

REMEDIAL ACTION REPORT
AND
CONFIRMATORY SAMPLING WORK PLAN

STUDY AREA 5
NJDEP SITE 079
ROUTE 440 VEHICLE CORP.
JERSEY CITY, NEW JERSEY

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EXECUTIVE SUMMARY

This Remedial Action Report documents the completion of the remedial action for hexavalent chromium impacted soils completed at Study Area 5 (SA-5), NJDEP Site 079 (Route 440 Vehicle Corporation), located in Jersey City, New Jersey. Work completed included the following main activities:

- In-situ chemical reduction treatment of soils impacted by hexavalent chromium in the area between Route 440 and the dealership building;
- Restoration of injection area;
- Excavation and off-site disposal of soils containing hexavalent chromium above the NJDEP most stringent soil cleanup criteria of 20 mg/kg at the corner of Fisk Street and Martorano Way; and
- Backfilling and restoration of areas.

The work was completed in accordance with the NJDEP approved Remedial Action Work Plan (RAWP) dated July 2009 and the NJDEP approved “Discharge to Groundwater Permit Request and In-Situ Chemical Reduction Injection Treatment Program Field Implementation Work Plan” (DWG WP) dated July 2010.

Post-remediation sampling of the treated area will be conducted in approximately three years. The asphalt pavement serves as an engineering control and a deed notice has been recorded for the affected portion of the property. Groundwater at the site has not been impacted.

Based on completion of the remedial actions outlined above, and meeting the RAWP objectives, Honeywell requests a No Further Action letter for chromium impacted soils at this Site, conditional on maintenance of institutional and engineering controls. Honeywell notes that it will be implementing post treatment sampling in accordance with the Post Remediation Sampling Plan. Since the objective of this sampling is to document post treatment conditions and not to demonstrate compliance with the 20 mg/kg hexavalent chromium criterion, it should have no effect on the issuance of a NFA at this time.

1.0 INTRODUCTION

1.1 PURPOSE AND SCOPE

This Remedial Action Report (RAR) was prepared by AMEC E&I, Inc. (Amec), formerly MACTEC Engineering and Consulting, Inc. (Mactec), on behalf of Honeywell to document the remedial actions (RAs) completed at Study Area 5 (SA-5), New Jersey Department of Environmental Protection (NJDEP) Site 079 (Route 440 Vehicle Corporation), located in Jersey City, New Jersey (referred to herein as the Site). A Site location map is included as **Figure 1**.

This work was conducted in accordance with the Administrative Consent Order (ACO) between Honeywell (formerly Allied Signal, Inc.) and the NJDEP dated June 17, 1993, the New Jersey Technical Requirements for Site Remediation (TRSR) (N.J.A.C. 7:26E), the NJDEP's Chromium Policy Directive, and the Consent Decree Regarding Sites 79 and 153 South between the Bayonne Municipal Utilities Authority (BMUA), Hackensack Riverkeeper Inc., Robert G. Ciasulli and Honeywell dated January 21, 2010 (Consent Decree or CD).

The NJDEP approved the Remedial Action Work Plan (RAWP) dated July 2009 in their letter dated September 30, 2010. Subsequently, Honeywell submitted a "Discharge to Groundwater Permit Request and In-Situ Chemical Reduction (ISCR) Injection Treatment Program (ITP) Field Implementation Work Plan" (DWG WP) dated July 2010 which was approved by the NJDEP on July 28, 2010. NJDEP approvals of these documents are included in **Appendix A**.

1.2 DOCUMENT ORGANIZATION

This document was prepared in accordance with the requirements of TRSR, and contains the following sections:

Section 1 Introduction. This section describes the purpose, scope, general site history, site setting, areas and contaminants of concern, and the report organization.

Section 2 Remedial Action. This section identified the Remedial Action Objectives and the Remediation Criteria.

Section 3 *Implementation of Remedial Action.* This section describes the remedial action implemented at the Site.

Section 4 *Post Remediation Monitoring Plan.* This section describes the post treatment sampling and analysis program and other monitoring activities following completion of the remedial action.

Section 5 *Remedial Action Costs.* This section provides the cost information required by the regulations.

Section 6 *Conclusions and Recommendations.* This section summarizes the site activities and requests a No Further Action determination.

Section 7 *References.* This section lists references used in preparing this document.

Section 8 *List of Acronyms/Abbreviations.* This section includes a list of commonly referenced acronyms found throughout this document.

1.3 GENERAL SITE HISTORY

Site historical information was presented in the November 1999 RIR (TetraTech, 1999). The Site was formerly occupied by a trucking terminal known as the 10 Water Street terminal. Deposition of chromium ore processing residue (COPR) allegedly occurred around 1965 during the expansion of the trucking terminal. The trucking terminal building was subsequently renovated into the existing car dealership building.

Historical information and maps indicate that during the 1800s and early 1900s, the former Morris Canal was located along the area now occupied by Route 440 (formerly Route 9W). The canal ran in a north-south orientation along the western perimeter of Site 079. The portion of the canal through Jersey City was filled with salt water and was equipped with tide locks at both ends to maintain water levels within the canal. The canal was closed during the 1920s and was subsequently filled in. Historical maps indicate that a railroad line (Lehigh Valley Railroad) was also located along the former canal during the early to mid-1900s. The portion of the

former Morris Canal between Danforth Avenue and Carbon Place (south of Site 079) is part of SA-5 and designated as NJDEP Site 153 (Former Morris Canal).

Additional remedial investigation (RI) activities for Site 153 are planned, including soil delineation sampling along the northwest perimeter of Site 079.

Previous RI/RA work include soil sampling conducted by Honeywell (formerly Allied-Signal, Inc.) and the NJDEP in 1990, IRM activities by AlliedSignal in 1994, an initial RI (Tetra Tech, 1999), and Supplemental RI (Mactec, 2006). Details of the previously completed remedial investigations/actions can be found in the following documents:

- Tetra Tech, Inc., Draft Remedial Investigation Report, Study Area 5, NJDEP Site No. 079, 090, 117, 153 and 184, Jersey City, New Jersey. November 1999.
 - HydroQual, Inc., Preliminary Deep Overburden Groundwater Report, Honeywell Study Area 7. March 31, 2005;
 - HydroQual, Inc., Deep Overburden Groundwater Remedial Alternatives Report Honeywell Study Area 7. June 26, 2006;
 - HydroQual, Inc., Final Groundwater Investigation Report, Honeywell Study Area 7. February 2, 2007;
 - Mactec, Supplemental Remedial Investigation Report for Study Area 5, NJDEP Site 079 Route 440 Vehicle Corp., Jersey City, New Jersey. July 2006;
 - Mactec, Remedial Investigation Work Plan Addendum, Study Area 5, Route 440 Vehicle Corp (Site 079), Jersey City, New Jersey. June 2005;
 - Mactec, Master Quality Assurance Project Plan, Jersey City, New Jersey. May 2005;
 - Mactec, Remedial Action Selection Report/Remedial Action Work Plan, Study Area 5, Route 440 Vehicle Corp, Jersey City, New Jersey. November 2008;
- and

- Mactec, Remedial Action Selection Report/Remedial Action Work Plan, Study Area 5, Route 440 Vehicle Corp, Jersey City, New Jersey. July 2009.

1.4 SITE SETTING

Site 079 (Route 440 Vehicle Corp.) is located at 540 Route 440 North in Jersey City, New Jersey. A Site location map is included as **Figure 1**. A map showing Site features and boundaries is included as **Figure 2**.

The Site is currently occupied by a Honda automobile dealership facility. The Site property encompasses approximately 3.0 acres and consists of two separate lots:

- Block 1291, Lot 76 (2.23 acres): the main car dealership facility including one building approximately 290 feet long by 75 feet wide, a vehicle parking area between Route 440 and the dealership building (front parking lot) and a vehicle parking area between the dealership building and Martorano Way (rear parking lot) and
- Block 1291, Lot 1F (0.77 acres): a vehicle storage lot.

Most of the ground surface is covered with building structures and asphalt pavement. A few small grassy areas are present near the Site perimeter along the sidewalk and curb. The current use of the property as a car dealership is expected to continue for the foreseeable future.

1.5 AREAS AND CONTAMINANTS OF CONCERN

1.5.1 Soil

Site-specific RI results indicate that shallow fill soils on portions of the Site contain low-levels of Cr(VI) above the current NJDEP soil cleanup criteria of 20 milligrams per kilogram (mg/kg). Previous investigations have shown that the targeted soils contain zones of low concentrations of hexavalent chromium (Cr(VI)), generally less than 240 mg/kg, with some areas ranging from several hundred mg/kg with the highest concentration up to about 1770 mg/kg. Cr(VI) analytical data are presented on **Figure 2**.

Site data also indicate that low-levels of non-chromium contaminants typically associated with historic fill are present in shallow fill soils, including poly aromatic hydrocarbons (PAHs) and metals (i.e., arsenic, lead, mercury). Some of these historic fill contaminants are above the NJDEP soil cleanup criteria.

For the purposes of this remedial action, and as provided in the NJDEP ACO, the contaminant of concern is Cr(VI).

1.5.2 Groundwater

Recent 2009 and historic data confirms that groundwater is not impacted above the NJDEP groundwater quality standard (GWQS) for total chromium (i.e., 70 micrograms per liter [$\mu\text{g/L}$]). Historic sampling indicates that volatile and/or semi-volatile contaminants are not present in the groundwater above the GWQS (Mactec 2010).

2.0 REMEDIAL ACTION

This section presents a discussion of the Remedial Action Objectives (RAOs) and the Remediation Criteria for this project.

2.1 REMEDIAL ACTION OBJECTIVES

RAOs are defined as the goals of the RA to protect human health and the environment, are established considering Site location and the present and future land use (Mactec 2009). For the subject Site, the RAOs include the protection of human health and the environment, mitigation of impacts to the local community, and compliance with NJDEP Policy and regulatory requirements.

Specific RAOs for soils include:

- Prevent exposure to chromium-impacted soils (containing hexavalent chromium above the NJDEP soil criteria of 20 mg/kg).
- Minimize impacts to the current Site operations (active car dealership business) and the local community.
- Coordinate RA for chromium soils with RA for non-chromium contaminants, to the extent feasible and practicable.
- Obtain a No Further Action (NFA) determination from NJDEP.

2.2 REMEDIATION CRITERIA

Remediation standards for soils will be the current NJDEP soil cleanup criteria for Cr(VI) (20 mg/kg), as specified in the NJDEP Chromium Policy Memorandum dated February 8, 2007. The NJDEP Chromium Policy addresses RA requirements for chromium based on future land use and sets forth requirements for obtaining conditional or unconditional NFA approval from the NJDEP. The objective of in-situ treatment is to reduce Cr(VI) concentrations in soils to achieve levels less than 20 mg/kg. Pursuant to the Consent Decree, the Site will be subject to engineering and institutional controls. The extent of engineering/institutional controls may be modified following completion of RA and post-treatment soil sampling (Mactec 2009).

3.0 IMPLEMENTATION OF REMEDIAL ACTION

This section details the activities of the ISCR treatment and the soil removal programs.

3.1 INJECTION TREATMENT PROGRAM

3.1.1 Mobilization

3.1.1.1 Groundwater Sampling

On June 13, 2010 groundwater monitoring well 079-MW-001 was installed, in accordance with the DGW WP. On July 8, 2010 groundwater samples were collected from the newly installed groundwater well 079-MW-001 and existing well 079-MW-A02. The samples were collected using NJDEP-recommended low-flow methods and were analyzed for filtered and unfiltered total Cr and Cr(VI). The analytical data are summarized on **Table 1**. Analytical Laboratory data reports are included in **Appendix B**.

3.1.1.2 Slug Testing

On July 12, 2010 slug testing was performed on monitoring wells 079-MW-001 and 079-MW-A02. In addition, recovery tests of both wells were done, to obtain data from a somewhat larger radius of aquifer materials around the wells. The rising head data were analyzed using the computer application program Aqtesolv™ using the Bouwer and Rice (1976 and 1989) methods for slug tests in unconfined aquifers. Generally, the testing showed that the site soils should be expected to exhibit moderately low hydraulic conductivity, on the order of 1E-3 to 1E-4 cm/sec. The slug test data are summarized on **Table 2**.

3.1.1.3 Base Line Sulfide Testing

In accordance with the DGW WP, 10 soil samples were collected and analyzed for sulfide by USEPA method 9030B/9034. The purpose of these samples was to establish background sulfide concentrations in the soils, prior to the ISCR program. Generally, sulfide was not detected in samples collected. The results are summarized on **Table 3**.

3.1.1.4 Utility Clearance

Prior to initiating work, utility mark outs were conducted by the remediation contractor, through the NJ One-Call system. Mactec also contacted Public Service Electric and Gas (PSE&G) and discussed requirement for working in proximity to the subsurface high voltage (138 KV) power line and PSE&G approval of the injection work was obtained. Finally, notification was given to the Jersey City Municipal Utilities Authority.

3.1.2 Treatment Program

3.1.2.1 Work Cycles

The Site is an active car dealership that maintains a sales office with a vehicle display area and a repair shop. To avoid interrupting business at the Site, work was conducted from Saturday night, after the sales office closed, through Monday morning, before the sales office opened. Each Saturday night through Monday morning interval is referred to as a work cycle. Two work cycles were necessary to complete the injection program:

- Work cycle #1: October 9, (starting 17:00) through October 11 (ending 09:00)
- Work cycle #2: October 16, (starting 17:00) through October 17 (ending 20:00)

3.1.2.2 Site Preparation

Before equipment was brought on site, the work zone was cleared of vehicles and a work area perimeter control was established using caution tape, safety cones and barriers. City of Jersey City Police was also available to assist with traffic control and site security.



Photograph 1 - Site Security

Portable chemical containment systems were laid out and were used to place the bulk reagent tanker, the mixing tanks and the pump and manifold system. This equipment, as well as a water tanker and support vehicles were positioned outside the injection areas.

A carbon canister system was connected to the mixing tanks to control odors from the mixing of calcium polysulfide and water.



Photograph 2 - Portable Containment



Photograph 3 - Odor Control System

3.1.2.3 Site Cleanup

At the end of each work cycle, all equipment was removed from the site. Remaining amounts of reagent and/or supplies from the first work cycle were secured off-site and brought back for use during the second cycle. All rinse water generated was used as dilution water for the final injection batch.

After the equipment was removed from the site, remaining potable water was used to wash down the work area, to remove residual traces of reagent or contaminants that might have been present as a result of injection program. At the conclusion of Work Cycle #2, the remaining water (after the work area was washed down) was used to flush the sewer, at the request of the MUA.



No hazardous wastes were generated as part of the site activities.

3.1.2.4 Equipment Set up

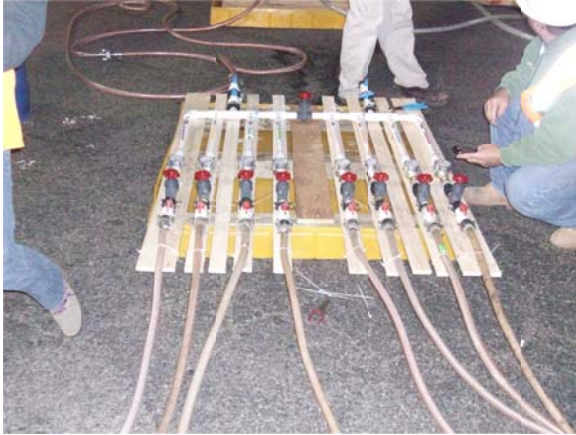
The injection point locations were marked out based on the DGW WP and field-verified for interference with subsurface utilities. If points were deemed to be too close to features such as the existing combined sewer line or monitoring wells they were moved by 2 to 3 feet to minimize the potential for reductant infiltration.

Direct push equipment was used to drive injection screens at the predetermined locations. Fully penetrating, 7-ft long, 0.5-inch outside diameter, 0.010 laser cut,



vertically slotted stainless steel injection screens were advanced to achieve the predetermined depth interval. The annular space around the stem was sealed with bentonite. An adaptor with a pressure gauge, shut-off valves and hose connectors was secured onto each injection well point. Each adaptor was labeled with a number that corresponded to a port on the injection manifold. Absorbent socks were placed around each injection point prior to

initiating injection. Sand bags were placed around each storm water grate to prevent any instances of accidental overland release of injection solution to the sewer.



The injection solution was prepared by mixing potable water and application grade calcium polysulfide (CAPS) (see **Appendix C** for certificate) and water in two (2) 1,000 gallon mixing tanks, so that one tank was being filled while the contents of the other were being injected into the subsurface. An 8-port manifold, consisting of two (2) 4-port sub-assemblies coupled via an isolation valve was utilized to supply reagent to the injection points. Each port was

equipped with a totalizing meter, shut off valves and hose couplings, and was marked “1” through “8”. Each sub-assembly was attached to a diaphragm pump, which, in turn was connected to the tank with the injection solution.

3.1.2.5 Sentinel Well Point Installation and Abandonment

To satisfy PSE&G’s requirements for protecting the 138 KV subsurface line, the injection points closest to the power line were not installed. Instead, temporary sentinel well points were installed at those locations, to monitor for potential migration of reagent towards the power line. Nine sentinel points were installed; three during the first work cycle and six during the second work cycle.

At each location, a boring was advanced to the approximate top of meadow mat (estimated from RI data to be at 9 feet below grade surface) and a 10-ft long section of 1-inch diameter PVC screen was installed.

At the end of each work cycle, the well points were removed and the borehole was properly abandoned with hydrated bentonite and sealed with cold asphalt patch in accordance with NJDEP requirements.

3.1.2.6 Groundwater Elevation Monitoring

During the CAPS application, continuous 10-minute-interval electronic water level measurements (via dedicated mini trolls) were recorded at wells 079-MW-001 and 079-MW-A02 to evaluate changes in water elevations during the injection activities.

Additionally, manual groundwater elevations were measured in the sentinel points and the measurements recorded in the field book.

3.1.2.7 Groundwater Field Parameter Monitoring

Continuous 10-minute-interval electronic pH, dissolved oxygen (DO), oxidation reduction potential (ORP), and specific conductivity (SC) groundwater field parameters measurements (via dedicated mini trolls) were also collected at 079-MW-001 and 079-MW-A02. Data logger readings were periodically inspected to evaluate changes in subsurface conditions. Manual groundwater field parameters were also measured in the sentinel points and the measurements recorded in the field book.

3.1.2.8 Breathing Zone and Storm Sewer Monitoring

Mactec conducted periodic field screening of the breathing zone within the injection work zone and storm sewers proximate to the treatment area throughout the injection activities. Field monitoring consisted of field screening for organic vapor concentrations using a photoionization detector (PID), and Lower Explosive Limits, hydrogen sulfide, oxygen, and carbon monoxide concentrations using a multi-RAE combination meter in accordance with Mactec's Health and Safety Plan (HASP).

Mactec monitored the storm sewer visually and by periodically retrieving samples of the sewer effluent and by measuring ORP conditions. The measurements were recorded in the field log book. Data logger records and data plots, and tabulated field measurements are included in **Appendix D**.

3.1.2.9 Conformance to Work Plan

Work was carried out in accordance with the provisions of the approved DGW WP, with the following modifications:

- Injection points IP-5, -10, -17, -21, -24, -32, -37, -42 and -47 that were proposed to be installed within 10 ft of the PSE&G 138KV subsurface power

transmission line were not installed. Instead, as directed by PSE&G, these locations were utilized as sentinel well points, to directly monitor the groundwater for reagent migration towards the transmission line. This is a major transmission line, supplying power to the western one-half of Jersey City and Bayonne. The locations of the sentinel well points are shown on **Figure 3**. No treatment occurred in the vicinity of the PSE&G 138KV subsurface power transmission line. The approximate limits of treatment are shown on **Figure 3**.

- Injection point IP-3 could not be installed due to repeated refusals and constraints due to the presence of water utilities, the sewer line and adjacent injection points proximate to this injection point.
- To control mounding, daylighting and incursion into the sewer, it was necessary to reduce the total volume of solution injected in the subsurface. This was achieved by reducing CAPS dilution to 1:1 so that all stoichiometrically necessary for treatment CAPS was delivered to the subsurface, but the amount of water was reduced.
- These field modifications are consistent with the provisions of Section 3.0 of the NJDEP approved DGW WP.

3.1.2.10 Injection Program Implementation

In-Situ Oxidative Technologies, Inc. (ISOTEC) of West Windsor, New Jersey was the remediation contractor retained to implement the ITP, under the oversight of Mactec. ISOTEC provided all necessary labor and materials, including lower tier subcontractors, to implement the ITP.

Representatives of Honeywell and Carpenter Environmental, Inc. (representing the settlement parties in the Consent Decree) were also at the Site observing portions of the activities.

Work Cycle #1

During Work Cycle #1, vehicles were evacuated from the northern portion of the site, making it available for ITP work. **Figure 4** depicts the locations and installation dates of the injection points.

The following points were treated during Work Cycle#1:

IP-6	IP-29	IP-40	IP-50	IP-57	IP-64
IP-14	IP-30	IP-41	IP-51	IP-58	IP-65
IP-18	IP-33	IP-44	IP-52	IP-59	
IP-25	IP-34	IP-45	IP-53	IP-60	
IP-26	IP-36	IP-46	IP-54	IP-61	
IP-27	IP-38	IP-48	IP-55	IP-62	
IP-28	IP-39	IP-49	IP-56	IP-63	

Injections were initiated at the planned dilution rate of 2:1 and a target injection volume of 730 gallons per injection point. Work was sequenced so that, to the extent possible, eight injection points would be simultaneously active at any time. Injection point locations were selected to maintain as much horizontal separation as possible, to avoid interference and excessive reagent mounding, considering that depth to water at the site is approximately 5 feet bgs. The injection log is included in **Appendix E**.

While this approach overall was effective at controlling mounding and “daylighting,” a steady increase in water levels in monitoring well 079-MW-001 (approx. 0.4 ft over 3 hours) was noted and daylight occurred at IP-54. Injection to IP-54 was immediately terminated and the released reagent (estimated at a few ounces) was collected with absorbent powder. This procedure was used whenever daylighting was observed. Due to additional daylighting (IP-28 and -29) and the continued rise of the water level in the area of the injections, the reagent dilution was modified to 1:1 ratio, so that while all the stoichiometrically necessary reductant amount was injected, less water was used. This modification was necessary to reduce the overall volume of reagent and to allow the injection work to continue by decreasing the potential for and/or reagent surfacing in these areas.

The target injection volume under this dilution was 420 gallons. **Figure 5** shows the volumes of CAPS and total reagent delivered to each injection location. At the

end of the last set of injections, approximately 1.75 ft increase in water level in monitoring well 079-MW-001 was observed (see graphs in **Appendix D**).

Physical and chemical parameters (DO, pH, ORP and SC) measured in monitoring well 079-MW-001 showed that reductive conditions were beginning to be established at the site, concurrently with the injections, as evidenced by drop in DO and ORP and increase in pH. Conversely, water levels and physical and chemical parameters remained unchanged in well 079-MW-A02, in the portion of the site where injections were not being conducted during this work cycle.

Monitoring at the sentinel points showed a slight increase in water level and pH, but not enough to suggest that reagent was reaching the 138 kV power line (see **Appendix D**).

Monitoring at the storm sewer did not indicate incursion of CAPS into the sewer.

Monitoring in the breathing zone and periodic screening in the sewer man-ways and sentinel points did not indicate the presence of hydrogen sulfide or other targeted gases.

Work Cycle #2

During Work Cycle #2, vehicles were evacuated from the southern portion of the site, making it available for ITP work. The following points were treated in Work Cycle #2:

IP-1	IP-8	IP-13	IP-20	IP-43	IP-28/29	IP-38A
IP-2	IP-9	IP-15	IP-22	IP-57A	IP-7A	IP-39A
IP-4	IP-11	IP-16	IP-23	IP-58A	IP-35A	
IP-7	IP-12	IP-19	IP-31	IP-62A	IP-36A	

Injections were initiated at the planned dilution rate of 2:1 and target injection volume of 730 gallons. Similar sequencing schemes as before were utilized, to minimize groundwater mounding. Since CAPS was observed infiltrating into the sewer, the dilution was reduced to 1:1, so that the calculated stoichiometric amount of reagent could be delivered using a smaller volume of reagent and to minimize the potential for additional infiltration into the sewer.

Infiltration into the sewer was observed while injecting at points IP-8, 11, 13 and 19. Similarly, injection at points IP-12 and IP-20 were terminated, when a considerable change in pH, ORP measurements and visual and olfactory observations were indicated at sentinel well points 6 and 7. The injections were terminated to avoid damage to the power line. Based on water level data from well 079-MW-A02, water level mounding in this area was approximately 1.2 ft.

Because nine injection points were converted to sentinel well points, there was excess reagent available. Therefore, locations from the previous work cycle, where less than 730 gallons of solution were injected, were reoccupied and additional volume was injected. These points are listed with the suffix "A" in the list above.

Physical and chemical parameters (DO, pH, ORP, SC) measured in monitoring well 079-MW-A02 showed that reductive conditions were beginning to be established at the site, concurrently with the injections, as evidenced by drop in DO and ORP and increase in pH. Conversely, water levels and physical/chemical parameters remained unchanged in well 079-MW-001, in the portion of the site where injections were not being conducted during this work cycle.

Monitoring in the breathing zone did not at any time indicate the presence of hydrogen sulfide or other targeted gases.

The Jersey City MUA was notified of the CAPS incursion into the sewer. An MUA representative inspected the site and later requested to flush the sewer with water to remove the CAPS residue from the line.

3.1.3 Site Restoration

Immediately upon completion of the injections, the individual injection locations were repaired by placing and tamping down “cold patch” asphalt. On October 31, 2010 the existing pavement was milled to a depth of 2 inches, removed and replaced with a new 3-inch layer of hot-rolled asphalt. The entire property between Route 440 and the dealership building was milled and resurfaced.



Photograph 7 - Pavement Milling



Photograph 8 - Pavement Striping

3.2 SOIL EXCAVATION

Arecon Ltd. (Arecon) of Bordentown, New Jersey was contracted to conduct the soil excavation program at the rear parking lot area (i.e., at the corner of Fisk Street and Martorano Way). Arecon provided all necessary labor and materials, including lower tier subcontractors, to implement the injection treatment program.

Representatives of Honeywell and Carpenter Environmental, Inc. (representing the settlement parties in the Consent Decree) were also at the Site observing portions of the activities.

3.2.1 Mobilization

Prior to site mobilization, utility mark outs were conducted by Arocon, and building permits were received from Jersey City. Waste classification and clean fill samples were conducted prior to mobilization as detailed below. On August 18, 2010 the existing fencing was removed to accommodate equipment and vehicles, and saw cutting of the asphalt was performed.

3.2.2 Field Activities

On August 19, 2010, 53.8 tons of non-hazardous Cr and Cr(VI) impacted soil were excavated, placed directly into trucks, and removed off-site to minimize soil



handling. The 900 ft² area delineated by soil borings 079-SB-016 through 079-SB-019 was excavated to a depth of 2 ft. Groundwater was not encountered.

Real-time dust air monitoring was performed during the excavation and backfill activities for the protection of the site workers and neighboring properties in accordance with the Mactec HASP. Readings were below the permissible exposure limit of 200 micrograms/per meter cubed (ug/m³) in

accordance with OSHA 1910.120 throughout the completion of the excavation work.

The limits of the excavation were defined based on the results of the 2005 and 2008 RI soil sample data, the NJDEP soil cleanup criteria of 20 mg/kg, and bottom and sidewall sampling frequency as specified in the NJDEP TRSR (i.e., 1 bottom sample per 900 square feet and sidewall sampling every 30 linear feet). Based on the RI data, no post-excavation sampling was required.

3.2.3 Transportation and Disposal

Two truckloads of impacted soil, totaling 53.8 tons, were transported to New Jersey Meadowlands Commission Keegan Landfill (manifests are included in **Appendix F**). Waste characterization soil sampling was completed prior to the excavation on April 23, 2010. The soil borings were completed to 2 feet bgs and analytical parameters included RCRA characteristics, Cr and Cr(VI), polychlorinated biphenyls, and diesel range and gasoline range total petroleum hydrocarbons. The Accutest Laboratory report is included in **Appendix G**.

3.2.4 Site Restoration

Site restoration activities were completed on August 23, 2010. The excavation was backfilled with 40.05 tons of certified clean fill from Tilcon New York (see **Appendix H**). The fill had been sampled on July 22, 2010 and analyzed by Accutest Laboratories to certify as clean. The fill was compacted into two 8-inch lifts. Asphalt restoration consisted of 6-inches of base and 2 inches of top coat. The permanent fence was replaced to its original location.



The excavated area was surveyed by Zimmer Surveying on September 3, 2010.

4.0 POST-REMEDATION MONITORING PLAN

4.1 POST-INJECTION SAMPLING

4.1.1 Soils

The post-injection sampling and performance evaluation will be conducted approximately three years after completion of the injection treatment program.

The proposed scope of work for this task is indicated below:

- Advancing approximately 22 Geoprobe post-injection soil borings. Twelve of these points are in accordance with Exhibit C of the Consent Decree (Outline for In-Situ Treatment of Chromium Impacted Soils) as shown on **Figure 6**.
- At the request of the plaintiffs (October 19, November 2, 2010 and February 9, 2011) an additional 10 points were added to the program to provide additional confirmation at areas where a lower dilution rate was used and in the area along the 138kV underground transmission line.
- Each boring will be advanced to the meadow mat, but will not penetrate the meadow mat. Discreet 6-inch post-injection samples will be collected at 1-foot intervals, corresponding to the treatment interval, generally from 3 to 9 feet bgs. The samples will be selected based on soil classification variability, which would be the governing factor in injectant propagation. To the extent possible, all soil types within the boring will be sampled.
- Soil samples will be analyzed for Cr(VI) and sulfide in accordance with the NJDEP TRSR (**Table 4**). The sulfide data will be used to evaluate potential Cr(VI) data qualification or rejection due to reducing conditions. The analyses are expected to provide insight as to whether any reducing conditions would be due to naturally occurring conditions or to persistence of the injected CAPS.

- Samples will be collected and handled in accordance with the NJDEP August 2005 Field Sampling Procedures Manual.

4.1.2 Groundwater

Post-injection groundwater samples will be collected from groundwater monitoring wells 079-MW-001 and 079-MW-A02, approximately three years after completion of the ITP. The samples will be collected using NJDEP-recommended low-flow purging methods and will be analyzed for filtered and unfiltered total Cr and Cr(VI). The sampling and analysis program is summarized on **Table 4**.

4.1.3 Data Validation

Laboratory analytical data will be subject to data validation to ensure laboratory compliance with quality assurance/quality control (QA/QC) requirements for the selected analytical methods.

Data validation will be conducted for 100% of the samples analyzed for Cr and Cr(VI) using the data validation guidance documents below:

- NJDEP. 2002. Standard Operating Procedure (SOP) entitled Quality Assurance Data Validation of Analytical Deliverables for Inorganics (based on EPA SW-846 Methods), SOP No. 5.A.16. Trenton, New Jersey
- NJDEP. 2001. Standard Operating Procedure for the Completion of the Data Validation Report Forms and the Preparation of the Final Data Validation Report, SOP No. 5.A.15, Trenton, New Jersey
- NJDEP. 2005. Standard Operating Procedure for Analytical Data Validation of Hexavalent Chromium, SOP No. 5.A.10, Revision 2, Trenton, New Jersey
- NJDEP. 2001. Standard Operating Procedure for the Completion of the Hexavalent Chromium Data Validation Report Forms and the Preparation of the Final Data Validation Report, SOP No. 5.A.09 Trenton, New Jersey

The data validation will include a signed document provided to the NJDEP attesting that the data was validated according to the aforementioned protocols.

4.1.4 Reporting

After the data has been validated, a report will be prepared documenting the sampling activities and presenting the results. The remedial action will be recapped to provide the necessary background and context. The report will include tabulated data, boring logs and maps with boring locations and posted data. Laboratory reports and data validation reports will be included as appendices. In accordance with the schedule presented on Figure 6 of the July 2010 Work Plan, the report will be submitted to the Parties for review, on or about 2/4/2015.

4.2 ANNUAL ENGINEERING CONTROLS INSPECTIONS

In accordance with approved RAWP, the asphalt pavement within the front parking lot area will serve as an engineering control to isolate site users and the environment from the underlying Cr(VI)-impacted soils. A final deed notice has been recorded for the site (**Appendix I**). The deed notice requires annual inspections of the engineering controls and filing of a Biennial Certification report.

4.2.1 Asphalt Cap Visual Inspections

Annual visual inspections of the asphalt cap will be conducted to verify the integrity of the cap. Evidence of deterioration (cracking, spalling, fracturing/ pot-holing) will be recorded and evaluated. Any evidence of disruption (such as excavation) will also be recorded. The observations will be recorded in a memorandum and will be photo-documented.

4.2.2 Elevation Monument Surveys

Four semi-permanent survey points (PK nails with shiners) were installed across the asphalt cover and the initial elevations were measured and recorded by a State of New Jersey Licensed. The survey map is included in **Appendix J**. Survey measurements will be taken three years after completion of the field treatment activities as part of the post-treatment monitoring requirements, as indicated in the in-situ treatment plan in Exhibit C of the Consent Decree. The survey work will be completed by a New Jersey Licensed Surveyor.

4.2.3 Biennial Certification Reports

A Biennial Certification report will be prepared and submitted summarizing the observations of the annual inspections and documenting any changes or alternation

to the engineering controls. As required by the TRSR, the Report will also compare New Jersey laws, remediation standards, and other regulations applicable at the time the engineering and/or institutional control was established with relevant subsequently promulgated or modified laws, regulations or remediation standards to determine whether any changes in applicable laws, regulations, or remediation standards have occurred; and whether the institutional controls comply with the requirements of any new laws and regulations.

5.0 REMEDIAL ACTION COSTS

In accordance with the requirements of N.J.A.C. 7:26E-8, the costs associated with the RA, including monitoring, maintenance, and certification of the protectiveness of the engineering and/or institutional control, are presented below.

The total cost incurred by Honeywell for the Remedial Action activities at the Site was \$605,515, not including Honeywell-provided services.

Activity	Amount
Injection Treatment Cost	\$ 464,290
Soil Excavation Cost	\$ 36,125
Transportation and Disposal Cost	\$ 23,400
Oversight Cost	\$ 81,700
Total Estimated Cost	\$ 605,515

The cost to monitor, maintain, and certify the protectiveness of the institutional controls pursuant to N.J.A.C. 7:26E-8 is estimated at approximately \$2,000 per year. This assumes quarterly inspections and biennial reports.

6.0 CONCLUSIONS AND RECOMMENDATIONS

The RA conducted at the site, consisting of soil removal, in-situ treatment and front lot resurfacing for added engineering control, have successfully addressed concerns from Cr(VI)-impacted soils at the site. Approximately 54 tons of soil were excavated, transported, and disposed of off-site. 33,000 gallons of CAPS solution (or 16,000 gallons of undiluted 29% CAPS) were injected at the site.

Based on the results of the RA, Honeywell recommends the issuance of a NFA finding by NJDEP with respect to chromium, conditional on maintenance of institutional and engineering controls. Post-remediation sampling will be performed in 2013 in accordance with approved RAWP and the terms of the Consent Decree. Honeywell will submit an addendum to this report summarizing the soil sampling results of post-remediation sampling. A Declaration of Environmental Restrictions (deed notice) has been recorded for the site and annual inspections and biennial certification reporting for the front parking lot has been stipulated.

7.0 REFERENCES

- Bouwer, H. and R.C. Rice, 1976. A slug test method for determining hydraulic conductivity of unconfined aquifers with completely or partially penetrating wells, *Water Resources Research*, vol. 12, no. 3, pp. 423-428
- Bouwer, H, 1989, The Bower and Rice slug test, an update, *GROUND WATER*, vol. 27, no.3, pp 304-309, 1989
- HydroQual, Inc., 2005. Preliminary Deep Overburden Groundwater Report, Honeywell Study Area 7. March 31, 2005, HWEL.002.001.11
- HydroQual, Inc., 2006. Deep Overburden Groundwater Remedial Alternatives (DORAA) Report Honeywell Study Area 7. June 26, 2006. HWEL.002.001.11.
- HydroQual, Inc., 2007. Final Groundwater Investigation Report, Honeywell Study Area 7. February 2, 2007. HWEL 002.001.11.
- Mactec Engineering and Consulting, Inc., July 2009. Remedial Action Selection Report/Remedial Action Work Plan for Study Area 5, NJDEP Site 079 Route 440 Vehicle Corp., Jersey City, New Jersey. July 2009.
- Mactec Engineering and Consulting, Inc., July 2007, Final Supplemental Remedial Investigation Report/Remedial Action Selection Report/Remedial Action Work Plan; Study Area 5 New Jersey City University Redevelopment Former Baldwin Steel Site (Site 090) Former MI Holdings Site (Site 184) Former Morris Canal Site (Site 153) Abutting Sites 090 and 184 Jersey City, NJ
- Mactec Engineering and Consulting, Inc., August 2006. Supplemental Remedial Investigation Report for Study Area 5, NJDEP Site 079 Route 440 Vehicle Corp., Jersey City, New Jersey. July 2006.
- Mactec Engineering and Consulting, Inc., 2005. Remedial Investigation Work Plan Addendum, Study Area 5, Route 440 Vehicle Corp (Site 079), Jersey City, New Jersey. June 2005.
- New Jersey Department of Environmental Protection, 2008. Technical Requirements for Site Remediation: N.J.A.C. 7:26E. Most recent amendments dated September 2, 2008.
- TetraTech, Inc., November 1999. Draft Remedial Investigation Report, Study Area 5, NJDEP Site No. 079, 090, 117, 153 and 184, Jersey City, New Jersey. November 1999.

8.0 LIST OF COMMON ACRONYMS AND ABBREVIATIONS

Amec	Amec E&I, Inc.	IPs	Injection Points
ACO	Administrative Consent Order	µg/L	micrograms per liter
AOC	Area of Concern	Mactec	Mactec Engineering and Consulting, Inc.
ASTM	American Standard Testing Materials	mg/kg	milligrams per kilogram
bgs	below ground surface	MSL	mean sea level
		MW	Monitoring Well
CAPS	Calcium Polysulfide	NAVD	North American Vertical Datum
CFR	Code of Federal Regulations	NFA	No Further Action
COPR	Chromite Ore Processing Residue	NJAC	New Jersey Administrative Code
Cr(VI)	Hexavalent Chromium	NJDEP	New Jersey Department of Environmental Protection
DGW	Discharge to Groundwater Permit Request	NJPDES	New Jersey Pollutant Discharge Elimination System
DOT	Department of Transportation		
DPT	Direct Push Technology	OSHA	Occupational Safety and Health Administration
EPA	Environmental Protection Agency	PAHs	Polycyclic Aromatic Hydrocarbons
gpm	Gallon per Minute	PID	Photoionization Detector
GWQS	Groundwater Quality Standards	POTW	Publicly Owned Treatment Works
HASP	Health and Safety Plan	PPE	Personal Protective Equipment
ISCR	In-Situ Chemical Reduction	PVC	Polyvinyl Chloride
ITP	Injection Treatment Program		

QAPP	Quality Assurance Project Plan
QA/QC	Quality Assurance/Quality Control
RA	Remedial Action
RAR	Remedial Action Report
RASR	Remedial Action Selection Report
RAWP	Remedial Action Work Plan
RI	Remedial Investigation
SA	Study Area
SCC	Soil Cleanup Criteria
SOP	Standard Operating Procedures
TRSR	Technical Requirements for Site Remediation
USGS	U.S. Geological Survey
WP	Work Plan

TABLES

Table 1
 Summary of Groundwater Analytical Data - July 2010
 Study Area 5, NJDEP Site 079, Route 440 Vehicle Corp.
 Jersey City, New Jersey

Location ID	Field Sample ID	Lab Sample ID	Chromium (Total)	Hexavalent Chromium
079-MW-001	079-MW-1	JA50921-2	20.5	10UJ
079-MW-001	079-MW-1DP	JA50921-3	14.9	10UJ
079-MW-001	079-MW-1F	JA50921-2F	10U	10U
079-MW-001	079-MW-1DP-F	JA50921-3F	10U	10U
079-MW-A02	079-MW-2A-070810	JA50921-1F	10U	10U
079-MW-A02	079-MW-2A-070810	JA50921-1	10U	10UJ

Notes:

Samples collected on 7/8/2010

Samples analyzed by Accutest Laboratories, Inc.

All results in ug/l

Suffix "F" indicated Filtered sample

Suffix "DP" indicates Duplicate sample

Suffix "DP-F" indicated Duplicate Filtered sample

Prepared by : TT 11/30/10

Checked by : VHL

Table 2
Results of Slug Tests Performed on Wells 079-MW-001 and 079-MW-A2

Study Area 5, NJDEP Site 079, Route 440 Vehicle Corp.

Well	Screened Interval (ft below ground)	Lithology of screened interval	Falling Head (F) or Rising Head	Horizontal Hydraulic Conductivity - K_h (ft/day)			Assumption	Estimated Mean K_h (ft/day)	Overall Mean K_h (ft/day)	Overall Mean K_h (cm/sec)
				C	B	L				
079-MW-001	4 - 9	Fill material-sand, slag and cinders	F**	13.4	5.0	8.0	Water-Table Case	11.4	12.5	4.4E-03
			R	30.1	8.8	14.0				
			F**	8.2	5.3	8.5	Water-Table Case	13.0		
			R	30.3	10.0	15.9				
			F**	13.2	5.1	8.8	Water-Table Case	13.3		
			R	28.5	10.2	16.3				
079-MW-A2	3 - 13	Brown gray sand	F**	0.14	0.38	0.28	Water-Table Case	1.43	1.2	4.1E-04
			R	1.02	1.67	1.19				
			F**	0.48	0.39	0.28	Water-Table Case	0.73		
			R	0.82	0.85	0.61				
			F**	0.12	0.39	0.28	Water-Table Case	1.34		
			R	1.24	1.56	1.11				

B' = Bouwer and Rice Method, 1976 (for water-table conditions)

C' = Cooper, Bredehoeft and Papadopulos Method, 1967 (for confined conditions)

'L' = Lambe & Whitman, 1969 (for water-table and confined conditions)

** Falling-head results not included in mean K_h values as static water level was below top of screen

Notes: (1) Depth to water level data were collected using electric water-level indicators.

(2) Tests conducted on July 12, 2010

Prepared by : acm 7/22/2010

Checked by : _____

Table 3
Summary of Sulfide Soil Analytical Results
Study Area 5, NJDEP Site 079, Route 440 Vehicle Corp.
Jersey City, New Jersey

Location ID	Field Sample ID	Lab Sample ID	Start Depth	End Depth	Date Sampled	Result
079-SB-029	079-SB-029-0506A	JA48997-1	5	6	6/13/2010	11.4
079-SB-029	079-SB-029-0809A	JA48997-2	8	9	6/13/2010	4.9U
079-SB-030	079-SB-030-0001A	JA48997-3	0	1	6/13/2010	4.4U
079-SB-030	079-SB-030-0405A	JA48997-4	4	5	6/13/2010	4.5U
079-SB-034	079-SB-034-0203A	JA48997-5	2	3	6/13/2010	4.5U
079-SB-034	079-SB-034-0405A	JA48997-6	4	5	6/13/2010	6.6U
079-SB-034	079-SB-034-0506A	JA48997-7	5	6	6/13/2010	4.6U
079-SB-035	079-SB-035-0405A	JA48997-8	4	5	6/13/2010	5.4U
079-SB-035	079-SB-035-0506A	JA48997-9	5	6	5/17/2009	6.1U
079-SB-035	079-SB-035-0607A	JA48997-10	6	7	6/13/2010	10U

Notes:

Samples analyzed by Accutest Laboratories, Inc.

