	---	---	2,250
pH	---	---	8.62

(1) - Solids generated during treatment (TSS prior to settling)
(2) - Sludge volume after 1 hour settling

E. Dewatering and TCLP Testing of Effluent Sample

A dewatering test was conducted on the sludge obtained from the first stage treatment of the effluent sample (see Section III D). The test was conducted using a laboratory scale filter press. The press consists of a pressurized holding tank, a feed line, and a dewatering chamber. The chamber has filter cloths and closure plates on both sides and is closed using a hydraulic pump (6,000 psi). The chamber used for this test was 2 inches in diameter and was 1.25 inches thick (total volume = 64 ml = 0.00227 ft^3). A photo of the set up is shown in Figure 2.

Figure 2 – Lab Filter Press



Test Details

The cake chamber is gradually filled by ramping the pressure up to 100 psi in 25 psi intervals (the pressure is increased to the next level when the filtrate flow drops below 2 ml/min).

Pressure (PSI)	Time (min)	Incremental Filtrate (mLs)	Total Filtrate (mLs)
25	35	260	260
50	45	220	480
75	100	180	660
100	180	100	760

Since the test was taking longer than what is typical, the pressure tank was emptied and filled with sludge that had since settled from 47%V to 30%V. The press was restarted @ 100 psi and put on a timer for 9 additional hours. A total of 560 mls of filtrate was collected during the additional time.

The filter cake was firm in parts with softness around edges. The cake was analyzed for dry solids (the firmer portion and a fully mixed portion).

Firmer portion:.....16.9%
Fully-mixed portion:.....14%

Paint Filter Test.....Passed

A TCLP was performed on the entire filter cake. Results are presented in Table 7.

The primary purpose of this test was to generate a cake on which a TCLP Test could be conducted. Additional clarifier thickening prior to filter press testing has the potential to produce a sludge with a higher dry solids content than that tested here.

Table 7 – TCLP Results

	TCLP Extract (mg/l)
Arsenic	0.061
Barium	1.22
Cadmium	<0.0034
Chromium	0.0606
Copper	<0.008
Lead	0.062
Mercury	0.00248
Nickel	0.075
Selenium	<0.036
Silver	<0.012
Zinc	0.790

F. Testing of EW-Sample

Two tests were conducted using the EW-6 sample. One test was conducted using only sample EW-6 and the other test was conducted on a 50/50 mixture of EW-6 and the Effluent sample. The following treatment was used on each solution.

Stage 1

- Sulfuric acid to pH 4.5
- Ferrous sulfate – 500 mg/l (using $FeSO_4$ $7H_2O$)
- Mix 15 minutes
- Lime to pH 9
- Mix 15 minutes
- Anionic polymer – 1 mg/l
- Mix 2 minutes
- Settle 1 hour

Stage 2

The supernatant from Stage 1 was re-treated using the same process, filtered through 1.5 micron filter paper, and then analyzed.

The results can be found on Table 8

Table 8 - Results of Treatment of EW-6 Sample

	EW-6 Only Untreated	EW-6 Only Treated	EW-6 / Effluent Untreated [1]	EW-6 / Effluent Treated
Sulfuric acid used (mg/l)	---	20,000	---	12,200
Lime used (mg/l)	---	4,000	---	3,300
Polymer used (mg/l)	---	1	---	1
Solids generated, mg/l	---	13,200	---	8,160
Sulfuric acid used (mg/l)	---	3,900	---	1,175
Lime used (mg/l)	---	600	---	600
Polymer used (mg/l)	---	1	---	1
Solids generated, mg/l	---	1,340	---	1,480
Settle solids after 60 minutes	---	64%	---	52%
Arsenic, mg/l	0.529	0.0793	0.328	0.0602
Chromium, mg/l	0.184	0.0512	0.2555	0.0384
Mercury, mg/l	1.09	0.245	0.677	0.143
TDS, mg/l	62,800	50,050	39,900	35,660
COD, mg/l	13,600 [2]	1,710	8,385	1,210

(1) - Calculated value based on analysis of each individual sample

(2) - This value is suspect, (TOC is only 987 mg/l)

APPENDIX C.3

WESTECH ONSITE TREATABILITY TESTING REPORT

WesTech
an employee-owned company

Laboratory Test Report

For:

Parsons

Treatment of Caustic Brine Pool Water
Honeywell Brunswick site in Brunswick, GA

Furnished By:
WesTech Engineering, Inc.
Salt Lake City, Utah
Completed By: Mike Chambers
Phone: (801) 265-1000
Fax: (801) 265-1080

WesTech Proposal: 1110371
Date: October 20, 2011

Introduction

Two samples of Caustic Brine Pool (CBP) water sample water from the Honeywell Brunswick site in Brunswick, GA, were sent to WesTech for evaluation. One sample was a composite from multiple wells and was labeled Eff. The second was from a reported higher strength source labeled EW-6. Each sample was shipped in a 55 gallon plastic drum and consisted of a dark brown colored liquid. The TSS on each was very low. The pH for the Eff sample was 11.3 and 12.6 for the EW-6 sample.