All results in mg/kg

Analyses by USEPA method 9030B/9034

Prepared by : TT 11/30/10

Checked by : VHL

Table 4
Soil Sampling and Analysis Program
Study Area 5 NJDEP Site 079 Route 440 Vehicle Corp.
Jersey City, New Jersey

Activity	Number of Borings or Wells	Number of Samples	Sampling Method	Matrix	Sampling Interval	Analytical Parameters
Post-Treatment Soil Sampling	22	132	Geoprobe Macro-Core	Soil	Six 1-foot samples per boring from 3 to 9 ft below grade	Hexavalent Chromium, pH, Eh, sulfide
Post-Treatment Groundwater Sampling	2	2	Low-flow	Groundwater	Mid-screen	Filtered and unfiltered Cr (total), Cr(VI), pH, Eh

Notes:

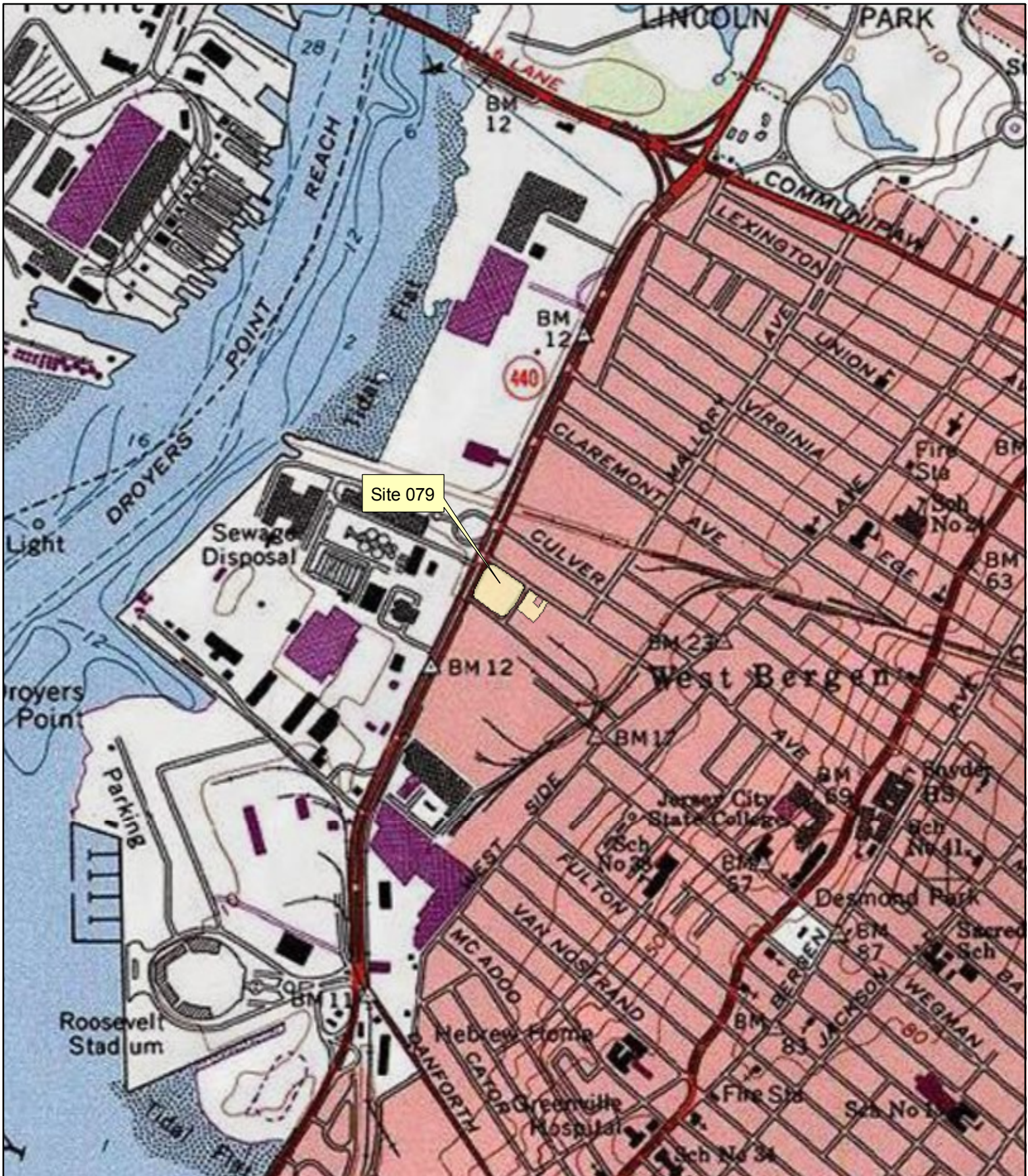
1. Borings will not be advanced below the existing meadow mat or organic clay stratum.
2. Quality assurance/quality control (QA/QC) samples will be collected at a rate of 5% of the total number of soil; and field blank samples at a rate of one per sample event.
3. Laboratory analytical results will be reported using NJDEP Regulatory Format II. Full Laboratory Data Deliverables - Non-USEPA/CLP Methods.
4. Laboratory analytical methods, preservation, and holding times are listed on the next page.

Table 4 (Continued)

Parameter	Methods	Preservation	Holding Times
Groundwater			
Total Chromium (unfiltered)	200.7	HN0 ₃ , Cool 4°C	6 months
Total Chromium (filtered)	200.7	Cool 4°C	6 months
Hex.Chromium (filtered)	7196A	Cool 4°C	24 hours
Hex. Chromium (unfiltered)	7196A	Cool 4°C	24 hours
pH	ASTM D149-76M	Cool 4°C	Analyze Immediately
Eh	0945C,D	Cool 4°C	Analyze Immediately
Soil			
Hexavalent Chromium	3060A/7199	Cool 4°C	30 days extraction; 7 days analysis
pH	ASTM D149-76M	Cool 4°C	Analyze Immediately
Eh	0945C,D	Cool 4°C	Analyze Immediately
Sulfide	9030b/3040	Cool 4°C	7 Days

Prepared by : TT 11/30/10
Checked by : VHL

FIGURES



Source: USGS 7.5 Minute Series Quadrangle, Jersey City, 1981

0 500 1,000 2,000



Scale In Feet

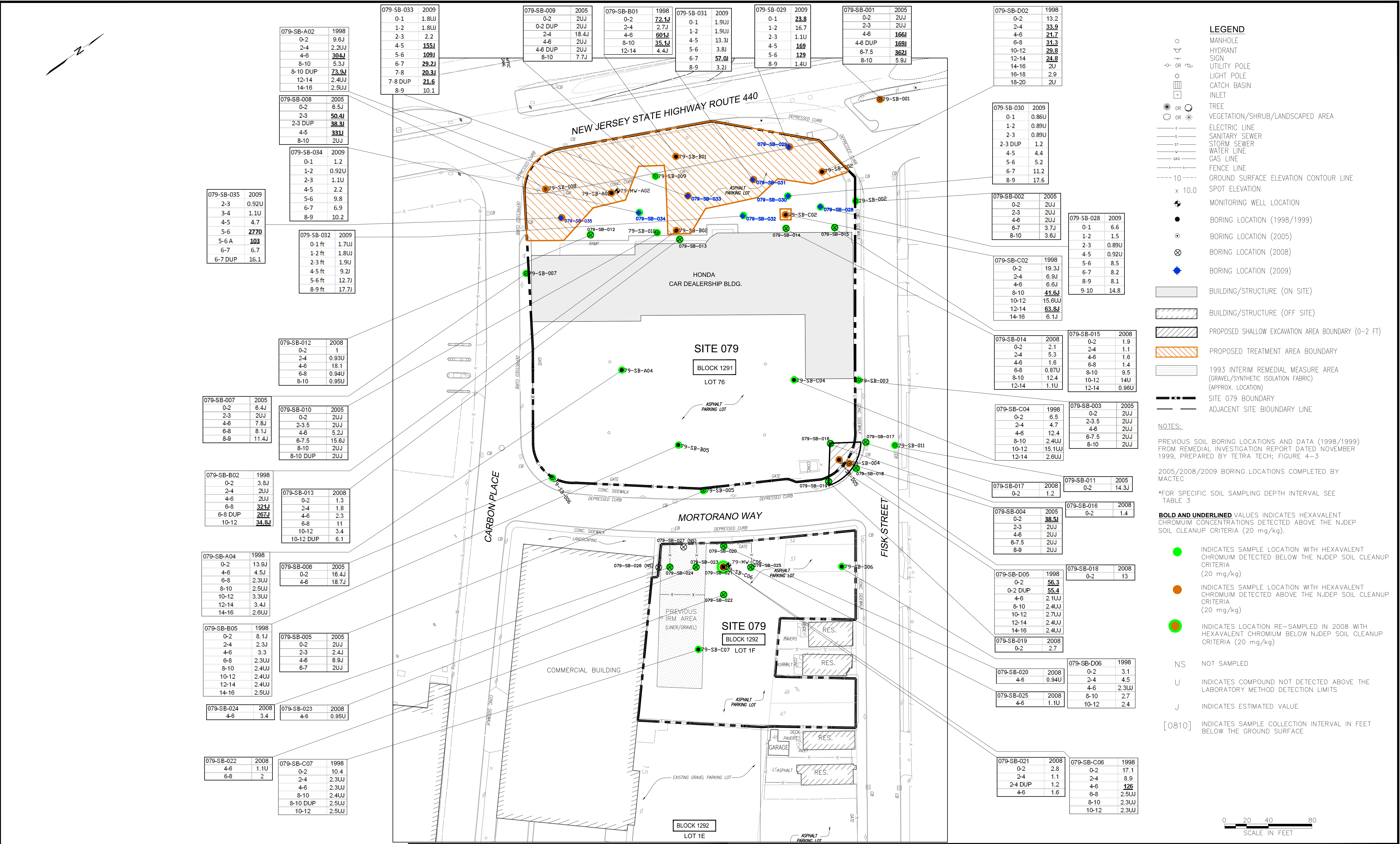


MACTEC Engineering & Consulting
 200 American Metro Boulevard, Suite 113
 Hamilton, New Jersey 08619

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Figure 1
 Site Location Map
 Study Area 5 - Site 079
 Route 440 Vehicle Corp.
 Jersey City, New Jersey

PROJ. NO.	3480100026	11/17/2010	REV.
Created By	WSL	Checked By	

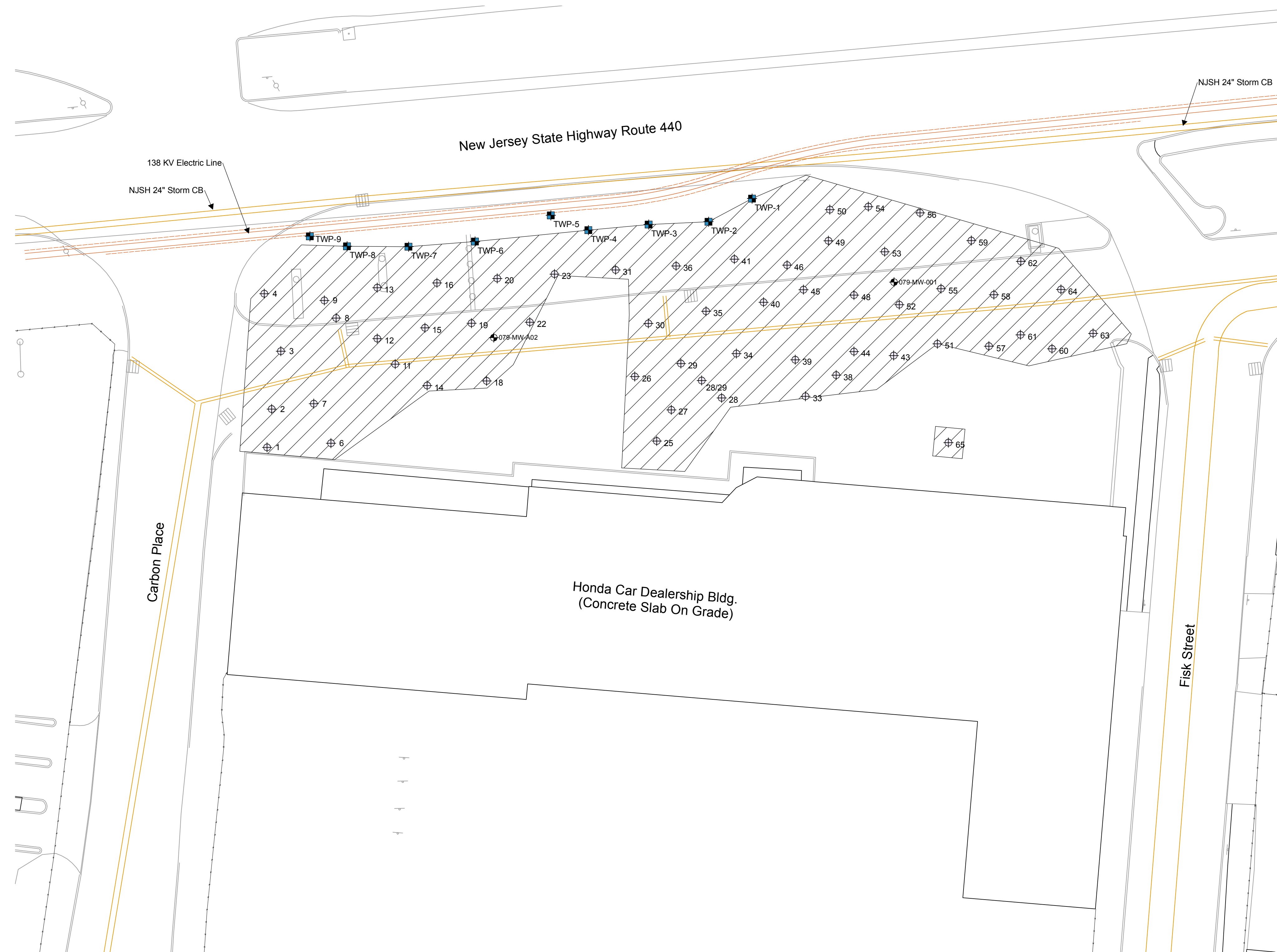


BASEMAP SOURCE: REMEDIAL INVESTIGATION REPORT DATED NOVEMBER 1999, PREPARED BY TETRA TECH.

MACTEC PROJECT No. 3480050145 DRAWING: SA5 079 RAWP FIG 3		PREPARED/DATE: DS 08/12/08	CHECKED/DATE: AP 08/12/08
REV.	DATE	STATUS	BY
2	6/22/09	ADD 2008 AND 2009 SOIL BORINGS AND ANALYTICAL DATA	AP
1	10/01/08	ADJUSTED IRM LOCATION AND ASPHALT CAP AT LOT 1F	AP

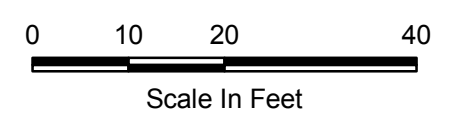
MACTEC Engineering and Consulting
200 American Metro Boulevard, Suite 113
Hamilton, NJ 08619

FIGURE 2
SOIL SAMPLING RESULTS
HEXAVALENT CHROMIUM
STUDY AREA 5 - SITE 079
ROUTE 440 VEHICLE CORP.
JERSEY CITY, NEWJERSEY



- Legend**
- Injection Points
 - Sentinel Points for Underground 138KV Electric Line
 - Monitoring Well Location
 - 138 KV Electric Line
 - Storm Sewer
 - Treatment Area (Approximate)

Basemap Source: Remedial Investigation Report dated November 1999, Prepared by Tetra Tech



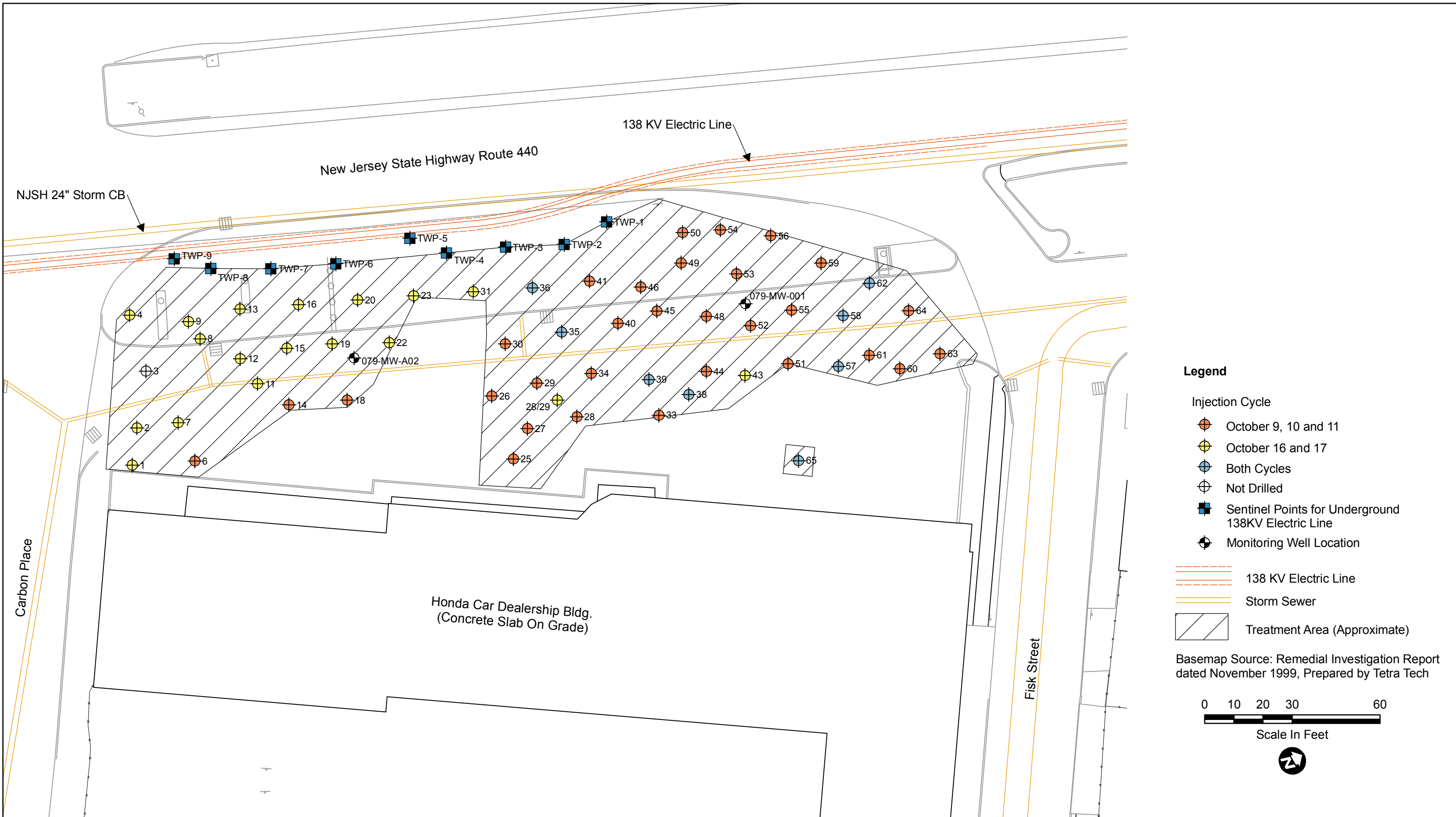
REV.	DATE	STATUS	Prepared By	Checked By

Mactec Project Number: 3480100026	
Prepared/Date WSL 11/17/2010	Checked/Date

MACTEC
200 American Metro Blvd, Suite 113
Hamilton, New Jersey 08619

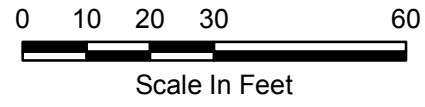
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Figure 3
Remediation Areas
Study Area 5 - Site 079
Route 440 Vehicle Corp.
Jersey City, New Jersey



- Legend**
- Injection Cycle**
 - October 9, 10 and 11
 - October 16 and 17
 - Both Cycles
 - ⊕ Not Drilled
 - Sentinel Points for Underground 138KV Electric Line
 - ⊙ Monitoring Well Location
 - 138 KV Electric Line
 - Storm Sewer
 - / / / / / Treatment Area (Approximate)

Basemap Source: Remedial Investigation Report dated November 1999, Prepared by Tetra Tech



Mactec Project Number:
3480100026

Prepared/Date:
WSL 11/17/2010

Checked/Date:

MACTEC
200 American Metro Blvd, Suite 113
Hamilton, New Jersey 08619

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Figure 4
Injection Sequence
Study Area 5 - Site 079
Route 440 Vehicle Corp.
Jersey City, New Jersey

Total Solution Volume Injected



- Total Solution Volume (Gallons)**
- Not Drilled
 - 1 - 205
 - 206 - 401
 - 402 - 590
 - 591 - 687
 - 688 - 847

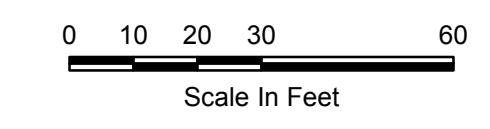
Total Calcium Polysulfide Volume Injected



- Total Calcium Polysulfide Volume Injected (Gallons)**
- Not Drilled
 - 1 - 100
 - 101 - 200
 - 201 - 240
 - 241 - 255
 - 256 - 336

- Legend**
- Sentinel Points for Underground 138KV Electric Line
 - ⊕ Monitoring Well Location
 - 138 KV Electric Line
 - Storm Sewer
 - ▨ Treatment Area (Approximate)

Basemap Source: Remedial Investigation Report dated November 1999, Prepared by Tetra Tech



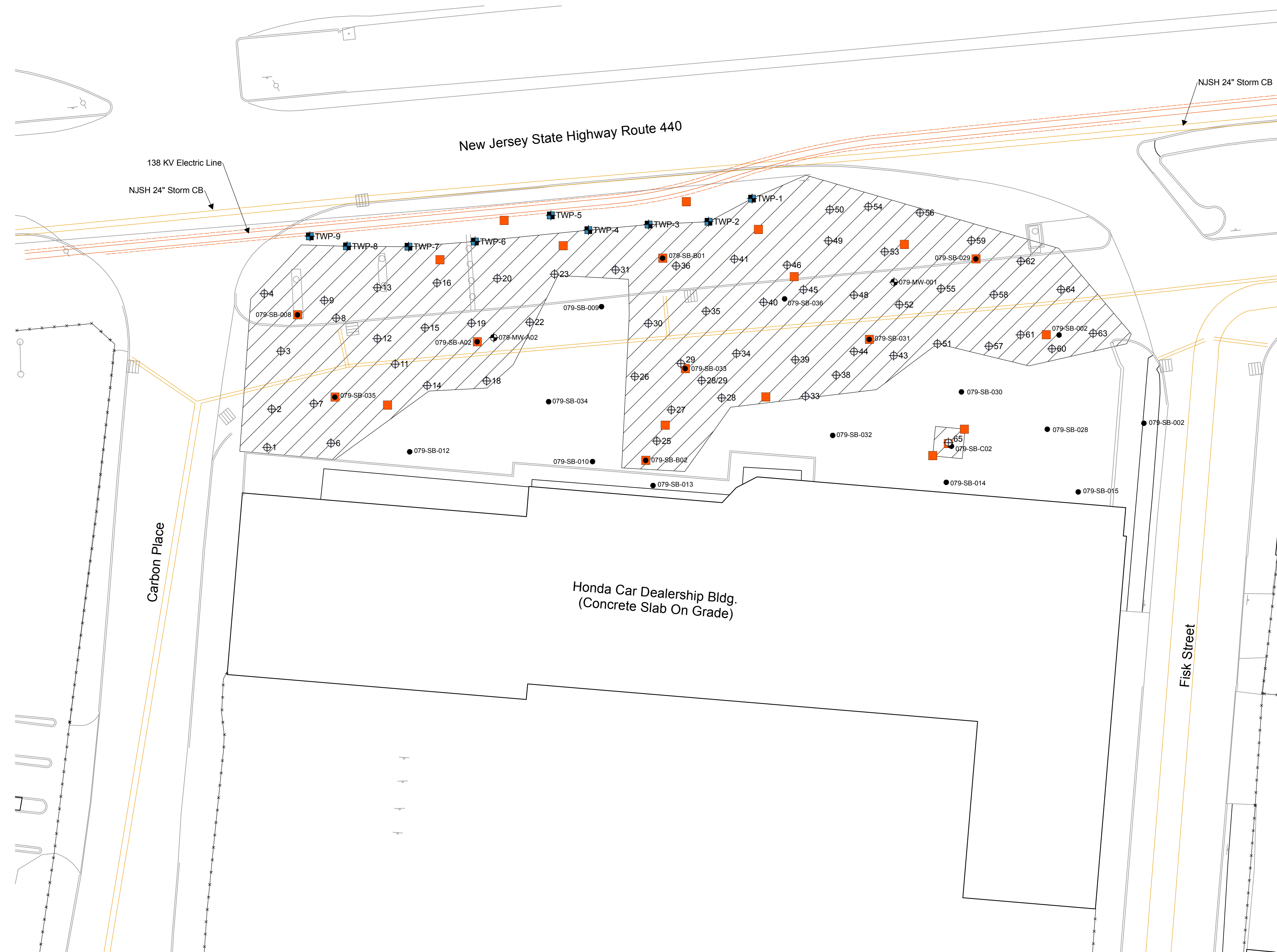
REV	DATE	STATUS	Prepared By	Checked By

Mactec Project Number: 3480100026	
Prepared/Date WSL 11/17/2010	Checked/Date



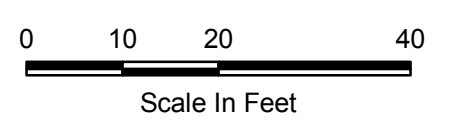
DRAFT

Figure 5
Injection Volumes
Study Area 5 - Site 079
Route 440 Vehicle Corp.
Jersey City, New Jersey



- Legend**
- Injection Points
 - Sentinel Points for Underground 138KV Electric Line
 - Previous Investigation Soil Boring Location
 - Proposed Post-Remediation Soil Boring Location
 - Monitoring Well Location
 - 138 KV Electric Line
 - Storm Sewer
 - Treatment Area (Approximate)

Basemap Source: Remedial Investigation Report dated November 1999, Prepared by Tetra Tech



REV.	DATE	STATUS	Prepared By	Checked By

Mactec Project Number: 3480100026	
Prepared/Date WSL 11/22/2010	Checked/Date

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Hamilton, New Jersey 08619

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Figure 6
Proposed Post-Remediation
Sampling Locations
Study Area 5 - Site 079
Route 440 Vehicle Corp.
Jersey City, New Jersey

APPENDIX A
RELEVANT REGULATORY CORRESPONDENCE



State of New Jersey

Department of Environmental Protection

Jon S. Corzine
Governor

Lisa P. Jackson
Commissioner

Bureau of Case Management
401 East State Street
P.O. Box 028
Trenton, NJ 08625-0028
Phone #: 609-633-1455
Fax #: 609-633-1439

April 17, 2008

Honeywell Inc
Attn: Mr. John Morris, Remediation Portfolio Director
PO Box 1057
Morristown, NJ 07962-1057

Remedial Investigation Approval

Re: Supplemental Remedial Investigation Report
Hudson County Chromate - Allied
Site 079 – Route 440 Vehicle Corporation
Block: 1291, Lot: 76; and Block: 1293, Lot: F
Jersey City, NJ 07032
SRP PI#: G000008789
EA ID #: RPC020001

Dear Mr. Morris:

The New Jersey Department of Environmental Protection (Department) has completed review of the Supplemental Remedial Investigation Report received on July 7, 2006. The Department has determined that the Supplemental Remedial Investigation Report is in compliance with the Technical Requirements for Site Remediation, N.J.A.C. 7:26E and other applicable requirements. The Department hereby approves the Supplemental Remedial Investigation Report, effective the date of this letter.

Pursuant to the schedule applicable to the site you shall submit a Remedial Action Work Plan on September 30, 2008. Please submit the document by that date, or submit a written request for an extension at least 2 weeks prior to the due date. Failure to submit the Remedial Action Work Plan in accordance with the schedule may result in the initiation of enforcement action. For your convenience, the regulations concerning the Department's remediation requirements can be found at <http://www.state.nj.us/dep/srp/regs/>.

Thank you for your cooperation in this matter. If you have any questions, please call me at (609) 984-4071.

Sincerely,

Frank Faranca, CHMM, Site Remediation Technical Specialist
Bureau of Case Management

cc: David Doyle, NJDEP/BEERA
David VanEck, NJDEP/BGWPA
Joseph Castagna, Jersey City Division of Health
Robert Ferraiuolo, Hudson Regional Health Commission
Hudson County Planning Board
Jerramiah T. Healy, Jersey City

Honeywell Inc
Attn: Mr. John Morris, Remediation Portfolio Director
PO Box 1057
Morristown, NJ 07962-1057

Joseph Castagna
Jersey City Division of Health
One Journal Square
Jersey City, NJ 07306

Robert Ferraiuolo
Hudson Regional Health Commission
Meadowview Campus
595 County Avenue - Bldg. 1
Secaucus, NJ 07094

Hudson County Planning Board
County Administration Building
595 Newark Avenue
Jersey City, NJ 07306

Jerramiah T. Healy
Jersey City
280 Grove Street
Jersey City, NJ 07302



State of New Jersey

Department of Environmental Protection

Division of Remediation Management and Response

Bureau of Case Management

P.O. Box 028

Trenton, New Jersey 08625-0028

Phone: (609) 633-1455

Fax: (609) 633-1439

Jon S. Corzine
Governor

Mark Mauriello
Commissioner

September 30, 2009

Honeywell, Inc.
Attn: Mr. John Morris, Remediation Portfolio Director
PO Box 1057
Morristown, NJ 07962-1057

Remedial Action Selection Report/Remedial Action Work Plan Approval

Re: Remedial Action Selection Report/Remedial Action Work Plan
Hudson County Chromate Sites 79
Study Area 5
Block: 1291, Lot: 76; Block: 1292, Lot 1F
Jersey City, NJ 07032
SRP PI: G000008789

Dear Mr. Morris:

The New Jersey Department of Environmental Protection (Department) completed its review of the Remedial Action Selection Report/Remedial Action Work Plan (RASR/RAWP) received on November 26, 2008 and revised on August 3, 2009. The Department has determined that the RASR/RAWP is in compliance with the Technical Requirements for Site Remediation, N.J.A.C. 7:26E, the Department's Chromium Policy Directive dated February 8, 2007 and other applicable requirements. The Department hereby approves the RASR/RAWP, effective the date of this letter.

Pursuant to the schedule applicable to the site you shall submit a Remedial Action Report on August 27, 2010. Please submit the document by that date, or submit a written request for an extension at least 2 weeks prior to the due date. Failure to submit the Remedial Action Report in accordance with the schedule may result in the initiation of enforcement action. For your convenience, the regulations concerning the Department's remediation requirements can be found at <http://www.state.nj.us/dep/srp/regs/>.

Thank you for your cooperation in this matter. If you have any questions, please call me at (609) 984-4071.

Sincerely,

Frank Faranca, CHMM, Site Remediation Technical Specialist
Bureau of Case Management

cc: Jerramiah T. Healy, Jersey City
Hudson County Planning Board
Robert Ferraiuolo, Hudson Regional Health Commission
Joseph Castagna, Jersey City Division of Health
David Doyle, NJDEP, BEERA
David VanEck, NJDEP, BGWPA

APPENDIX B
LABORATORY DATA PACKAGES, ISCR PROGRAM



Technical Report for

Honeywell International Inc.

HLANJPR: SA-5, Site 079, Jersey City, NJ

Accutest Job Number: JA48997

Sampling Date: 06/13/10

Report to:

Mactec

vhlieu@mactec.com

ATTN: Vanthuy Lieu

Total number of pages in report: 257



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

David N. Speis
David N. Speis
VP Ops, Laboratory Director

Client Service contact: Marty Vitanza 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

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Sample Summary

Honeywell International Inc.

Job No: JA48997

HLANJPR: SA-5, Site 079, Jersey City, NJ

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JA48997-1	06/13/10	11:00 G/S	06/14/10	SO	Soil	079-SB-029-0506A
JA48997-2	06/13/10	11:10 G/S	06/14/10	SO	Soil	079-SB-029-0809A
JA48997-3	06/13/10	08:45 G/S	06/14/10	SO	Soil	079-SB-030-0001A
JA48997-4	06/13/10	08:50 G/S	06/14/10	SO	Soil	079-SB-030-0405A
JA48997-5	06/13/10	09:30 G/S	06/14/10	SO	Soil	079-SB-034-0203A
JA48997-6	06/13/10	09:35 G/S	06/14/10	SO	Soil	079-SB-034-0405A
JA48997-7	06/13/10	09:37 G/S	06/14/10	SO	Soil	079-SB-034-0506A
JA48997-8	06/13/10	09:40 G/S	06/14/10	SO	Soil	079-SB-035-0405A
JA48997-9	06/13/10	09:45 G/S	06/14/10	SO	Soil	079-SB-035-0506A
JA48997-10	06/13/10	09:47 G/S	06/14/10	SO	Soil	079-SB-035-0607A
JA48997-11	06/13/10	08:55 G/S	06/14/10	SO	Soil	079-SB-036-0001
JA48997-11A	06/13/10	08:55 G/S	06/14/10	SO	Soil	079-SB-036-0001
JA48997-12	06/13/10	09:00 G/S	06/14/10	SO	Soil	079-SB-036-0102

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Summary

(continued)

Honeywell International Inc.

Job No: JA48997

HLANJPR: SA-5, Site 079, Jersey City, NJ

Sample Number	Collected		Matrix Code	Type	Received	Client Sample ID
	Date	Time By				
JA48997-12A	06/13/10	09:00 G/S	SO	Soil	06/14/10	079-SB-036-0102
JA48997-13	06/13/10	09:05 G/S	SO	Soil	06/14/10	079-SB-036-0203
JA48997-13A	06/13/10	09:05 G/S	SO	Soil	06/14/10	079-SB-036-0203
JA48997-14	06/13/10	09:07 G/S	SO	Soil	06/14/10	079-SB-036-0304
JA48997-14A	06/13/10	09:07 G/S	SO	Soil	06/14/10	079-SB-036-0304
JA48997-14AR	06/13/10	09:07 G/S	SO	Soil	06/14/10	079-SB-036-0304
JA48997-15	06/13/10	09:10 G/S	SO	Soil	06/14/10	079-SB-036-0405
JA48997-15A	06/13/10	09:10 G/S	SO	Soil	06/14/10	079-SB-036-0405
JA48997-15AR	06/13/10	09:10 G/S	SO	Soil	06/14/10	079-SB-036-0405
JA48997-16	06/13/10	09:12 G/S	SO	Soil	06/14/10	079-SB-036-0506
JA48997-16A	06/13/10	09:12 G/S	SO	Soil	06/14/10	079-SB-036-0506
JA48997-17	06/13/10	09:15 G/S	SO	Soil	06/14/10	079-SB-036-0607
JA48997-17A	06/13/10	09:15 G/S	SO	Soil	06/14/10	079-SB-036-0607

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Summary

(continued)

Honeywell International Inc.

Job No: JA48997

HLANJPR: SA-5, Site 079, Jersey City, NJ

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JA48997-18	06/13/10	09:17 G/S	06/14/10	SO	Soil	079-SB-036-0708
JA48997-18A	06/13/10	09:17 G/S	06/14/10	SO	Soil	079-SB-036-0708
JA48997-19	06/13/10	09:20 G/S	06/14/10	SO	Soil	079-SB-036-0809
JA48997-19A	06/13/10	09:20 G/S	06/14/10	SO	Soil	079-SB-036-0809
JA48997-19AR	06/13/10	09:20 G/S	06/14/10	SO	Soil	079-SB-036-0809

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Honeywell International Inc.

Job No JA48997

Site: HLANJPR: SA-5, Site 079, Jersey City, NJ

Report Date 7/21/2010 7:32:10 PM

On 06/14/2010, 19 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 3.3 C. Samples were intact and properly preserved, unless noted below. An Accutest Job Number of JA48997 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Wet Chemistry By Method ASTM D1498-76M

Matrix: SO

Batch ID: GN38770

- Sample(s) JA48832-1DUP were used as the QC samples for Redox Potential Vs H2.

Wet Chemistry By Method EPA 376.1M/9034 M

Matrix: SO

Batch ID: GP54198

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA48997-4DUP, JA48997-4MS were used as the QC samples for Sulfide, Neutral Extraction.

Wet Chemistry By Method SM18 2540G

Matrix: SO

Batch ID: GN39031

- The data for SM18 2540G meets quality control requirements.

Matrix: SO

Batch ID: GN39192

- The data for SM18 2540G meets quality control requirements.

Wet Chemistry By Method SW846 3060A/7199

Matrix: SO

Batch ID: GP54306

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA48997-15APS, JA48997-15AMS, JA48997-15ADUP were used as the QC samples for Chromium, Hexavalent.
- Matrix Spike Recovery(s) for Chromium, Hexavalent are outside control limits. Insoluble XCR matrix spike recovery indicates possible matrix interference. See additional comments on soluble matrix spike recovery.
- RPD(s) for Duplicate for Chromium, Hexavalent are outside control limits for sample GP54306-D1. RPD acceptable due to low duplicate and sample concentrations.
- GP54306-S1 for Chromium, Hexavalent: Soluble XCR matrix spike recovery indicates possible matrix interference. Good post spike recovery (101%) on this sample.

Matrix: SO

Batch ID: GP54307

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA48997-11ADUP, JA48997-11APS, JA48997-11AMS were used as the QC samples for Chromium, Hexavalent.
- GP54307-S3 for Chromium, Hexavalent: Good recovery on soluble XCR matrix spike. Good recovery (103 %) on the post-spike.
- GP54307-S1 for Chromium, Hexavalent: Good recovery on soluble XCR matrix spike. Good recovery (103 %) on the post-spike.
- GP54307-S2 for Chromium, Hexavalent: Good recovery on insoluble XCR matrix spike. See additional comments on soluble matrix spike recovery.

Matrix: SO

Batch ID: GP54481

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA48997-15ARPS, JA48997-15ARMS, JA48997-15ARDUP were used as the QC samples for Chromium, Hexavalent.
- Matrix Spike Recovery(s) for Chromium, Hexavalent are outside control limits. Soluble XCR matrix spike recovery indicates possible matrix interference. Good post spike recovery (98.8%) on this sample.
- RPD(s) for Duplicate for Chromium, Hexavalent are outside control limits for sample GP54481-D1. High RPD due to possible sample nonhomogeneity.
- GP54481-S2 for Chromium, Hexavalent: Good recovery on insoluble XCR matrix spike. See additional comments on soluble matrix spike recovery.

Wet Chemistry By Method SW846 9045C,D

Matrix: SO

Batch ID: GN38772

- Sample(s) JA48832-IDUP were used as the QC samples for pH.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover



Sample Results

Report of Analysis

Report of Analysis

3.1
3

Client Sample ID: 079-SB-029-0506A	Date Sampled: 06/13/10
Lab Sample ID: JA48997-1	Date Received: 06/14/10
Matrix: SO - Soil	Percent Solids: 51.5
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	51.5		%	1	06/24/10	WR	SM18 2540G
Sulfide, Neutral Extraction	11.4	7.7	mg/kg	1	06/18/10	ST	EPA 376.1M/9034 M

RL = Reporting Limit

Report of Analysis

Client Sample ID: 079-SB-029-0809A	
Lab Sample ID: JA48997-2	Date Sampled: 06/13/10
Matrix: SO - Soil	Date Received: 06/14/10
	Percent Solids: 81.9
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	81.9		%	1	06/24/10	WR	SM18 2540G
Sulfide, Neutral Extraction	< 4.9	4.9	mg/kg	1	06/18/10	ST	EPA 376.1M/9034 M

RL = Reporting Limit

Report of Analysis

Client Sample ID: 079-SB-030-0001A	Date Sampled: 06/13/10
Lab Sample ID: JA48997-3	Date Received: 06/14/10
Matrix: SO - Soil	Percent Solids: 89.3
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	89.3		%	1	06/24/10	WR	SM18 2540G
Sulfide, Neutral Extraction	< 4.4	4.4	mg/kg	1	06/18/10	ST	EPA 376.1M/9034 M

RL = Reporting Limit

Report of Analysis

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3

Client Sample ID: 079-SB-030-0405A	Date Sampled: 06/13/10
Lab Sample ID: JA48997-4	Date Received: 06/14/10
Matrix: SO - Soil	Percent Solids: 89.1
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	89.1		%	1	06/24/10	WR	SM18 2540G
Sulfide, Neutral Extraction	< 4.5	4.5	mg/kg	1	06/18/10	ST	EPA 376.1M/9034 M

RL = Reporting Limit

Report of Analysis

Client Sample ID: 079-SB-034-0203A	Date Sampled: 06/13/10
Lab Sample ID: JA48997-5	Date Received: 06/14/10
Matrix: SO - Soil	Percent Solids: 86.2
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	86.2		%	1	06/24/10	WR	SM18 2540G
Sulfide, Neutral Extraction	< 4.5	4.5	mg/kg	1	06/18/10	ST	EPA 376.1M/9034 M

RL = Reporting Limit

Report of Analysis

Client Sample ID: 079-SB-034-0405A	Date Sampled: 06/13/10
Lab Sample ID: JA48997-6	Date Received: 06/14/10
Matrix: SO - Soil	Percent Solids: 59.2
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	59.2		%	1	06/24/10	WR	SM18 2540G
Sulfide, Neutral Extraction	< 6.6	6.6	mg/kg	1	06/18/10	ST	EPA 376.1M/9034 M

RL = Reporting Limit

Report of Analysis

Client Sample ID: 079-SB-034-0506A	Date Sampled: 06/13/10
Lab Sample ID: JA48997-7	Date Received: 06/14/10
Matrix: SO - Soil	Percent Solids: 84.1
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	84.1		%	1	06/24/10	WR	SM18 2540G
Sulfide, Neutral Extraction	< 4.6	4.6	mg/kg	1	06/18/10	ST	EPA 376.1M/9034 M

RL = Reporting Limit

Report of Analysis

Client Sample ID: 079-SB-035-0405A	Date Sampled: 06/13/10
Lab Sample ID: JA48997-8	Date Received: 06/14/10
Matrix: SO - Soil	Percent Solids: 72.7
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	72.7		%	1	06/24/10	WR	SM18 2540G
Sulfide, Neutral Extraction	< 5.4	5.4	mg/kg	1	06/18/10	ST	EPA 376.1M/9034 M

RL = Reporting Limit

Report of Analysis

Client Sample ID: 079-SB-035-0506A	Date Sampled: 06/13/10
Lab Sample ID: JA48997-9	Date Received: 06/14/10
Matrix: SO - Soil	Percent Solids: 64.9
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	64.9		%	1	06/24/10	WR	SM18 2540G
Sulfide, Neutral Extraction	< 6.1	6.1	mg/kg	1	06/18/10	ST	EPA 376.1M/9034 M

RL = Reporting Limit

Report of Analysis

Client Sample ID: 079-SB-035-0607A	Date Sampled: 06/13/10
Lab Sample ID: JA48997-10	Date Received: 06/14/10
Matrix: SO - Soil	Percent Solids: 38.2
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	38.2		%	1	06/24/10	WR	SM18 2540G
Sulfide, Neutral Extraction	< 10	10	mg/kg	1	06/18/10	ST	EPA 376.1M/9034 M

RL = Reporting Limit

Report of Analysis

Client Sample ID: 079-SB-036-0001	
Lab Sample ID: JA48997-11	Date Sampled: 06/13/10
Matrix: SO - Soil	Date Received: 06/14/10
	Percent Solids: 87.7
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Redox Potential Vs H2	459		mv	1	06/16/10	JOO	ASTM D1498-76M
Solids, Percent	87.7		%	1	06/21/10	WR	SM18 2540G
pH	8.07		su	1	06/16/10	JOO	SW846 9045C,D

RL = Reporting Limit

Report of Analysis

Client Sample ID: 079-SB-036-0001	Date Sampled: 06/13/10
Lab Sample ID: JA48997-11A	Date Received: 06/14/10
Matrix: SO - Soil	Percent Solids: 87.7
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	0.74	0.45	mg/kg	1	06/29/10 15:57	BD	SW846 3060A/7199

RL = Reporting Limit

Report of Analysis

Client Sample ID: 079-SB-036-0102	Date Sampled: 06/13/10
Lab Sample ID: JA48997-12	Date Received: 06/14/10
Matrix: SO - Soil	Percent Solids: 72.5
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Redox Potential Vs H2	426		mv	1	06/16/10	JOO	ASTM D1498-76M
Solids, Percent	72.5		%	1	06/21/10	WR	SM18 2540G
pH	7.89		su	1	06/16/10	JOO	SW846 9045C,D

RL = Reporting Limit

Report of Analysis

Client Sample ID: 079-SB-036-0102	Date Sampled: 06/13/10
Lab Sample ID: JA48997-12A	Date Received: 06/14/10
Matrix: SO - Soil	Percent Solids: 72.5
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.54	0.54	mg/kg	1	06/30/10 11:28	BD	SW846 3060A/7199

RL = Reporting Limit

Report of Analysis

Client Sample ID: 079-SB-036-0203	
Lab Sample ID: JA48997-13	Date Sampled: 06/13/10
Matrix: SO - Soil	Date Received: 06/14/10
	Percent Solids: 87.0
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Redox Potential Vs H2	396		mv	1	06/16/10	JOO	ASTM D1498-76M
Solids, Percent	87		%	1	06/21/10	WR	SM18 2540G
pH	8.02		su	1	06/16/10	JOO	SW846 9045C,D

RL = Reporting Limit

Report of Analysis

Client Sample ID: 079-SB-036-0203	Date Sampled: 06/13/10
Lab Sample ID: JA48997-13A	Date Received: 06/14/10
Matrix: SO - Soil	Percent Solids: 87.0
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.46	0.46	mg/kg	1	06/30/10 11:43	BD	SW846 3060A/7199

RL = Reporting Limit

Report of Analysis

Client Sample ID: 079-SB-036-0304	Date Sampled: 06/13/10
Lab Sample ID: JA48997-14	Date Received: 06/14/10
Matrix: SO - Soil	Percent Solids: 86.2
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Redox Potential Vs H2	398		mv	1	06/16/10	JOO	ASTM D1498-76M
Solids, Percent	86.2		%	1	06/21/10	WR	SM18 2540G
pH	7.44		su	1	06/16/10	JOO	SW846 9045C,D

RL = Reporting Limit

Report of Analysis

Client Sample ID: 079-SB-036-0304	Date Sampled: 06/13/10
Lab Sample ID: JA48997-14A	Date Received: 06/14/10
Matrix: SO - Soil	Percent Solids: 86.2
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	1.1	0.47	mg/kg	1	06/29/10 12:13	BD	SW846 3060A/7199

RL = Reporting Limit

Report of Analysis

Client Sample ID:	079-SB-036-0304	Date Sampled:	06/13/10
Lab Sample ID:	JA48997-14AR	Date Received:	06/14/10
Matrix:	SO - Soil	Percent Solids:	86.2
Project:	HLANJPR: SA-5, Site 079, Jersey City, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	0.79	0.45	mg/kg	1	07/12/10 11:18	BD	SW846 3060A/7199

RL = Reporting Limit

Report of Analysis

3.20
3

Client Sample ID: 079-SB-036-0405		Date Sampled: 06/13/10
Lab Sample ID: JA48997-15		Date Received: 06/14/10
Matrix: SO - Soil		Percent Solids: 80.8
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Redox Potential Vs H2	400		mv	1	06/16/10	JOO	ASTM D1498-76M
Solids, Percent	80.8		%	1	06/21/10	WR	SM18 2540G
pH	7.26		su	1	06/16/10	JOO	SW846 9045C,D

RL = Reporting Limit

Report of Analysis

Client Sample ID:	079-SB-036-0405	Date Sampled:	06/13/10
Lab Sample ID:	JA48997-15A	Date Received:	06/14/10
Matrix:	SO - Soil	Percent Solids:	80.8
Project:	HLANJPR: SA-5, Site 079, Jersey City, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	0.81	0.49	mg/kg	1	06/29/10 12:06	BD	SW846 3060A/7199

RL = Reporting Limit

Report of Analysis

Client Sample ID: 079-SB-036-0405		Date Sampled: 06/13/10
Lab Sample ID: JA48997-15AR		Date Received: 06/14/10
Matrix: SO - Soil		Percent Solids: 80.8
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	66.5	2.4	mg/kg	5	07/12/10 12:02	BD	SW846 3060A/7199

RL = Reporting Limit

Report of Analysis

Client Sample ID: 079-SB-036-0506	
Lab Sample ID: JA48997-16	Date Sampled: 06/13/10
Matrix: SO - Soil	Date Received: 06/14/10
	Percent Solids: 82.1
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Redox Potential Vs H2	421		mv	1	06/16/10	JOO	ASTM D1498-76M
Solids, Percent	82.1		%	1	06/21/10	WR	SM18 2540G
pH	7.73		su	1	06/16/10	JOO	SW846 9045C,D

RL = Reporting Limit

Report of Analysis

Client Sample ID: 079-SB-036-0506	Date Sampled: 06/13/10
Lab Sample ID: JA48997-16A	Date Received: 06/14/10
Matrix: SO - Soil	Percent Solids: 82.1
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	13.5	0.48	mg/kg	1	06/30/10 11:57	BD	SW846 3060A/7199

RL = Reporting Limit

Report of Analysis

Client Sample ID: 079-SB-036-0607	
Lab Sample ID: JA48997-17	Date Sampled: 06/13/10
Matrix: SO - Soil	Date Received: 06/14/10
	Percent Solids: 83.0
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Redox Potential Vs H2	421		mv	1	06/16/10	JOO	ASTM D1498-76M
Solids, Percent	83		%	1	06/21/10	WR	SM18 2540G
pH	7.65		su	1	06/16/10	JOO	SW846 9045C,D

RL = Reporting Limit

Report of Analysis

Client Sample ID: 079-SB-036-0607	Date Sampled: 06/13/10
Lab Sample ID: JA48997-17A	Date Received: 06/14/10
Matrix: SO - Soil	Percent Solids: 83.0
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	65.8	2.5	mg/kg	5	06/30/10 13:34	BD	SW846 3060A/7199

RL = Reporting Limit

Report of Analysis

Client Sample ID: 079-SB-036-0708		Date Sampled: 06/13/10
Lab Sample ID: JA48997-18		Date Received: 06/14/10
Matrix: SO - Soil		Percent Solids: 81.0
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Redox Potential Vs H2	418		mv	1	06/16/10	JOO	ASTM D1498-76M
Solids, Percent	81		%	1	06/21/10	WR	SM18 2540G
pH	7.56		su	1	06/16/10	JOO	SW846 9045C,D

RL = Reporting Limit

Report of Analysis

Client Sample ID: 079-SB-036-0708	Date Sampled: 06/13/10
Lab Sample ID: JA48997-18A	Date Received: 06/14/10
Matrix: SO - Soil	Percent Solids: 81.0
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	57.1	2.5	mg/kg	5	06/30/10 13:48	BD	SW846 3060A/7199

RL = Reporting Limit

Report of Analysis

Client Sample ID: 079-SB-036-0809	Date Sampled: 06/13/10
Lab Sample ID: JA48997-19	Date Received: 06/14/10
Matrix: SO - Soil	Percent Solids: 79.5
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Redox Potential Vs H2	416		mv	1	06/16/10	JOO	ASTM D1498-76M
Solids, Percent	79.5		%	1	06/21/10	WR	SM18 2540G
pH	7.39		su	1	06/16/10	JOO	SW846 9045C,D

RL = Reporting Limit

Report of Analysis

Client Sample ID: 079-SB-036-0809	Date Sampled: 06/13/10
Lab Sample ID: JA48997-19A	Date Received: 06/14/10
Matrix: SO - Soil	Percent Solids: 79.5
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	10.9	0.49	mg/kg	1	06/29/10 12:58	BD	SW846 3060A/7199

RL = Reporting Limit

Report of Analysis

Client Sample ID: 079-SB-036-0809	Date Sampled: 06/13/10
Lab Sample ID: JA48997-19AR	Date Received: 06/14/10
Matrix: SO - Soil	Percent Solids: 79.5
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	16.2	0.50	mg/kg	1	07/12/10 12:10	BD	SW846 3060A/7199

RL = Reporting Limit



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

40

ACCUTEST Fresh Ponds Corporate Village, Building B 2235 Route 130, Dayton, New Jersey 08810 732-329-0260 Phone, 732-329-3499 Fax		Honeywell Chain Of Custody / Analysis Request										AESF Ref: 38439-43925 COC #: 37463-061310																	
Privileged & Confidential Y		Site Name: HUDSONCO				Location of Site: SA 5, Sites 079						Lab Use Only																	
Client Contact: (name, co., address) MACTEC Engineering and Consulting, Inc 200 American Metro Blvd., Suite 113 Hamilton, NJ 08619 aashust@mactec.com		EDD To: Andrew Shust (MACTEC)		Sampler: Giouzelis/Shust		Preservative						Lab Proj #																	
Hardcopy Report To: See above		Analysis Turnaround Time:		P O #		0						Lab ID: ACTD																	
Invoice To: Maria Kaouris - Honeywell PM Columbia Rd, Morristown, NJ 07962		Standard - Rush Charges Authorized for - 2 weeks - Y		1 week -								PAGE 1 of 2 Job No: JA48997																	
Next Day -		1 week -										What is in the Text File? Mouse over here.																	
Sample Identification		Sample Date		Sample Time		Sample Type		Sample Matrix		Sample Purpose		# of Can.		Written and maintained by AESI (Ver 3.7) 02-01-05 maes@accutest.com															
Location ID		Start Depth (ft)		End Depth (ft)		Field Sample ID		Units		mg/kg		Lab Sample Numbers		4.1 4															
1		079-SB-029		5		6		079-SB-029-0506A		6/13/2010		11:00		SOIL		Soil		REG		1		N		X		1		405	
2		079-SB-029		8		9		079-SB-029-0809A		6/13/2010		11:10		SOIL		Soil		REG		1		N		X		2			
3		079-SB-030		0		1		079-SB-030-0001A		6/13/2010		8:45		SOIL		Soil		REG		1		N		X		3			
4		079-SB-030		4		5		079-SB-030-0405A		6/13/2010		8:50		SOIL		Soil		REG		1		N		X		4			
5		079-SB-034		2		3		079-SB-034-0203A		6/13/2010		9:30		SOIL		Soil		REG		1		N		X		5			
6		079-SB-034		4		5		079-SB-034-0405A		6/13/2010		9:35		SOIL		Soil		REG		1		N		X		6			
7		079-SB-034		5		6		079-SB-034-0506A		6/13/2010		9:37		SOIL		Soil		REG		1		N		X		7			
8		079-SB-035		4		5		079-SB-035-0405A		6/13/2010		9:40		SOIL		Soil		REG		1		N		X		8			
9		079-SB-035		5		6		079-SB-035-0506A		6/13/2010		9:45		SOIL		Soil		REG		1		N		X		9			
10		079-SB-035		6		7		079-SB-035-0607A		6/13/2010		9:47		SOIL		Soil		REG		1		N		X		10			
11																													
12																													
Relinquished by: [Signature]		Company: MACTEC		Date/Time: 6/14/10 15:00		Received by: [Signature]		Company: Accutest		Date/Time: 6/14/10 16:00		Condition:		Cooler Temp.		Custody Seals Intact:													
Relinquished by: [Signature]		Company:		Date/Time: 6-14-10 16:00		Received by: [Signature]		Company:		Date/Time:		Condition:		Cooler Temp. 3.3°C		Custody Seals Intact:													
Preservatives: 0 = None; 1 = HCL; 2 = HNO3; 3 = H2SO4; 4 = NaOH; 5 = Zn. Acetate; 6 = MeOH; 7 = NaHSO4; 8 = Other (specify):																												Type Seal	

ACCUTEST Fresh Ponds Corporate Village, Building B 2235 Route 130, Dayton, New Jersey 08810 732-329-0200 Phone, 732-329-3499 Fax		Honeywell Chain Of Custody / Analysis Request						AFST Ref: 38439-43925 COC #: 57463-061310											
Privileged & Confidential <input checked="" type="checkbox"/> Y		Site Name: HUDSONCO		Lab Use Only				Lab Proj #											
EDD To: Andrew Shust (MACTEC)		Location of Site: SA 5, Sites 079		Lab ID #				Lab ID # ACTD											
Client Contact: (name, co., address) MACTEC Engineering and Consulting, Inc. 200 American Metro Blvd. Suite 113 Hamilton, NJ 08619 agshust@mactec.com		Sampler: Giouzelis/Shust		Preservative				PAGE 2 of 2											
Hardcopy Report To: See above		P O #		0 0				Job No. JA48997											
Invoice To: Maria Kaouris - Honeywell PM 101 Columbia Rd, Morristown, NJ 07962		Analysis Turnaround Time:		mg/kg				What is in the Text File? Mouse over here.											
Standard -		Rush Charges Authorized for -		mg/kg				Written and maintained by AESI (Ver 3.7) 02-01-05 mresaur@aol.com											
2 weeks - 4		1 week -		mg/kg				Lab Sample Numbers											
Next Day -																			
Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Units	mg/kg	mg/kg							
Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID																
1	079-SB-036	0.5	1	079-SB-036-0001	6/13/2010	8:55	SOIL	Soil	REG	1	grab	N	X					-11	
2	079-SB-036	1.5	2	079-SB-036-0102	6/13/2010	9:00	SOIL	Soil	REG	1	grab	N	X					-12	
3	079-SB-036	2.5	3	079-SB-036-0203	6/13/2010	9:05	SOIL	Soil	REG	1	grab	N	X					-13	
4	079-SB-036	3	3.5	079-SB-036-0304	6/13/2010	9:07	SOIL	Soil	REG	1	grab	N	X					-14	
5	079-SB-036	4	4.5	079-SB-036-0405	6/13/2010	9:10	SOIL	Soil	REG	1	grab	N	X					-15	
6	079-SB-036	5	5.5	079-SB-036-0506	6/13/2010	9:12	SOIL	Soil	REG	1	grab	N	X					-16	
7	079-SB-036	6	6.5	079-SB-036-0607	6/13/2010	9:15	SOIL	Soil	REG	1	grab	N	X					-17	
8	079-SB-036	7	7.5	079-SB-036-0708	6/13/2010	9:17	SOIL	Soil	REG	1	grab	N	X					-18	
9	079-SB-036	8	8.5	079-SB-036-0809	6/13/2010	9:20	SOIL	Soil	REG	1	grab	N	X					-19	
10																			
11																			
12																			
Relinquished by: <i>[Signature]</i>		Company: MACTEC		Received by: <i>[Signature]</i>		Company: <i>[Signature]</i>		Condition: <i>[Signature]</i>		Custody Seals Intact: <input checked="" type="checkbox"/>		Cooler Temp.:							
Date/Time: 6/14/10 15:55		Date/Time: 6/14/10 16:00		Cooler Temp.:		3.3°C													
Relinquished by: <i>[Signature]</i>		Company: <i>[Signature]</i>		Received by: <i>[Signature]</i>		Company: <i>[Signature]</i>		Condition: <i>[Signature]</i>		Custody Seals Intact: <input checked="" type="checkbox"/>		Cooler Temp.:							
Date/Time: 6/14/10 16:00		Date/Time: 6/14/10 16:00		Cooler Temp.:		3.3°C													
Preservatives: 0 = None; 1 = HCL; 2 = HNO3; 3 = H2SO4; 4 = NaOH; 5 = Zn. Acetate; 6 = MeOH; 7 = NaHSO4; 8 = Other (specify):																			

Tap Seal



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JA48997

Client:

Immediate Client Services Action Required: No

Date / Time Received: 6/14/2010

Delivery Method:

Client Service Action Required at Login: No

Project:

No. Coolers: 1

Airbill #'s:

<u>Cooler Security</u>	<u>Y or N</u>			<u>Y or N</u>	
1. Custody Seals Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. SmpI Dates/Time OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y or N</u>	
1. Temp criteria achieved:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Cooler temp verification:	Infrared gun	
3. Cooler media:	Ice (bag)	

<u>Quality Control Preservatio</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Trip Blank listed on COC:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Samples preserved properly:	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
4. VOCs headspace free:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

<u>Sample Integrity - Documentation</u>	<u>Y or N</u>	
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y or N</u>	
1. Sample recvd within HT:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Condition of sample:	Intact	

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
2. Bottles received for unspecified tests	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
4. Compositing instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>

Comments

Accutest Laboratories
V: 732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www.accutest.com

4.1
4

Internal Sample Tracking Chronicle

Honeywell International Inc.

Job No: JA48997

HLANJPR: SA-5, Site 079, Jersey City, NJ

4.2
4

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JA48997-1 Collected: 13-JUN-10 11:00 By: G/S Received: 14-JUN-10 By: TH 079-SB-029-0506A						
JA48997-1	EPA 376.1M/9034 M	18-JUN-10	ST	17-JUN-10	ST	S
JA48997-1	SM18 2540G	24-JUN-10	WR			%SOL
JA48997-2 Collected: 13-JUN-10 11:10 By: G/S Received: 14-JUN-10 By: TH 079-SB-029-0809A						
JA48997-2	EPA 376.1M/9034 M	18-JUN-10	ST	17-JUN-10	ST	S
JA48997-2	SM18 2540G	24-JUN-10	WR			%SOL
JA48997-3 Collected: 13-JUN-10 08:45 By: G/S Received: 14-JUN-10 By: TH 079-SB-030-0001A						
JA48997-3	EPA 376.1M/9034 M	18-JUN-10	ST	17-JUN-10	ST	S
JA48997-3	SM18 2540G	24-JUN-10	WR			%SOL
JA48997-4 Collected: 13-JUN-10 08:50 By: G/S Received: 14-JUN-10 By: TH 079-SB-030-0405A						
JA48997-4	EPA 376.1M/9034 M	18-JUN-10	ST	17-JUN-10	ST	S
JA48997-4	SM18 2540G	24-JUN-10	WR			%SOL
JA48997-5 Collected: 13-JUN-10 09:30 By: G/S Received: 14-JUN-10 By: TH 079-SB-034-0203A						
JA48997-5	EPA 376.1M/9034 M	18-JUN-10	ST	17-JUN-10	ST	S
JA48997-5	SM18 2540G	24-JUN-10	WR			%SOL
JA48997-6 Collected: 13-JUN-10 09:35 By: G/S Received: 14-JUN-10 By: TH 079-SB-034-0405A						
JA48997-6	EPA 376.1M/9034 M	18-JUN-10	ST	17-JUN-10	ST	S
JA48997-6	SM18 2540G	24-JUN-10	WR			%SOL
JA48997-7 Collected: 13-JUN-10 09:37 By: G/S Received: 14-JUN-10 By: TH 079-SB-034-0506A						
JA48997-7	EPA 376.1M/9034 M	18-JUN-10	ST	17-JUN-10	ST	S

Internal Sample Tracking Chronicle

Honeywell International Inc.

Job No: JA48997

HLANJPR: SA-5, Site 079, Jersey City, NJ

4.2
4

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JA48997-7	SM18 2540G	24-JUN-10	WR			%SOL
JA48997-8 Collected: 13-JUN-10 09:40 By: G/S Received: 14-JUN-10 By: TH 079-SB-035-0405A						
JA48997-8	EPA 376.1M/9034 M	18-JUN-10	ST	17-JUN-10	ST	S
JA48997-8	SM18 2540G	24-JUN-10	WR			%SOL
JA48997-9 Collected: 13-JUN-10 09:45 By: G/S Received: 14-JUN-10 By: TH 079-SB-035-0506A						
JA48997-9	EPA 376.1M/9034 M	18-JUN-10	ST	17-JUN-10	ST	S
JA48997-9	SM18 2540G	24-JUN-10	WR			%SOL
JA48997-10 Collected: 13-JUN-10 09:47 By: G/S Received: 14-JUN-10 By: TH 079-SB-035-0607A						
JA48997-10	EPA 376.1M/9034 M	18-JUN-10	ST	17-JUN-10	ST	S
JA48997-10	SM18 2540G	24-JUN-10	WR			%SOL
JA48997-11 Collected: 13-JUN-10 08:55 By: G/S Received: 14-JUN-10 By: TH 079-SB-036-0001						
JA48997-11	ASTM D1498-76M	16-JUN-10	JOO			EH
JA48997-11	SW846 9045C,D	16-JUN-10	JOO			PH
JA48997-11	SM18 2540G	21-JUN-10	WR			SOL104
JA48997-12 Collected: 13-JUN-10 09:00 By: G/S Received: 14-JUN-10 By: TH 079-SB-036-0102						
JA48997-12	ASTM D1498-76M	16-JUN-10	JOO			EH
JA48997-12	SW846 9045C,D	16-JUN-10	JOO			PH
JA48997-12	SM18 2540G	21-JUN-10	WR			SOL104
JA48997-13 Collected: 13-JUN-10 09:05 By: G/S Received: 14-JUN-10 By: TH 079-SB-036-0203						
JA48997-13	ASTM D1498-76M	16-JUN-10	JOO			EH
JA48997-13	SW846 9045C,D	16-JUN-10	JOO			PH
JA48997-13	SM18 2540G	21-JUN-10	WR			SOL104

Internal Sample Tracking Chronicle

Honeywell International Inc.

Job No: JA48997

HLANJPR: SA-5, Site 079, Jersey City, NJ

4.2
4

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JA48997-14 Collected: 13-JUN-10 09:07 By: G/S Received: 14-JUN-10 By: TH 079-SB-036-0304						
JA48997-14	ASTM D1498-76M	16-JUN-10	JOO			EH
JA48997-14	SW846 9045C,D	16-JUN-10	JOO			PH
JA48997-14	SM18 2540G	21-JUN-10	WR			SOL104
JA48997-15 Collected: 13-JUN-10 09:10 By: G/S Received: 14-JUN-10 By: TH 079-SB-036-0405						
JA48997-15	ASTM D1498-76M	16-JUN-10	JOO			EH
JA48997-15	SW846 9045C,D	16-JUN-10	JOO			PH
JA48997-15	SM18 2540G	21-JUN-10	WR			SOL104
JA48997-16 Collected: 13-JUN-10 09:12 By: G/S Received: 14-JUN-10 By: TH 079-SB-036-0506						
JA48997-16	ASTM D1498-76M	16-JUN-10	JOO			EH
JA48997-16	SW846 9045C,D	16-JUN-10	JOO			PH
JA48997-16	SM18 2540G	21-JUN-10	WR			SOL104
JA48997-17 Collected: 13-JUN-10 09:15 By: G/S Received: 14-JUN-10 By: TH 079-SB-036-0607						
JA48997-17	ASTM D1498-76M	16-JUN-10	JOO			EH
JA48997-17	SW846 9045C,D	16-JUN-10	JOO			PH
JA48997-17	SM18 2540G	21-JUN-10	WR			SOL104
JA48997-18 Collected: 13-JUN-10 09:17 By: G/S Received: 14-JUN-10 By: TH 079-SB-036-0708						
JA48997-18	ASTM D1498-76M	16-JUN-10	JOO			EH
JA48997-18	SW846 9045C,D	16-JUN-10	JOO			PH
JA48997-18	SM18 2540G	21-JUN-10	WR			SOL104
JA48997-19 Collected: 13-JUN-10 09:20 By: G/S Received: 14-JUN-10 By: TH 079-SB-036-0809						
JA48997-19	ASTM D1498-76M	16-JUN-10	JOO			EH

Internal Sample Tracking Chronicle

Honeywell International Inc.

Job No: JA48997

HLANJPR: SA-5, Site 079, Jersey City, NJ

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Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JA48997-19	SW846 9045C,D	16-JUN-10	JOO			PH
JA48997-19	SM18 2540G	21-JUN-10	WR			SOL104
JA48997-11A Collected: 13-JUN-10 08:55 By: G/S Received: 14-JUN-10 By: TH 079-SB-036-0001						
JA48997-11A	SW846 3060A/7199	29-JUN-10 15:57	BD	25-JUN-10	RI	XCRA7199
JA48997-12A Collected: 13-JUN-10 09:00 By: G/S Received: 14-JUN-10 By: TH 079-SB-036-0102						
JA48997-12A	SW846 3060A/7199	30-JUN-10 11:28	BD	25-JUN-10	RI	XCRA7199
JA48997-13A Collected: 13-JUN-10 09:05 By: G/S Received: 14-JUN-10 By: TH 079-SB-036-0203						
JA48997-13A	SW846 3060A/7199	30-JUN-10 11:43	BD	25-JUN-10	RI	XCRA7199
JA48997-14A Collected: 13-JUN-10 09:07 By: G/S Received: 14-JUN-10 By: TH 079-SB-036-0304						
JA48997-14A	SW846 3060A/7199	29-JUN-10 12:13	BD	25-JUN-10	RI	XCRA7199
JA48997-15A Collected: 13-JUN-10 09:10 By: G/S Received: 14-JUN-10 By: TH 079-SB-036-0405						
JA48997-15A	SW846 3060A/7199	29-JUN-10 12:06	BD	25-JUN-10	RI	XCRA7199
JA48997-16A Collected: 13-JUN-10 09:12 By: G/S Received: 14-JUN-10 By: TH 079-SB-036-0506						
JA48997-16A	SW846 3060A/7199	30-JUN-10 11:57	BD	25-JUN-10	RI	XCRA7199
JA48997-17A Collected: 13-JUN-10 09:15 By: G/S Received: 14-JUN-10 By: TH 079-SB-036-0607						
JA48997-17A	SW846 3060A/7199	30-JUN-10 13:34	BD	25-JUN-10	RI	XCRA7199

Internal Sample Tracking Chronicle

Honeywell International Inc.

Job No: JA48997

HLANJPR: SA-5, Site 079, Jersey City, NJ

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Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JA48997-18A 079-SB-036-0708	Collected: 13-JUN-10 09:17	By: G/S	Received: 14-JUN-10	By: TH		
JA48997-18A	SW846 3060A/7199	30-JUN-10 13:48	BD	25-JUN-10	RI	XCRA7199
JA48997-19A 079-SB-036-0809	Collected: 13-JUN-10 09:20	By: G/S	Received: 14-JUN-10	By: TH		
JA48997-19A	SW846 3060A/7199	29-JUN-10 12:58	BD	25-JUN-10	RI	XCRA7199
JA48997-14A 079-SB-036-0304	Collected: 13-JUN-10 09:07	By: G/S	Received: 14-JUN-10	By: TH		
JA48997-14A	SW846 3060A/7199	12-JUL-10 11:18	BD	08-JUL-10	NP	XCRA7199
JA48997-15A 079-SB-036-0405	Collected: 13-JUN-10 09:10	By: G/S	Received: 14-JUN-10	By: TH		
JA48997-15A	SW846 3060A/7199	12-JUL-10 12:02	BD	08-JUL-10	NP	XCRA7199
JA48997-19A 079-SB-036-0809	Collected: 13-JUN-10 09:20	By: G/S	Received: 14-JUN-10	By: TH		
JA48997-19A	SW846 3060A/7199	12-JUL-10 12:10	BD	08-JUL-10	NP	XCRA7199

Accutest Internal Chain of Custody

Job Number: JA48997
Account: HWINJM Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ
Received: 06/14/10

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Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA48997-1.1	Secured Storage	Zethan Reyes	06/17/10 09:04	Retrieve from Storage
JA48997-1.1	Zethan Reyes	Sarvadaman Tripathi	06/17/10 09:05	Custody Transfer
JA48997-1.1	Sarvadaman Tripathi	Secured Storage	06/17/10 18:56	Return to Storage
JA48997-1.1	Secured Storage	John Thomas	06/24/10 11:53	Retrieve from Storage
JA48997-1.1	John Thomas	Wojciech Rodzik	06/24/10 11:55	Custody Transfer
JA48997-1.1	Wojciech Rodzik	Secured Storage	06/24/10 16:19	Return to Storage
JA48997-1.1	Dave Hunkele		08/10/10 05:24	Disposed
JA48997-2.1	Secured Storage	Zethan Reyes	06/17/10 09:04	Retrieve from Storage
JA48997-2.1	Zethan Reyes	Sarvadaman Tripathi	06/17/10 09:05	Custody Transfer
JA48997-2.1	Sarvadaman Tripathi	Secured Storage	06/17/10 18:56	Return to Storage
JA48997-2.1	Secured Storage	John Thomas	06/24/10 11:53	Retrieve from Storage
JA48997-2.1	John Thomas	Wojciech Rodzik	06/24/10 11:55	Custody Transfer
JA48997-2.1	Wojciech Rodzik	Secured Storage	06/24/10 16:19	Return to Storage
JA48997-2.1	Dave Hunkele		08/10/10 05:24	Disposed
JA48997-3.1	Secured Storage	Zethan Reyes	06/17/10 09:04	Retrieve from Storage
JA48997-3.1	Zethan Reyes	Sarvadaman Tripathi	06/17/10 09:05	Custody Transfer
JA48997-3.1	Sarvadaman Tripathi	Secured Storage	06/17/10 18:56	Return to Storage
JA48997-3.1	Secured Storage	John Thomas	06/24/10 11:53	Retrieve from Storage
JA48997-3.1	John Thomas	Wojciech Rodzik	06/24/10 11:55	Custody Transfer
JA48997-3.1	Wojciech Rodzik	Secured Storage	06/24/10 16:19	Return to Storage
JA48997-3.1	Dave Hunkele		08/10/10 05:24	Disposed
JA48997-4.1	Secured Storage	Zethan Reyes	06/17/10 09:04	Retrieve from Storage
JA48997-4.1	Zethan Reyes	Sarvadaman Tripathi	06/17/10 09:05	Custody Transfer
JA48997-4.1	Sarvadaman Tripathi	Secured Storage	06/17/10 18:56	Return to Storage
JA48997-4.1	Secured Storage	John Thomas	06/24/10 11:53	Retrieve from Storage
JA48997-4.1	John Thomas	Wojciech Rodzik	06/24/10 11:55	Custody Transfer
JA48997-4.1	Wojciech Rodzik	Secured Storage	06/24/10 16:19	Return to Storage
JA48997-4.1	Dave Hunkele		08/10/10 05:24	Disposed
JA48997-5.1	Secured Storage	Zethan Reyes	06/17/10 09:04	Retrieve from Storage
JA48997-5.1	Zethan Reyes	Sarvadaman Tripathi	06/17/10 09:05	Custody Transfer
JA48997-5.1	Sarvadaman Tripathi	Secured Storage	06/17/10 18:56	Return to Storage
JA48997-5.1	Secured Storage	John Thomas	06/24/10 11:53	Retrieve from Storage
JA48997-5.1	John Thomas	Wojciech Rodzik	06/24/10 11:55	Custody Transfer
JA48997-5.1	Wojciech Rodzik	Secured Storage	06/24/10 16:19	Return to Storage
JA48997-5.1	Dave Hunkele		08/10/10 05:24	Disposed
JA48997-6.1	Secured Storage	Zethan Reyes	06/17/10 09:04	Retrieve from Storage
JA48997-6.1	Zethan Reyes	Sarvadaman Tripathi	06/17/10 09:05	Custody Transfer
JA48997-6.1	Sarvadaman Tripathi	Secured Storage	06/17/10 18:56	Return to Storage
JA48997-6.1	Secured Storage	John Thomas	06/24/10 11:53	Retrieve from Storage

Accutest Internal Chain of Custody

Job Number: JA48997
Account: HWINJM Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ
Received: 06/14/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA48997-6.1	John Thomas	Wojciech Rodzik	06/24/10 11:55	Custody Transfer
JA48997-6.1	Wojciech Rodzik	Secured Storage	06/24/10 16:19	Return to Storage
JA48997-6.1	Dave Hunkele		08/10/10 05:24	Disposed
JA48997-7.1	Secured Storage	Zethan Reyes	06/17/10 09:04	Retrieve from Storage
JA48997-7.1	Zethan Reyes	Sarvadaman Tripathi	06/17/10 09:05	Custody Transfer
JA48997-7.1	Sarvadaman Tripathi	Secured Storage	06/17/10 18:56	Return to Storage
JA48997-7.1	Secured Storage	John Thomas	06/24/10 11:53	Retrieve from Storage
JA48997-7.1	John Thomas	Wojciech Rodzik	06/24/10 11:55	Custody Transfer
JA48997-7.1	Wojciech Rodzik	Secured Storage	06/24/10 16:19	Return to Storage
JA48997-7.1	Dave Hunkele		08/10/10 05:24	Disposed
JA48997-8.1	Secured Storage	Zethan Reyes	06/17/10 09:04	Retrieve from Storage
JA48997-8.1	Zethan Reyes	Sarvadaman Tripathi	06/17/10 09:05	Custody Transfer
JA48997-8.1	Sarvadaman Tripathi	Secured Storage	06/17/10 18:56	Return to Storage
JA48997-8.1	Secured Storage	John Thomas	06/24/10 11:53	Retrieve from Storage
JA48997-8.1	John Thomas	Wojciech Rodzik	06/24/10 11:55	Custody Transfer
JA48997-8.1	Wojciech Rodzik	Secured Storage	06/24/10 16:19	Return to Storage
JA48997-8.1	Dave Hunkele		08/10/10 05:24	Disposed
JA48997-9.1	Secured Storage	Zethan Reyes	06/17/10 09:04	Retrieve from Storage
JA48997-9.1	Zethan Reyes	Sarvadaman Tripathi	06/17/10 09:05	Custody Transfer
JA48997-9.1	Sarvadaman Tripathi	Secured Storage	06/17/10 18:56	Return to Storage
JA48997-9.1	Secured Storage	John Thomas	06/24/10 11:53	Retrieve from Storage
JA48997-9.1	John Thomas	Wojciech Rodzik	06/24/10 11:55	Custody Transfer
JA48997-9.1	Wojciech Rodzik	Secured Storage	06/24/10 16:19	Return to Storage
JA48997-9.1	Dave Hunkele		08/10/10 05:24	Disposed
JA48997-10.1	Secured Storage	Zethan Reyes	06/17/10 09:04	Retrieve from Storage
JA48997-10.1	Zethan Reyes	Sarvadaman Tripathi	06/17/10 09:05	Custody Transfer
JA48997-10.1	Sarvadaman Tripathi		06/17/10 18:54	Depleted
JA48997-10.1	Secured Storage	John Thomas	06/24/10 11:53	Retrieve from Storage
sample not depleted, volume intact				
JA48997-10.1	John Thomas	Wojciech Rodzik	06/24/10 11:55	Custody Transfer
JA48997-10.1	Wojciech Rodzik	Secured Storage	06/24/10 16:19	Return to Storage
JA48997-10.1	Dave Hunkele		08/10/10 05:24	Disposed
JA48997-11.1	Secured Storage	Zethan Reyes	06/16/10 08:59	Retrieve from Storage
JA48997-11.1	Zethan Reyes	Shuzhen Han	06/16/10 10:25	Custody Transfer
JA48997-11.1	Shuzhen Han	Secured Storage	06/16/10 15:53	Return to Storage
JA48997-11.1	Secured Storage	Wojciech Rodzik	06/21/10 09:26	Retrieve from Storage
JA48997-11.1	Wojciech Rodzik	Secured Storage	06/21/10 14:41	Return to Storage
JA48997-11.1	Secured Storage	Zethan Reyes	06/25/10 09:04	Retrieve from Storage
JA48997-11.1	Zethan Reyes	Rie Iwasaki	06/25/10 09:06	Custody Transfer

Accutest Internal Chain of Custody

Job Number: JA48997
Account: HWINJM Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ
Received: 06/14/10

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Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA48997-11.1	Rie Iwasaki	Secured Storage	06/25/10 17:13	Return to Storage
JA48997-11.1	Dave Hunkele		08/10/10 05:24	Disposed
JA48997-11.1.1	Rie Iwasaki	GenChem Digestion	06/25/10 13:00	Digestate from JA48997-11.1
JA48997-12.1	Secured Storage	Zethan Reyes	06/16/10 08:59	Retrieve from Storage
JA48997-12.1	Zethan Reyes	Shuzhen Han	06/16/10 10:25	Custody Transfer
JA48997-12.1	Shuzhen Han	Secured Storage	06/16/10 15:53	Return to Storage
JA48997-12.1	Secured Storage	Wojciech Rodzik	06/21/10 09:26	Retrieve from Storage
JA48997-12.1	Wojciech Rodzik	Secured Storage	06/21/10 14:41	Return to Storage
JA48997-12.1	Secured Storage	Zethan Reyes	06/25/10 09:04	Retrieve from Storage
JA48997-12.1	Zethan Reyes	Rie Iwasaki	06/25/10 09:06	Custody Transfer
JA48997-12.1	Rie Iwasaki	Secured Storage	06/25/10 17:13	Return to Storage
JA48997-12.1	Dave Hunkele		08/10/10 05:24	Disposed
JA48997-12.1.1	Rie Iwasaki	GenChem Digestion	06/25/10 13:00	Digestate from JA48997-12.1
JA48997-13.1	Secured Storage	Zethan Reyes	06/16/10 08:59	Retrieve from Storage
JA48997-13.1	Zethan Reyes	Shuzhen Han	06/16/10 10:25	Custody Transfer
JA48997-13.1	Shuzhen Han	Secured Storage	06/16/10 15:53	Return to Storage
JA48997-13.1	Secured Storage	Wojciech Rodzik	06/21/10 09:26	Retrieve from Storage
JA48997-13.1	Wojciech Rodzik	Secured Storage	06/21/10 14:41	Return to Storage
JA48997-13.1	Secured Storage	Zethan Reyes	06/25/10 09:04	Retrieve from Storage
JA48997-13.1	Zethan Reyes	Rie Iwasaki	06/25/10 09:06	Custody Transfer
JA48997-13.1	Rie Iwasaki	Secured Storage	06/25/10 17:13	Return to Storage
JA48997-13.1	Dave Hunkele		08/10/10 05:24	Disposed
JA48997-13.1.1	Rie Iwasaki	GenChem Digestion	06/25/10 13:00	Digestate from JA48997-13.1
JA48997-14.1	Secured Storage	Zethan Reyes	06/16/10 08:59	Retrieve from Storage
JA48997-14.1	Zethan Reyes	Shuzhen Han	06/16/10 10:25	Custody Transfer
JA48997-14.1	Shuzhen Han	Secured Storage	06/16/10 15:53	Return to Storage
JA48997-14.1	Secured Storage	Wojciech Rodzik	06/21/10 09:21	Retrieve from Storage
JA48997-14.1	Wojciech Rodzik	Secured Storage	06/21/10 14:41	Return to Storage
JA48997-14.1	Secured Storage	Zethan Reyes	06/25/10 09:04	Retrieve from Storage
JA48997-14.1	Zethan Reyes	Rie Iwasaki	06/25/10 09:06	Custody Transfer
JA48997-14.1	Rie Iwasaki	Secured Storage	06/25/10 17:13	Return to Storage
JA48997-14.1	Secured Storage	Zethan Reyes	07/02/10 08:40	Retrieve from Storage
JA48997-14.1	Zethan Reyes	Rie Iwasaki	07/02/10 08:42	Custody Transfer
JA48997-14.1	Rie Iwasaki	Secured Storage	07/02/10 15:14	Return to Storage
JA48997-14.1	Secured Storage	Zethan Reyes	07/08/10 08:06	Retrieve from Storage
JA48997-14.1	Zethan Reyes	Barbara Dula	07/08/10 08:12	Custody Transfer
JA48997-14.1	Barbara Dula	Secured Storage	07/08/10 14:13	Return to Storage
JA48997-14.1	Secured Storage	Nirali Patel	07/08/10 15:47	Retrieve from Storage

Accutest Internal Chain of Custody

Job Number: JA48997
Account: HWINJM Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ
Received: 06/14/10

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Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA48997-14.1	Nirali Patel	Secured Storage	07/08/10 15:47	Return to Storage
JA48997-14.1	Dave Hunkele		08/10/10 05:24	Disposed
JA48997-14.1.1	Rie Iwasaki	GenChem Digestion	06/25/10 12:59	Digestate from JA48997-14.1
JA48997-14.1.2	Rie Iwasaki	GenChem Digestion	07/02/10 11:10	Digestate from JA48997-14.1
JA48997-15.1	Secured Storage	Zethan Reyes	06/16/10 08:59	Retrieve from Storage
JA48997-15.1	Zethan Reyes	Shuzhen Han	06/16/10 10:25	Custody Transfer
JA48997-15.1	Shuzhen Han	Secured Storage	06/16/10 15:53	Return to Storage
JA48997-15.1	Secured Storage	Wojciech Rodzik	06/21/10 09:21	Retrieve from Storage
JA48997-15.1	Wojciech Rodzik	Secured Storage	06/21/10 14:41	Return to Storage
JA48997-15.1	Secured Storage	Zethan Reyes	06/25/10 09:04	Retrieve from Storage
JA48997-15.1	Zethan Reyes	Rie Iwasaki	06/25/10 09:06	Custody Transfer
JA48997-15.1	Rie Iwasaki	Secured Storage	06/25/10 17:13	Return to Storage
JA48997-15.1	Secured Storage	Zethan Reyes	07/02/10 08:40	Retrieve from Storage
JA48997-15.1	Zethan Reyes	Rie Iwasaki	07/02/10 08:42	Custody Transfer
JA48997-15.1	Rie Iwasaki	Secured Storage	07/02/10 15:14	Return to Storage
JA48997-15.1	Secured Storage	Zethan Reyes	07/08/10 08:06	Retrieve from Storage
JA48997-15.1	Zethan Reyes	Barbara Dula	07/08/10 08:12	Custody Transfer
JA48997-15.1	Barbara Dula	Secured Storage	07/08/10 14:13	Return to Storage
JA48997-15.1	Secured Storage	Nirali Patel	07/08/10 15:47	Retrieve from Storage
JA48997-15.1	Nirali Patel	Secured Storage	07/08/10 15:47	Return to Storage
JA48997-15.1	Dave Hunkele		08/10/10 05:24	Disposed
JA48997-15.1.1	Rie Iwasaki	GenChem Digestion	06/25/10 12:59	Digestate from JA48997-15.1
JA48997-15.1.2	Rie Iwasaki	GenChem Digestion	07/02/10 11:10	Digestate from JA48997-15.1
JA48997-16.1	Secured Storage	Zethan Reyes	06/16/10 08:59	Retrieve from Storage
JA48997-16.1	Zethan Reyes	Shuzhen Han	06/16/10 10:25	Custody Transfer
JA48997-16.1	Shuzhen Han	Secured Storage	06/16/10 15:53	Return to Storage
JA48997-16.1	Secured Storage	Wojciech Rodzik	06/21/10 09:21	Retrieve from Storage
JA48997-16.1	Wojciech Rodzik	Secured Storage	06/21/10 14:41	Return to Storage
JA48997-16.1	Secured Storage	Zethan Reyes	06/25/10 09:04	Retrieve from Storage
JA48997-16.1	Zethan Reyes	Rie Iwasaki	06/25/10 09:06	Custody Transfer
JA48997-16.1	Rie Iwasaki	Secured Storage	06/25/10 17:13	Return to Storage
JA48997-16.1	Dave Hunkele		08/10/10 05:24	Disposed
JA48997-16.1.1	Rie Iwasaki	GenChem Digestion	06/25/10 13:00	Digestate from JA48997-16.1
JA48997-17.1	Secured Storage	Zethan Reyes	06/16/10 08:59	Retrieve from Storage
JA48997-17.1	Zethan Reyes	Shuzhen Han	06/16/10 10:25	Custody Transfer
JA48997-17.1	Shuzhen Han	Secured Storage	06/16/10 15:53	Return to Storage