All jar testing was completed using a Phipps & Bird, Six-Jar Paddle Stirrer with square 2-Liter jars. Analysis of arsenic, chromium and mercury was done at American West Analytical Laboratory in Salt Lake City, Utah.

Preliminary Testing

Initially jar testing was done on the Eff sample using hydrochloric and sulfuric acid to neutralize the pH to 7.5. In addition to the acid, various dosages of ferric chloride, sodium sulfide, and polymer were evaluated.

In each case, when the pH was lowered, a large amount of silica gel was produced. Mixing times of up to 2 hours were required for the gel to form. If allowed to settle undisturbed, the majority of the gel settled out to a volume of 30-40% of the original sample volume within one hour. A portion of the gel remained suspended in the supernatant and did not settle even when allowed to sit overnight. Samples of the supernatant blinded a 1.5 micron filter pad almost immediately. A portion of the gel coated the mixing blade and beaker walls.

In an effort to remove the suspended material, higher dosages of the ferric chloride were evaluated with no effect other than creating larger amount of settle sludge due to the larger amount of iron floc precipitated. Dosages of up to 1,000 mg/L were evaluated. In addition to the coagulant, various types of polymers were evaluated with similar results, the suspended material remained.

Based on these results it was determined that clarification may not be a viable option due to the amount of material remaining in the supernatant.

Precoat Filtration

Precoat filtration was evaluated next. Precoat filtration uses a sacrificial bed of Diatomaceous Earth (DE) as the filtering medium. An advancing knife continuously removes all of the deposited solids plus a thin layer of the precoat bed. This procedure provides reliable cake discharge and presents a clean filtering surface to the process slurry on each revolution of the filter. Since the flow rate is relatively small, the entire flow could go through the precoat filter.

The samples were treated as above with sulfuric acid, ferric chloride, sodium sulfide and polymers. Several grades of DE were evaluated, ranging from coarse to fine. Initial testing used samples that had been chemically treated the previous day. The samples were mixed to resuspend any settle solids before filtration.

Initial results looked promising. The samples filtered relatively quickly leaving a thin layer of dewatered gel on the surface which was easily removed. But after 7 or 8 samples were filtered, the filtration time began to increase to an unacceptable time indicating solids were penetrating the DE and blinding it. A ¼ inch layer of DE was removed to see how far the solids were penetrating. The filtration time decreased for several more tests before increasing to an unacceptable level again. Multiple tighter grades of DE were evaluated with the same results.

The following day new samples were chemically treated as above and tested on the precoat unit. This time the precoat was immediately blinded by the solids with little or no liquid going through the DE bad. Different grades of DE were again evaluated with the same results. At this time it is unclear why the fresh treated sample blinded the filter immediately and the old sample took multiple tests to blind. Either way it appears with this chemical pretreatment, precoat filtration is not a viable option due to blinding of the DE bed.

Magnesium Chloride Addition

At this time it was suggested that pretreatment with magnesium chloride could be used to help remove the silica before the gel could form. Several jar tests were completed with the Eff sample using the MgCl2 as a pre-treatment. Samples were allowed to mix for an extended time to see if gel would form. If the sample was treated with 500 mg/L MgCl2, a small amount of non-gel looking solids formed and slowly settled over the course of several hours. Filtering a sample of the supernatant showed a fair amount of small particles were still not settling. Several polymers were tried to see if they could flocculate the solids and cause them to settle quicker but they did not seen to help.

Next, several jars with MgCl2 followed by pH adjustment, ferric, and a final pH in the 7-7.5 range were tried. Again the gel did not seem to form even with extended mixing. The solids looked more like a typical ferric floc. But the same issue with solids in the supernatant remained, an excessive amount of solids on the filter pad even after 3-4 hour settling period. Some polymers seemed to help flocculate the solids that settled anyway, but did not help with the colloidal solids in the supernatant.

A series of jar tests were completed with variations of chemical dosages and pH's. The following five jar tests were all completed with pretreatment with magnesium chloride. The final pH was varied and two tests included lime for co-precipitation. In the samples with lime, the pH was lowered with acid to the 3 to 4 range, and then raised back up with lime. The following lists the chemical treatment and mixing procedures.

1 – 1 liter sample, initial pH 11.3
Add 500 mg/L MgCl2, mix 15 minutes,
Adjust pH to 8.5 with sulfuric acid,
Add 500 mg/L FeCl3 – pH 7.4
Add 200 mg/L Sodium Sulfide – pH 7.32
Mix for 1 hour

2 – 1 liter sample, initial pH 11.3
Add 500 mg/L MgCl2, mix 15 minutes,
Adjust pH to 10.0 with sulfuric acid,

Add 500 mg/L FeCl3 – pH 9.6
Add 200 mg/L Sodium Sulfide – pH 9.66
Add additional sulfuric acid to pH 9.0
Mix for 1 hour

3 – 1 liter sample, initial pH 11.3
Add 500 mg/L MgCl2, mix 15 minutes,
Adjust pH to 10.0 with sulfuric acid,
Add 500 mg/L FeCl3 – pH 9.6
Add additional sulfuric acid to pH 9.0
Mix for 1 hour

4 – 1 liter sample, initial pH 11.3
Add 500 mg/L MgCl2, mix 15 minutes,
Adjust pH to 5.0 with sulfuric acid,
Add 500 mg/L FeCl3 – pH 3.70
Add 200 mg/L Sodium Sulfide – pH 4.17
Raise pH to 7.0 with lime (calcium hydroxide), ~1,500 mg/L lime.
Mix for 1 hour

5 – 1 liter sample, initial pH 11.3
Add 500 mg/L MgCl2, mix 15 minutes,
Adjust pH to 5.0 with sulfuric acid,
Add 500 mg/L FeCl3 – pH 3.60
Add 200 mg/L Sodium Sulfide – pH 4.2
Raise pH to 9.0 with lime (calcium hydroxide), ~2,100 mg/L lime.
Mix for 1 hour

Samples of the supernatants from these jar tests were filtered through a 1.5 micron filter pad and sent to an outside analytical laboratory for analysis of arsenic, chromium and mercury. Filtering the samples through the 1.5 micron pad was difficult. Only 20-30 mL could be filtered before the pad became blinded. Filtering the samples before analysis will show if the chemistry is working.

These samples with lime clarified and filtered much better than the other samples. Also the brown color was noticeably reduced.
The results from these tests are tabulated below.

	Arsenic	Chromium	Mercury
Untreated*	127 ppb	327 ppb	246 ppb
Treatment			
1 (see below)	103 ppb	518 ppb	164 ppb
2	132 ppb	612 ppb	200 ppb
3	118 ppb	584 ppb	185 ppb
4	74.8 ppb	239 ppb	62.7 ppb
5	58.3 ppb	175 ppb	55.3 ppb

* - Customer supplied analysis

The samples treated with lime had a substantial reduction in arsenic, chromium and mercury when compared to the others.

Double Chemical Precipitation

With these results, WesTech was asked to evaluate the effectiveness of a double chemical precipitation treatment on the Eff. sample. The clarified supernatant from the first treatment would be retreated using the same chemical process. The optimal chemical treatment from previous testing was used as the basis for this experiment. The amount of solids generated was also measured.

The optimal chemical treatment from the preliminary testing, Test #5, was used. The testing parameters are listed below.

1st Stage:

2 liter sample, initial pH 11.3
Add 500 mg/L MgCl2, mix 15 minutes,
Adjust pH to 5.0 with sulfuric acid,
Add 500 mg/L FeCl3 – pH 3.60
Add 200 mg/L Sodium Sulfide – pH 4.2
Raise pH to 9.0 with lime (calcium hydroxide), ~2,100 mg/L lime.
Mix for 1 hour
Allow solids to settle and decant clarified water for 2nd stage testing.

Sludge generated from 1st stage treatment – 4,740 mg/L.

2nd Stage:

1 liter sample, initial pH 11.3
Add 500 mg/L MgCl2, mix 15 minutes,
Adjust pH to 5.0 with sulfuric acid,
Add 500 mg/L FeCl3 – pH 2.3
Add 200 mg/L Sodium Sulfide – pH 3.8
Raise pH to 9.0 with lime (calcium hydroxide), ~900 mg/L lime.
Mix for 1 hour

Sludge generated from 2nd stage treatment – 1,580 mg/L.

The second stage clarified water had noticeably less residual brown color than the untreated water or the clarified first stage water.

A sample of clarified water from the second stage was filtered through a 1.5 micron filter pad before being sent out for analysis. The results are listed below:

Arsenic	–	15.8 ppb
Chromium	–	<100 ppb
Mercury	–	23.6 ppb

The two stage treatment produced a substantial reduction in arsenic, chromium and mercury over the single stage treatment.

Activated Carbon Evaluation

It was also requested that a sample be evaluated with the addition of activated carbon (Norit PAC 20BF) by dosing a sample with powdered activated carbon (PAC). The goal was to determine whether PAC would be effective in removing metals, particularly mercury. A sample was treated following the treatment #5 above followed by the PAC.

The sample was treated as shown below:

2 liter sample, initial pH 11.3
Add 500 mg/L MgCl2, mix 15 minutes,
Adjust pH to 5.0 with sulfuric acid,
Add 500 mg/L FeCl3 – pH 3.60
Add 200 mg/L Sodium Sulfide – pH 4.2
Raise pH to 9.0 with lime (calcium hydroxide), ~2,100 mg/L lime.
Mix for 1 hour
Allow solids to settle and decant clarified water for PAC testing.
Add 1 gram of PAC to a one liter sample and allow it to mix for 60 minutes.
Filter and test for residual metals.

A sample of clarified water was filtered through a 1.5 micron filter pad before being sent out for analysis. The results are very similar to the best single stage test without PAC, suggesting this particular PAC does not help. The results are listed below:

Arsenic - 66.4 ppb
Chromium - 144 ppb
Mercury - 45.7 ppb

TCLP testing on 1st stage sludge:

TCLP metals and TCLP mercury analysis was requested on the single stage sludge. In order to generate enough sludge for TCLP metals testing, 6 L of water were treated following the first stage procedure listed above. A second polymer evaluation found that CIBA Magnafloc 155 anionic polymer was effective for flocculating the generated solids when lime was used. The MF155 polymer still did not completely clarify the liquid. There was still some fine material that did not settle even after an extended period.