Accutest Internal Chain of Custody

Job Number: JA48997
Account: HWINJM Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ
Received: 06/14/10

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Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA48997-17.1	Secured Storage	Wojciech Rodzik	06/21/10 09:21	Retrieve from Storage
JA48997-17.1	Wojciech Rodzik	Secured Storage	06/21/10 14:41	Return to Storage
JA48997-17.1	Secured Storage	Zethan Reyes	06/25/10 09:04	Retrieve from Storage
JA48997-17.1	Zethan Reyes	Rie Iwasaki	06/25/10 09:06	Custody Transfer
JA48997-17.1	Rie Iwasaki	Secured Storage	06/25/10 17:13	Return to Storage
JA48997-17.1	Dave Hunkele		08/10/10 05:24	Disposed
JA48997-17.1.1	Rie Iwasaki	GenChem Digestion	06/25/10 13:00	Digestate from JA48997-17.1
JA48997-18.1	Secured Storage	Zethan Reyes	06/16/10 08:59	Retrieve from Storage
JA48997-18.1	Zethan Reyes	Shuzhen Han	06/16/10 10:25	Custody Transfer
JA48997-18.1	Shuzhen Han	Secured Storage	06/16/10 15:53	Return to Storage
JA48997-18.1	Secured Storage	Wojciech Rodzik	06/21/10 09:21	Retrieve from Storage
JA48997-18.1	Wojciech Rodzik	Secured Storage	06/21/10 14:41	Return to Storage
JA48997-18.1	Secured Storage	Zethan Reyes	06/25/10 09:04	Retrieve from Storage
JA48997-18.1	Zethan Reyes	Rie Iwasaki	06/25/10 09:06	Custody Transfer
JA48997-18.1	Rie Iwasaki	Secured Storage	06/25/10 17:13	Return to Storage
JA48997-18.1	Dave Hunkele		08/10/10 05:24	Disposed
JA48997-18.1.1	Rie Iwasaki	GenChem Digestion	06/25/10 13:00	Digestate from JA48997-18.1
JA48997-19.1	Secured Storage	Zethan Reyes	06/16/10 08:59	Retrieve from Storage
JA48997-19.1	Zethan Reyes	Shuzhen Han	06/16/10 10:25	Custody Transfer
JA48997-19.1	Shuzhen Han	Secured Storage	06/16/10 15:53	Return to Storage
JA48997-19.1	Secured Storage	Wojciech Rodzik	06/21/10 09:21	Retrieve from Storage
JA48997-19.1	Wojciech Rodzik	Secured Storage	06/21/10 14:41	Return to Storage
JA48997-19.1	Secured Storage	Zethan Reyes	06/25/10 09:04	Retrieve from Storage
JA48997-19.1	Zethan Reyes	Rie Iwasaki	06/25/10 09:06	Custody Transfer
JA48997-19.1	Rie Iwasaki	Secured Storage	06/25/10 17:13	Return to Storage
JA48997-19.1	Secured Storage	Zethan Reyes	07/02/10 08:40	Retrieve from Storage
JA48997-19.1	Zethan Reyes	Rie Iwasaki	07/02/10 08:42	Custody Transfer
JA48997-19.1	Rie Iwasaki	Secured Storage	07/02/10 15:14	Return to Storage
JA48997-19.1	Secured Storage	Zethan Reyes	07/08/10 08:06	Retrieve from Storage
JA48997-19.1	Zethan Reyes	Barbara Dula	07/08/10 08:12	Custody Transfer
JA48997-19.1	Barbara Dula	Secured Storage	07/08/10 14:13	Return to Storage
JA48997-19.1	Secured Storage	Nirali Patel	07/08/10 15:47	Retrieve from Storage
JA48997-19.1	Nirali Patel	Secured Storage	07/08/10 15:47	Return to Storage
JA48997-19.1	Dave Hunkele		08/10/10 05:24	Disposed
JA48997-19.1.1	Rie Iwasaki	GenChem Digestion	06/25/10 12:59	Digestate from JA48997-19.1
JA48997-19.1.2	Rie Iwasaki	GenChem Digestion	07/02/10 11:10	Digestate from JA48997-19.1



General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries
- Instrument Runlogs/QC
- Percent Solids Raw Data Summary

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JA48997
Account: HWINJM - Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chromium, Hexavalent	GP54306/GN39364	0.40	0.0	mg/kg	40	44.9	112.3	80-120%
Chromium, Hexavalent	GP54306/GN39364			mg/kg	880	869	98.8	80-120%
Chromium, Hexavalent	GP54307/GN39385	0.40	0.0	mg/kg	40	43.9	109.8	80-120%
Chromium, Hexavalent	GP54307/GN39385			mg/kg	856	814	95.1	80-120%
Chromium, Hexavalent	GP54481/GN39774	0.40	0.0	mg/kg	40	39.3	98.3	80-120%
Chromium, Hexavalent	GP54481/GN39774			mg/kg	784	776	99.0	80-120%
Sulfide, Neutral Extraction	GP54198/GN38943	4.0	0.0	mg/kg	40.4	38.5	95.3	80-120%

51
5

Associated Samples:

Batch GP54198: JA48997-1, JA48997-10, JA48997-2, JA48997-3, JA48997-4, JA48997-5, JA48997-6, JA48997-7, JA48997-8, JA48997-9

Batch GP54306: JA48997-14A, JA48997-15A, JA48997-19A

Batch GP54307: JA48997-11A, JA48997-12A, JA48997-13A, JA48997-16A, JA48997-17A, JA48997-18A

Batch GP54481: JA48997-14AR, JA48997-15AR, JA48997-19AR

(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JA48997
Account: HWINJM - Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chromium, Hexavalent	GP54306/GN39364	JA48997-15A	mg/kg	0.81	0.62	26.6(a)	0-20%
Chromium, Hexavalent	GP54307/GN39385	JA48997-11A	mg/kg	0.74	0.73	1.4	0-20%
Chromium, Hexavalent	GP54481/GN39774	JA48997-15AR	mg/kg	66.5	52.2	24.1*(b)	0-20%
Redox Potential Vs H2	GN38770	JA48832-1	mv	415	384	7.7	0-17%
Sulfide, Neutral Extraction	GP54198/GN38943	JA48997-4	mg/kg	0.0	0.0	0.0	0-12%
pH	GN38772	JA48832-1	su	6.88	6.58	0.1	0-10%

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Associated Samples:

Batch GN38770: JA48997-11, JA48997-12, JA48997-13, JA48997-14, JA48997-15, JA48997-16, JA48997-17, JA48997-18, JA48997-19

Batch GN38772: JA48997-11, JA48997-12, JA48997-13, JA48997-14, JA48997-15, JA48997-16, JA48997-17, JA48997-18, JA48997-19

Batch GP54198: JA48997-1, JA48997-10, JA48997-2, JA48997-3, JA48997-4, JA48997-5, JA48997-6, JA48997-7, JA48997-8, JA48997-9

JA48997-9

Batch GP54306: JA48997-14A, JA48997-15A, JA48997-19A

Batch GP54307: JA48997-11A, JA48997-12A, JA48997-13A, JA48997-16A, JA48997-17A, JA48997-18A

Batch GP54481: JA48997-14AR, JA48997-15AR, JA48997-19AR

(*) Outside of QC limits

(a) RPD acceptable due to low duplicate and sample concentrations.

(b) High RPD due to possible sample nonhomogeneity.

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JA48997
Account: HWINJM - Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chromium, Hexavalent	GP54306/GN39364	JA48997-15A	mg/kg	0.81	50.1	0.66	-0.3N(a)	75-125%
Chromium, Hexavalent	GP54306/GN39364	JA48997-15A	mg/kg	0.81	1350	409	30.3N(b)	75-125%
Chromium, Hexavalent	GP54307/GN39385	JA48997-11A	mg/kg	0.74	990	942	95.1(c)	75-125%
Chromium, Hexavalent	GP54307/GN39385	JA48997-11A	mg/kg	0.74	166	163	97.9(d)	75-125%
Chromium, Hexavalent	GP54307/GN39385	JA48997-11A	mg/kg	0.74	44.2	38.7	85.9(d)	75-125%
Chromium, Hexavalent	GP54481/GN39774	JA48997-15AR	mg/kg	66.5	49.1	15.7	-103.4N(e)	75-125%
Chromium, Hexavalent	GP54481/GN39774	JA48997-15AR	mg/kg	66.5	793	728	83.4(c)	75-125%
Sulfide, Neutral Extraction	GP54198/GN38943	JA48997-4	mg/kg	0.0	44.2	16.3	36.9	34-112%

Associated Samples:

Batch GP54198: JA48997-1, JA48997-10, JA48997-2, JA48997-3, JA48997-4, JA48997-5, JA48997-6, JA48997-7, JA48997-8, JA48997-9

Batch GP54306: JA48997-14A, JA48997-15A, JA48997-19A

Batch GP54307: JA48997-11A, JA48997-12A, JA48997-13A, JA48997-16A, JA48997-17A, JA48997-18A

Batch GP54481: JA48997-14AR, JA48997-15AR, JA48997-19AR

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

- (a) Soluble XCR matrix spike recovery indicates possible matrix interference. Good post spike recovery (101%) on this sample.
- (b) Insoluble XCR matrix spike recovery indicates possible matrix interference. See additional comments on soluble matrix spike recovery.
- (c) Good recovery on insoluble XCR matrix spike. See additional comments on soluble matrix spike recovery.
- (d) Good recovery on soluble XCR matrix spike. Good recovery (103 %) on the post-spike.
- (e) Soluble XCR matrix spike recovery indicates possible matrix interference. Good post spike recovery (98.8%) on this sample.

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JA48997

Account: HWINJM - Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

File ID: 610062902.TXT

Date Analyzed: 06/29/10

Methods: SW846 3060A/7199

Analyst: BD

Run ID: GN39364

Parameters: Chromium, Hexavalent

Time	Sample Description	Dilution Factor	PS Recov	Comments
08:44	GN39364-STD1	1		STDA
08:51	GN39364-STD2	1		STDB
08:59	GN39364-STD3	1		STDC
09:06	GN39364-STD4	1		STDD
09:14	GN39364-STD5	1		STDE
10:22	GN39364-CCV1	1		
10:29	GN39364-CCB1	1		
10:37	GP54306-MB1	1		
10:44	GP54306-MB1	1		
10:51	GP54306-B1	4		
10:59	GP54306-B1	4		
11:06	GP54306-B2	90		
11:14	GP54306-B2	90		
11:21	GP54306-S2	1		
11:28	GP54306-S1	1		
11:44	GP54306-D1	1		
11:51	GP54306-D1	1		
11:58	JA48997-15A	1		
12:06	JA48997-15A	1		
12:13	JA48997-14A	1		
12:21	JA48997-14A	1		
12:28	GP54306-B2	1		
12:35	GP54306-B1	1		
12:43	GN39364-CCV2	1		
12:50	GN39364-CCB2	1		
12:58	JA48997-19A	1		
13:05	JA48997-19A	1		
13:12	GP54306-S2	35		
13:20	GP54306-S2	35		
13:27	GP54306-S1	1		
13:35	GP54306-PS1	4		
13:42	GP54306-PS1	4		
13:49	GN39364-CCV3	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JA48997

Account: HWINJM - Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

File ID: 610062902.TXT Date Analyzed: 06/29/10 Methods: SW846 3060A/7199
Analyst: BD Run ID: GN39364
Parameters: Chromium, Hexavalent

Time	Sample Description	Dilution PS		Comments
		Factor	Recov	

13:57 GN39364-CCB3 1

Refer to raw data for calibration curve and standards.

5.4
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Instrument QC Summary
Inorganics Analyses

Login Number: JA48997
Account: HWINJM - Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

File ID: 610062902.TXT

Date Analyzed: 06/29/10
Run ID: GN39364

Methods: SW846 3060A/7199
Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN39364-CCV1	Chromium, Hexavalent	0.25	0.010	0.0057	.25	100.0	90-110
GN39364-CCB1	Chromium, Hexavalent	0.0057 U	0.010	0.0057			
GN39364-CCV2	Chromium, Hexavalent	0.26	0.010	0.0057	.25	104.0	90-110
GN39364-CCB2	Chromium, Hexavalent	0.0057 U	0.010	0.0057			
GN39364-CCV3	Chromium, Hexavalent	0.25	0.010	0.0057	.25	100.0	90-110
GN39364-CCB3	Chromium, Hexavalent	0.0057 U	0.010	0.0057			

(!) Outside of QC limits

5.4
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Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JA48997

Account: HWINJM - Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

File ID: 610062903.TXT

Date Analyzed: 06/29/10

Methods: SW846 3060A/7199

Analyst: BD

Run ID: GN39385

Parameters: Chromium, Hexavalent

Time	Sample Description	Dilution Factor	PS Recov	Comments
08:44	GN39385-STD1	1		STDA
08:51	GN39385-STD2	1		STDB
08:59	GN39385-STD3	1		STDC
09:06	GN39385-STD4	1		STDD
09:14	GN39385-STD5	1		STDE
14:21	GN39385-CCV1	1		
14:29	GN39385-CCB1	1		
14:36	GP54307-MB1	1		
14:43	GP54307-MB1	1		
14:51	GP54307-B1	4		
14:58	GP54307-B1	4		
15:06	GP54307-B2	90		
15:13	GP54307-B2	90		
15:20	GP54307-S2	1		
15:28	GP54307-S3	1		
15:35	GP54307-S1	1		
15:43	GP54307-D1	1		
15:50	GP54307-D1	1		
15:57	JA48997-11A	1		
16:05	JA48997-11A	1		
16:12	GP54307-B2	1		
16:20	GP54307-B1	1		
16:27	GN39385-CCV2	1		
16:34	GN39385-CCB2	1		
10:14	GN39385-STD6	1		STDA
10:21	GN39385-STD7	1		STDB
10:29	GN39385-STD8	1		STDC
10:36	GN39385-STD9	1		STDD
10:43	GN39385-STD10	1		STDE
10:51	GN39385-CCV3	1		
10:58	GN39385-CCB3	1		
11:06	ZZZZZZ	1		
11:13	ZZZZZZ	4		

5.5
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Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JA48997

Account: HWINJM - Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

File ID: 610062903.TXT

Date Analyzed: 06/29/10

Methods: SW846 3060A/7199

Analyst: BD

Run ID: GN39385

Parameters: Chromium, Hexavalent

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:20	JA48997-12A	1		
11:28	JA48997-12A	1		
11:35	JA48997-13A	1		
11:43	JA48997-13A	1		
11:50	JA48997-16A	1		
11:57	JA48997-16A	1		
12:05	JA48997-17A	1		
12:12	JA48997-18A	1		
12:20	GP54307-S2	80		
12:27	GP54307-S2	80		
12:34	GP54307-S3	15		
12:42	GP54307-S3	15		
12:49	GP54307-S1	4		
12:57	GP54307-S1	4		
13:04	GN39385-CCV4	1		
13:11	GN39385-CCB4	1		
13:19	GP54307-PS1	4		
13:26	GP54307-PS1	4		
13:34	JA48997-17A	5		
13:41	JA48997-17A	5		
13:48	JA48997-18A	5		
13:56	JA48997-18A	5		
14:03	GN39385-CCV5	1		
14:11	GN39385-CCB5	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: JA48997
Account: HWINJM - Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

File ID: 610062903.TXT

Date Analyzed: 06/29/10
Run ID: GN39385

Methods: SW846 3060A/7199
Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN39385-CCV1	Chromium, Hexavalent	0.26	0.010	0.0057	.25	104.0	90-110
GN39385-CCB1	Chromium, Hexavalent	0.0057 U	0.010	0.0057			
GN39385-CCV2	Chromium, Hexavalent	0.26	0.010	0.0057	.25	104.0	90-110
GN39385-CCB2	Chromium, Hexavalent	0.0057 U	0.010	0.0057			
GN39385-CCV3	Chromium, Hexavalent	0.25	0.010	0.0057	.25	100.0	90-110
GN39385-CCB3	Chromium, Hexavalent	0.0057 U	0.010	0.0057			
GN39385-CCV4	Chromium, Hexavalent	0.26	0.010	0.0057	.25	104.0	90-110
GN39385-CCB4	Chromium, Hexavalent	0.0057 U	0.010	0.0057			
GN39385-CCV5	Chromium, Hexavalent	0.26	0.010	0.0057	.25	104.0	90-110
GN39385-CCB5	Chromium, Hexavalent	0.0057 U	0.010	0.0057			

(!) Outside of QC limits

5.5
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Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JA48997

Account: HWINJM - Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

File ID: 610071201.TXT

Date Analyzed: 07/12/10

Methods: SW846 3060A/7199

Analyst: BD

Run ID: GN39774

Parameters: Chromium, Hexavalent

Time	Sample Description	Dilution Factor	PS Recov	Comments
08:57	GN39774-STD1	1		STDA
09:04	GN39774-STD2	1		STDB
09:12	GN39774-STD3	1		STDC
09:19	GN39774-STD4	1		STDD
09:27	GN39774-STD5	1		STDE
09:34	GN39774-CCV1	1		
09:41	GN39774-CCB1	1		
09:49	GP54481-MB1	1		
09:56	GP54481-MB1	1		
10:04	GP54481-B1	4		
10:11	GP54481-B1	4		
10:18	GP54481-B2	80		
10:26	GP54481-B2	80		
10:33	GP54481-S2	1		
10:41	GP54481-S1	1		
10:48	GP54481-D1	1		
10:55	GP54481-D1	1		
11:03	JA48997-15AR	1		
11:10	JA48997-14AR	1		
11:18	JA48997-14AR	1		
11:25	GP54481-B2	1		
11:32	GP54481-B1	1		
11:40	GN39774-CCV2	1		
11:47	GN39774-CCB2	1		
11:55	JA48997-15AR	5		
12:02	JA48997-15AR	5		
12:10	JA48997-19AR	1		
12:17	JA48997-19AR	1		
12:24	GP54481-S2	60		
12:32	GP54481-S2	60		
12:39	GP54481-S1	1		
12:47	GP54481-D1	4		
12:54	GP54481-D1	4		

5.6
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Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JA48997

Account: HWINJM - Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

File ID: 610071201.TXT Date Analyzed: 07/12/10 Methods: SW846 3060A/7199
Analyst: BD Run ID: GN39774
Parameters: Chromium, Hexavalent

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:01	GP54481-PS1	15		
13:09	GP54481-PS1	15		
13:16	GN39774-CCV3	1		
13:24	GN39774-CCB3	1		

Refer to raw data for calibration curve and standards.

5.6
5

Instrument QC Summary
Inorganics Analyses

Login Number: JA48997
Account: HWINJM - Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

File ID: 610071201.TXT

Date Analyzed: 07/12/10
Run ID: GN39774

Methods: SW846 3060A/7199
Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN39774-CCV1	Chromium, Hexavalent	0.24	0.010	0.0057	.25	96.0	90-110
GN39774-CCB1	Chromium, Hexavalent	0.0057 U	0.010	0.0057			
GN39774-CCV2	Chromium, Hexavalent	0.24	0.010	0.0057	.25	96.0	90-110
GN39774-CCB2	Chromium, Hexavalent	0.0057 U	0.010	0.0057			
GN39774-CCV3	Chromium, Hexavalent	0.24	0.010	0.0057	.25	96.0	90-110
GN39774-CCB3	Chromium, Hexavalent	0.0057 U	0.010	0.0057			

(!) Outside of QC limits

5.6
5

Percent Solids Raw Data Summary

Job Number: JA48997
Account: HWINJM Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

Sample: JA48997-1 **Analyzed:** 24-JUN-10 by WR **Method:** SM18 2540G
ClientID: 079-SB-029-0506A

Wet Weight (Total)	31.68	g
Tare Weight	23.97	g
Dry Weight (Total)	27.94	g
Solids, Percent	51.5	%

Sample: JA48997-2 **Analyzed:** 24-JUN-10 by WR **Method:** SM18 2540G
ClientID: 079-SB-029-0809A

Wet Weight (Total)	33.83	g
Tare Weight	24.53	g
Dry Weight (Total)	32.15	g
Solids, Percent	81.9	%

Sample: JA48997-3 **Analyzed:** 24-JUN-10 by WR **Method:** SM18 2540G
ClientID: 079-SB-030-0001A

Wet Weight (Total)	30.28	g
Tare Weight	22.24	g
Dry Weight (Total)	29.42	g
Solids, Percent	89.3	%

Sample: JA48997-4 **Analyzed:** 24-JUN-10 by WR **Method:** SM18 2540G
ClientID: 079-SB-030-0405A

Wet Weight (Total)	31.13	g
Tare Weight	23.05	g
Dry Weight (Total)	30.25	g
Solids, Percent	89.1	%

Sample: JA48997-5 **Analyzed:** 24-JUN-10 by WR **Method:** SM18 2540G
ClientID: 079-SB-034-0203A

Wet Weight (Total)	31.87	g
Tare Weight	24.34	g
Dry Weight (Total)	30.83	g
Solids, Percent	86.2	%

Sample: JA48997-6 **Analyzed:** 24-JUN-10 by WR **Method:** SM18 2540G
ClientID: 079-SB-034-0405A

Wet Weight (Total)	25.81	g
Tare Weight	18.94	g
Dry Weight (Total)	23.01	g
Solids, Percent	59.2	%

5.7
5

Percent Solids Raw Data Summary

Job Number: JA48997
Account: HWINJM Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

Sample: JA48997-7 **Analyzed:** 24-JUN-10 by WR **Method:** SM18 2540G
ClientID: 079-SB-034-0506A

Wet Weight (Total)	35.61	g
Tare Weight	25.64	g
Dry Weight (Total)	34.02	g
Solids, Percent	84.1	%

Sample: JA48997-8 **Analyzed:** 24-JUN-10 by WR **Method:** SM18 2540G
ClientID: 079-SB-035-0405A

Wet Weight (Total)	27.72	g
Tare Weight	20.9	g
Dry Weight (Total)	25.86	g
Solids, Percent	72.7	%

Sample: JA48997-9 **Analyzed:** 24-JUN-10 by WR **Method:** SM18 2540G
ClientID: 079-SB-035-0506A

Wet Weight (Total)	29.37	g
Tare Weight	23.73	g
Dry Weight (Total)	27.39	g
Solids, Percent	64.9	%

Sample: JA48997-10 **Analyzed:** 24-JUN-10 by WR **Method:** SM18 2540G
ClientID: 079-SB-035-0607A

Wet Weight (Total)	31.13	g
Tare Weight	24.59	g
Dry Weight (Total)	27.09	g
Solids, Percent	38.2	%

Sample: JA48997-11 **Analyzed:** 21-JUN-10 by WR **Method:** SM18 2540G
ClientID: 079-SB-036-0001

Wet Weight (Total)	26.86	g
Tare Weight	20.43	g
Dry Weight (Total)	26.07	g
Solids, Percent	87.7	%

Sample: JA48997-12 **Analyzed:** 21-JUN-10 by WR **Method:** SM18 2540G
ClientID: 079-SB-036-0102

Wet Weight (Total)	23.85	g
Tare Weight	17.82	g
Dry Weight (Total)	22.19	g
Solids, Percent	72.5	%

5.7
5

Percent Solids Raw Data Summary

Job Number: JA48997
Account: HWINJM Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

Sample: JA48997-13 **Analyzed:** 21-JUN-10 by WR **Method:** SM18 2540G
ClientID: 079-SB-036-0203

Wet Weight (Total)	27.78	g
Tare Weight	18.99	g
Dry Weight (Total)	26.64	g
Solids, Percent	87	%

Sample: JA48997-14 **Analyzed:** 21-JUN-10 by WR **Method:** SM18 2540G
ClientID: 079-SB-036-0304

Wet Weight (Total)	25.65	g
Tare Weight	17.88	g
Dry Weight (Total)	24.58	g
Solids, Percent	86.2	%

Sample: JA48997-15 **Analyzed:** 21-JUN-10 by WR **Method:** SM18 2540G
ClientID: 079-SB-036-0405

Wet Weight (Total)	28.3	g
Tare Weight	19.58	g
Dry Weight (Total)	26.63	g
Solids, Percent	80.8	%

Sample: JA48997-16 **Analyzed:** 21-JUN-10 by WR **Method:** SM18 2540G
ClientID: 079-SB-036-0506

Wet Weight (Total)	29.51	g
Tare Weight	20.74	g
Dry Weight (Total)	27.94	g
Solids, Percent	82.1	%

Sample: JA48997-17 **Analyzed:** 21-JUN-10 by WR **Method:** SM18 2540G
ClientID: 079-SB-036-0607

Wet Weight (Total)	29.23	g
Tare Weight	19.24	g
Dry Weight (Total)	27.53	g
Solids, Percent	83	%

Sample: JA48997-18 **Analyzed:** 21-JUN-10 by WR **Method:** SM18 2540G
ClientID: 079-SB-036-0708

Wet Weight (Total)	36.46	g
Tare Weight	28.4	g
Dry Weight (Total)	34.93	g
Solids, Percent	81	%

5.7
5

Percent Solids Raw Data Summary

Job Number: JA48997
Account: HWINJM Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

Sample: JA48997-19 **Analyzed:** 21-JUN-10 by WR **Method:** SM18 2540G
ClientID: 079-SB-036-0809

Wet Weight (Total)	33.19	g
Tare Weight	26.46	g
Dry Weight (Total)	31.81	g
Solids, Percent	79.5	%

5.7
5



General Chemistry

Raw Data



AWD 06/15

Test: Redox Potential
 Matrix: Aqueous
 Matrix: Solid

Test Code: REDOX
 Method: ASTM D1498-76
 Method: ASTM D1498-76 Mod.

Analyst: JAREDO
 Date: 06/15/10
 GN Batch ID: GN38770
 Temp (Deg C): 25

Quality Control Summary

Sample ID: GN38770-D1	Results: 414.7	Dup: 384.1 ✓	% RPD: 7.66% ✓
Ferrous-Ferric True: 675		Found 671.7	% Rec 99.51%
pH 4 Quinhydrone True: 462		Found 472.7	% Rec 102.32%
pH 4 Quinhydrone True: 462		Found 469.9	% Rec 101.71%
pH 4 Quinhydrone True: 462		Found	% Rec
pH 7 Quinhydrone True: 285		Found 296.9	% Rec 104.18%
pH 7 Quinhydrone True: 285		Found 295.1	% Rec 103.54%
pH 7 Quinhydrone True: 285		Found	% Rec

Sample #:	mv vs. Ag/AgCl Electrode	Corrected results (mv vs. Hydrogen electrode) ***
Ferrous-Ferric Solution	472.6	671.7
pH 4 Quinhydrone	273.4	472.7
pH 7 Quinhydrone	97.7	296.9
Dup GN38770-D1	184.9	384.1
1. JA48587-1 ✓	161	360.2
2. JA48587-2 ✓	174.9	373.9
3. JA48832-1 ✓	215.5	414.7
4.		
5.		
6.		
7.		
8.		
9.		
pH 4 Quinhydrone	270.6	469.9
pH 7 Quinhydrone	95.9	295.1
10.		
11.		
12.		
13.		
14.		
15.		
16.		
17.		
18.		
19.		
pH 4 Quinhydrone		
pH 7 Quinhydrone		

*** Note: Results vs Ag/AgCl electrode are converted to corrected results automatically at the instrument by changing to the relative mv scale. This conversion is done by adding about 200 mV to the Ag/AgCl reading.

Reagent Numbers: PH4 FISHER 094895 EXP: 09/2011, PH 7 FISHER 093739 EXP 07/2011
 REDOX STANDARD GNE5-25066-ORP EXP 11/24/2010, QUINHYDRONE ACROS A0241920

Comments:

Analyst: *Jaredo* Date: *06/15/10* QC Reviewer: *[Signature]* Date: _____
 F/N GN141.DOC
 Rev. Date: 3/27/2007

ACCUTEST

Analyst JO
Method EH/PH
Prep Date 6/15/10
GP # NA

Balance # B-14

Sample Prep Log

Sample ID	Sample Size (g)	Final Volume
JA48832-1 DOP	50.1	50ml DEH ₂ O
JA48832-1	50.0	↓
JA48587-1	50.2	
JA48587-2	49.9	

Form: GN166-02
Rev. Date: 8/5/05

QC Review

6.1
6



Test: Redox Potential

Matrix: Aqueous
 Matrix: Solid

Test Code: REDOX

Method: ASTM D1498-76
 Method: ASTM D1498-76 Mod.

Analyst: shuzhenh

Date: 6/17/10

GN Batch ID: GN38770-B

Therm ID: 112

Temp (Deg C): 25

Quality Control Summary

Sample ID:	Results:	Dup:	% RPD:
Ferrous-Ferric True: 675		Found 675.1	% Rec 100.01%
pH 4 Quinhydrone True: 462		Found 480.2	% Rec 103.94%
pH 4 Quinhydrone True: 462		Found 466.9	% Rec 101.06%
pH 4 Quinhydrone True: 462		Found	% Rec
pH 7 Quinhydrone True: 285		Found 281.2	% Rec 98.67%
pH 7 Quinhydrone True: 285		Found 279.6	% Rec 98.11%
pH 7 Quinhydrone True: 285		Found	% Rec

Sample #:	mv vs. Ag/AgCl Electrode	Corrected results (mv vs. Hydrogen electrode) ***
Ferrous-Ferric Solution	478	675.1
pH 4 Quinhydrone	282.9	480.2
pH 7 Quinhydrone	84.5	281.2
Dup		
1. JA49004-1	9.7	207
2. JA49004-2	85.4	282.3
3. JA49004-3	99.7	296.5
4. JA49004-4	97.7	295.9
5. JA49004-6	102.8	299.8
6. JA49004-7	112	309.1
7.		
8.		
9.		
pH 4 Quinhydrone	269.8	466.9
pH 7 Quinhydrone	82.5	279.6
10.		
11.		
12.		
13.		
14.		
15.		
16.		
17.		
18.		
19.		
20.		
pH 4 Quinhydrone		
pH 7 Quinhydrone		

*** Note: Results vs Ag/AgCl electrode are converted to corrected results automatically at the instrument by changing to the relative mv scale. This conversion is done by adding about 200 mV to the Ag/AgCl reading.

Reagent Numbers: PH4 FISHER 094895 EXP: 09/2011, PH 7 FISHER 093739 EXP 07/2011

REDOX STANDARD GNE5-25066-ORP EXP 11/24/2010, QUINHYDRONE ACROS A0241920

Comments:

Analyst: shuzhenh
 F/N GN141-02

Date: 6/17/10

QC Reviewer: [Signature]

Date: _____

6.1
 6

ACCUTEST.

Analyst SH

Method ZH / PH

Prep Date E/17/10

Balance # B-32

GR# GN 38770 - B
38772 - B

Sample Prep Log

Sample ID	Sample Size (in gms)	Final Volume
49004 -1	50.18	Add some DI H ₂ O
-2	48.59	↑
-3	49.83	
-4	44.80	Add some more
-6	47.57	
-7	51.59	↓

6.1
6

Form: GN166-02
Rev. Date: 8/5/05

QC Review

GN38772

ACCUTEST.

Analyst JOMethod EH/PHPrep Date 6/15/10GP # NABalance # B-14

Sample Prep Log

Sample ID	Sample Size (g)	Final Volume
JA48832-1 DOP	50.1	50ml DE H ₂ O
JA48832-1	50.0	↓
JA48587-1	50.2	
JA48587-2	49.9	

Form: GN166-02

Rev. Date: 8/5/05

QC Review _____

GN 38772



Reagent Information Log

Test Name: _____ pH _____

<u>Reagent</u>	<u>Reagent # or Manufacturer/Lot</u>
pH 2 Buffer Solution	FISHER LOT# 090982 EXP. 03/2011
pH 4 Buffer Solution	FISHER LOT# 094895 EXP. 09/2011
pH 7 Buffer Solution	FISHER LOT# 093739 EXP. 07/2011
pH 10 Buffer Solution	FISHER LOT# 093565 EXP. 07/2011
pH 13 Buffer Solution	Aqua Sol'n Lot#0030296 EXP 3/30/11

All standards and stocks were made as described in the SOP for this method (circle one): Y or N
If no (N), see attached page for standards prep.

Form: GN087-01
Rev. Date:6/15/2010



Analyst JH

Method ZH, PH

Prep Date 6/16/10

Balance # B-32

GR# GN 38770 - A (ZH)

38772 - A (PH)

Sample Prep Log

Sample ID	Sample Size (in gms)	Final Volume
JA 48997 -11	50.55	Add some DI H ₂ O
-12	50.12	
-13	49.01	
-14	49.28	
-15	49.43	
-16	49.10	
-17	49.87	
-18	50.56	
✓ -19	50.30	↓

Form: GN166-02
 Rev. Date: 8/5/05

QC Review _____

6.2
 6



Reagent Information Log - pH & Corrosivity

6.2
6

<u>Reagent</u>	<u>Reagent # or Manufacturer/Lot</u>
pH 4 Buffer Solution	Exp. 06/2001 Fisher # 100 486
pH 7 Buffer Solution	07/2011 # 093739
pH 10 Buffer Solution	07/2011 # 093565
pH 2 Buffer Solution	
pH 13 Buffer Solution	03/30/2011 Aqua solutions # 0030296

Form: GN-087 1-54
Rev. Date: 11/21/02



Test: pH, Corrosivity
Method: SW846 9040B or SW846 9045C

Product: PH, CORR
Analyst: shuzhenh
GN Batch ID: GN38772-B
Analysis Date: 6/17/2010
pH Meter ID: pH-22

Thermometer ID: 112
Correction Factor: 1

QC Summary
Duplicate ID: _____ Sample ID: _____
Dup Result: _____ % RPD: _____

Sample ID	Wt./Vol. used for solids	Uncorrected/Corrected Temp in Deg C.	Result	Corrosivity	Read time
Buffer Check: 4		25	4.01		
Buffer Check: 7		25	6.96		
Buffer Check: 10		25	9.99		
JA49004-1		25	8.59		
JA49004-2		25	7.79		
JA49004-3	See	25	8.02		
JA49004-4	Attached	25	7.80		
JA49004-6		25	8.07		
JA49004-7		25	7.69		
		25			
		25			
		25			
		25			
ph-4		25	4.00		
ph-10		25	10.01		
Buffer Check:					
Buffer Check:					
Buffer Check:					
Buffer Check:					

[Handwritten signature: J. G. W.]

QC Reviewer: _____ Date: _____

Comments: _____

ACCUTEST.

Analyst SH

Method ZH / PH

Prep Date E/17/10

QR# GN 38770 - B
38772 - B

Balance # B-32

Sample Prep Log

Sample ID	Sample Size (in gms)	Final Volume
DA 49004 -1	50.18	Add some DI H ₂ O
-2	48.59	↑
-3	49.83	
-4	44.80	Add some more
-6	47.57	
-7	51.59	↓

Form: GN166-02
Rev. Date: 8/5/05

QC Review _____



ACCUTEST

Reagent Information Log - pH & Corrosivity

6.2
6

Reagent	Exp.	Reagent # or Manufacturer/Lot
pH 4 Buffer Solution	06/2001	Fisher # 100 486
pH 7 Buffer Solution	07/2011	# 093739
pH 10 Buffer Solution	07/2011	# 093565
pH 2 Buffer Solution		
pH 13 Buffer Solution	03/30/2011	Aqua solutions # 0030296

Form: GN-087 1-54
Rev. Date: 11/21/02



Test: Sulfide by Titration
Product: S
Method: (SO) EPA 376.1 Mod/ SW846 9034 Mod.

Analyst: tripathi
GN Batch ID: gn38943
GP Batch ID: gp54198
Date: 6/18/2010

SREAC = ((V1)(N1) - (V2)(N2)) x 16000 x final Vol.
Vol. titrated x initial wt or vol

Note: %solids corrections added in LIMS.

iodine reagent number: see attached page
iodine Normality = Normality x vol of sodium thiosulfate
volume of iodine

Sodium thiosulfate manufacturer and lot: see attached page
Normality = 0.0247

QC Summary:
Method Blank ID: gp54198-mb1
Spike Blank ID: gp54198-b1
Matrix Spike ID: gp54198-s1
Duplicate ID: gp54198-d1

Table with columns: Bottle #, Sample ID, Initial pH, Pre-Treat? Y or N, Initial Wt (g), Final Vol. (ml), Sample Vol Titrated in ml (a), Volume of Iodine in ml, Sodium Thiosulfate volume (start) ml, Sodium Thiosulfate volume (end) ml, Sodium Thiosulfate total vol in ml, Result, Final Result, Detection Limit (mg/kg), Units.

Analyst: S. R. Tripathi Date: 6/18/10 QC Reviewer:
Date: [Signature]



Analyst S. R. Timpalun

Method Sulfide

Prep Date 6/17/10

GP # 6154198

Balance # B-14

Sample Prep Log

Sample ID	Sample Size	Final Volume	
(UB)		250ml	
Pi		1 ml of stock	
DVPJA48997-4	25.83 gm	↓	
MS	25.53 gm		
JA48997-4	25.22 gm		
JA48997-1	25.20 gm		
-2	25.03 gm		
-3	25.30 gm		
-5	25.56 gm		
-6	25.48 gm		
-7	25.59 gm		
-8	25.48 gm		
-9	25.14 gm	↓	
-10	25.40 gm		

Form: GN166-02
Rev. Date: 8/5/05

QC Review _____

6.3
6



Reagent Information Log - Sulfide

6.3
6

Reagent	Reagent # or Manufacturer/Lot
Hydrochloric Acid, 6N	GNE5-24859-SREAC 5/1/2012
Standard Iodine Solution 0.0250N	GNE6-25165-Sulfide 12/6/10
Sodium Thiosulfate Solution, 0.025N	VWR lot# 0020209 8/30/10
Starch Indicator Solution	Ricca lot# 1001407 JAN 2012
Zinc Acetate Solution	GNE6-25243-Sulfide 12/10/10
Sodium Hydroxide, 6N	GNE1-24016-Sulfide 7/14/10
Sulfide Stock Solution, 1000 ug/ml	GNE6-25264-Sulfide 6/21/10

All standards and stocks were made as described in the SOP for this method (circle one): Y or N
 If no (N), see attached page for standards prep.

Form: GN-087 1-61
 Rev. Date: 2/17/99

6239364

Sequence: 610062902
Operator: Chemistry

Title: NJCHMIC2_local
Location: Accutest2010\June
Timebase: accutest
#Samples: 35

Created: 6/29/2010 9:42:29 AM by Chemistry
Last Update: 6/29/2010 11:43:58 AM by Chemistry

No. Name	Type	Pos. Program	Method	Status	Inj. Date/Time	Weight	Dil. Factor
1 BLANKCONF	Unknown	1 hexachrome	hexachrome	Finished	6/29/2010 8:37:01 AM	1.0000	1.0000
2 STDA	Standard	2 hexachrome	hexachrome	Finished	6/29/2010 8:44:26 AM	1.0000	1.0000
3 STDB	Standard	3 hexachrome	hexachrome	Finished	6/29/2010 8:51:50 AM	1.0000	1.0000
4 STDC	Standard	4 hexachrome	hexachrome	Finished	6/29/2010 8:59:14 AM	1.0000	1.0000
5 STDD	Standard	5 hexachrome	hexachrome	Finished	6/29/2010 9:06:38 AM	1.0000	1.0000
6 STDE	Standard	6 hexachrome	hexachrome	Finished	6/29/2010 9:14:03 AM	1.0000	1.0000
7 CCV	Unknown	7 hexachrome	hexachrome	Finished	6/29/2010 10:22:11 AM	1.0000	1.0000
8 CCB	Unknown	8 hexachrome	hexachrome	Finished	6/29/2010 10:29:36 AM	1.0000	1.0000
9 GP54306-MB1	Unknown	9 hexachrome	hexachrome	Finished	6/29/2010 10:37:00 AM	1.0000	1.0000
10 GP54306-MB1	Unknown	10 hexachrome	hexachrome	Finished	6/29/2010 10:44:24 AM	1.0000	1.0000
11 GP54306-B1	Unknown	11 hexachrome	hexachrome	Finished	6/29/2010 10:51:49 AM	1.0000	4.0000
12 GP54306-B1	Unknown	12 hexachrome	hexachrome	Finished	6/29/2010 10:59:13 AM	1.0000	4.0000
13 GP54306-B2	Unknown	13 hexachrome	hexachrome	Finished	6/29/2010 11:06:37 AM	1.0000	90.0000
14 GP54306-B2	Unknown	14 hexachrome	hexachrome	Finished	6/29/2010 11:14:01 AM	1.0000	90.0000
15 GP54306-S2	Unknown	15 hexachrome	hexachrome	Finished	6/29/2010 11:21:25 AM	1.0000	1.0000
16 GP54306-S1	Unknown	16 hexachrome	hexachrome	Finished	6/29/2010 11:28:50 AM	1.0000	1.0000
17 GP54306-D1	Unknown	17 hexachrome	hexachrome	Finished	6/29/2010 11:44:01 AM	1.0000	1.0000
18 GP54306-D1	Unknown	18 hexachrome	hexachrome	Finished	6/29/2010 11:51:26 AM	1.0000	1.0000
19 JA48997-15A	Unknown	19 hexachrome	hexachrome	Finished	6/29/2010 11:58:50 AM	1.0000	1.0000
20 JA48997-15A	Unknown	20 hexachrome	hexachrome	Finished	6/29/2010 12:06:14 PM	1.0000	1.0000
21 JA48997-14A	Unknown	21 hexachrome	hexachrome	Finished	6/29/2010 12:13:38 PM	1.0000	1.0000
22 JA48997-14A	Unknown	22 hexachrome	hexachrome	Finished	6/29/2010 12:21:02 PM	1.0000	1.0000
23 GP54306-B2	Unknown	23 hexachrome	hexachrome	Finished	6/29/2010 12:28:27 PM	1.0000	1.0000
24 GP54306-B1	Unknown	24 hexachrome	hexachrome	Finished	6/29/2010 12:35:51 PM	1.0000	1.0000
25 CCV	Unknown	25 hexachrome	hexachrome	Finished	6/29/2010 12:43:15 PM	1.0000	1.0000
26 CCB	Unknown	26 hexachrome	hexachrome	Finished	6/29/2010 12:50:39 PM	1.0000	1.0000
27 JA48997-19A	Unknown	27 hexachrome	hexachrome	Finished	6/29/2010 12:58:04 PM	1.0000	1.0000

Title: NJCHMIC2_local
 Location: Accutest\2010\June
 Database: accutest
 #Samples: 35
 Created: 6/29/2010 9:42:29 AM by Chemistry
 Last Update: 6/29/2010 11:43:58 AM by Chemistry

No.	No. Name	Type	Pos.	Program	Method	Status	Inj. Date/Time	Weight	Dil. Factor
28	JA48997-19A	Unknown	28	hexachrome	hexachrome	Finished	6/29/2010 1:05:28 PM	1.0000	1.0000
29	GP54306-S2	Unknown	29	hexachrome	hexachrome	Finished	6/29/2010 1:12:52 PM	1.0000	35.0000
30	GP54306-S2	Unknown	30	hexachrome	hexachrome	Finished	6/29/2010 1:20:16 PM	1.0000	35.0000
31	GP54306-S1	Unknown	31	hexachrome	hexachrome	Finished	6/29/2010 1:27:41 PM	1.0000	1.0000
32	GP54306-PS1	Unknown	33	hexachrome	hexachrome	Finished	6/29/2010 1:35:04 PM	1.0000	4.0000
33	GP54306-PS1	Unknown	34	hexachrome	hexachrome	Finished	6/29/2010 1:42:29 PM	1.0000	4.0000
34	CCV	Unknown	35	hexachrome	hexachrome	Finished	6/29/2010 1:49:53 PM	1.0000	1.0000
35	CCB	Unknown	36	hexachrome	hexachrome	Finished	6/29/2010 1:57:17 PM	1.0000	1.0000

GN39364

ACCUTEST LABS
DAYTON, NJ

3060A/7199 POST-DIGEST SPIKE LEVEL CALCULATION SPREADSHEET

NOTE: Always dilute post-spike first, then take a 20 ml aliquot of the diluted post-spike and add the spike amount.

Sample ID	PS Aliquot Weight in g Digested in 100 ml	Weight in 20 ml	Results in mg/kg.	Amount in ml to add of 100 ppm solution	Dilution needed	Suggested Dilution to use	Actual Dilution to be used	Suggested ml of 100 ppm to spike on dilution of sample.	Actual ml of 100 ppm to spike on dilution of sample.	Est. Read-back on curve in mg/l	Calculated Spike Amount in mg/kg	Use calculated or default spike?
		#VALUE!		#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
		#VALUE!		#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
		#VALUE!		#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
		#VALUE!		#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
		#VALUE!		#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
		#VALUE!		#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
		#VALUE!		#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
		#VALUE!		#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
		#VALUE!		#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
		#VALUE!		#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
		#VALUE!		#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
		#VALUE!		#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
		#VALUE!		#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
		#VALUE!		#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
		#VALUE!		#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
		#VALUE!		#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
		#VALUE!		#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
		#VALUE!		#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike

0.50 ml 10 ppm abs in 5 ml sample fv = 20 ml

3060A/7196A INSOLUBLE SPIKE
CALCULATION

Weight of PbCrO4	Weight of Sample	Amount Spiked	To enter for 7199 In mg/l
0.0169	2.5	1087.624	27.19059
0.0137	2.5	881.683	22.04208
		#DIV/0!	#DIV/0!
		#DIV/0!	#DIV/0!
		#VALUE!	#VALUE!
		#VALUE!	#VALUE!
		#VALUE!	#VALUE!
		#VALUE!	#VALUE!
		#VALUE!	#VALUE!
		#VALUE!	#VALUE!

S2
B2



ACCUTEST

Hexavalent Chromium pH Adjustment Log

Method: SW846 3060A/7199

Digestion Date: 6-25-10
 pH adj. Date: 6/29/2010
 GN Batch ID: GN39364

pH adj. start time: 10:10
 pH adj. end time: 10:49

Sample ID	Sample Weight in g	pH after HNO3	Final Volume (ml)	Spike Amounts	Comments
654306		9.34	100	5 ml	5 ppb Ultra
CCV				↓	
CCV					
CCV					
CCB		9.44	100		
CCB					
CCB					
CCB					
MS (Sol) JA48997-15A	2.47	9.31	100	1 ml	100ppm Absolute
MS (Insol.) ↓	2.50	9.39		0.0169	PbCrO4
DUP ↓	2.47	9.45			
SB (Sol)		9.30		1 ml	100ppm Absolute
SB (Insol)		9.39		0.0137	PbCrO4
MB		9.44			
1 JA48997-15A	2.54	9.30			
2 ↓ 14A	2.46	9.48			
3 ↓ 19A	2.56	9.38			
4 (S1) (15A)	2.54	9.30			
5				0.50ml of 100ppm Absolute	in 5ml Sample + 20ml
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
SB (Insol)					dilution
MS (Insol.)					dilution

Reagent Reference Information - refer to attached reagent reference information page(s).
 $\{1000000 \text{ ug/g} \times \text{Insoluble spike wt(g)} \times 52/323.2\} / \text{ms sample wt(g)} = \text{Insoluble spike amount of PbCrO}_4$

Form: GN-067A

6.4
6

GN39364



Hexavalent Chromium Digestion Temperature Log

Method: SW846 3060A

Record the temperature at the beginning, during, and at the end of each digestion.

Digestion Batch ID	Description	Time	Temp. in deg. C Hot Plate #1	Temp. in deg. C Hot Plate #2	Temp. in deg. C Hot Plate #1	Temp. in deg. C Hot Plate #1
GN39306	Starting Time	11-45	95	95		
	Time 1	12-15	95			
	Ending Time	12-45	95			
	Starting Time					
	Time 1					
	Ending Time					
	Starting Time					
	Time 1					
	Ending Time					

6-25-10

Fu

Date:

Analyst:

Form: GN-074 Rev. Date: 5/8/06

GN 39241

Sample Homogenization Log

Accutest Sample ID	from bottle #	Homogenization Date	Initials	Sample Description (Soil, Sludge, etc.)	Homog. Device (blender, wand)	Comments
JT4899M-15A	1	6-25-10	PW	brown soft sandy	spatula	
↓	↓			reddish brown w/ stones		
↓	↓			brown wet sandy		
JT4899M-11A	1			red brown dry w/ stones		
↓	↓		PW	dry brown w/ root w/ stones	6/25/10	red brown dry w/ stones
↓	↓			red brown w/ stones		
↓	↓			gray brown sandy		
↓	↓					
↓	↓					
JT4899M-1A	1			dry brown w/ root w/ stones		low volume
↓	↓			dry dark gray w/ stones		↓
↓	↓					

Form: GN195-01
Rev. Date: 5/5/06



GN39364

GN/GP Batch ID: GP 54306, 54307, 5430A

Reagent Information Log - XCRA7199 (soil 3060A/7199)

<u>Reagent</u>	<u>Exp. Date</u>	<u>Reagent # or Manufacturer/Lot</u>
Calibration Source: Hexavalent Chromium, 1000 mg/L Stock	1/1/2013	Absolute Grade Lot # 012010
Calibration Checks: Hexavalent Chromium, 1000 mg/L Stock	7/31/2015	Ultra lot # J00509
Spiking Solution Source	1/1/2013	Absolute Grade Lot # 012010
Lead Chromate (Insoluble Hexavalent Chromium Spike)	NA	Sigma Aldrich Lot # 09921LC
Digestion Solution	7-18-10	6NE 6-25331 XCR
Magnesium Chloride, Anhydrous	NA	Alfa Aesar Lot # I02T070
Phosphate Buffer Solution	12-8-10	6NE 6-25212 XCR
5.0 M Nitric Acid	12/23/2010	6NE 6-25264-XCR
Post-Column Reagent (Diphenylcarbazide Solution)	7/3/2010	6NE 6-25398-1XCR
Eluent	12/10/2010	6NE 6-25291-1XCR
Buffer Solution	12/22/2010	6NE 6-25355-1XCR
XCRA7199 Dilution Water	12/3/2010	6NE 6-25297-1XCR
Filter	NA	FOCA P4 P66
Teflon Chips	NA	09/19/20
Digestate Dilution Soln.	7/11/2010	6NE 6-25294-1XCR

Form: GN087A-21
Rev. Date: 2/18/10



Hexavalent Chromium pH Adjustment Log

Method: SW846 3060A/7199

pH adj. start time: 8:27
 pH adj. end time: 8:30

pH adjustment Date: 6/29/2010
 GN Batch ID: 6239364

Sample ID	Sample Weight in g	pH after HNO3	Final Volume (ml)	Comments	Spike Info.
Calibration Blank	NA	9.29	18.0		
0.005 mg/l standard	NA	9.43	↓	1.00ml Absolute	0.50 ml of 1.00 mg/l
0.050 mg/l standard	NA	9.28	↓	↓	5.00 ml of 1.00 mg/l
0.100 mg/l standard	NA	9.35	↓	10.00ml Absolute	1.00 ml of 10.0 mg/l
0.500 mg/l standard	NA	9.33	↓	↓	5.0 ml of 10.0 mg/l

Reagent Reference Information - refer to attached reagent reference information page(s).
 $(1000000 \text{ ug/g} \times \text{Insoluble spike wt(g)} \times 52/323.2) / \text{ms sample wt(g)} = \text{Insoluble spike amount of PbCrO}_4$

Form: GN-068A
 Rev. Date: 05/08/06



GENERAL CHEMISTRY STANDARD PREPARATION LOG

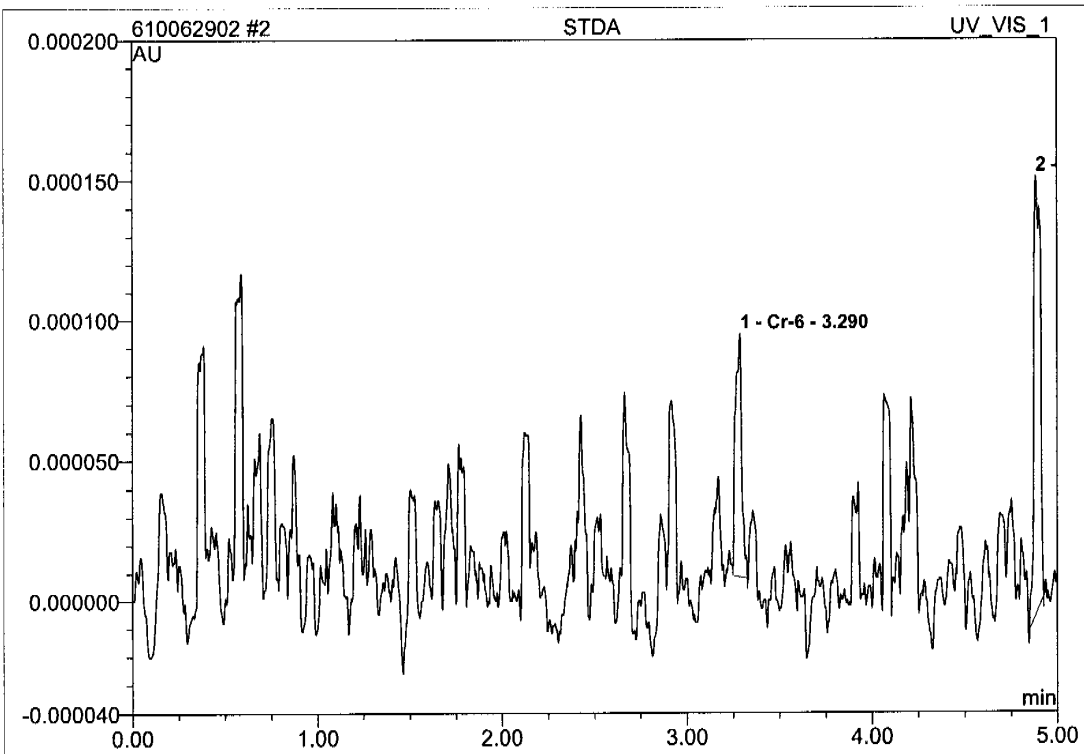
Product: XORA 199 (sal)
GN or GP Number: 0230304

Intermediate Standard Description	Stock used to prepare standard	Stock concentration	Stock volume or weight used with units	Balance or Autopipet ID (*)	Diluent	Final Volume	Final Conc. of Intermediate (mg/l)	Expiration Date	Analyst	Date
10.0 mg/L Absolute	Absolute 012010	1000 mg/L	1.0 mL	A	Dilution	100 mL	10.0 mg/L	1/20/2013		
1.0 mg/L Absolute	10.0 mg/L Absolute	10.0 mg/L	10.0 mL	A	Water	100 mL	1.0 mg/L	1/20/2013		
5.0 mg/L Ultra	Ultra J00509	1000 mg/L	1.0 mL	A	DI H2O	200 mL	5.0 mg/L	7/31/2015		
Standard Description	Intermediate or Stock used to prepare standard	Intermediate or Stock concentration	Intermediate or Stock volume used in ml	Balance or Autopipet ID (*)	Diluent	Final Volume	Final Conc. of Standard (mg/l) <td>Expiration Date</td> <td>Analyst</td> <td>Date</td>	Expiration Date	Analyst	Date
0.005 mg/L	1.0 mg/L Absolute	1.0 mg/L	0.50 mL	A	Digestion	100 mL	0.005			
0.050 mg/L	1.0 mg/L Absolute	1.0 mg/L	5.0 mL	A	solution	100 mL	0.05			
0.100 mg/L	10 mg/L Absolute	10.0 mg/L	1.0 mL	A	and DI	100 mL	0.1			
0.500 mg/L	10 mg/L Absolute	10.0 mg/L	5.0 mL	A	Water	100 mL	0.5			

* If Class A glass pipets are used, enter an A. For balances or autopipets, then enter the appropriate Accutest ID number.

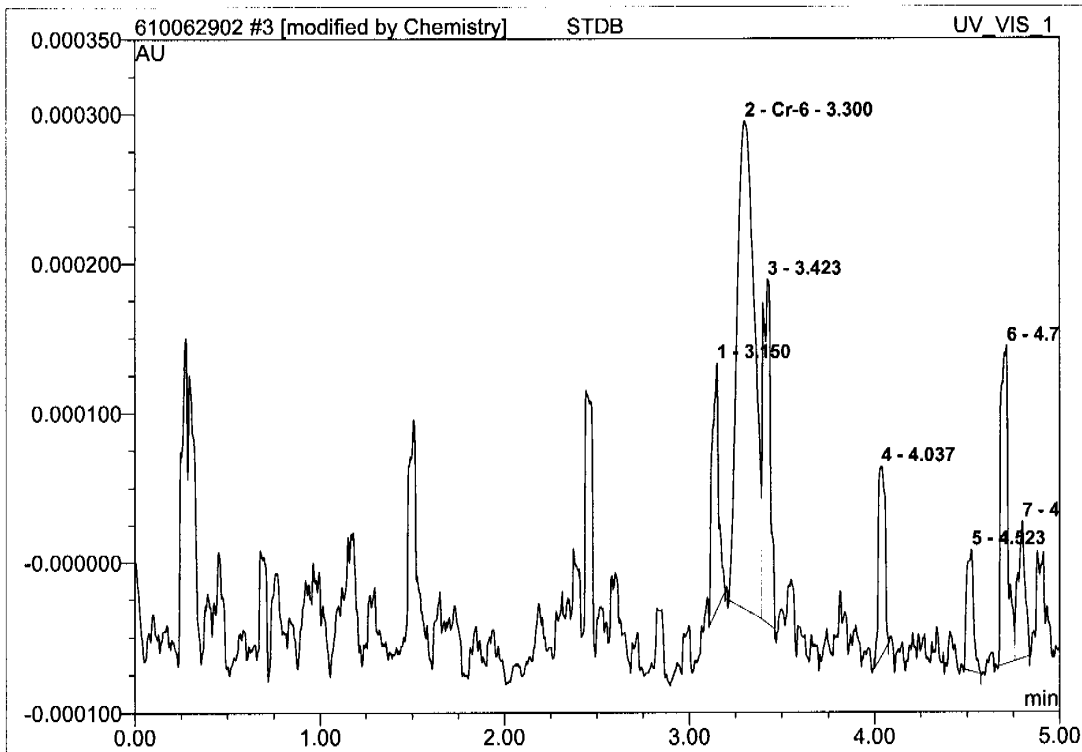
Form: GN121-01
Rev. Date: 1/13/09

2 STDA			
Sample Name:	STDA	Injection Volume:	25.0
Vial Number:	2	Channel:	UV_VIS_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 8:44	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.29	Cr-6	0.000	0.000	34.65	0.0012	BMB
2	4.89	n.a.	0.000	0.000	65.35	n.a.	BMB
Total:			0.000	0.000	100.00	0.001	

3 STDB			
Sample Name:	STDB	Injection Volume:	25.0
Vial Number:	3	Channel:	UV_VIS_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 8:51	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

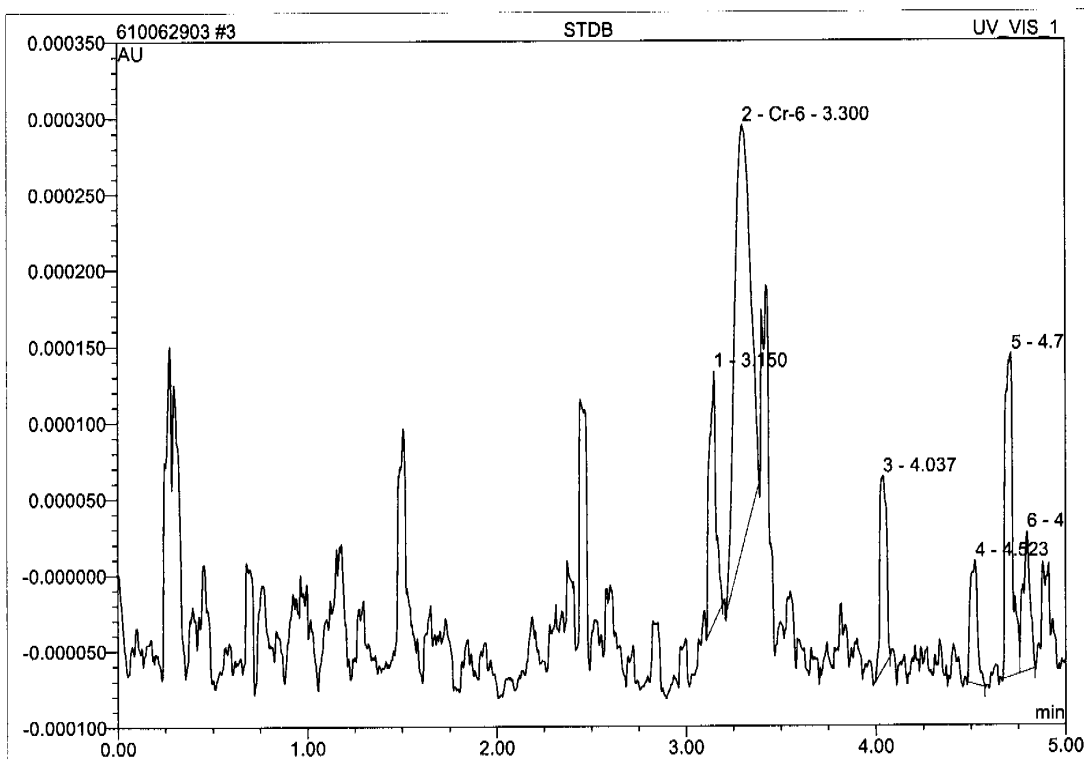


No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.15	n.a.	0.000	0.000	9.10	n.a.	BMB
2	3.30	Cr-6	0.000	0.000	46.82	0.0049	BM *
3	3.42	n.a.	0.000	0.000	14.12	n.a.	MB*
4	4.04	n.a.	0.000	0.000	6.95	n.a.	BMB
5	4.52	n.a.	0.000	0.000	4.68	n.a.	BMB
6	4.71	n.a.	0.000	0.000	13.00	n.a.	BM
7	4.80	n.a.	0.000	0.000	5.33	n.a.	MB
Total:			0.001	0.000	100.00	0.005	

hexachrome/Integration

Chromleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

3 STDB			
Sample Name:	STDB	Injection Volume:	25.0
Vial Number:	3	Channel:	UV_VIS_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 8:51	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



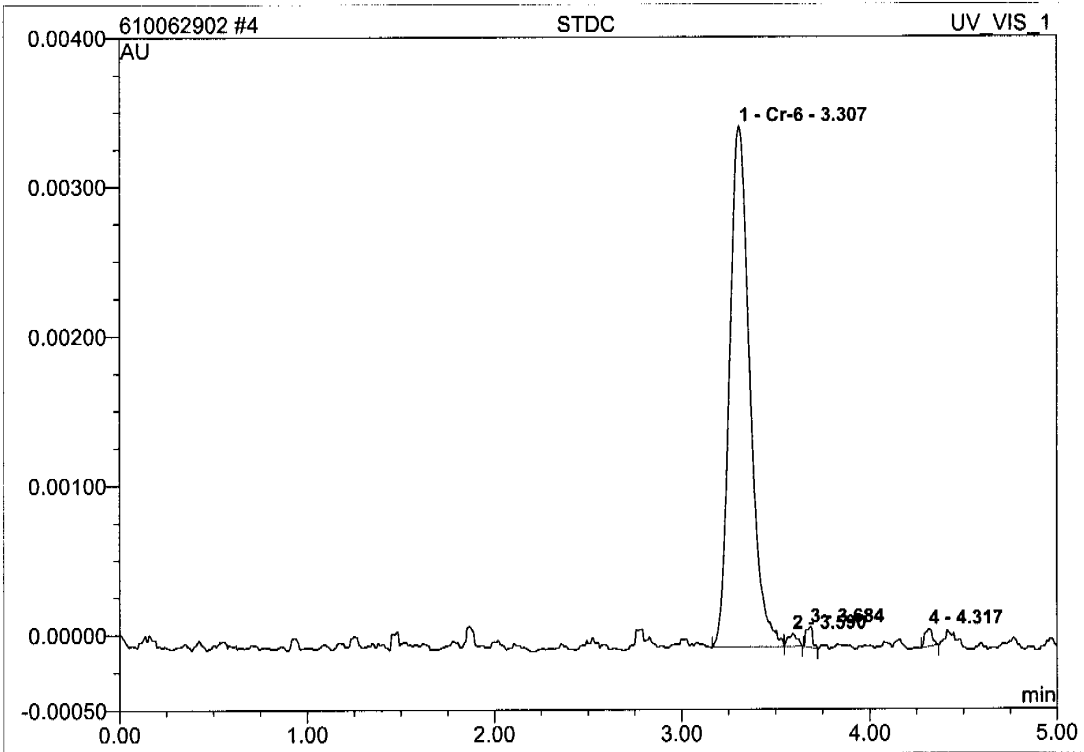
No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.15	n.a.	0.000	0.000	12.26	n.a.	BMB
2	3.30	Cr-6	0.000	0.000	47.39	0.0041	BMB
3	4.04	n.a.	0.000	0.000	9.36	n.a.	BMB
4	4.52	n.a.	0.000	0.000	6.30	n.a.	BMB
5	4.71	n.a.	0.000	0.000	17.51	n.a.	BM
6	4.80	n.a.	0.000	0.000	7.17	n.a.	MB
Total:			0.001	0.000	100.00	0.004	

OP BS 6/29/2010

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

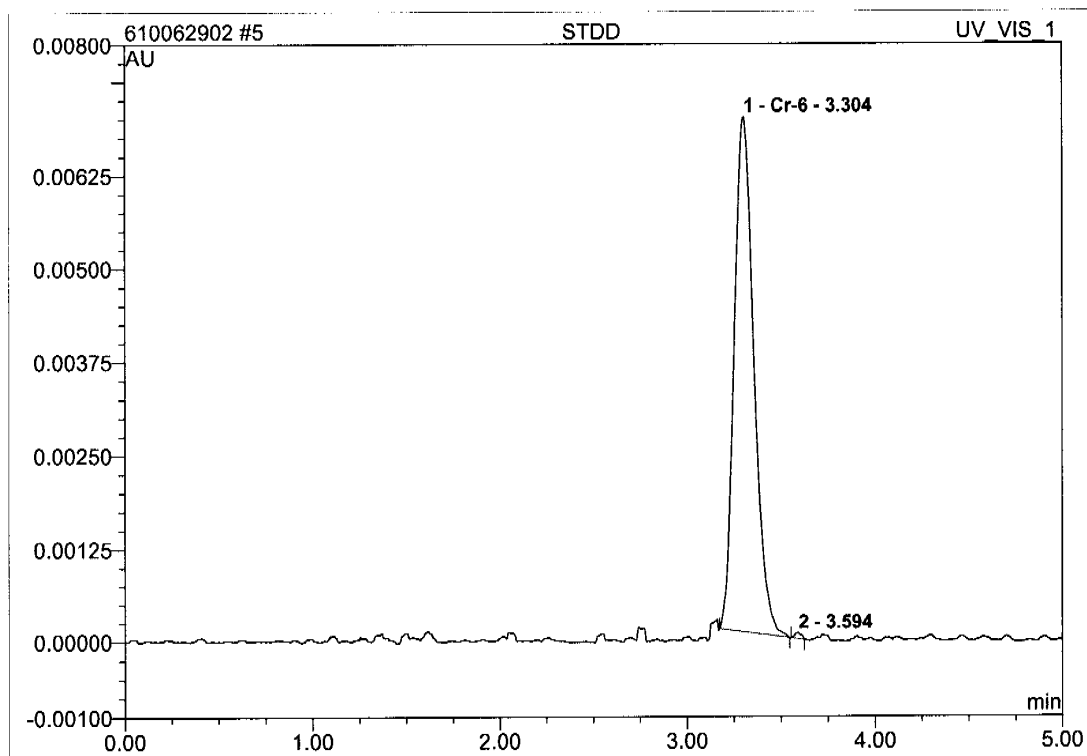
4 STDC			
Sample Name:	STDC	Injection Volume:	25.0
Vial Number:	4	Channel:	UV_VIS_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 8:59	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.31	Cr-6	0.003	0.000	96.40	0.0510	BM
2	3.59	n.a.	0.000	0.000	1.10	n.a.	MB
3	3.68	n.a.	0.000	0.000	1.27	n.a.	BMB
4	4.32	n.a.	0.000	0.000	1.23	n.a.	BMB
Total:			0.004	0.000	100.00	0.051	

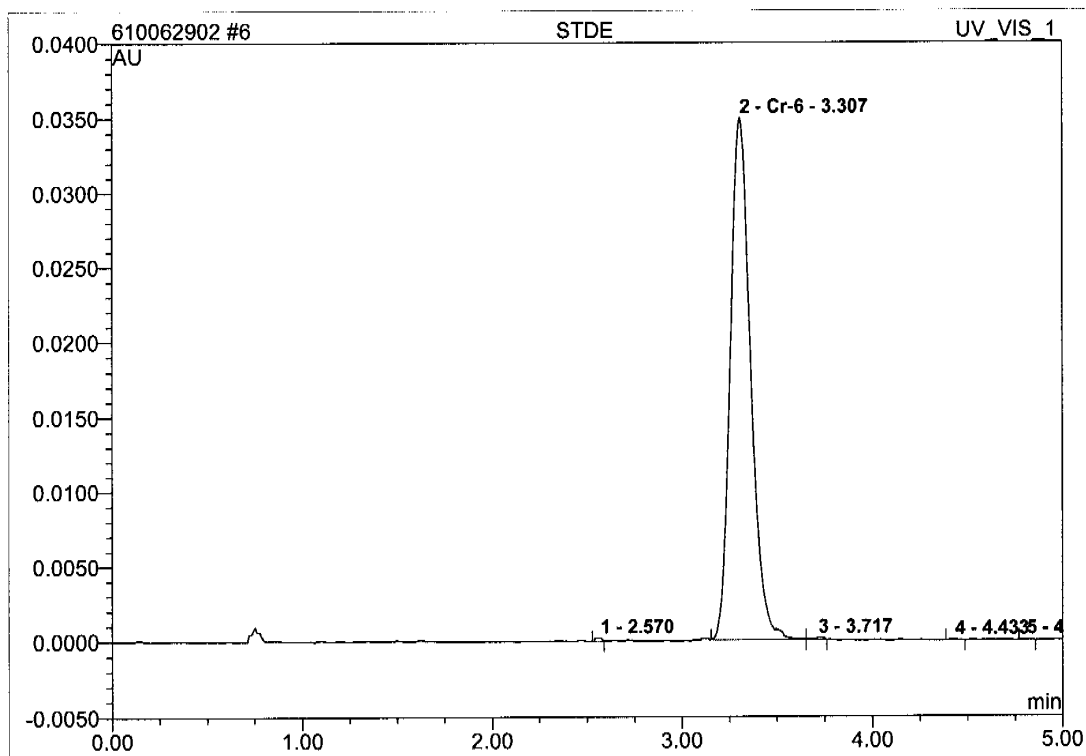
5 STDD

Sample Name:	STDD	Injection Volume:	25.0
Vial Number:	5	Channel:	UV_VIS_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 9:06	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.30	Cr-6	0.007	0.001	99.61	0.0976	BMB
2	3.59	n.a.	0.000	0.000	0.39	n.a.	BMB
Total:			0.007	0.001	100.00	0.098	

6 STDE			
Sample Name:	STDE	Injection Volume:	25.0
Vial Number:	6	Channel:	UV_VIS_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 9:14	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

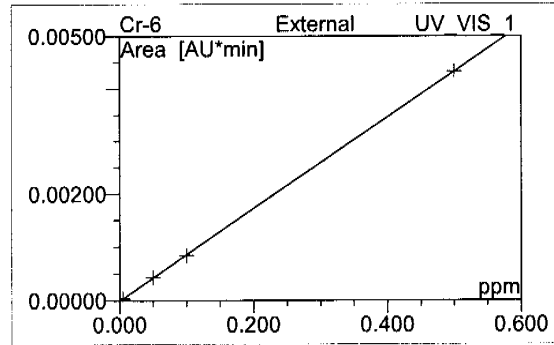
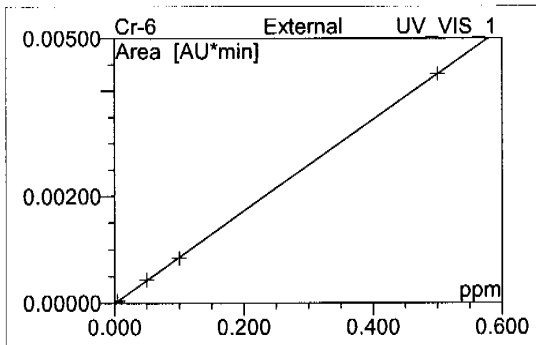
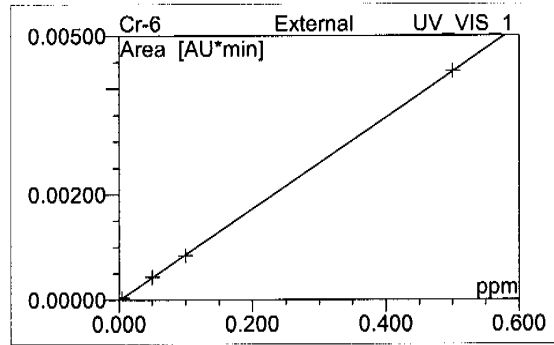
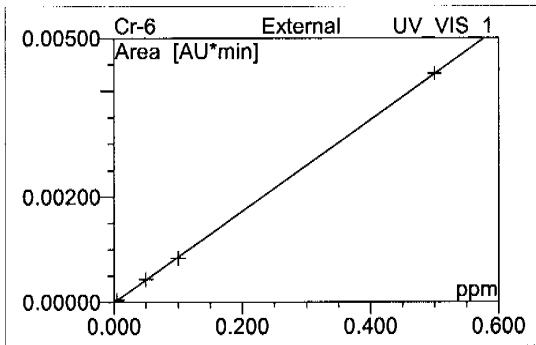


No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.57	n.a.	0.000	0.000	0.20	n.a.	BMB
2	3.31	Cr-6	0.035	0.004	99.43	0.5004	BM
3	3.72	n.a.	0.000	0.000	0.22	n.a.	MB
4	4.43	n.a.	0.000	0.000	0.07	n.a.	BMB
5	4.81	n.a.	0.000	0.000	0.07	n.a.	BMB
Total:			0.035	0.004	100.00	0.500	

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

6 STDE			
Sample Name:	STDE	Injection Volume:	25.0
Vial Number:	6	Channel:	UV_VIS_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 9:14	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

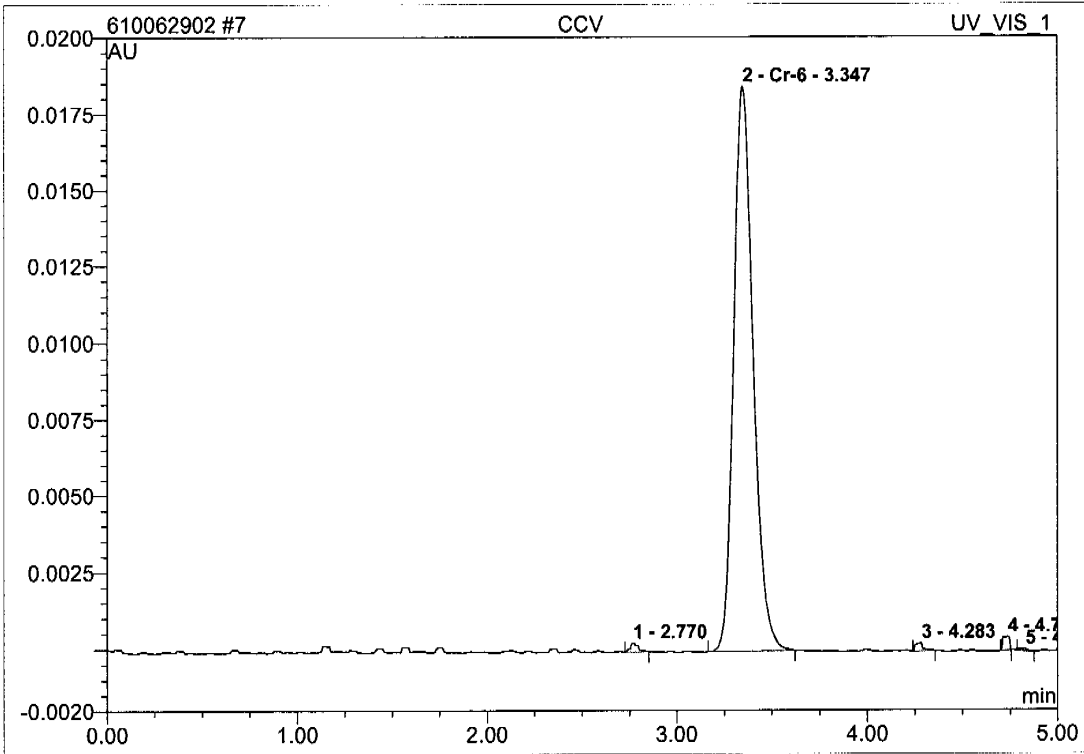


No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	2.57	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	3.31	Cr-6	LOff	5	99.9954	0.0000	0.0087	0.0000
3	3.72	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	4.43	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	4.81	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Average:					99.9954	0.0000	0.0087	0.0000

hexachrome/Calibration(Batch)

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

7 CCV			
Sample Name:	CCV	Injection Volume:	25.0
Vial Number:	7	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 10:22	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

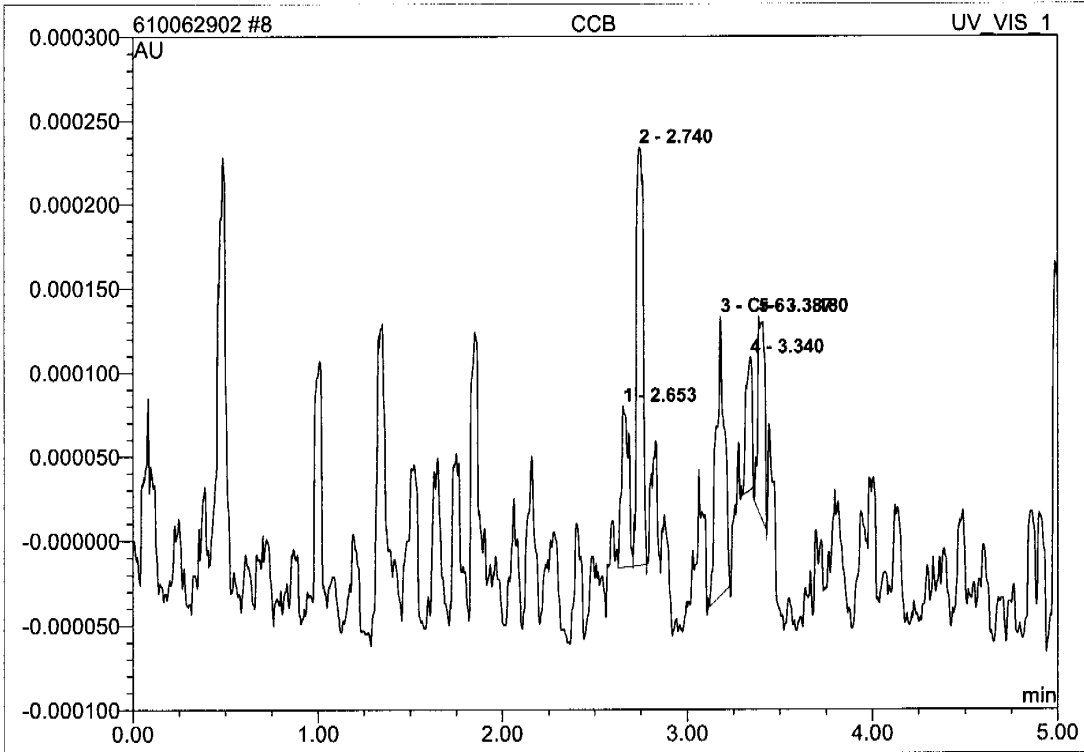


No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.77	n.a.	0.000	0.000	0.64	n.a.	BMB
2	3.35	Cr-6	0.018	0.002	97.83	0.2530	BMB
3	4.28	n.a.	0.000	0.000	0.57	n.a.	BMB
4	4.74	n.a.	0.000	0.000	0.80	n.a.	BMB
5	4.83	n.a.	0.000	0.000	0.16	n.a.	BMB
Total:			0.020	0.002	100.00	0.253	

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

8 CCB			
Sample Name:	CCB	Injection Volume:	25.0
Vial Number:	8	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 10:29	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.65	n.a.	0.000	0.000	13.88	n.a.	BM
2	2.74	n.a.	0.000	0.000	33.32	n.a.	MB
3	3.18	Cr-6	0.000	0.000	26.88	0.0018	BMB
4	3.34	n.a.	0.000	0.000	9.84	n.a.	BMB
5	3.39	n.a.	0.000	0.000	16.08	n.a.	BMB
Total:			0.001	0.000	100.00	0.002	

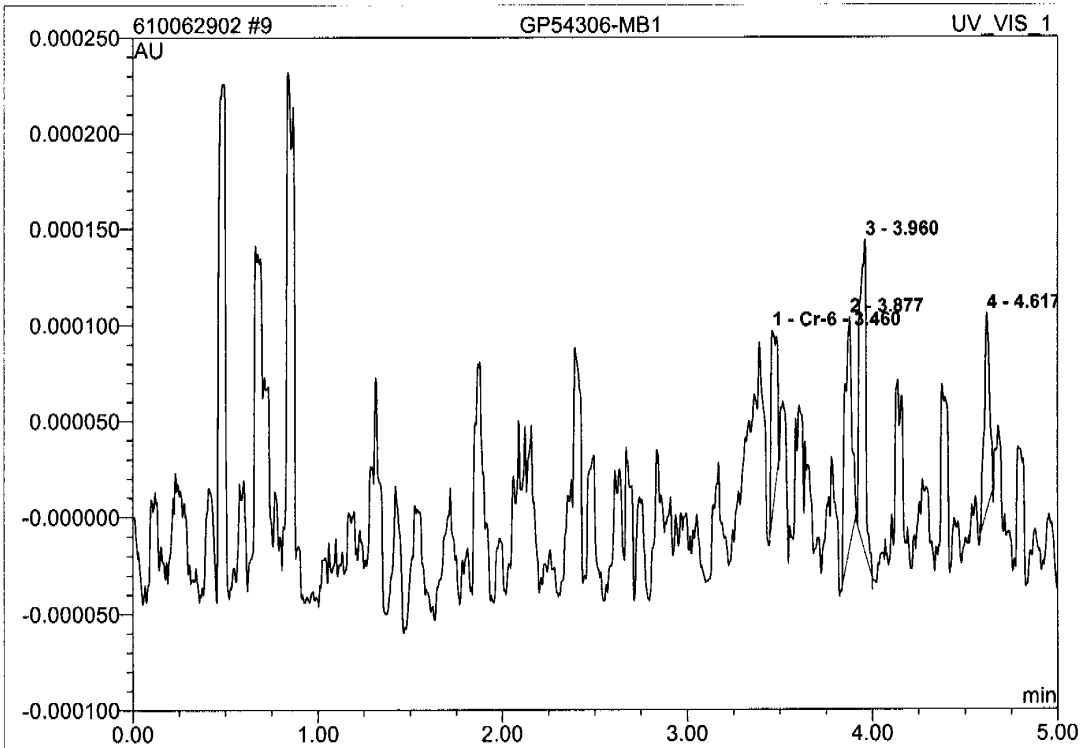
hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

6.4
6

9 GP54306-MB1

Sample Name:	GP54306-MB1	Injection Volume:	25.0
Vial Number:	9	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 10:37	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

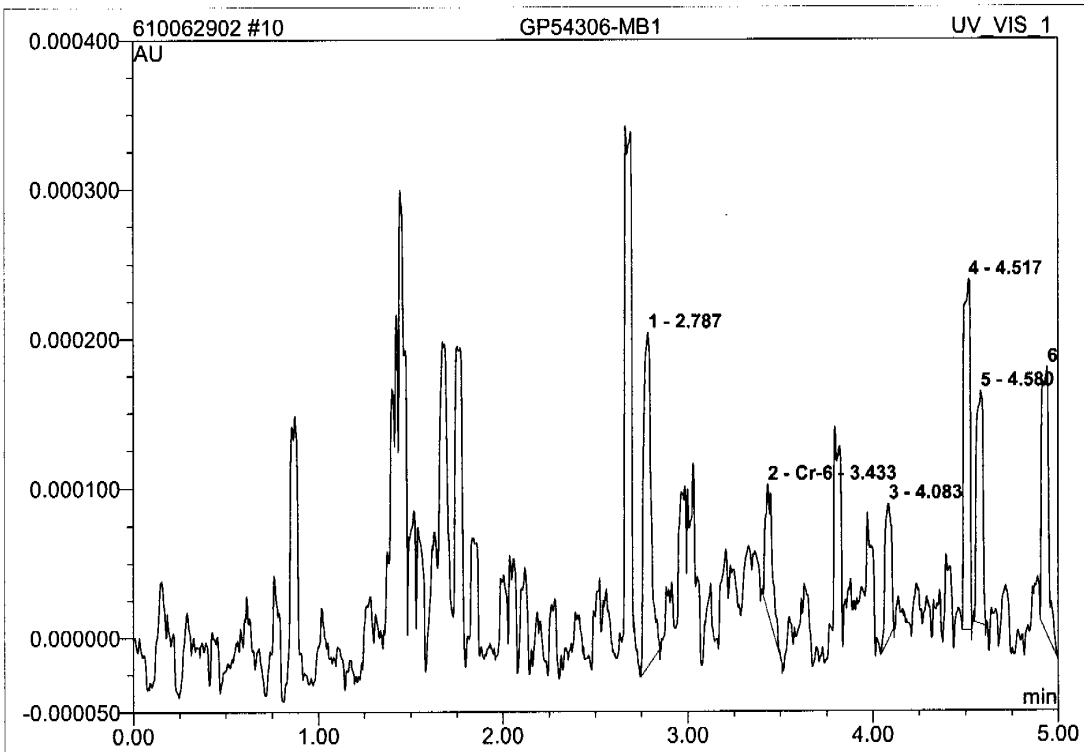


No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.46	Cr-6	0.000	0.000	18.53	0.0012	BMB
2	3.88	n.a.	0.000	0.000	28.69	n.a.	BMB
3	3.96	n.a.	0.000	0.000	33.60	n.a.	BMB
4	4.62	n.a.	0.000	0.000	19.18	n.a.	BMB
Total:			0.000	0.000	100.00	0.001	