After flocculation, the solids were allowed to thicken as much as possible in the test beaker. The clarified water was decanted. The remaining solids were dewatered with vacuum on a 7" Buchner funnel using a coffee filter as the filter media. It took approximately 20-30 minutes to dewater about 1 liter of settled solids. The solids were wet and very sticky with a TSS of ~14 wt%. These solids were sent out of TCLP Metals analysis.

The results from the TCLP metals testing are listed in the Appendix to this report.

Second Precoat Filtration:

Because MF155 polymer worked well to flocculate the solids from the first stage lime treatment, another precoat filtration test series was completed. It was thought that because the solids were flocculated it would prevent the small particles from penetrating the DE bed and blinding the filter as had previously happened.

With the use of polymer, no signs of blinded were seen. Testing indicated that precoat vacuum filtration maybe a viable option when polymer is used. At 30 gpm and allowing for deposition of the DE bed, the approximate filter would be a 6'diameter x 4' wide. The filtrate will be very clean. The formed cake will be dry at approximately 24wt% solids and will not release any additional water.

50:50 Mixture of EW-6 and Eff. Sample**:**

WesTech was asked to evaluate the effectiveness of a double chemical precipitation treatment on a 50:50 mix of EW-6 and Eff. sample. The optimal chemical treatment from the preliminary testing, Test #5, was used. The clarified supernatant from the first treatment would be retreated using the same chemical process. In addition to arsenic, chromium and mercury, silica, chemical oxygen demand (COD) and total dissolved solids (TDS) were also measured. The testing parameters are listed below:

1st Stage:

2 liter 50:50 sample, initial pH 12.3
Add 500 mg/L MgCl2, mix 15 minutes,
Adjust pH to 5.0 with sulfuric acid,
Add 500 mg/L FeCl3 – pH 3.8
Add 200 mg/L Sodium Sulfide – pH 4.2
Raise pH to 9.0 with lime (calcium hydroxide), ~2,000 mg/L lime.
Mix for 1 hour
Allow solids to settle and decant clarified water for 2nd stage testing.

Sludge generated from 1st stage treatment – 12,450 mg/L.

Arsenic	–	210 ppb
Chromium	–	<100 ppb
Mercury	–	198 ppb
Silica	–	141 mg/L
COD	–	2,130 mg/L
TDS	–	45,660 mg/L

2nd Stage:

1 liter sample, initial pH 9.0
Add 500 mg/L MgCl2, mix 15 minutes,
Adjust pH to 5.0 with sulfuric acid,
Add 500 mg/L FeCl3 – pH 2.5
Add 200 mg/L Sodium Sulfide – pH 4.1
Raise pH to 9.0 with lime (calcium hydroxide), ~800 mg/L lime.
Mix for 1 hour

Sludge generated from 2nd stage treatment – 1,100 mg/L.

Arsenic	–	32.6 ppb
Chromium	–	<100 ppb
Mercury	–	127 ppb
Silica	–	56 mg/L
COD	–	2,090 mg/L
TDS	–	40,170 mg/L

As can be seen above the solids generated in the first and second stage was much higher than the Eff sample alone.

EW-6 Sample:

WesTech also evaluated the effectiveness of a double chemical precipitation treatment on the EW-6 sample. The optimal chemical treatment from the preliminary testing, Test #5, was used. As above, the clarified supernatant from the first treatment would be retreated using the same chemical process. The testing parameters are listed below:

1st Stage:

2 liter sample, initial pH 12.6
Add 500 mg/L MgCl2, mix 15 minutes,
Adjust pH to 5.0 with sulfuric acid,
Add 500 mg/L FeCl3 – pH 4.4
Add 200 mg/L Sodium Sulfide – pH 4.7
Raise pH to 9.0 with lime (calcium hydroxide), ~5,000 mg/L lime.
Mix for 1 hour
Allow solids to settle and decant clarified water for 2nd stage testing.

Sludge generated from 1st stage treatment – 22,910 mg/L.

Arsenic	–	417 ppb
Chromium	–	<100 ppb
Mercury	–	428 ppb
Silica	–	115 mg/L
COD	–	2640 mg/L
TDS	–	55,390 mg/L

2nd Stage:

1 liter sample, initial pH 9.0
Add 500 mg/L MgCl2, mix 15 minutes,
Adjust pH to 5.0 with sulfuric acid,
Add 500 mg/L FeCl3 – pH 3.2
Add 200 mg/L Sodium Sulfide – pH 4.6
Raise pH to 9.0 with lime (calcium hydroxide), ~1,100 mg/L lime.
Mix for 1 hour

Sludge generated from 2nd stage treatment – 1,320 mg/L.

Arsenic	–	61.2 ppb
Chromium	–	<100 ppb
Mercury	–	278 ppb
Silica	–	92 mg/L
COD	–	1970 mg/L
TDS	–	55,470 mg/L

The results show that a very large amount of solids are generated in the first stage with the EW-6 sample. Also the lime dosage required to raise the pH was substantially higher than that for the Eff sample at ~5,000 mg/L.