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

10 GP54306-MB1			
Sample Name:	GP54306-MB1	Injection Volume:	25.0
Vial Number:	10	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 10:44	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



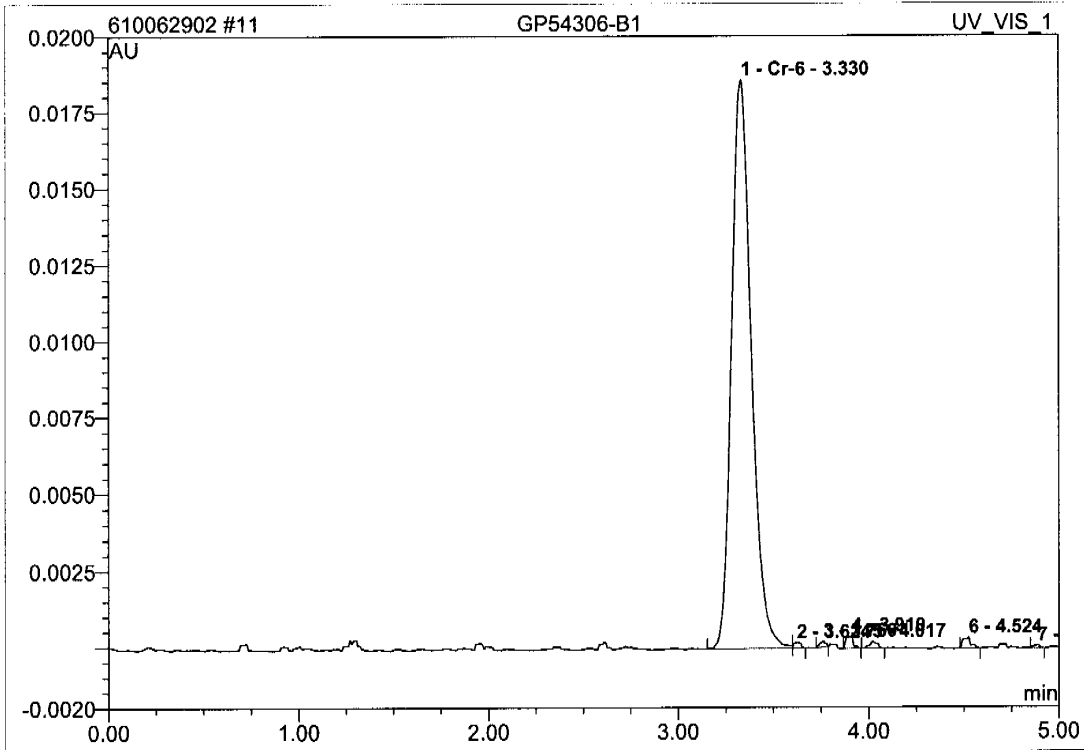
No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.79	n.a.	0.000	0.000	24.94	n.a.	BMB
2	3.43	Cr-6	0.000	0.000	9.55	0.0012	BMB
3	4.08	n.a.	0.000	0.000	8.88	n.a.	BMB
4	4.52	n.a.	0.000	0.000	22.81	n.a.	BMB
5	4.58	n.a.	0.000	0.000	14.88	n.a.	BMB
6	4.94	n.a.	0.000	0.000	18.94	n.a.	BMB
Total:			0.001	0.000	100.00	0.001	

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

11 GP54306-B1

Sample Name:	GP54306-B1	Injection Volume:	25.0
Vial Number:	11	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	4.0000
Recording Time:	6/29/2010 10:51	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



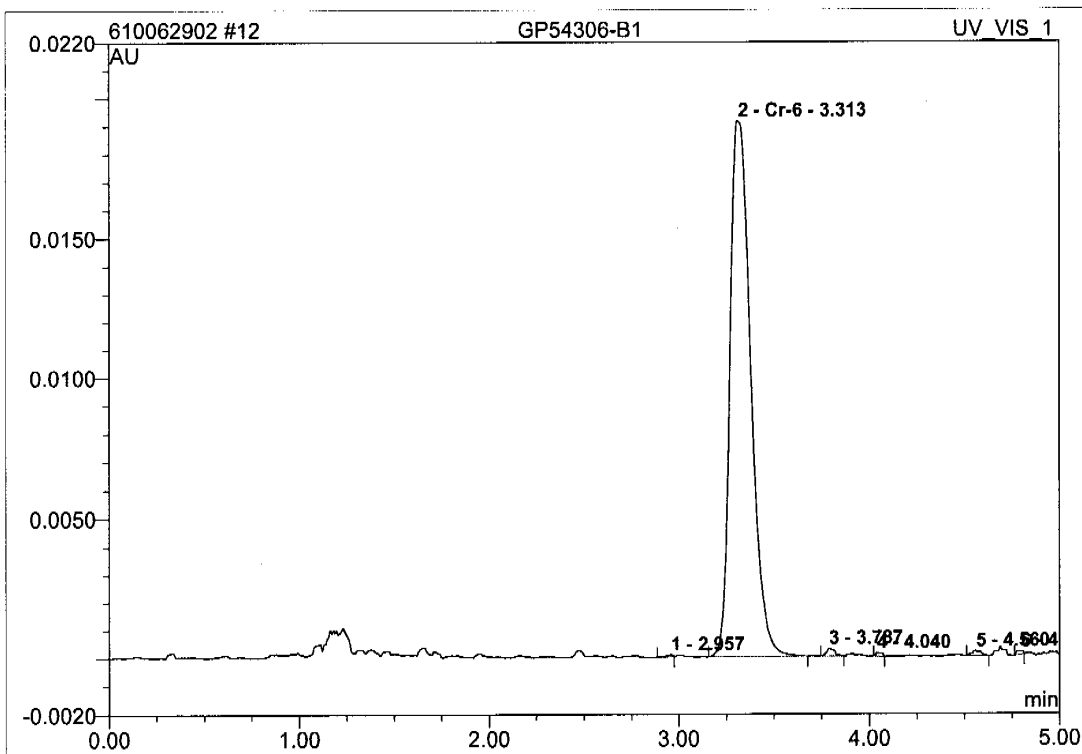
No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.33	Cr-6	0.019	0.002	97.29	1.0371	BM
2	3.62	n.a.	0.000	0.000	0.34	n.a.	MB
3	3.76	n.a.	0.000	0.000	0.30	n.a.	BMB
4	3.91	n.a.	0.000	0.000	0.76	n.a.	BMB
5	4.02	n.a.	0.000	0.000	0.44	n.a.	BMB
6	4.52	n.a.	0.000	0.000	0.70	n.a.	BMB
7	4.89	n.a.	0.000	0.000	0.17	n.a.	BMB
Total:			0.020	0.002	100.00	1.037	

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

12 GP54306-B1

Sample Name:	GP54306-B1	Injection Volume:	25.0
Vial Number:	12	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	4.0000
Recording Time:	6/29/2010 10:59	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



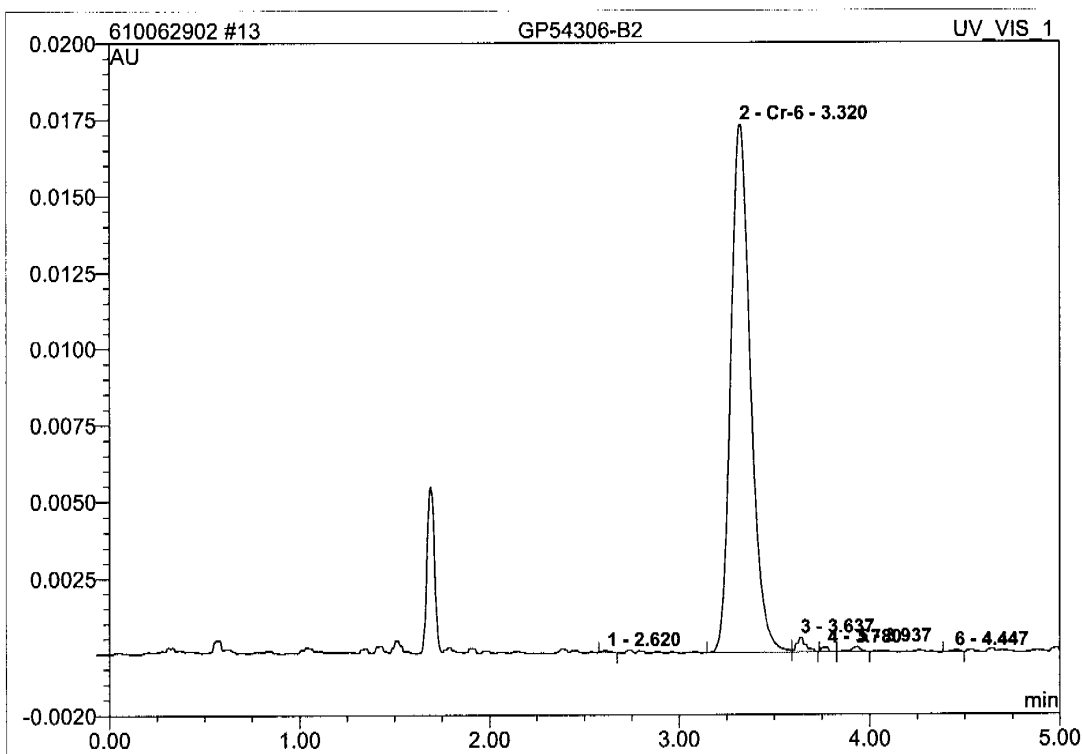
No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.96	n.a.	0.000	0.000	0.18	n.a.	BMB
2	3.31	Cr-6	0.019	0.002	98.41	1.1223	BMB
3	3.79	n.a.	0.000	0.000	0.58	n.a.	BMB
4	4.04	n.a.	0.000	0.000	0.20	n.a.	BMB
5	4.56	n.a.	0.000	0.000	0.43	n.a.	BMB
6	4.80	n.a.	0.000	0.000	0.21	n.a.	BMB
Total:			0.020	0.002	100.00	1.122	

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

13 GP54306-B2

Sample Name:	GP54306-B2	Injection Volume:	25.0
Vial Number:	13	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	90.0000
Recording Time:	6/29/2010 11:06	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



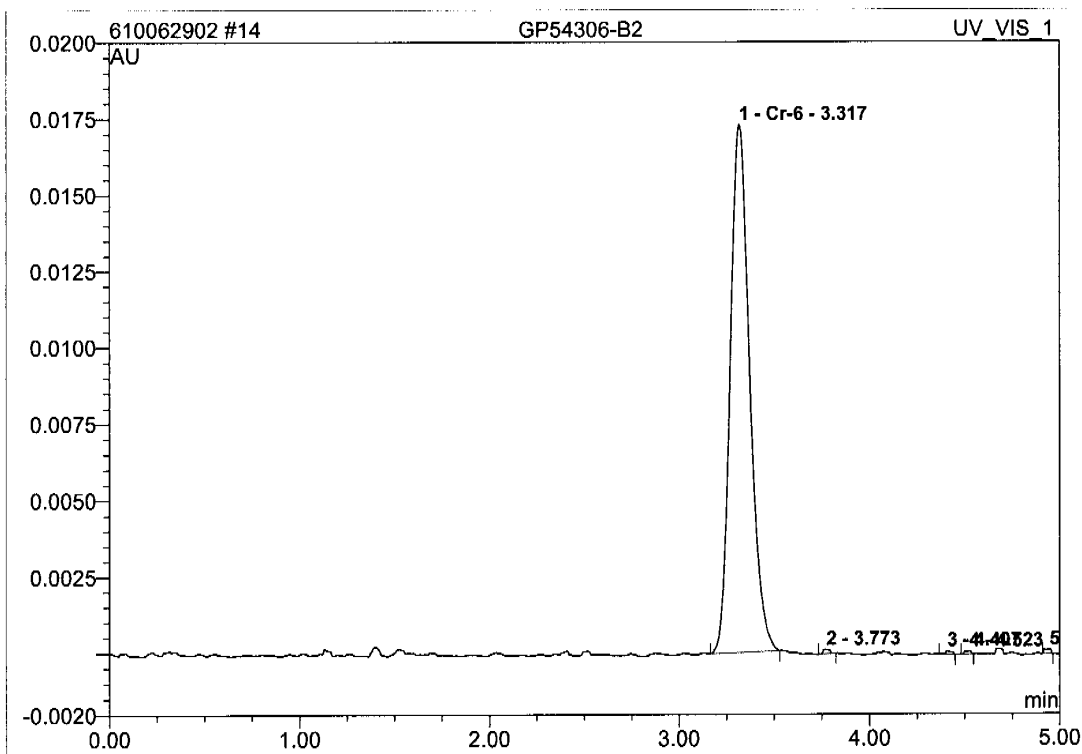
No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.62	n.a.	0.000	0.000	0.18	n.a.	BMB
2	3.32	Cr-6	0.017	0.002	97.57	21.7152	BM
3	3.64	n.a.	0.000	0.000	1.25	n.a.	MB
4	3.78	n.a.	0.000	0.000	0.32	n.a.	BM
5	3.94	n.a.	0.000	0.000	0.50	n.a.	MB
6	4.45	n.a.	0.000	0.000	0.18	n.a.	BMB
Total:			0.018	0.002	100.00	21.715	

hexachrome/Integration

Chromleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

14 GP54306-B2

Sample Name:	GP54306-B2	Injection Volume:	25.0
Vial Number:	14	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	90.0000
Recording Time:	6/29/2010 11:14	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

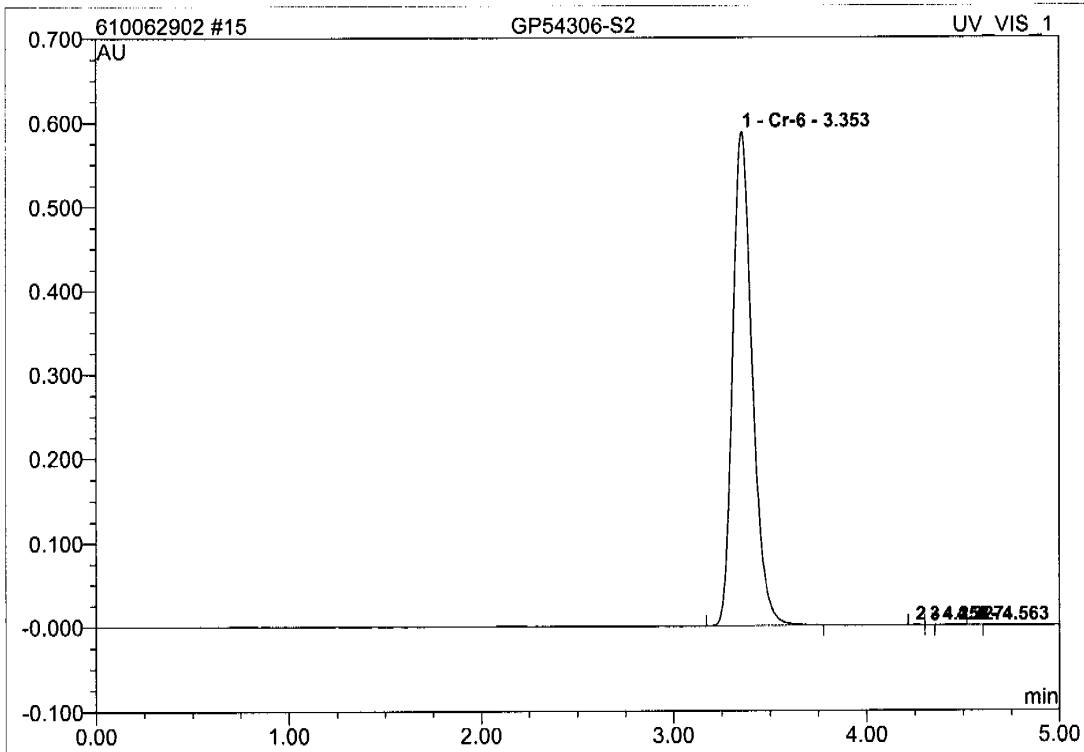


No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.32	Cr-6	0.017	0.002	99.01	21.2945	BMB
2	3.77	n.a.	0.000	0.000	0.29	n.a.	BMB
3	4.41	n.a.	0.000	0.000	0.23	n.a.	BMB
4	4.52	n.a.	0.000	0.000	0.20	n.a.	BMB
5	4.95	n.a.	0.000	0.000	0.28	n.a.	BMB
Total:			0.018	0.002	100.00	21.295	

hexachrome/Integration

Chromleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

15 GP54306-S2			
Sample Name:	GP54306-S2	Injection Volume:	25.0
Vial Number:	15	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 11:21	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

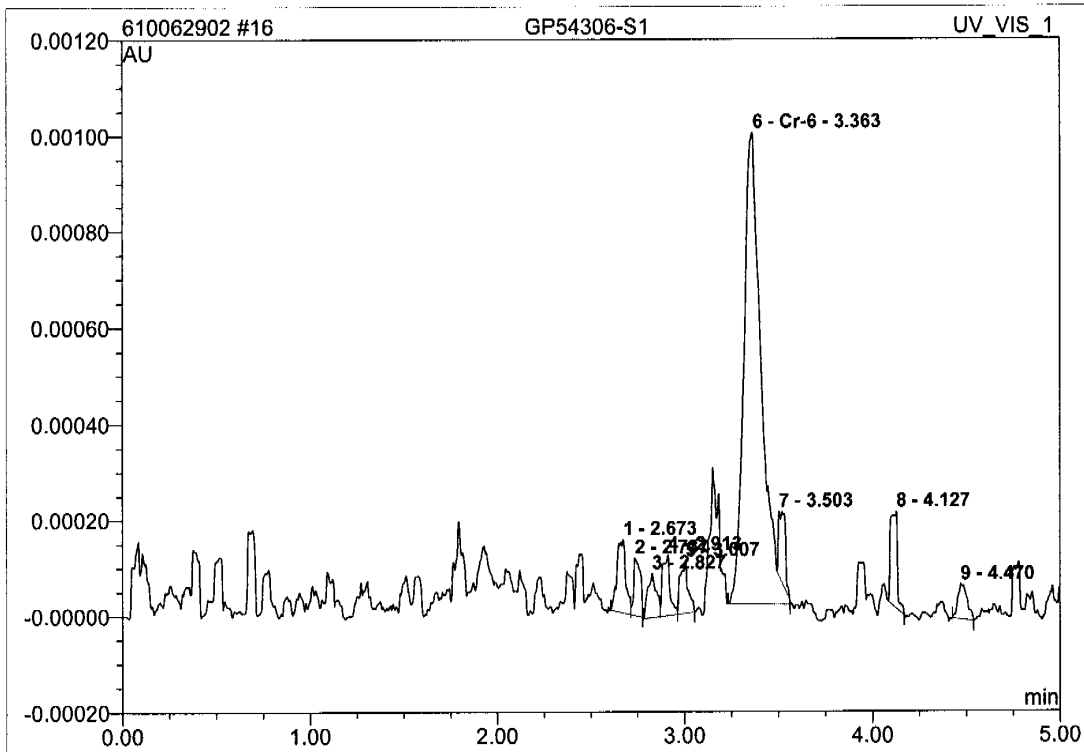


No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.35	Cr-6	0.588	0.069	99.95	7.9902	BMB
2	4.25	n.a.	0.000	0.000	0.02	n.a.	BM
3	4.33	n.a.	0.000	0.000	0.01	n.a.	MB
4	4.56	n.a.	0.000	0.000	0.02	n.a.	BMB
Total:			0.589	0.069	100.00	7.990	

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

16 GP54306-S1			
Sample Name:	GP54306-S1	Injection Volume:	25.0
Vial Number:	16	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 11:28	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



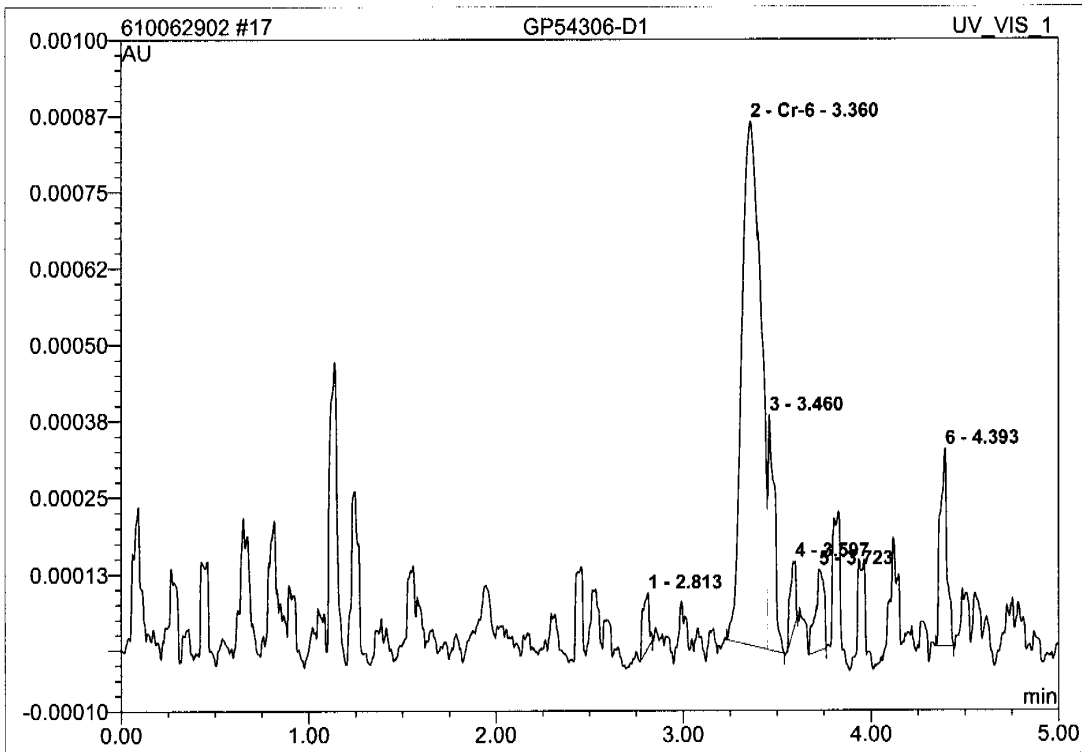
No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.67	n.a.	0.000	0.000	5.37	n.a.	BM
2	2.74	n.a.	0.000	0.000	3.13	n.a.	MB
3	2.83	n.a.	0.000	0.000	3.08	n.a.	BM
4	2.91	n.a.	0.000	0.000	3.82	n.a.	M
5	3.01	n.a.	0.000	0.000	3.40	n.a.	MB
6	3.36	Cr-6	0.001	0.000	69.04	0.0131	BMB
7	3.50	n.a.	0.000	0.000	4.01	n.a.	Rd
8	4.13	n.a.	0.000	0.000	5.43	n.a.	BMB
9	4.47	n.a.	0.000	0.000	2.73	n.a.	BMB
Total:			0.002	0.000	100.00	0.013	

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

17 GP54306-D1

Sample Name:	GP54306-D1	Injection Volume:	25.0
Vial Number:	17	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 11:44	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

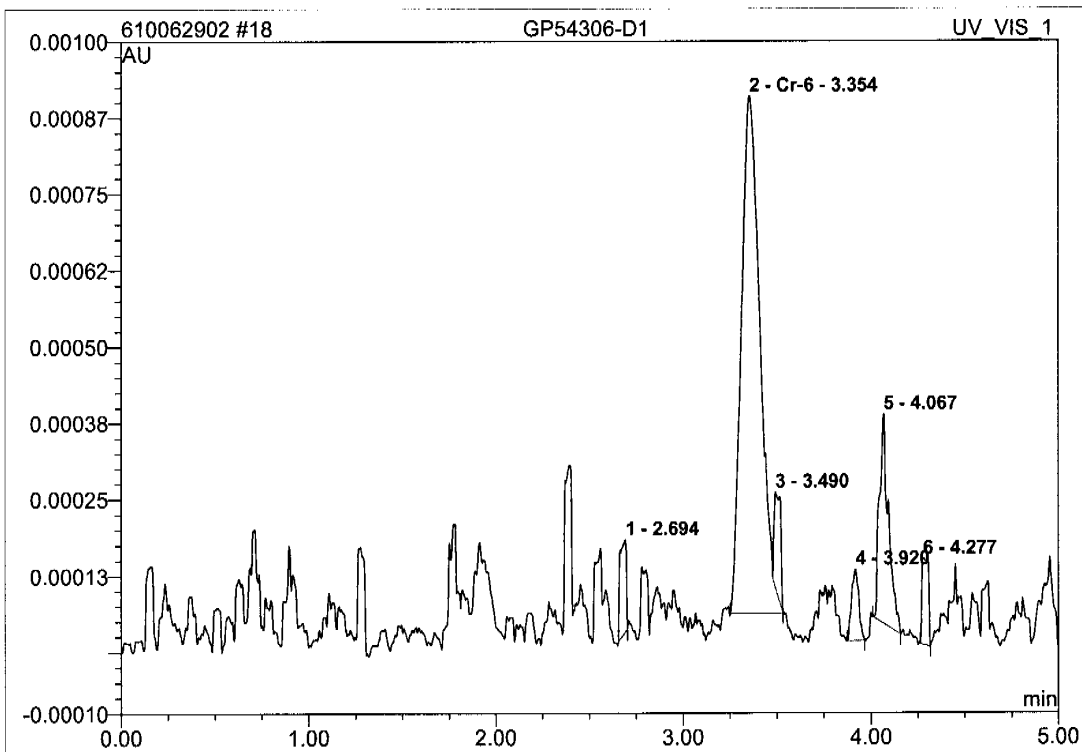


No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.81	n.a.	0.000	0.000	2.54	n.a.	BMB
2	3.36	Cr-6	0.001	0.000	69.72	0.0124	BM
3	3.46	n.a.	0.000	0.000	10.47	n.a.	MB
4	3.60	n.a.	0.000	0.000	2.74	n.a.	BMB
5	3.72	n.a.	0.000	0.000	5.06	n.a.	BMB
6	4.39	n.a.	0.000	0.000	9.46	n.a.	BMB
Total:			0.002	0.000	100.00	0.012	

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

18 GP54306-D1			
Sample Name:	GP54306-D1	Injection Volume:	25.0
Vial Number:	18	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 11:51	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

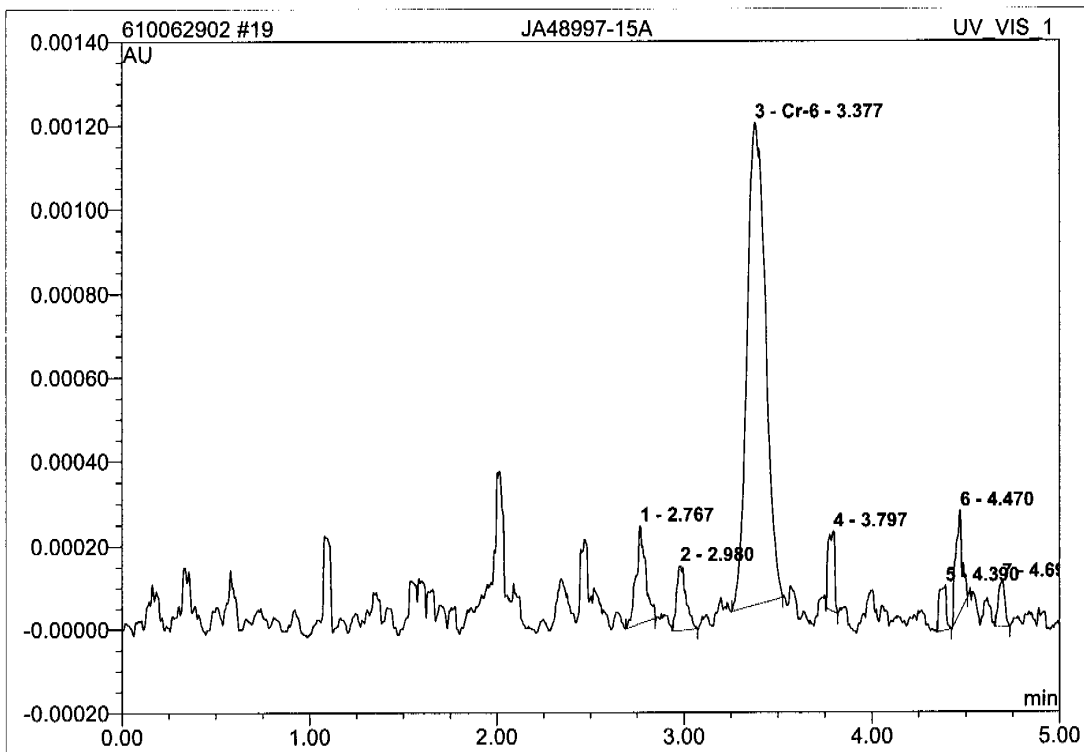


No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.69	n.a.	0.000	0.000	4.34	n.a.	BMB
2	3.35	Cr-6	0.001	0.000	69.56	0.0121	BMB
3	3.49	n.a.	0.000	0.000	4.69	n.a.	Rd
4	3.92	n.a.	0.000	0.000	3.67	n.a.	BMB
5	4.07	n.a.	0.000	0.000	13.59	n.a.	BMB
6	4.28	n.a.	0.000	0.000	4.14	n.a.	BMB
Total:			0.002	0.000	100.00	0.012	

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

19 JA48997-15A			
Sample Name:	JA48997-15A	Injection Volume:	25.0
Vial Number:	19	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 11:58	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



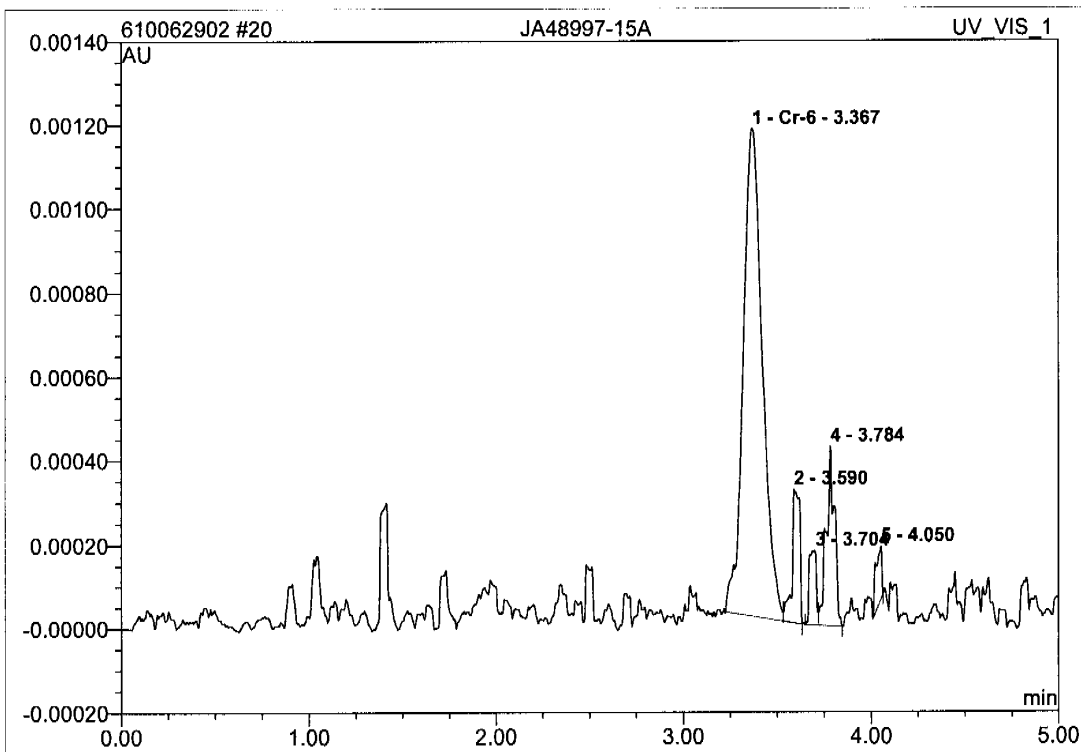
No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.77	n.a.	0.000	0.000	7.63	n.a.	BMB
2	2.98	n.a.	0.000	0.000	5.05	n.a.	BMB
3	3.38	Cr-6	0.001	0.000	72.63	0.0160	BMB
4	3.80	n.a.	0.000	0.000	4.17	n.a.	BMB
5	4.39	n.a.	0.000	0.000	2.49	n.a.	BMB
6	4.47	n.a.	0.000	0.000	5.58	n.a.	BMB
7	4.69	n.a.	0.000	0.000	2.45	n.a.	BMB
Total:			0.002	0.000	100.00	0.016	

hexachrome/Integration

Chromleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

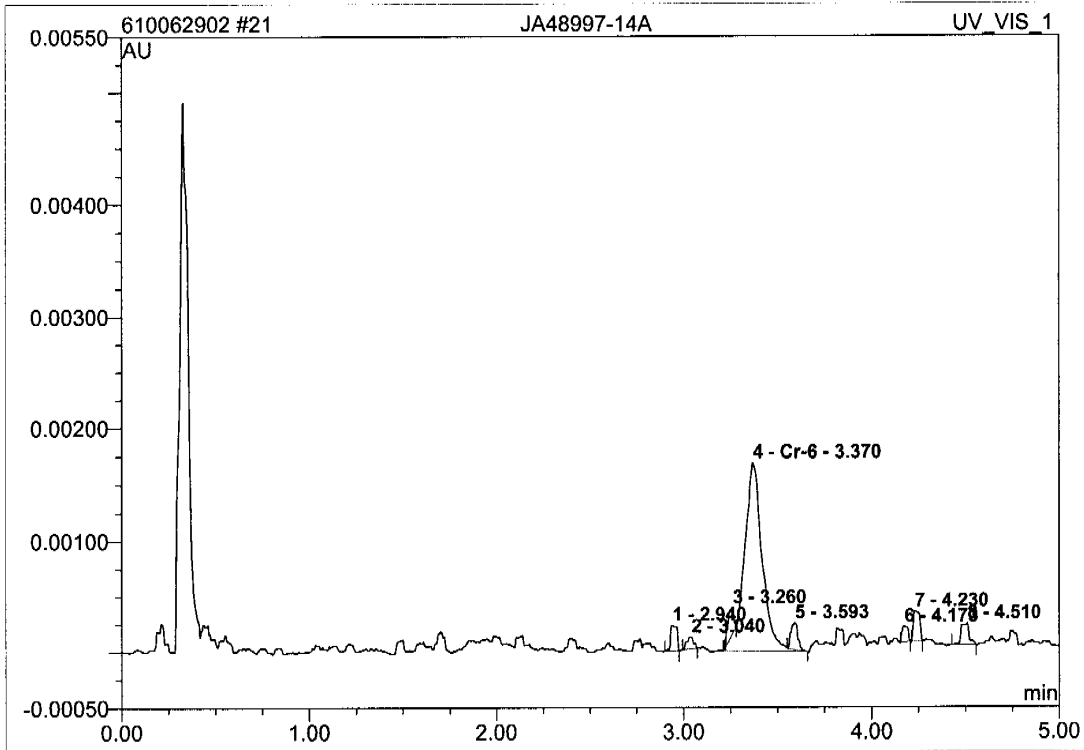
20 JA48997-15A

Sample Name:	JA48997-15A	Injection Volume:	25.0
Vial Number:	20	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 12:06	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.37	Cr-6	0.001	0.000	73.45	0.0167	BM
2	3.59	n.a.	0.000	0.000	8.18	n.a.	MB
3	3.70	n.a.	0.000	0.000	4.05	n.a.	BM
4	3.78	n.a.	0.000	0.000	11.70	n.a.	MB
5	4.05	n.a.	0.000	0.000	2.62	n.a.	BMB
Total:			0.002	0.000	100.00	0.017	

21 JA48997-14A			
Sample Name:	JA48997-14A	Injection Volume:	25.0
Vial Number:	21	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 12:13	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



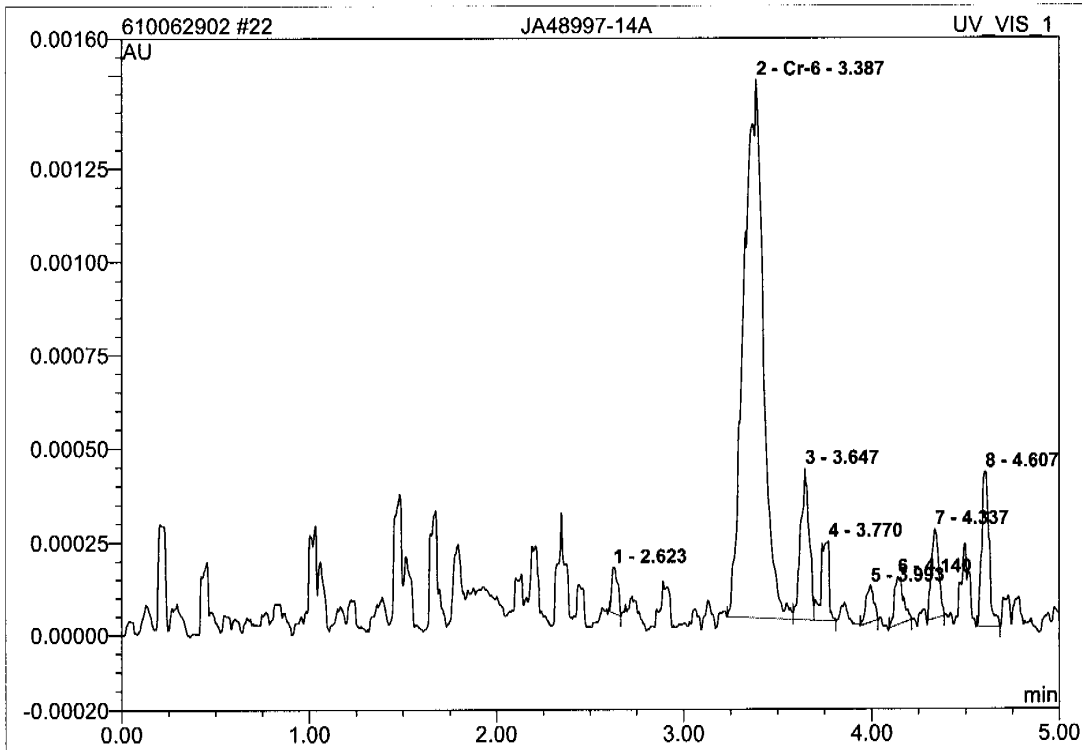
No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.94	n.a.	0.000	0.000	3.89	n.a.	BMB
2	3.04	n.a.	0.000	0.000	1.81	n.a.	BMB
3	3.26	n.a.	0.000	0.000	3.83	n.a.	Ru
4	3.37	Cr-6	0.002	0.000	75.88	0.0225	BMB
5	3.59	n.a.	0.000	0.000	4.15	n.a.	Rd
6	4.17	n.a.	0.000	0.000	2.18	n.a.	BMB
7	4.23	n.a.	0.000	0.000	4.46	n.a.	BMB
8	4.51	n.a.	0.000	0.000	3.80	n.a.	BMB
Total:			0.003	0.000	100.00	0.022	

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

22 JA48997-14A

Sample Name:	JA48997-14A	Injection Volume:	25.0
Vial Number:	22	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 12:21	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



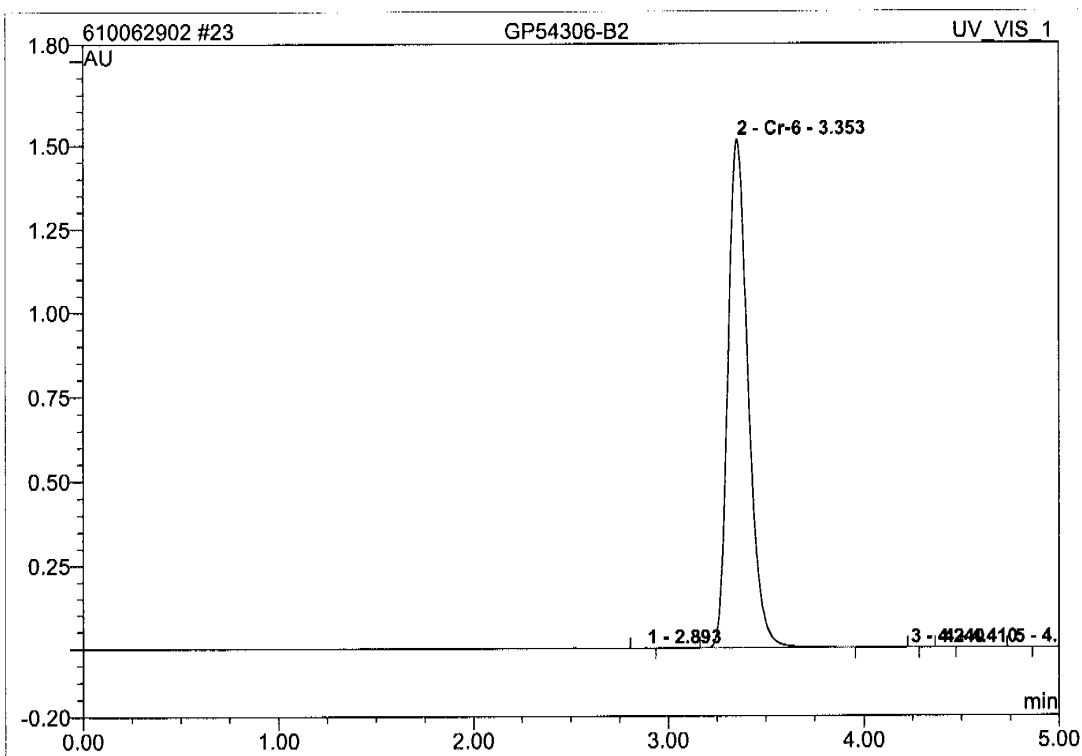
No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.62	n.a.	0.000	0.000	1.82	n.a.	BMB
2	3.39	Cr-6	0.001	0.000	68.88	0.0210	BM
3	3.65	n.a.	0.000	0.000	8.38	n.a.	M
4	3.77	n.a.	0.000	0.000	4.26	n.a.	MB
5	3.99	n.a.	0.000	0.000	1.88	n.a.	BMB
6	4.14	n.a.	0.000	0.000	2.86	n.a.	BMB
7	4.34	n.a.	0.000	0.000	4.40	n.a.	BMB
8	4.61	n.a.	0.000	0.000	7.51	n.a.	BMB
Total:			0.003	0.000	100.00	0.021	

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

23 GP54306-B2

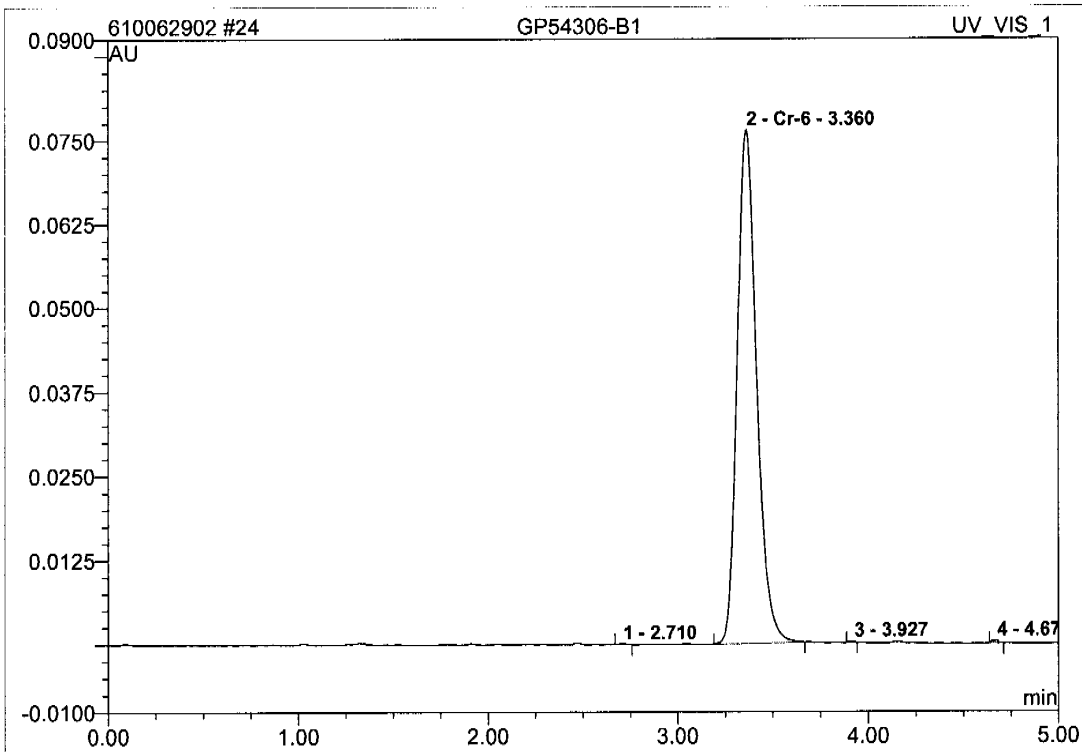
Sample Name:	GP54306-B2	Injection Volume:	25.0
Vial Number:	23	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 12:28	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.89	n.a.	0.000	0.000	0.01	n.a.	BMB
2	3.35	Cr-6	1.515	0.182	99.98	20.9828	BMB
3	4.24	n.a.	0.000	0.000	0.00	n.a.	BMB
4	4.41	n.a.	0.000	0.000	0.00	n.a.	BMB
5	4.77	n.a.	0.000	0.000	0.01	n.a.	BMB
Total:			1.515	0.182	100.00	20.983	

24 GP54306-B1

Sample Name:	GP54306-B1	Injection Volume:	25.0
Vial Number:	24	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 12:35	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



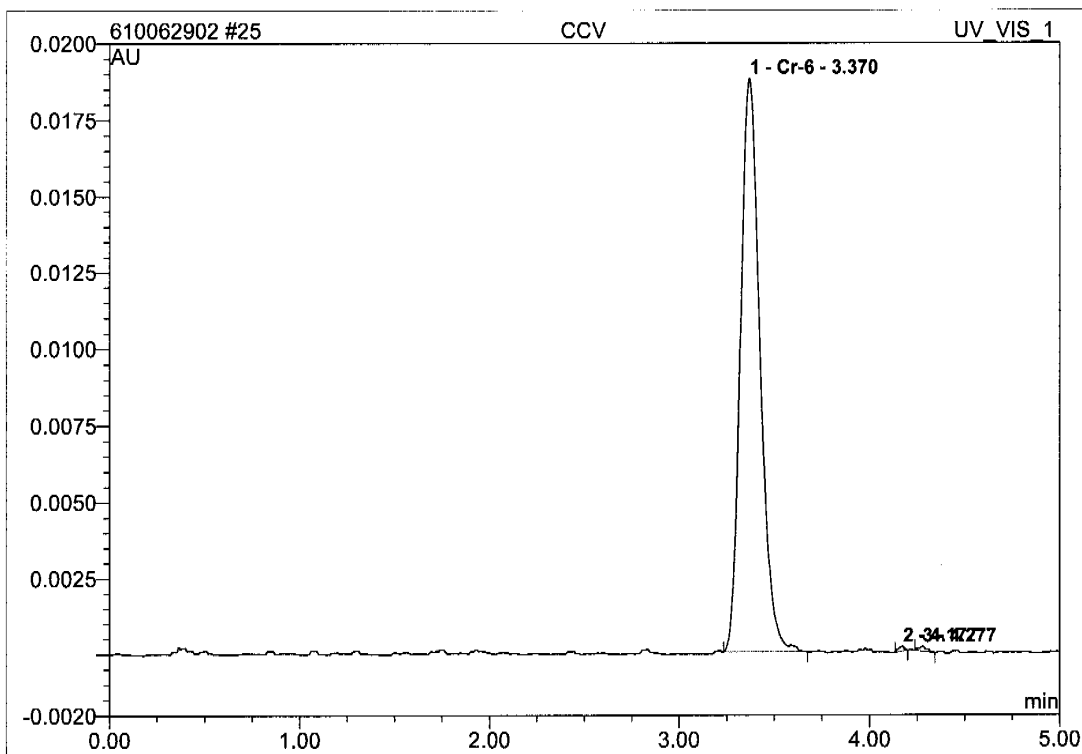
No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.71	n.a.	0.000	0.000	0.06	n.a.	BMB
2	3.36	Cr-6	0.076	0.009	99.66	1.0423	BMB
3	3.93	n.a.	0.000	0.000	0.10	n.a.	BMB
4	4.68	n.a.	0.000	0.000	0.18	n.a.	BMB
Total:			0.077	0.009	100.00	1.042	

hexachrome/Integration

Chromleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

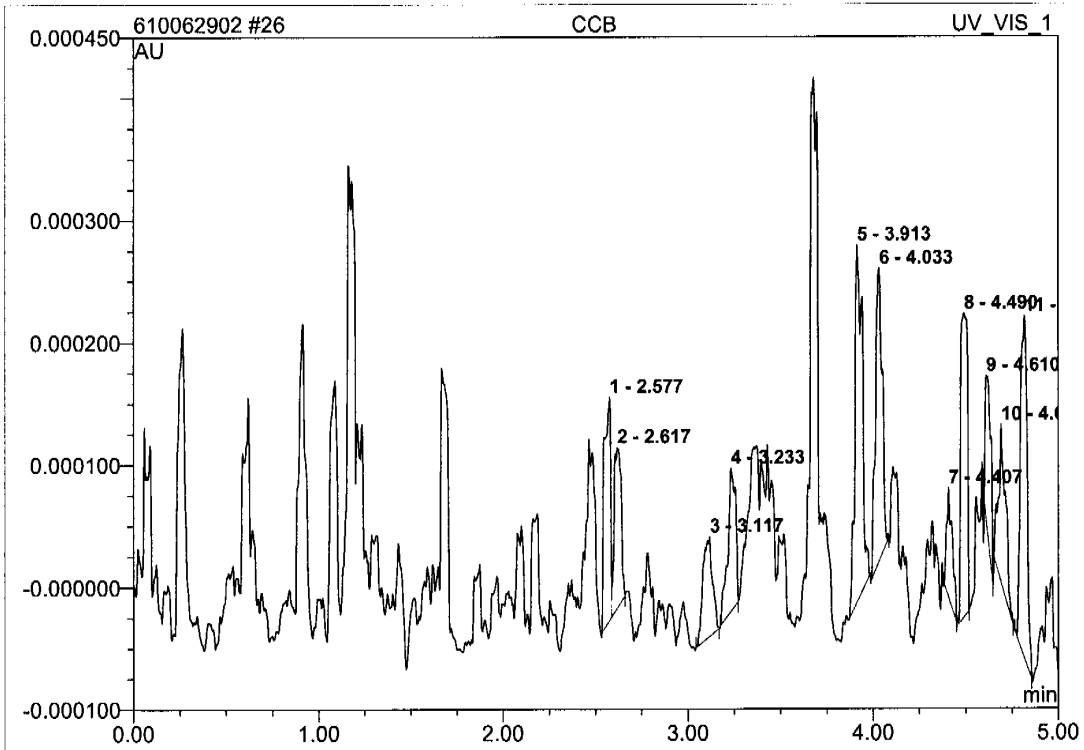
25 CCV

Sample Name:	CCV	Injection Volume:	25.0
Vial Number:	25	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 12:43	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.37	Cr-6	0.019	0.002	99.39	0.2589	BMB
2	4.18	n.a.	0.000	0.000	0.27	n.a.	BMB
3	4.28	n.a.	0.000	0.000	0.34	n.a.	BMB
Total:			0.019	0.002	100.00	0.259	

26 CCB			
Sample Name:	CCB	Injection Volume:	25.0
Vial Number:	26	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 12:50	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.58	n.a.	0.000	0.000	8.46	n.a.	BM
2	2.62	n.a.	0.000	0.000	7.11	n.a.	MB
3	3.12	n.a.	0.000	0.000	5.95	n.a.	BMB
4	3.23	n.a.	0.000	0.000	7.13	n.a.	BMB
5	3.91	n.a.	0.000	0.000	15.96	n.a.	BMB
6	4.03	n.a.	0.000	0.000	12.18	n.a.	BMB
7	4.41	n.a.	0.000	0.000	3.98	n.a.	BMB
8	4.49	n.a.	0.000	0.000	12.47	n.a.	BMB
9	4.61	n.a.	0.000	0.000	5.62	n.a.	BMB
10	4.69	n.a.	0.000	0.000	6.88	n.a.	BMB
11	4.82	n.a.	0.000	0.000	14.25	n.a.	BMB

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

Operator:Chemistry Timebase:accutest Sequence:610062902

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Total:	0.002	0.000	100.00	0.000
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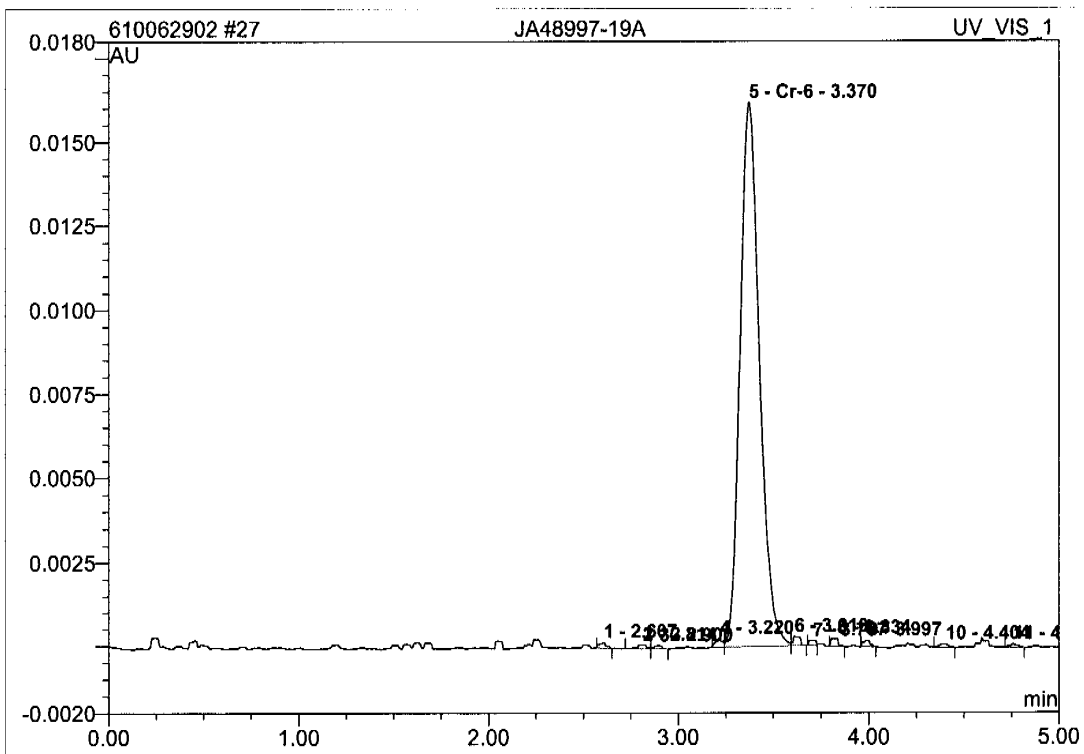
6.4

6

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

27 JA48997-19A			
Sample Name:	JA48997-19A	Injection Volume:	25.0
Vial Number:	27	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 12:58	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.61	n.a.	0.000	0.000	0.35	n.a.	BMB
2	2.81	n.a.	0.000	0.000	0.35	n.a.	BM
3	2.90	n.a.	0.000	0.000	0.21	n.a.	MB
4	3.22	n.a.	0.000	0.000	0.59	n.a.	BM
5	3.37	Cr-6	0.016	0.002	96.15	0.2221	M
6	3.61	n.a.	0.000	0.000	0.59	n.a.	MB
7	3.71	n.a.	0.000	0.000	0.28	n.a.	BMB
8	3.83	n.a.	0.000	0.000	0.55	n.a.	BMB
9	4.00	n.a.	0.000	0.000	0.40	n.a.	BMB
10	4.40	n.a.	0.000	0.000	0.29	n.a.	BMB
11	4.76	n.a.	0.000	0.000	0.24	n.a.	BMB

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

Operator:Chemistry Timebase:accutest Sequence:610062902

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Total:	0.018	0.002	100.00	0.222
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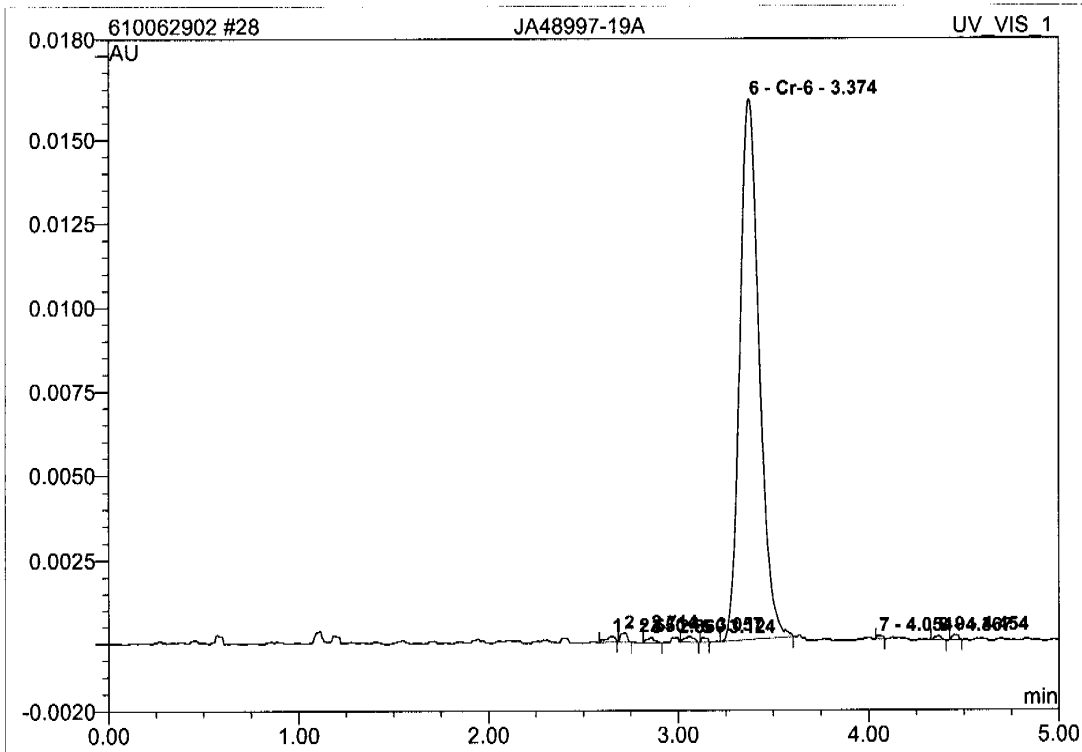
6.4

6

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

28 JA48997-19A			
Sample Name:	JA48997-19A	Injection Volume:	25.0
Vial Number:	28	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 13:05	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

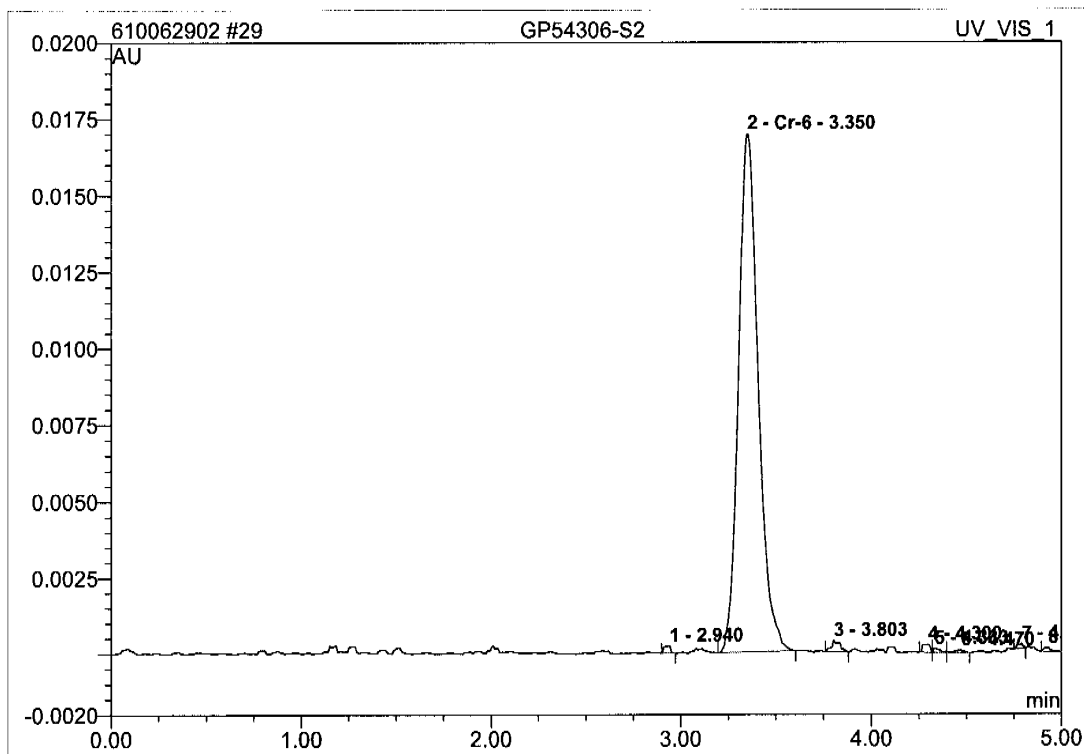


No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.65	n.a.	0.000	0.000	0.49	n.a.	BMB
2	2.71	n.a.	0.000	0.000	0.57	n.a.	BMB
3	2.86	n.a.	0.000	0.000	0.38	n.a.	BMB
4	3.06	n.a.	0.000	0.000	0.50	n.a.	BMB
5	3.12	n.a.	0.000	0.000	0.28	n.a.	BMB
6	3.37	Cr-6	0.016	0.002	97.01	0.2207	BMB
7	4.05	n.a.	0.000	0.000	0.20	n.a.	BMB
8	4.37	n.a.	0.000	0.000	0.25	n.a.	BMB
9	4.45	n.a.	0.000	0.000	0.31	n.a.	BMB
Total:			0.017	0.002	100.00	0.221	

hexachrome/Integration

Chromleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

29 GP54306-S2			
Sample Name:	GP54306-S2	Injection Volume:	25.0
Vial Number:	29	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	35.0000
Recording Time:	6/29/2010 13:12	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

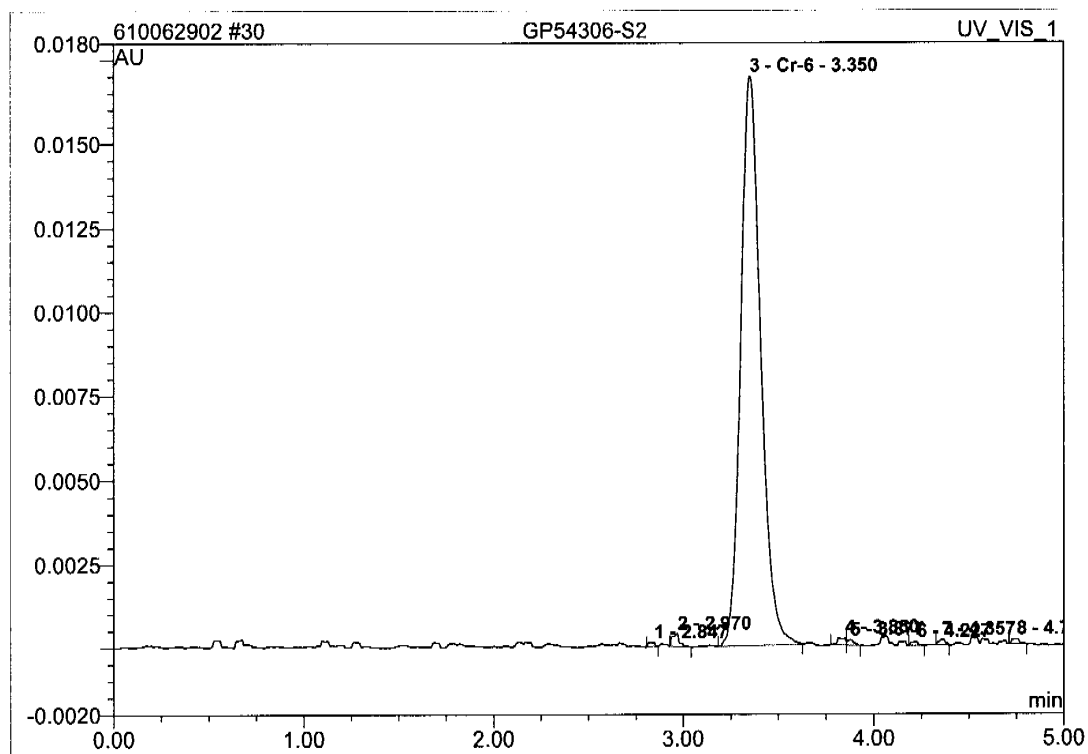


No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.94	n.a.	0.000	0.000	0.47	n.a.	BMB
2	3.35	Cr-6	0.017	0.002	96.98	8.2659	BMB
3	3.80	n.a.	0.000	0.000	0.93	n.a.	BMB
4	4.30	n.a.	0.000	0.000	0.55	n.a.	BM
5	4.33	n.a.	0.000	0.000	0.27	n.a.	M
6	4.47	n.a.	0.000	0.000	0.23	n.a.	MB
7	4.79	n.a.	0.000	0.000	0.27	n.a.	BMB
8	4.93	n.a.	0.000	0.000	0.31	n.a.	BMB
Total:			0.018	0.002	100.00	8.266	

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

30 GP54306-S2			
Sample Name:	GP54306-S2	Injection Volume:	25.0
Vial Number:	30	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	35.0000
Recording Time:	6/29/2010 13:20	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

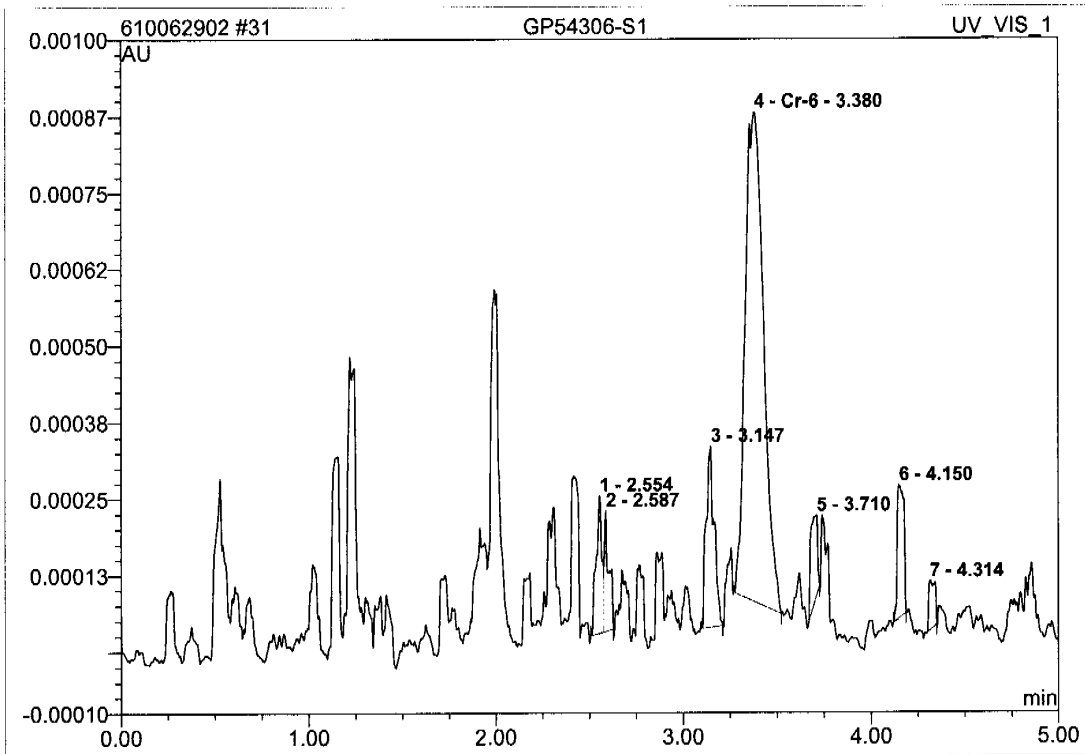


No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.85	n.a.	0.000	0.000	0.23	n.a.	BMB
2	2.97	n.a.	0.000	0.000	0.78	n.a.	BMB
3	3.35	Cr-6	0.017	0.002	97.33	8.3818	BMB
4	3.85	n.a.	0.000	0.000	0.48	n.a.	BM
5	3.88	n.a.	0.000	0.000	0.32	n.a.	MB
6	4.23	n.a.	0.000	0.000	0.22	n.a.	BMB
7	4.36	n.a.	0.000	0.000	0.32	n.a.	BMB
8	4.75	n.a.	0.000	0.000	0.32	n.a.	BMB
Total:			0.018	0.002	100.00	8.382	

hexachrome/Integration

Chromleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

31 GP54306-S1			
Sample Name:	GP54306-S1	Injection Volume:	25.0
Vial Number:	31	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 13:27	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

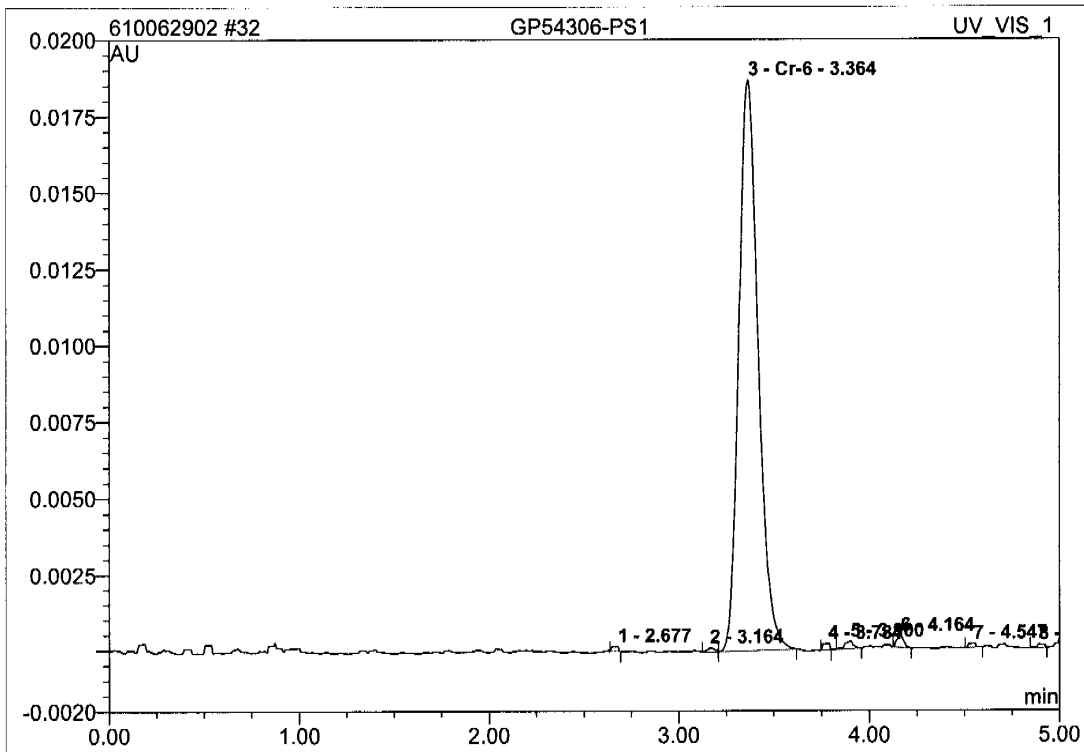


No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.55	n.a.	0.000	0.000	5.93	n.a.	BM
2	2.59	n.a.	0.000	0.000	3.89	n.a.	MB
3	3.15	n.a.	0.000	0.000	10.53	n.a.	BMB
4	3.38	Cr-6	0.001	0.000	66.56	0.0113	BMB
5	3.71	n.a.	0.000	0.000	4.41	n.a.	BMB
6	4.15	n.a.	0.000	0.000	6.45	n.a.	BMB
7	4.31	n.a.	0.000	0.000	2.22	n.a.	BMB
Total:			0.002	0.000	100.00	0.011	

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

32 GP54306-PS1			
Sample Name:	GP54306-PS1	Injection Volume:	25.0
Vial Number:	33	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	4.0000
Recording Time:	6/29/2010 13:35	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



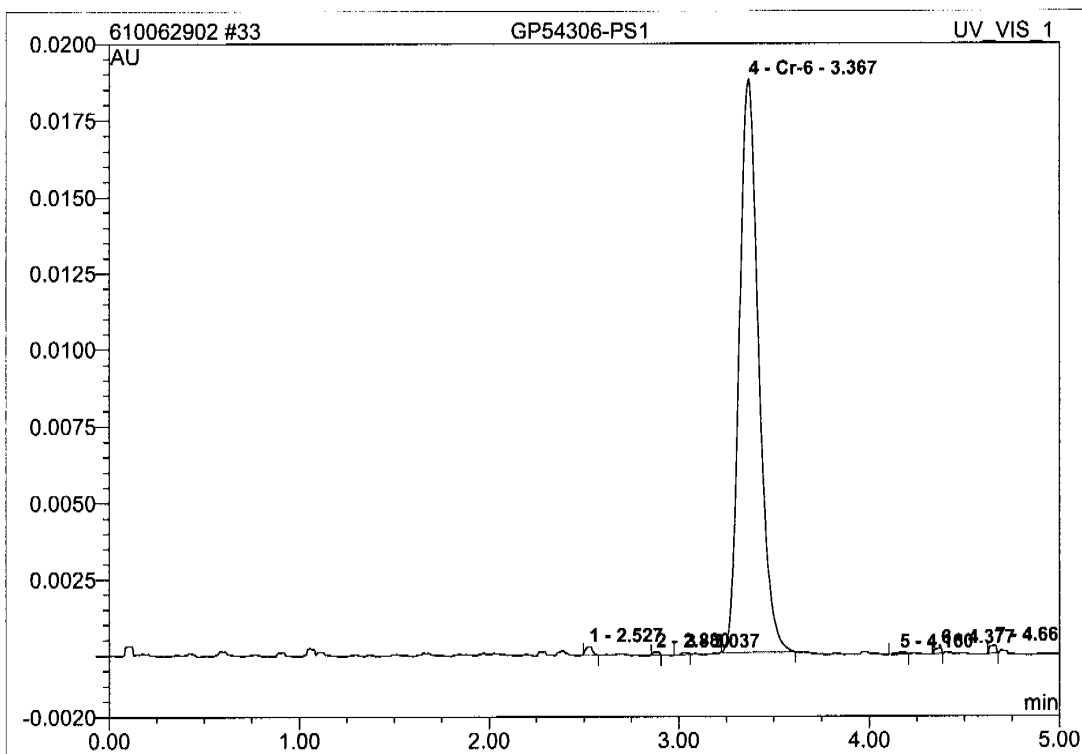
No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.68	n.a.	0.000	0.000	0.30	n.a.	BMB
2	3.16	n.a.	0.000	0.000	0.28	n.a.	BM
3	3.36	Cr-6	0.019	0.002	97.22	1.0231	MB
4	3.78	n.a.	0.000	0.000	0.39	n.a.	BMB
5	3.90	n.a.	0.000	0.000	0.56	n.a.	BMB
6	4.16	n.a.	0.000	0.000	0.74	n.a.	BMB
7	4.55	n.a.	0.000	0.000	0.28	n.a.	BMB
8	4.89	n.a.	0.000	0.000	0.24	n.a.	BMB
Total:			0.020	0.002	100.00	1.023	

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

6.4
6

33 GP54306-PS1			
Sample Name:	GP54306-PS1	Injection Volume:	25.0
Vial Number:	34	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	4.0000
Recording Time:	6/29/2010 13:42	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

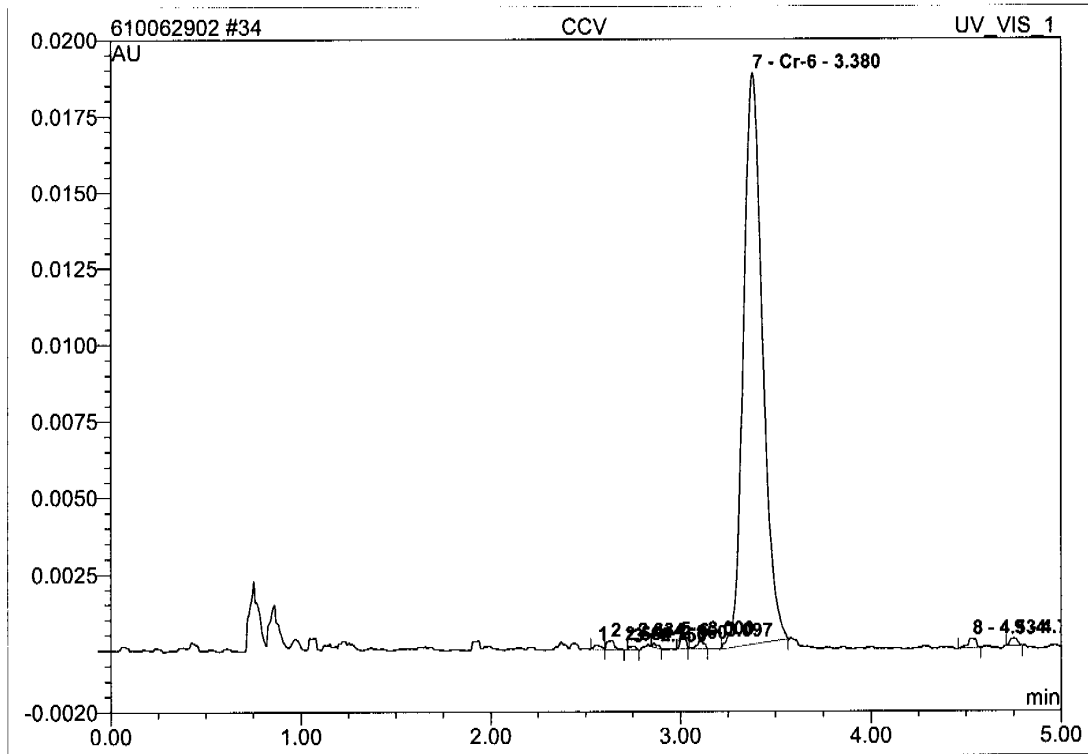


No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.53	n.a.	0.000	0.000	0.48	n.a.	BMB
2	2.88	n.a.	0.000	0.000	0.17	n.a.	BMB
3	3.04	n.a.	0.000	0.000	0.14	n.a.	BMB
4	3.37	Cr-6	0.019	0.002	98.26	1.0223	BMB
5	4.16	n.a.	0.000	0.000	0.19	n.a.	BMB
6	4.38	n.a.	0.000	0.000	0.31	n.a.	BMB
7	4.66	n.a.	0.000	0.000	0.45	n.a.	BMB
Total:			0.020	0.002	100.00	1.022	

hexachrome/Integration

Chromleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

34 CCV			
Sample Name:	CCV	Injection Volume:	25.0
Vial Number:	35	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 13:49	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



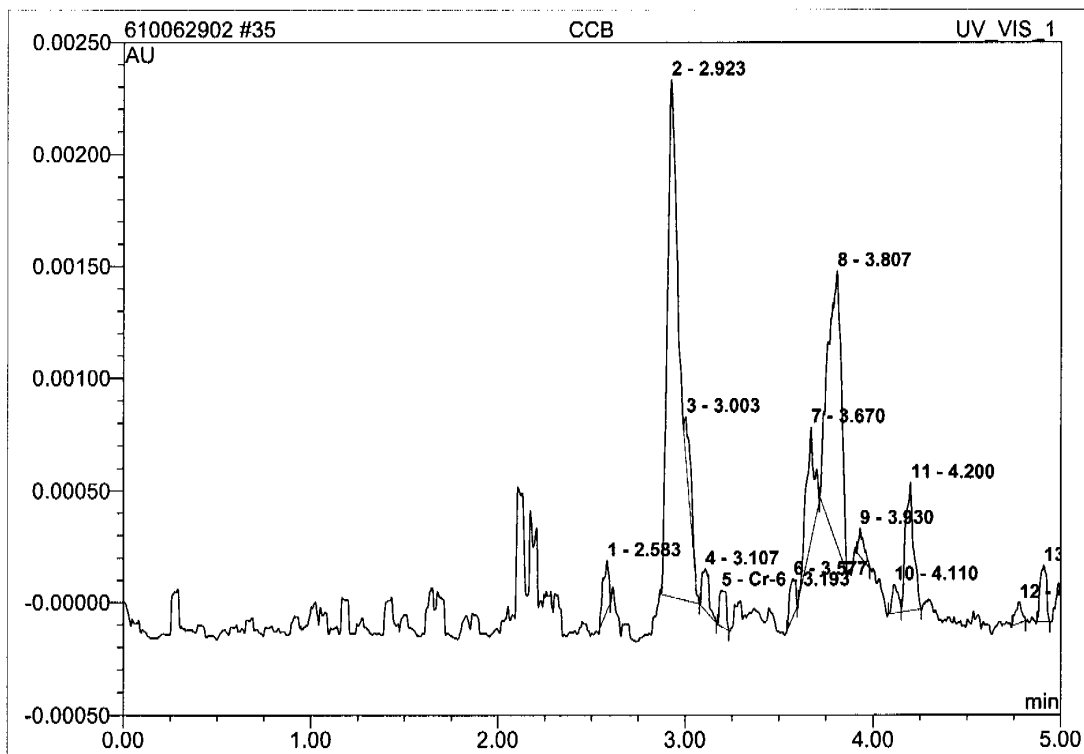
No.	Ret. Time min	Peak Name	Height AU	Area AU*min	Rel. Area %	Amount ppm	Type
1	2.56	n.a.	0.000	0.000	0.28	n.a.	BM
2	2.63	n.a.	0.000	0.000	0.61	n.a.	MB
3	2.75	n.a.	0.000	0.000	0.20	n.a.	BMB
4	2.86	n.a.	0.000	0.000	0.18	n.a.	BMB
5	3.00	n.a.	0.000	0.000	0.57	n.a.	BMB
6	3.10	n.a.	0.000	0.000	0.51	n.a.	BMB
7	3.38	Cr-6	0.019	0.002	96.47	0.2518	BMB
8	4.53	n.a.	0.000	0.000	0.71	n.a.	BMB
9	4.75	n.a.	0.000	0.000	0.48	n.a.	BMB
Total:			0.020	0.002	100.00	0.252	

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

35 CCB

Sample Name:	CCB	Injection Volume:	25.0
Vial Number:	36	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 13:57	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.58	n.a.	0.000	0.000	2.08	n.a.	BMB
2	2.92	n.a.	0.002	0.000	45.70	n.a.	BMB
3	3.00	n.a.	0.000	0.000	2.53	n.a.	Rd
4	3.11	n.a.	0.000	0.000	2.02	n.a.	BMB
5	3.19	Cr-6	0.000	0.000	1.73	0.0016	BMB
6	3.58	n.a.	0.000	0.000	1.65	n.a.	BMB
7	3.67	n.a.	0.001	0.000	6.38	n.a.	BMB
8	3.81	n.a.	0.001	0.000	25.04	n.a.	BMB
9	3.93	n.a.	0.000	0.000	1.01	n.a.	BMB
10	4.11	n.a.	0.000	0.000	1.20	n.a.	BM
11	4.20	n.a.	0.001	0.000	7.21	n.a.	MB

hexachrome/Integration

Chromleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

Operator:Chemistry Timebase:accutest Sequence:610062902

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6/29/2010 2:14 PM

12	4.78	n.a.	0.000	0.000	0.94	n.a.	BMB
13	4.91	n.a.	0.000	0.000	2.50	n.a.	BMB
Total:			0.006	0.000	100.00	0.002	

6.4

6

hexachrome/Integration

Chromleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

Sequence: 610062903
Operator: Chemistry

Title: NJCHMIC2_local
Datatype: Accutest2010June
Location: accutest
Timebase: accutest
#Samples: 45

Created: 6/29/2010 11:11:12 AM by Chemistry
Last Update: 6/29/2010 3:46:15 PM by Chemistry

No.	Name	Type	Pos.	Program	Method	Status	Inj. Date/Time	Weight	Dil. Factor
1	BLANKCONF	Unknown	1	hexachrome	hexachrome	Finished	6/29/2010 8:37:01 AM	1.0000	1.0000
2	STDA	Standard	2	hexachrome	hexachrome	Finished	6/29/2010 8:44:26 AM	1.0000	1.0000
3	STDB	Standard	3	hexachrome	hexachrome	Finished	6/29/2010 8:51:50 AM	1.0000	1.0000
4	STDC	Standard	4	hexachrome	hexachrome	Finished	6/29/2010 8:59:14 AM	1.0000	1.0000
5	STDD	Standard	5	hexachrome	hexachrome	Finished	6/29/2010 9:06:38 AM	1.0000	1.0000
6	STDE	Standard	6	hexachrome	hexachrome	Finished	6/29/2010 9:14:03 AM	1.0000	1.0000
7	CCV	Unknown	7	hexachrome	hexachrome	Finished	6/29/2010 2:21:43 PM	1.0000	1.0000
8	CCB	Unknown	8	hexachrome	hexachrome	Finished	6/29/2010 2:29:08 PM	1.0000	1.0000
9	GP54307-MB1	Unknown	9	hexachrome	hexachrome	Finished	6/29/2010 2:36:32 PM	1.0000	1.0000
10	GP54307-MB1	Unknown	10	hexachrome	hexachrome	Finished	6/29/2010 2:43:56 PM	1.0000	1.0000
11	GP54307-B1	Unknown	11	hexachrome	hexachrome	Finished	6/29/2010 2:51:20 PM	1.0000	4.0000
12	GP54307-B1	Unknown	12	hexachrome	hexachrome	Finished	6/29/2010 2:58:44 PM	1.0000	4.0000
13	GP54307-B2	Unknown	13	hexachrome	hexachrome	Finished	6/29/2010 3:06:09 PM	1.0000	90.0000
14	GP54307-B2	Unknown	14	hexachrome	hexachrome	Finished	6/29/2010 3:13:33 PM	1.0000	90.0000
15	GP54307-S2	Unknown	15	hexachrome	hexachrome	Finished	6/29/2010 3:20:57 PM	1.0000	1.0000
16	GP54307-S3	Unknown	16	hexachrome	hexachrome	Finished	6/29/2010 3:28:21 PM	1.0000	1.0000
17	GP54307-S1	Unknown	17	hexachrome	hexachrome	Finished	6/29/2010 3:35:45 PM	1.0000	1.0000
18	GP54307-D1	Unknown	18	hexachrome	hexachrome	Finished	6/29/2010 3:43:10 PM	1.0000	1.0000
19	GP54307-D1	Unknown	19	hexachrome	hexachrome	Finished	6/29/2010 3:50:34 PM	1.0000	1.0000
20	JA48997-11A	Unknown	20	hexachrome	hexachrome	Finished	6/29/2010 3:57:58 PM	1.0000	1.0000
21	JA48997-11A	Unknown	21	hexachrome	hexachrome	Finished	6/29/2010 4:05:22 PM	1.0000	1.0000
22	GP54307-B2	Unknown	22	hexachrome	hexachrome	Finished	6/29/2010 4:12:46 PM	1.0000	1.0000
23	GP54307-B1	Unknown	23	hexachrome	hexachrome	Finished	6/29/2010 4:20:11 PM	1.0000	1.0000
24	CCV	Unknown	24	hexachrome	hexachrome	Finished	6/29/2010 4:27:35 PM	1.0000	1.0000
25	CCB	Unknown	25	hexachrome	hexachrome	Finished	6/29/2010 4:34:59 PM	1.0000	1.0000
26	JA48997-12A	Unknown	26	hexachrome	hexachrome	Finished	6/29/2010 4:42:23 PM	1.0000	1.0000
27	JA48997-12A	Unknown	27	hexachrome	hexachrome	Finished	6/29/2010 4:49:48 PM	1.0000	1.0000