Appendix

American West
ANALYTICAL LABORATORIES

463 West 3600 South
Salt Lake City, UT 84115

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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

INORGANIC ANALYTICAL REPORT

Client: Westech Engineering **Contact:** Mike Chambers
Project: Westech
Lab Sample ID: 1109198-002
Client Sample ID: #2
Collection Date: 9/9/2011 1500h
Received Date: 9/12/2011 1032h

Analytical Results TCLP METALS Method 1311

TCLP Prep Date: 9/12/2011 1700h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Antimony	mg/L	9/13/2011 1711h	9/13/2011 2232h	SW6020A	0.00500	< 0.00500	*
Arsenic	mg/L	9/13/2011 1711h	9/13/2011 2232h	SW6020A	0.00300	**0.0493**	
Barium	mg/L	9/13/2011 1711h	9/13/2011 2232h	SW6020A	0.00200	**0.0297**	
Beryllium	mg/L	9/13/2011 1711h	9/13/2011 2232h	SW6020A	0.00300	< 0.00300	*
Cadmium	mg/L	9/13/2011 1711h	9/13/2011 2232h	SW6020A	0.000900	< 0.000900	*
Chromium	mg/L	9/13/2011 1711h	9/14/2011 1020h	SW6010C	0.0100	**0.0539**	
Lead	mg/L	9/13/2011 1711h	9/13/2011 2232h	SW6020A	0.00200	< 0.00200	*
Mercury	mg/L	9/13/2011 1545h	9/14/2011 0759h	SW7470A	0.0100	< 0.0100	*
Nickel	mg/L	9/13/2011 1711h	9/13/2011 2232h	SW6020A	0.00400	**0.0663**	
Selenium	mg/L	9/13/2011 1711h	9/13/2011 2232h	SW6020A	0.00400	< 0.00400	*
Silver	mg/L	9/13/2011 1711h	9/13/2011 2232h	SW6020A	0.00200	< 0.00200	*
Thallium	mg/L	9/13/2011 1711h	9/13/2011 2232h	SW6020A	0.00200	< 0.00200	*
Zinc	mg/L	9/13/2011 1711h	9/13/2011 2232h	SW6020A	0.0250	**0.0350**	

** - The reporting limits were raised due to sample matrix interferences.*

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

INORGANIC ANALYTICAL REPORT

Client: Westech Engineering **Contact:** Mike Chambers
Project: Westech
Lab Sample ID: 1109198-002
Client Sample ID: #2
Collection Date: 9/9/2011 1500h
Received Date: 9/12/2011 1032h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cyanide	mg/kg-dry	9/13/2011 1121h	9/13/2011 1353h	SW9012B	0.378	< 0.378	3

3 - Matrix spike recoveries and/or high RPDs indicate suspected sample non-homogeneity. The method is in control as indicated by the LCS.

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and or analysis in good faith and according to the rules of the trade and of science.

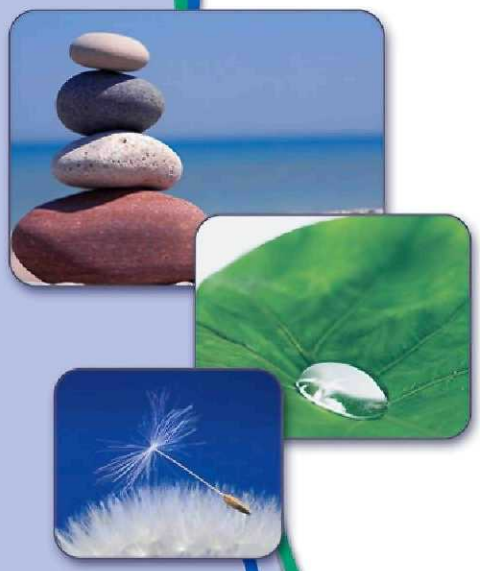
APPENDIX C.4

PARSONS ONSITE TREATABILITY TESTING DATA

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT



TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-71534-1

Client Project/Site: Honeywell - Brunswick Site Metals & COD

For:
Parsons Corporation
3577 Parkway Lane
Suite 100
Norcross, Georgia 30092

Attn: Mr. James Frere

Linda A. Wolfe

Authorized for release by:
08/26/2011 10:11:03 AM

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com

LINKS

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Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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Certification Summary 13

Sample Summary

Client: Parsons Corporation
Project/Site: Honeywell - Brunswick Site Metals & COD

TestAmerica Job ID: 680-71534-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-71534-1	Jar 1	Water	08/18/11 15:30	08/19/11 09:46
680-71534-2	Jar 2	Water	08/18/11 15:40	08/19/11 09:46
680-71534-3	Jar 3	Water	08/18/11 15:50	08/19/11 09:46
680-71534-4	Jar 4	Water	08/18/11 16:00	08/19/11 09:46
680-71534-5	Jar 5	Water	08/18/11 16:10	08/19/11 09:46
680-71534-6	Raw Filt	Water	08/18/11 16:20	08/19/11 09:46

Method Summary

Client: Parsons Corporation
Project/Site: Honeywell - Brunswick Site Metals & COD

TestAmerica Job ID: 680-71534-1

Method	Method Description	Protocol	Laboratory
200.7 Rev 4.4	Metals (ICP)	40CFR136A	TAL SAV
245.1	Mercury (CVAA)	EPA	TAL SAV
SM 5220D	COD	SM	TAL SAV

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 SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Client: Parsons Corporation
Project/Site: Honeywell - Brunswick Site Metals & COD

TestAmerica Job ID: 680-71534-1

Client Sample ID: Jar 1

Lab Sample ID: 680-71534-1

Date Collected: 08/18/11 15:30
Date Received: 08/19/11 09:46

Matrix: Water

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	75.6		20.0	4.6	ug/L		08/22/11 11:04	08/24/11 06:03	1
Chromium	184		10.0	1.2	ug/L		08/22/11 11:04	08/24/11 06:03	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	156		10.0	4.6	ug/L		08/24/11 08:13	08/24/11 17:53	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	2610		400	126	mg/L			08/24/11 10:12	20

Client Sample ID: Jar 2

Lab Sample ID: 680-71534-2

Date Collected: 08/18/11 15:40
Date Received: 08/19/11 09:46

Matrix: Water

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	90.5		20.0	4.6	ug/L		08/22/11 11:04	08/24/11 06:09	1
Chromium	145		10.0	1.2	ug/L		08/22/11 11:04	08/24/11 06:09	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	194		10.0	4.6	ug/L		08/24/11 08:16	08/24/11 17:56	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	2790		400	126	mg/L			08/24/11 10:12	20

Client Sample ID: Jar 3

Lab Sample ID: 680-71534-3

Date Collected: 08/18/11 15:50
Date Received: 08/19/11 09:46

Matrix: Water

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	55.7		20.0	4.6	ug/L		08/22/11 11:04	08/24/11 06:15	1
Chromium	269		10.0	1.2	ug/L		08/22/11 11:04	08/24/11 06:15	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	122		10.0	4.6	ug/L		08/24/11 08:16	08/24/11 18:00	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	2650		400	126	mg/L			08/24/11 10:12	20

Client: Parsons Corporation
Project/Site: Honeywell - Brunswick Site Metals & COD

TestAmerica Job ID: 680-71534-1

Client Sample ID: Jar 4

Lab Sample ID: 680-71534-4

Date Collected: 08/18/11 16:00
Date Received: 08/19/11 09:46

Matrix: Water

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	84.1		20.0	4.6	ug/L		08/22/11 11:04	08/24/11 06:21	1
Chromium	225		10.0	1.2	ug/L		08/22/11 11:04	08/24/11 06:21	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	171		10.0	4.6	ug/L		08/24/11 08:16	08/24/11 18:03	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	2520		400	126	mg/L			08/24/11 10:12	20

Client Sample ID: Jar 5

Lab Sample ID: 680-71534-5

Date Collected: 08/18/11 16:10
Date Received: 08/19/11 09:46

Matrix: Water

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	71.6		20.0	4.6	ug/L		08/22/11 11:04	08/24/11 06:28	1
Chromium	306		10.0	1.2	ug/L		08/22/11 11:04	08/24/11 06:28	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	214		10.0	4.6	ug/L		08/24/11 08:16	08/24/11 18:07	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	3290		400	126	mg/L			08/24/11 10:12	20

Client Sample ID: Raw Filt

Lab Sample ID: 680-71534-6

Date Collected: 08/18/11 16:20
Date Received: 08/19/11 09:46

Matrix: Water

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	108		20.0	4.6	ug/L		08/22/11 11:04	08/24/11 06:34	1
Chromium	379		10.0	1.2	ug/L		08/22/11 11:04	08/24/11 06:34	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	172		10.0	4.6	ug/L		08/25/11 10:15	08/25/11 18:05	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	2840		400	126	mg/L			08/24/11 10:12	20

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 680-212493/1-A
Matrix: Water
Analysis Batch: 212773

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 212493

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20.0	U	20.0	4.6	ug/L		08/22/11 11:02	08/24/11 04:32	1
Chromium	10.0	U	10.0	1.2	ug/L		08/22/11 11:02	08/24/11 04:32	1

Lab Sample ID: LCS 680-212493/2-A
Matrix: Water
Analysis Batch: 212773

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 212493

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	2000	1933		ug/L		97	85 - 115
Chromium	200	198.6		ug/L		99	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 680-212712/1-A
Matrix: Water
Analysis Batch: 212811

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 212712

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		08/24/11 08:13	08/24/11 16:24	1

Lab Sample ID: LCS 680-212712/3-A
Matrix: Water
Analysis Batch: 212811

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 212712

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	2.39		ug/L		95	85 - 115

Lab Sample ID: 240-2850-C-1-C MS
Matrix: Water
Analysis Batch: 212811

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 212712

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.20	U	1.00	0.839		ug/L		84	70 - 130

Lab Sample ID: 240-2850-C-1-D MSD
Matrix: Water
Analysis Batch: 212811

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 212712

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	0.913		ug/L		91	70 - 130	8	20

Lab Sample ID: MB 680-212821/1-A
Matrix: Water
Analysis Batch: 213005

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 212821

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		08/25/11 10:15	08/25/11 17:07	1

Method: 245.1 - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 680-212821/3-A
Matrix: Water
Analysis Batch: 213005

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 212821

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	2.50	2.49		ug/L		100	85 - 115

Method: SM 5220D - COD

Lab Sample ID: MB 680-212736/3
Matrix: Water
Analysis Batch: 212736

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	20.0	U	20.0	6.3	mg/L			08/24/11 10:12	1

Lab Sample ID: LCS 680-212736/4
Matrix: Water
Analysis Batch: 212736

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Chemical Oxygen Demand	100	98.45		mg/L		98	90 - 110

Lab Sample ID: 680-71591-A-2 MS
Matrix: Water
Analysis Batch: 212736

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Chemical Oxygen Demand	20.0	U	100	103.0		mg/L		103	90 - 110

Lab Sample ID: 680-71591-A-2 MSD
Matrix: Water
Analysis Batch: 212736

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Chemical Oxygen Demand	20.0	U	100	103.0		mg/L		103	90 - 110	0	30

Lab Chronicle

Client: Parsons Corporation
Project/Site: Honeywell - Brunswick Site Metals & COD

TestAmerica Job ID: 680-71534-1

Client Sample ID: Jar 1

Lab Sample ID: 680-71534-1

Date Collected: 08/18/11 15:30
Matrix: Water
Date Received: 08/19/11 09:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	200.7			212493	08/22/11 11:04	RAM	TAL SAV
Total/NA	Analysis	200.7 Rev 4.4		1	212773	08/24/11 06:03	BCB	TAL SAV
Total/NA	Prep	245.1			212712	08/24/11 08:13	JKL	TAL SAV
Total/NA	Analysis	245.1		50	212811	08/24/11 17:53	CE	TAL SAV
Total/NA	Analysis	SM 5220D		20	212736	08/24/11 10:12	DAM	TAL SAV

Client Sample ID: Jar 2

Lab Sample ID: 680-71534-2

Date Collected: 08/18/11 15:40
Matrix: Water
Date Received: 08/19/11 09:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	200.7			212493	08/22/11 11:04	RAM	TAL SAV
Total/NA	Analysis	200.7 Rev 4.4		1	212773	08/24/11 06:09	BCB	TAL SAV
Total/NA	Prep	245.1			212712	08/24/11 08:16	JKL	TAL SAV
Total/NA	Analysis	245.1		50	212811	08/24/11 17:56	CE	TAL SAV
Total/NA	Analysis	SM 5220D		20	212736	08/24/11 10:12	DAM	TAL SAV

Client Sample ID: Jar 3

Lab Sample ID: 680-71534-3

Date Collected: 08/18/11 15:50
Matrix: Water
Date Received: 08/19/11 09:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	200.7			212493	08/22/11 11:04	RAM	TAL SAV
Total/NA	Analysis	200.7 Rev 4.4		1	212773	08/24/11 06:15	BCB	TAL SAV
Total/NA	Prep	245.1			212712	08/24/11 08:16	JKL	TAL SAV
Total/NA	Analysis	245.1		50	212811	08/24/11 18:00	CE	TAL SAV
Total/NA	Analysis	SM 5220D		20	212736	08/24/11 10:12	DAM	TAL SAV

Client Sample ID: Jar 4

Lab Sample ID: 680-71534-4

Date Collected: 08/18/11 16:00
Matrix: Water
Date Received: 08/19/11 09:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	200.7			212493	08/22/11 11:04	RAM	TAL SAV
Total/NA	Analysis	200.7 Rev 4.4		1	212773	08/24/11 06:21	BCB	TAL SAV
Total/NA	Prep	245.1			212712	08/24/11 08:16	JKL	TAL SAV
Total/NA	Analysis	245.1		50	212811	08/24/11 18:03	CE	TAL SAV
Total/NA	Analysis	SM 5220D		20	212736	08/24/11 10:12	DAM	TAL SAV

Lab Chronicle

Client: Parsons Corporation
Project/Site: Honeywell - Brunswick Site Metals & COD

TestAmerica Job ID: 680-71534-1

Client Sample ID: Jar 5

Lab Sample ID: 680-71534-5

Date Collected: 08/18/11 16:10
Matrix: Water
Date Received: 08/19/11 09:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	200.7			212493	08/22/11 11:04	RAM	TAL SAV
Total/NA	Analysis	200.7 Rev 4.4		1	212773	08/24/11 06:28	BCB	TAL SAV
Total/NA	Prep	245.1			212712	08/24/11 08:16	JKL	TAL SAV
Total/NA	Analysis	245.1		50	212811	08/24/11 18:07	CE	TAL SAV
Total/NA	Analysis	SM 5220D		20	212736	08/24/11 10:12	DAM	TAL SAV

Client Sample ID: Raw Filt

Lab Sample ID: 680-71534-6

Date Collected: 08/18/11 16:20
Matrix: Water
Date Received: 08/19/11 09:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	200.7			212493	08/22/11 11:04	RAM	TAL SAV
Total/NA	Analysis	200.7 Rev 4.4		1	212773	08/24/11 06:34	BCB	TAL SAV
Total/NA	Prep	245.1			212821	08/25/11 10:15	JKL	TAL SAV
Total/NA	Analysis	245.1		50	213005	08/25/11 18:05	CE	TAL SAV
Total/NA	Analysis	SM 5220D		20	212736	08/24/11 10:12	DAM	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Chain of Custody Record

TestAmerica

Client Information	Sampler: Ted Schlaenberg	Lab PM: Wolfe, Linda	Carrier Tracking No(s):	COC No: 680-35767-16287.2
Client Contact: Mr. James Frere	Phone: 315-552-9729	E-Mail: linda.wolfe@testamericainc.com		Page: Page 2 of 2
Company: Parsons Corporation				Job #:
Address: 3577 Parkway Lane Suite 100	Due Date Requested:			
City: Norcross	TAT Requested (days): 3-day or asap			
State, Zip: GA, 30092				
Phone: 678-969-2356(Tel)	PO #: 4500024670			
Email: james.frere@parsons.com	WO #:			
Project Name: Honeywell - Brunswick Site ** Metals & (cO)	Project #: 68009077			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solic, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	200.7_CWA - 200.7: Arsenic & Chromium , Hg: 245.1	5220D - Chemical Oxygen Demand	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	S		
Jar 1	3/18/11	1530	G	Water						Samples may have silica.
Jar 2		1540								
Jar 3		1550								
Jar 4		1600								
Jar 5		1610								
Raw Filt.		1620								

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

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

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

Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	03-18-11, 18:10		R English	03-18-11, 18:10	SyR
2	R English	03-18-11 19:00	SyR	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 3/19/11 0946	Company TMS

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

Cooler Temperature(s) °C and Other Remarks: 0.5°C 680-71534

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08/26/2011

Certification Summary

Client: Parsons Corporation
Project/Site: Honeywell - Brunswick Site Metals & COD

TestAmerica Job ID: 680-71534-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kansas	NELAC	7	E-10322
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	Nevada	State Program	9	GA6
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Oklahoma	State Program	6	9984
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	NELAC Secondary AB	3	460161
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

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

APPENDIX D

ONSITE CBP TREATMENT SYSTEM PLANNING-LEVEL COST ESTIMATE BREAKDOWN AND BACKUP

PARSONS			REV	ISSUE	BY	CHK'D	APPR'D	DATE
COMMERCIAL TECHNOLOGY GROUP	Title:	Planning Level (± 50%) Capital Cost Estimate						
	Project:	Brunswick CBP Groundwater Treatment System						
SYRACUSE, NEW YORK	Number:	446727	0	Issued for Information	ADM	JDF	LC	10/21/2011

This cost estimate is for comparison purposes only. It is not to be used for capital or O&M budgetary purposes.

ITEM NO.	DESCRIPTION		TOTAL COST
1			
2	**1. Direct Costs**		
3			
4	Process Equipment		$1,507,700
5	Civil / Structural / Architectural		$3,091,400
6	Undefined Design	20%	$919,900
7			
8	**Direct Cost Total**		**$5,520,000**
9			
10	**2. Indirect Costs**		
11			
12	Title III Engineering	20%	$1,104,000
13	Electrical	15%	$828,000
14	Instrumentation and Controls	18%	$993,600
15	Site Piping	15%	$828,000
16	General Site Work	10%	$552,000
17	Taxes	7%	$386,400
18	Contractor OH / Profit	15%	$828,000
19	Freight	1%	$55,200
20	Site Survey	LS	$15,000
21	Bonding	1%	$55,200
22	Mobilization / Demobilzation	LS	$10,000
23	Bid Package Development / Procurement	15%	$828,000
24	Owner's Rep (QA and Safety)	10%	$552,000
25	Commissioning and Startup	10%	$552,000
26			
27	**Indirect Cost Total**		**$7,590,000**
28			
29	Direct + Indirect Subtotal		$13,110,000
30	Contingency	20%	$2,630,000
31			
32	**TOTAL ESTIMATED CAPITAL COST**		**$15,800,000**
33	**ROUNDED**		**$16,000,000**

PARSONS			REV	ISSUE	BY	CHK'D	APPR'D	DATE
COMMERCIAL TECHNOLOGY GROUP	Title:	Planning Level (± 50%) O&M Cost Estimate						
	Project:	Brunswick CBP Groundwater Treatment System						
SYRACUSE, NEW YORK	Number:	446727	0	Issued for Information	ADM	JDF	LC	10/26/2011

This cost estimate is for comparison purposes only. It is not to be used for capital or O&M budgetary purposes.

ITEM NO.	DESCRIPTION		TOTAL COST
1			
2	**Direct O&M Costs**		
3			
4	Personnel		$170,000
5	Consumables		$125,000
6	Chemicals		$150,000
7	Offsite Additional Treatment		$563,000
8	Dewatered Solids Disposal		$43,000
9	Power and Telecommunications		$19,000
10	Miscellaneous Items		$10,000
11			
12	**Direct O&M Cost Total**		**$1,080,000**
13			
14	Maintenance/Equipment Repair (@5% Installed Equip Cost)		$80,000
15			
	Subtotal		$1,160,000
16			
17	Contingency	10%	$116,000
18			
18	**ANNUAL ESTIMATED O&M COSTS**		**$1,276,000**
19	**ROUNDED**		**$1,300,000**