Handwritten signature and date: 6/30/10

Handwritten number: GN39385

*Handwritten notes: Autosampler
Turned on
Purge bracket*

Chromleon © Dionex Corporation, Version 6.70 SP2a Build 1871

Sequence: 610062903
Operator: Chemistry

Title: NUCHMIC2_local
Location: Accutest\2010\June
Timebase: accutest
#Samples: 45

Created: 6/29/2010 11:11:12 AM by Chemistry
Last Update: 6/29/2010 3:46:15 PM by Chemistry

No.	Name	Type	Pos.	Program	Method	Status	Inj. Date/Time	Weight	Dil. Factor
28	JA48997-13A	Unknown	28	hexachrome	hexachrome	Finished	6/29/2010 4:57:11 PM	1.0000	1.0000
29	JA48997-13A	Unknown	29	hexachrome	hexachrome	Finished	6/29/2010 5:04:35 PM	1.0000	1.0000
30	JA48997-16A	Unknown	30	hexachrome	hexachrome	Finished	6/29/2010 5:11:59 PM	1.0000	1.0000
31	JA48997-16A	Unknown	31	hexachrome	hexachrome	Finished	6/29/2010 5:19:24 PM	1.0000	1.0000
32	JA48997-17A	Unknown	32	hexachrome	hexachrome	Finished	6/29/2010 5:26:48 PM	1.0000	1.0000
33	JA48997-17A	Unknown	33	hexachrome	hexachrome	Finished	6/29/2010 5:34:12 PM	1.0000	1.0000
34	JA48997-18A	Unknown	34	hexachrome	hexachrome	Finished	6/29/2010 5:41:36 PM	1.0000	1.0000
35	JA48997-18A	Unknown	35	hexachrome	hexachrome	Finished	6/29/2010 5:49:00 PM	1.0000	1.0000
36	GP54307-S2	Unknown	36	hexachrome	hexachrome	Finished	6/29/2010 5:56:24 PM	1.0000	80.0000
37	GP54307-S2	Unknown	37	hexachrome	hexachrome	Finished	6/29/2010 6:03:48 PM	1.0000	80.0000
38	GP54307-S3	Unknown	38	hexachrome	hexachrome	Finished	6/29/2010 6:11:12 PM	1.0000	15.0000
39	GP54307-S3	Unknown	39	hexachrome	hexachrome	Finished	6/29/2010 6:18:37 PM	1.0000	15.0000
40	GP54307-S1	Unknown	40	hexachrome	hexachrome	Finished	6/29/2010 6:26:01 PM	1.0000	4.0000
41	GP54307-S1	Unknown	41	hexachrome	hexachrome	Finished	6/29/2010 6:33:25 PM	1.0000	4.0000
42	GP54307-PS1	Unknown	42	hexachrome	hexachrome	Finished	6/29/2010 6:40:49 PM	1.0000	4.0000
43	GP54307-PS1	Unknown	43	hexachrome	hexachrome	Finished	6/29/2010 6:48:14 PM	1.0000	4.0000
44	CCV	Unknown	44	hexachrome	hexachrome	Finished	6/29/2010 6:55:38 PM	1.0000	1.0000
45	CCB	Unknown	45	hexachrome	hexachrome	Finished	6/29/2010 7:03:02 PM	1.0000	1.0000

GN39385
(2 of 2)

Sequence: 610063001
Operator: Chemistry

Title: NJCHMIC2_local
Location: Accutest2010\June
Timebase: accutest
#Samples: 34

Created: 6/30/2010 10:03:33 AM by Chemistry
Last Update: 6/30/2010 12:18:33 PM by Chemistry

No.	Name	Type	Pos.	Program	Method	Status	Inj. Date/Time	Weight	Dil. Factor
1	BLANKCONF	Unknown	1	hexachrome	hexachrome	Finished	6/30/2010 10:03:38 AM	1.0000	1.0000
2	STDA	Standard	2	hexachrome	hexachrome	Finished	6/30/2010 10:14:11 AM	1.0000	1.0000
3	STDB	Standard	3	hexachrome	hexachrome	Finished	6/30/2010 10:21:36 AM	1.0000	1.0000
4	STDC	Standard	4	hexachrome	hexachrome	Finished	6/30/2010 10:29:00 AM	1.0000	1.0000
5	STDD	Standard	5	hexachrome	hexachrome	Finished	6/30/2010 10:36:24 AM	1.0000	1.0000
6	STDE	Standard	6	hexachrome	hexachrome	Finished	6/30/2010 10:43:48 AM	1.0000	1.0000
7	CCV	Unknown	7	hexachrome	hexachrome	Finished	6/30/2010 10:51:12 AM	1.0000	1.0000
8	CCB	Unknown	8	hexachrome	hexachrome	Finished	6/30/2010 10:58:36 AM	1.0000	1.0000
9	GP54307-MB1CONF	Unknown	10	hexachrome	hexachrome	Finished	6/30/2010 11:06:00 AM	1.0000	1.0000
10	GP54307-B1CONF	Unknown	11	hexachrome	hexachrome	Finished	6/30/2010 11:13:25 AM	1.0000	4.0000
11	JA48997-12A	Unknown	26	hexachrome	hexachrome	Finished	6/30/2010 11:20:49 AM	1.0000	1.0000
12	JA48997-12A	Unknown	27	hexachrome	hexachrome	Finished	6/30/2010 11:28:13 AM	1.0000	1.0000
13	JA48997-13A	Unknown	28	hexachrome	hexachrome	Finished	6/30/2010 11:35:37 AM	1.0000	1.0000
14	JA48997-13A	Unknown	29	hexachrome	hexachrome	Finished	6/30/2010 11:43:01 AM	1.0000	1.0000
15	JA48997-16A	Unknown	30	hexachrome	hexachrome	Finished	6/30/2010 11:50:25 AM	1.0000	1.0000
16	JA48997-16A	Unknown	31	hexachrome	hexachrome	Finished	6/30/2010 11:57:50 AM	1.0000	1.0000
17	JA48997-17A	Unknown	32	hexachrome	hexachrome	Finished	6/30/2010 12:05:14 PM	1.0000	1.0000
18	JA48997-18A	Unknown	34	hexachrome	hexachrome	Finished	6/30/2010 12:12:38 PM	1.0000	1.0000
19	GP54307-S2	Unknown	36	hexachrome	hexachrome	Finished	6/30/2010 12:20:02 PM	1.0000	80.0000
20	GP54307-S2	Unknown	37	hexachrome	hexachrome	Finished	6/30/2010 12:27:27 PM	1.0000	80.0000
21	GP54307-S3	Unknown	38	hexachrome	hexachrome	Finished	6/30/2010 12:34:51 PM	1.0000	15.0000
22	GP54307-S3	Unknown	39	hexachrome	hexachrome	Finished	6/30/2010 12:42:15 PM	1.0000	15.0000
23	GP54307-S1	Unknown	40	hexachrome	hexachrome	Finished	6/30/2010 12:49:39 PM	1.0000	4.0000
24	GP54307-S1	Unknown	41	hexachrome	hexachrome	Finished	6/30/2010 12:57:04 PM	1.0000	4.0000
25	CCV	Unknown	42	hexachrome	hexachrome	Finished	6/30/2010 1:04:28 PM	1.0000	1.0000
26	CCB	Unknown	43	hexachrome	hexachrome	Finished	6/30/2010 1:11:52 PM	1.0000	1.0000
27	GP54307-PS1	Unknown	44	hexachrome	hexachrome	Finished	6/30/2010 1:19:16 PM	1.0000	4.0000

Sequence: 610063001
Operator: Chemistry

Title: NJCHM/C2_local
Location: Accutest\2010\June
Timebase: accutest
#Samples: 34

Created: 6/30/2010 10:03:33 AM by Chemistry
Last Update: 6/30/2010 12:18:33 PM by Chemistry

No.	Name	Type	Pos.	Program	Method	Status	Inj. Date/Time	Weight	Dil. Factor
28	GP54307-PS1	Unknown	45	hexachrome	hexachrome	Finished	6/30/2010 1:26:40 PM	1.0000	4.0000
29	JA48997-17A	Unknown	46	hexachrome	hexachrome	Finished	6/30/2010 1:34:05 PM	1.0000	5.0000
30	JA48997-17A	Unknown	46	hexachrome	hexachrome	Finished	6/30/2010 1:41:29 PM	1.0000	5.0000
31	JA48997-18A	Unknown	47	hexachrome	hexachrome	Finished	6/30/2010 1:48:53 PM	1.0000	5.0000
32	JA48997-18A	Unknown	47	hexachrome	hexachrome	Finished	6/30/2010 1:56:17 PM	1.0000	5.0000
33	CCV	Unknown	46	hexachrome	hexachrome	Finished	6/30/2010 2:03:42 PM	1.0000	1.0000
34	CCB	Unknown	47	hexachrome	hexachrome	Finished	6/30/2010 2:11:06 PM	1.0000	1.0000

GN39385

ACCUTEST LABS DAYTON, NJ **3060A/7199 POST-DIGEST SPIKE LEVEL CALCULATION SPREADSHEET**

NOTE: Always dilute post-spike first, then take a 20 ml aliquot of the diluted post-spike and add the spike amount.

Sample ID	PS Aliquot Weight in g Digested in 100 ml	Weight in 20 ml	Results in mg/kg.	Amount in ml to add of 100 ppm solution	Dilution needed	Suggested Dilution to use	Actual Dilution to be used	Suggested ml of 100 ppm to spike on dilution of sample.	Actual ml of 100 ppm to spike on dilution of sample.	Est. Read-back on curve in mg/l	Calculated Spike Amount in mg/kg	Use calculated or default spike?
		#VALUE!		#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
		#VALUE!		#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
		#VALUE!		#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
		#VALUE!		#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
		#VALUE!		#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
		#VALUE!		#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
		#VALUE!		#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
		#VALUE!		#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
		#VALUE!		#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
		#VALUE!		#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
		#VALUE!		#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
		#VALUE!		#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
		#VALUE!		#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
		#VALUE!		#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
		#VALUE!		#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
		#VALUE!		#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
		#VALUE!		#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
		#VALUE!		#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike

0.50 ml 10 ppm abs in 5 ml sample fv = 20 ml

3060A/7196A INSOLUBLE SPIKE CALCULATION

Weight of PbCrO4	Weight of Sample	Amount Spiked	To enter for 7199 in mg/l
0.0139	2.58	866.816	22.36386
0.0133	2.5	855.941	21.39851
		#DIV/0!	#DIV/0!
		#DIV/0!	#DIV/0!
		#VALUE!	#VALUE!
		#VALUE!	#VALUE!
		#VALUE!	#VALUE!
		#VALUE!	#VALUE!
		#VALUE!	#VALUE!
		#VALUE!	#VALUE!

S2 B2



ACCUTEST

Hexavalent Chromium pH Adjustment Log

Method: SW846 3060A/7199

pH adj. start time:

13:45

pH adj. end time:

14:53

Digestion Date:

6-25-10

pH adj. Date:

6/29/2010

GN Batch ID:

GN39385

Sample ID	Sample Weight in g	pH after HNO3	Final Volume (ml)	Spike Amounts	Comments
6P54307		9.32	100	5ml	5ppm Ultra
CCV				↓	
CCV					
CCV					
CCB		9.37	100		
CCB					
CCB					
CCB					
MS (Sol) JA48997-11A	2.58	9.43	100	1ml	100ppm Absolute
MS (Insol.) ↓	2.58	9.37		0.0139	PbCrO4
DUP ↓	2.49	9.26			
SB (Sol)		9.31		1ml	100ppm Absolute
SB (Insol)		9.43		0.0133	PbCrO4
MB		9.37			
1 JA48997-11A	2.55	9.37			
2 ↓	2.58	9.43		3.75ml	100ppm Absolute
3 JA48997-12A	2.55	9.36			
4 13	2.48	9.41			
5 16	2.53	9.48			
6 17	2.43	9.38			
7 ↓ 18	2.48	9.36			
8 PSI (11A)	2.55	9.37	√	100ml of 10ppm Absolute in 5ml sample + 20ml	
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
SB (Insol)					dilution
MS (Insol.)					dilution

Reagent Reference Information - refer to attached reagent reference information page(s).
 $(1000000 \text{ ug/g} \times \text{Insoluble spike wt(g)} \times 52/323.2) / \text{ms sample wt(g)} = \text{Insoluble spike amount of PbCrO}_4$

Form: GN-067A

87.7

GN39385



Hexavalent Chromium Digestion Temperature Log
Method: SW846 3060A

Record the temperature at the beginning, during, and at the end of each digestion.

Digestion Batch ID	Description	Time	Temp. in deg. C Hot Plate # 1	Temp. in deg. C Hot Plate # 2	Temp. in deg. C Hot Plate # 3	Temp. in deg. C Hot Plate # 4
915807	Starting Time	11 ~ 45		95		95
	Time 1	12 ~ 15		95		95
	Ending Time	12 ~ 45		95		95
	Starting Time					
	Time 1					
	Ending Time					
	Starting Time					
	Time 1					
	Ending Time					

Analyst: *Pr* Date: 6-25-10

Form: GN-074
Rev. Date: 5/8/06

GN 39241

Sample Homogenization Log

Accutest Sample ID	from bottle #	Homogenization Date	Initials	Sample Description (Soil, Sludge, etc.)	Homog. Device (blender, wand)	Comments
JX48997-15A	1	6-25-10	PR	brown soft sandy	spatula	
19A				reddish brown w/ stones		
↓ 19A				brown wet sandy		
JX48997-11A	1			red brown dry w/ stones		
12			PR	dry brown #1 root w/ st 6/25/10		red brown dry w/ stones
13				red brown w/ stones		
14				gray brown sandy		
17				↓		
↓ 18				↓		
JX48907-1A	1			dry brown w/ roots w/ stones		low velocity
3				dry dark grey w/ stones		↓
↓ 5						


ACCUTEST.

GN39385

 GN/GP Batch ID: GP 54306, 54307, 54308
Reagent Information Log - XCRA7199 (soil 3060A/7199)

<u>Reagent</u>	<u>Exp. Date</u>	<u>Reagent # or Manufacturer/Lot</u>
Calibration Source: Hexavalent Chromium, 1000 mg/L Stock	1/1/2013	Absolute Grade Lot # 012010
Calibration Checks: Hexavalent Chromium, 1000 mg/L Stock	7/31/2015	Ultra lot # J00509
Spiking Solution Source	1/1/2013	Absolute Grade Lot # 012010
Lead Chromate (Insoluble Hexavalent Chromium Spike)	NA	Sigma Aldrich Lot # 09921LC
Digestion Solution	7-18-10	6NE 6-25331 XCR
Magnesium Chloride, Anhydrous	NA	Alfa Aesar Lot # 102T070
Phosphate Buffer Solution	12-8-10	6NE 6-25212 XCR
5.0 M Nitric Acid	12/23/10	6NE 6-25364-XCRA
Post-Column Reagent (Diphenylcarbazide Solution)	7/3/2010	6NE 6-25398-1XCR
Eluent	12/14/10	6NE 6-25291-1XCR
Buffer Solution	12/22/2010	6NE 6-25350-1XCR
XCRA7199 Dilution Water	12/3/2010	6NE 6-25297-1XCR
Filter	NA	FO CA 84 866
Teflon Chips	NA	09/9/20
Digestate Dilution Solution	7/18/2010	6NE 6-25403-1XCR

 Form: GN087A-21
 Rev. Date: 2/18/10



Hexavalent Chromium pH Adjustment Log

Method: SW846 3060A/7199

pH adj. start time: 8:27

pH adjustment Date: 6/1/21 17:01

pH adj. end time: 8:30

GN Batch ID: GN39385

Sample ID	Sample Weight in g	pH after HNO3	Final Volume (ml)	Comments	Spike Info.
Calibration Blank	NA	9.21	180		
0.005 mg/l standard	NA	9.43	↓	1.00u Absolute	0.50 ml of 1.00 mg/l
0.050 mg/l standard	NA	9.28	↓	↓	5.00 ml of 1.00 mg/l
0.100 mg/l standard	NA	9.35	↓	10.00u Absolute	1.00 ml of 10.0 mg/l
0.500 mg/l standard	NA	9.33	↓	↓	5.0 ml of 10.0 mg/l

Reagent Reference Information - refer to attached reagent reference information page(s).
{1000000 ug/g x Insoluble spike wt(g) x 52/323.2}/ms sample wt(g) = Insoluble spike amount of PbCrO4



GENERAL CHEMISTRY STANDARD PREPARATION LOG

Product: XCR A 7199 (301)
GN or GP Number: 639385

Intermediate Standard Description	Stock used to prepare standard	Stock concentration	Stock volume or weight used with units	Balance or Autopipet ID (*)	Diluent	Final Volume	Final Conc. of Intermediate (mg/l)	Expiration Date	Analyst	Date
10.0 mg/L Absolute	Absolute 012010	1000 mg/L	1.0 mL	A	Dilution	100 mL	10.0 mg/L	1/20/2013		1/20/13
1.0 mg/L Absolute	10.0 mg/L Absolute	10.0 mg/L	10.0 mL	A	Water	100 mL	1.0 mg/L	1/20/2013		
5.0 mg/L Ultra	Ultra J00509	1000 mg/L	1.0 mL	A	DH2O	200 mL	5.0 mg/L	7/31/2015		
Standard Description	Intermediate or Stock used to prepare standard	Intermediate or Stock concentration	Intermediate or Stock volume used in ml	Balance or Autopipet ID (*)	Diluent	Final Volume	Final Conc. of Standard (mg/l)	Expiration Date	Analyst	Date
0.005 mg/L	1.0 mg/L Absolute	1.0 mg/L	0.50 mL	A	Digestion	100 mL	0.005	1/20/13		1/20/13
0.050 mg/L	1.0 mg/L Absolute	1.0 mg/L	5.0 mL	A	solution	100 mL	0.05			
0.100 mg/L	10 mg/L Absolute	10.0 mg/L	1.0 mL	A	and DI	100 mL	0.1			
0.500 mg/L	10 mg/L Absolute	10.0 mg/L	5.0 mL	A	Water	100 mL	0.5			

* If Class A glass pipets are used, enter an A. For balances or autopipets, then enter the appropriate Accutest ID number.

Form: GN121-01
Rev. Date: 1/13/09





ACCUTEST

Hexavalent Chromium pH Adjustment Log

Method: SW846 3060A/7199

pH adj. start time:

9:50

pH adjustment Date:

6/30/10

pH adj. end time:

9:55

GN Batch ID:

GN39385

Sample ID	Sample Weight in g	pH after HNO ₃	Final Volume (ml)	Comments	Spike Info.
Calibration Blank	NA	9.45	100		
0.005 mg/l standard	NA	9.42		1ppm Abs	0.50 ml of 1.00 mg/l
0.050 mg/l standard	NA	9.34		↓	5.00 ml of 1.00 mg/l
0.100 mg/l standard	NA	9.46		10ppm Abs	1.00 ml of 10.0 mg/l
0.500 mg/l standard	NA	9.46		↓	5.0 ml of 10.0 mg/l

Reagent Reference Information - refer to attached reagent reference information page(s).
 $(1000000 \text{ ug/g} \times \text{Insoluble spike wt(g)} \times 52/323.2) / \text{ms sample wt(g)} = \text{Insoluble spike amount of PbCrO}_4$

Form: GN-068A
 Rev. Date: 05/08/06

6.5
6



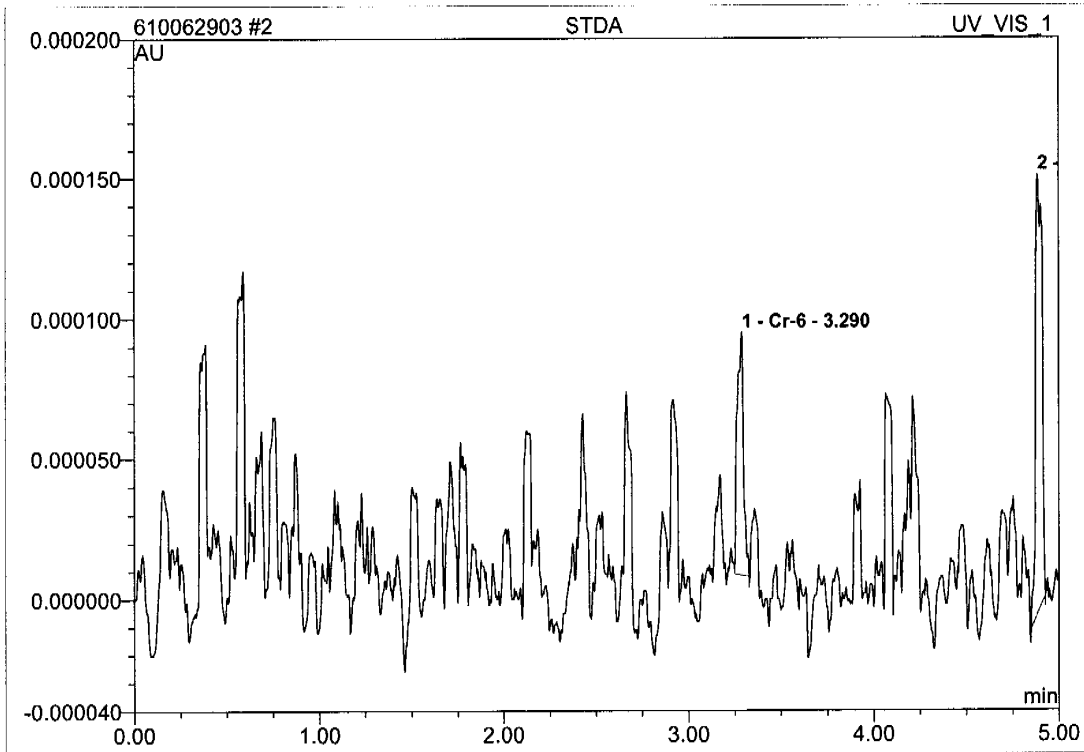
GENERAL CHEMISTRY STANDARD PREPARATION LOG

Product: ~~XLR-7199 (soil)~~
 GN or GP Number: 639385

Intermediate Standard Description	Stock used to prepare standard	Stock concentration	Stock volume or weight used with units	Balance or Autopipet ID (*)	Diluent	Final Volume	Final Conc. of Intermediate (mg/l)	Expiration Date	Analyst	Date
10.0 mg/L Absolute	Absolute 012010	1000 mg/L	1.0 mL	A	Dilution	100 mL	10.0 mg/L	1/20/2013	AS	6/20/10
1.0 mg/L Absolute	10.0 mg/L Absolute	10.0 mg/L	10.0 mL	A	Water	100 mL	1.0 mg/L	1/20/2013		
5.0 mg/L Ultra	Ultra J00509	1000 mg/L	1.0 mL	A	DI H2O	200 mL	5.0 mg/L	7/31/2015		
Standard Description	Intermediate or Stock used to prepare standard	Intermediate or Stock concentration	Intermediate or Stock volume used in ml	Balance or Autopipet ID (*)	Diluent	Final Volume	Final Conc. of Standard (mg/l)	Expiration Date	Analyst	Date
0.005 mg/L	1.0 mg/L Absolute	1.0 mg/L	0.50 mL	A	Digestion	100 mL	0.005	6/30/10	AS	6/30/10
0.050 mg/L	1.0 mg/L Absolute	1.0 mg/L	5.0 mL	A	solution	100 mL	0.05			
0.100 mg/L	10 mg/L Absolute	10.0 mg/L	1.0 mL	A	and DI	100 mL	0.1			
0.500 mg/L	10 mg/L Absolute	10.0 mg/L	5.0 mL	A	Water	100 mL	0.5			

* If Class A glass pipets are used, enter an A. For balances or autopipets, then enter the appropriate Accutest ID number.

2 STDA			
Sample Name:	STDA	Injection Volume:	25.0
Vial Number:	2	Channel:	UV_VIS_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 8:44	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

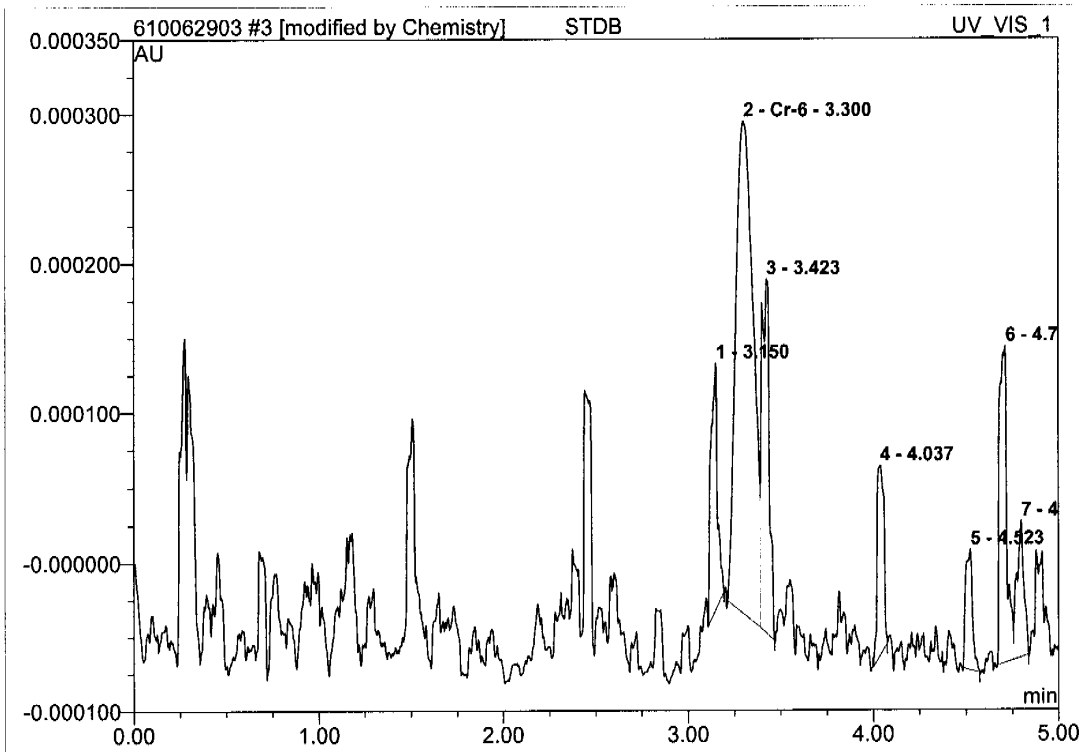


No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.29	Cr-6	0.000	0.000	34.65	0.0012	BMB
2	4.89	n.a.	0.000	0.000	65.35	n.a.	BMB
Total:			0.000	0.000	100.00	0.001	

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

3 STDB			
Sample Name:	STDB	Injection Volume:	25.0
Vial Number:	3	Channel:	UV_VIS_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 8:51	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

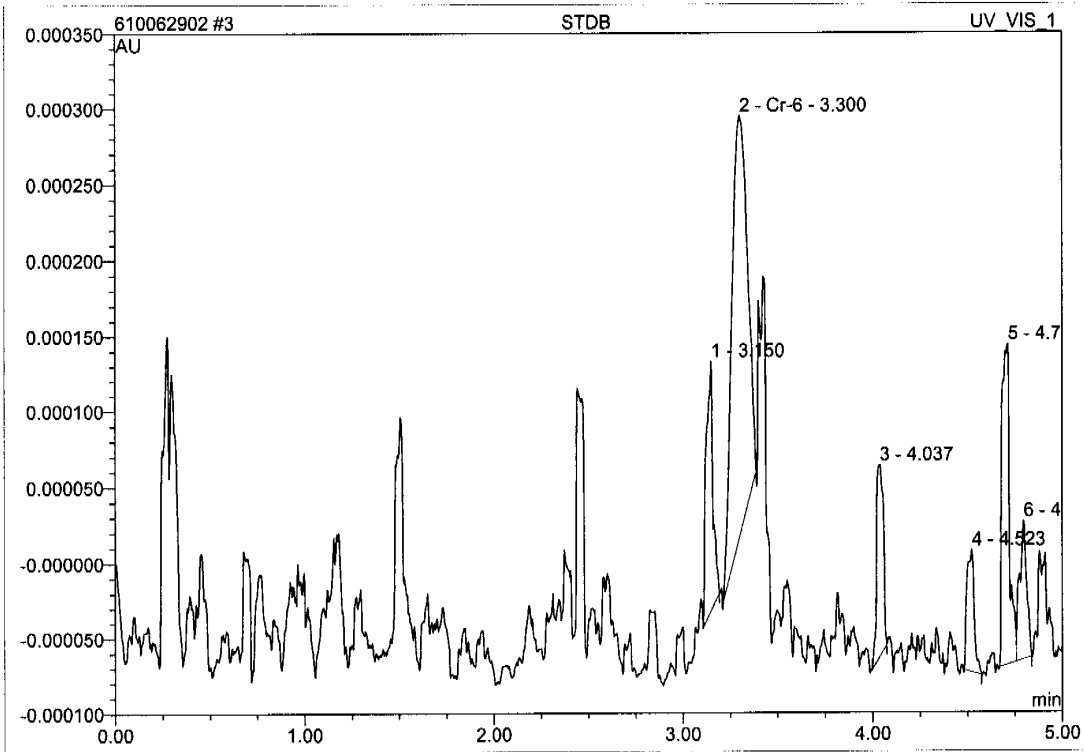


No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.15	n.a.	0.000	0.000	8.97	n.a.	BMB
2	3.30	Cr-6	0.000	0.000	46.86	0.0049	BM *
3	3.42	n.a.	0.000	0.000	14.64	n.a.	MB*
4	4.04	n.a.	0.000	0.000	6.85	n.a.	BMB
5	4.52	n.a.	0.000	0.000	4.61	n.a.	BMB
6	4.71	n.a.	0.000	0.000	12.82	n.a.	BM
7	4.80	n.a.	0.000	0.000	5.25	n.a.	MB
Total:			0.001	0.000	100.00	0.005	

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

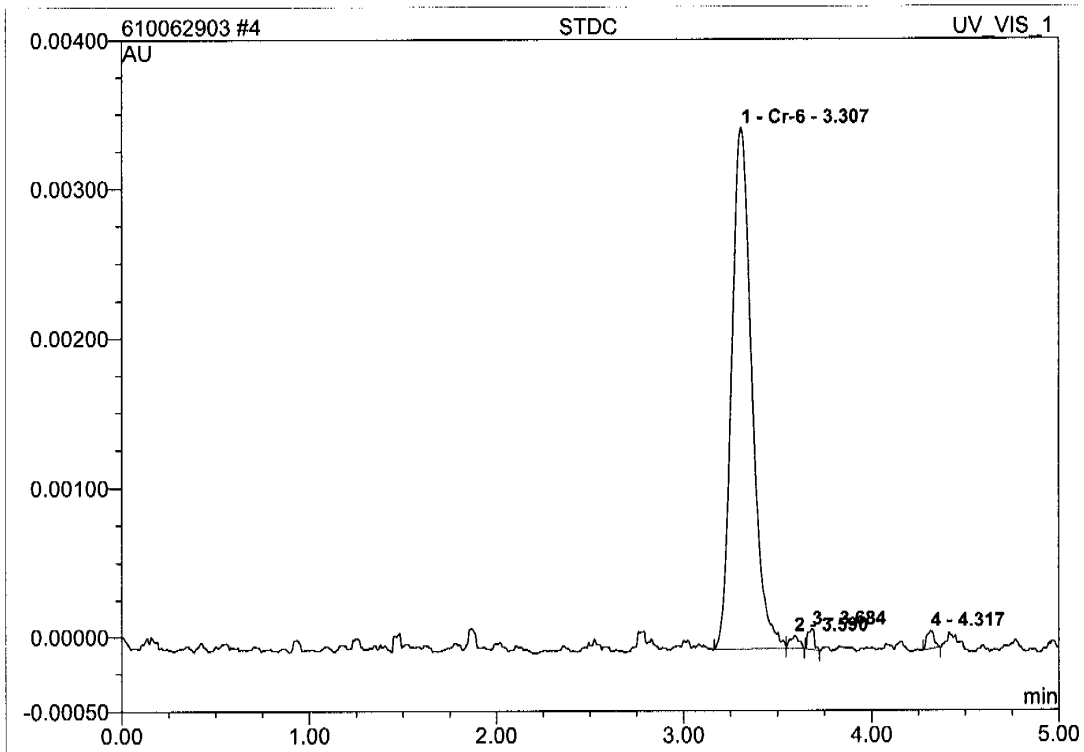
3 STDB			
Sample Name:	STDB	Injection Volume:	25.0
Vial Number:	3	Channel:	UV_VIS_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 8:51	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.15	n.a.	0.000	0.000	12.26	n.a.	BMB
2	3.30	Cr-6	0.000	0.000	47.39	0.0041	BMB
3	4.04	n.a.	0.000	0.000	9.36	n.a.	BMB
4	4.52	n.a.	0.000	0.000	6.30	n.a.	BMB
5	4.71	n.a.	0.000	0.000	17.51	n.a.	BM
6	4.80	n.a.	0.000	0.000	7.17	n.a.	MB
Total:			0.001	0.000	100.00	0.004	

df 30 6/29/2010

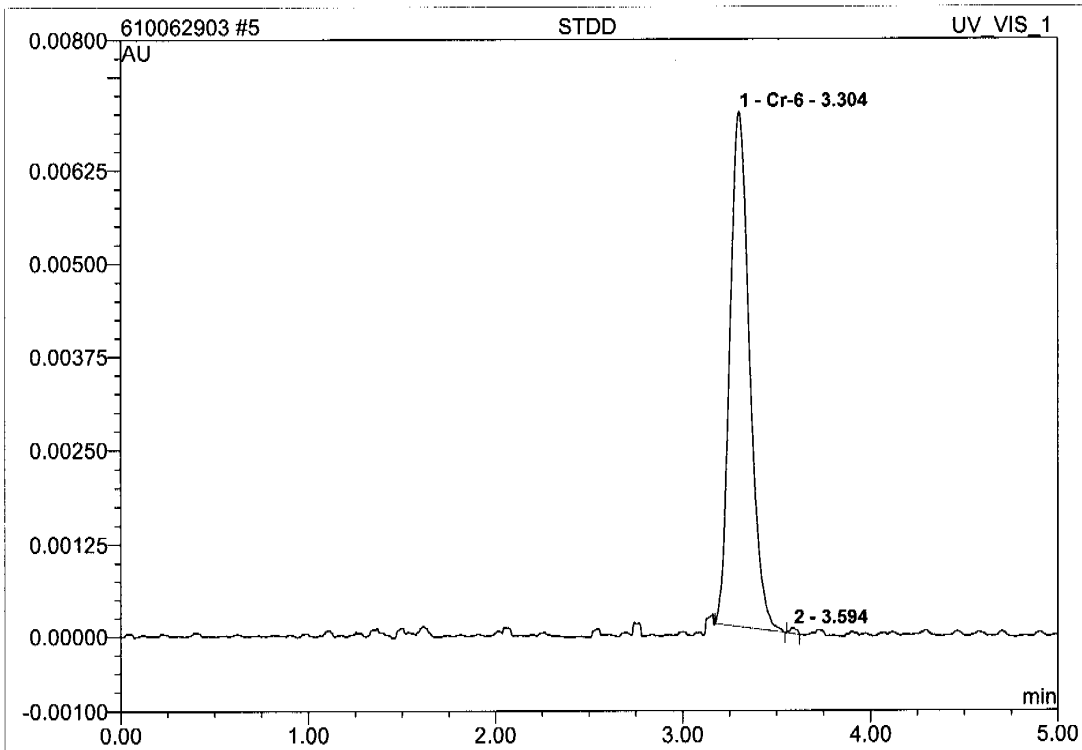
4 STDC			
Sample Name:	STDC	Injection Volume:	25.0
Vial Number:	4	Channel:	UV_VIS_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 8:59	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.31	Cr-6	0.003	0.000	96.40	0.0509	BM
2	3.59	n.a.	0.000	0.000	1.10	n.a.	MB
3	3.68	n.a.	0.000	0.000	1.27	n.a.	BMB
4	4.32	n.a.	0.000	0.000	1.23	n.a.	BMB
Total:			0.004	0.000	100.00	0.051	

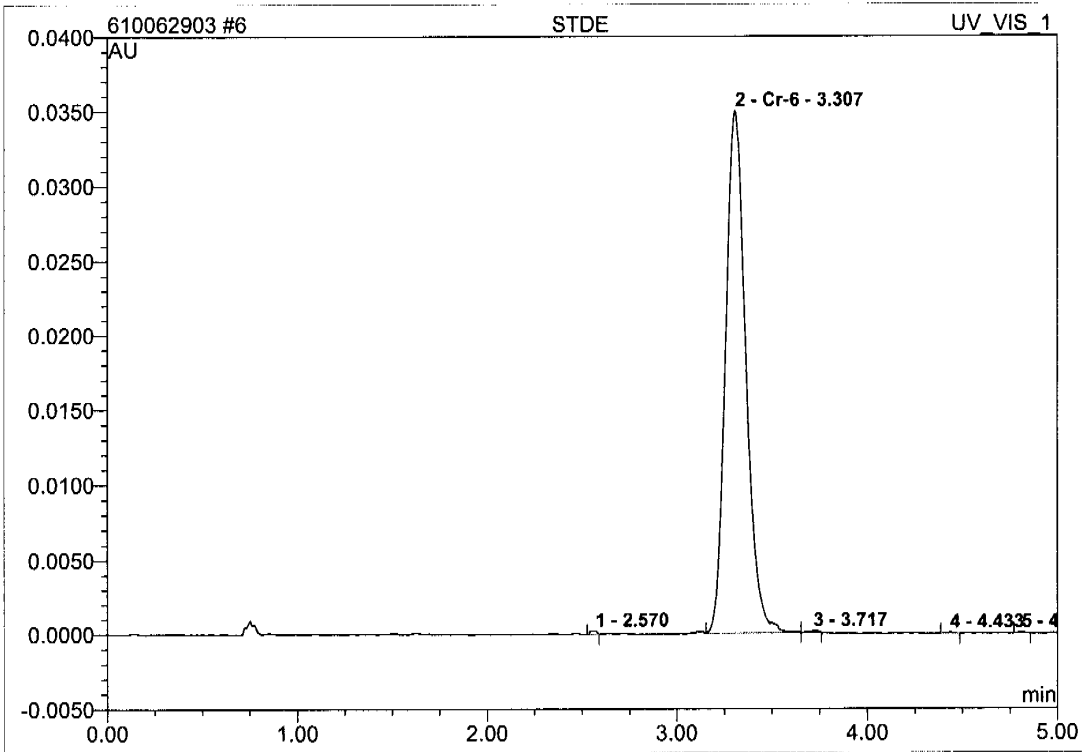
5 STDD

Sample Name:	STDD	Injection Volume:	25.0
Vial Number:	5	Channel:	UV_VIS_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 9:06	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.30	Cr-6	0.007	0.001	99.61	0.0976	BMB
2	3.59	n.a.	0.000	0.000	0.39	n.a.	BMB
Total:			0.007	0.001	100.00	0.098	

6 STDE			
Sample Name:	STDE	Injection Volume:	25.0
Vial Number:	6	Channel:	UV_VIS_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 9:14	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

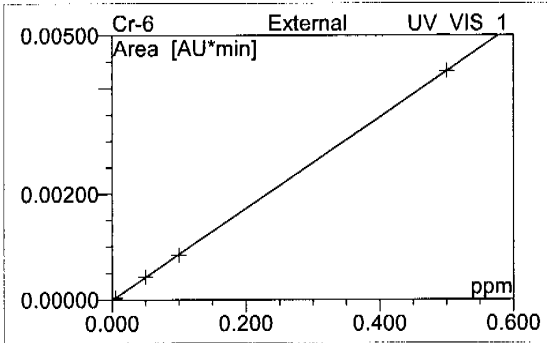
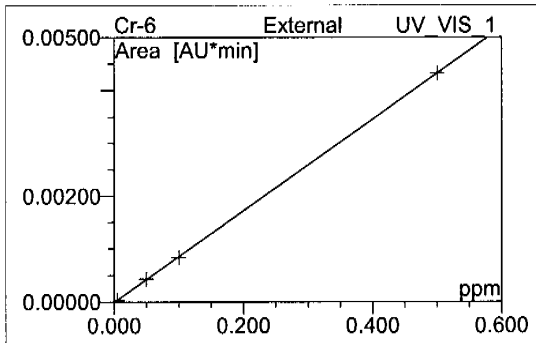
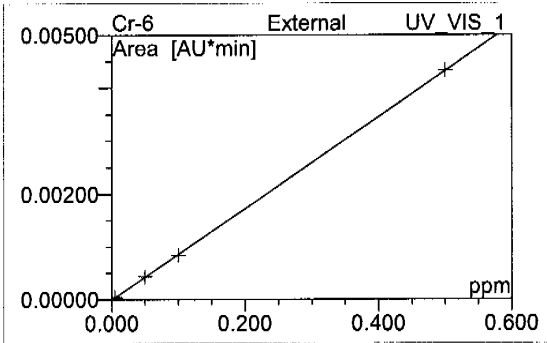
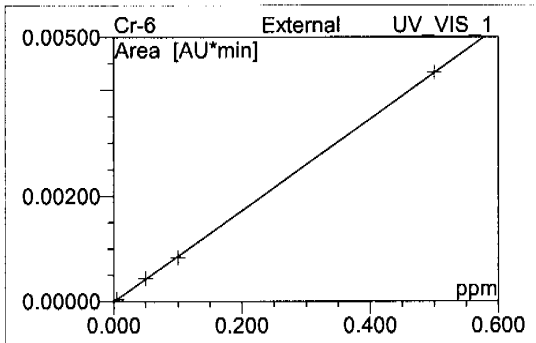


No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.57	n.a.	0.000	0.000	0.20	n.a.	BMB
2	3.31	Cr-6	0.035	0.004	99.43	0.5004	BM
3	3.72	n.a.	0.000	0.000	0.22	n.a.	MB
4	4.43	n.a.	0.000	0.000	0.07	n.a.	BMB
5	4.81	n.a.	0.000	0.000	0.07	n.a.	BMB
Total:			0.035	0.004	100.00	0.500	

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

6 STDE			
Sample Name:	STDE	Injection Volume:	25.0
Vial Number:	6	Channel:	UV_VIS_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 9:14	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

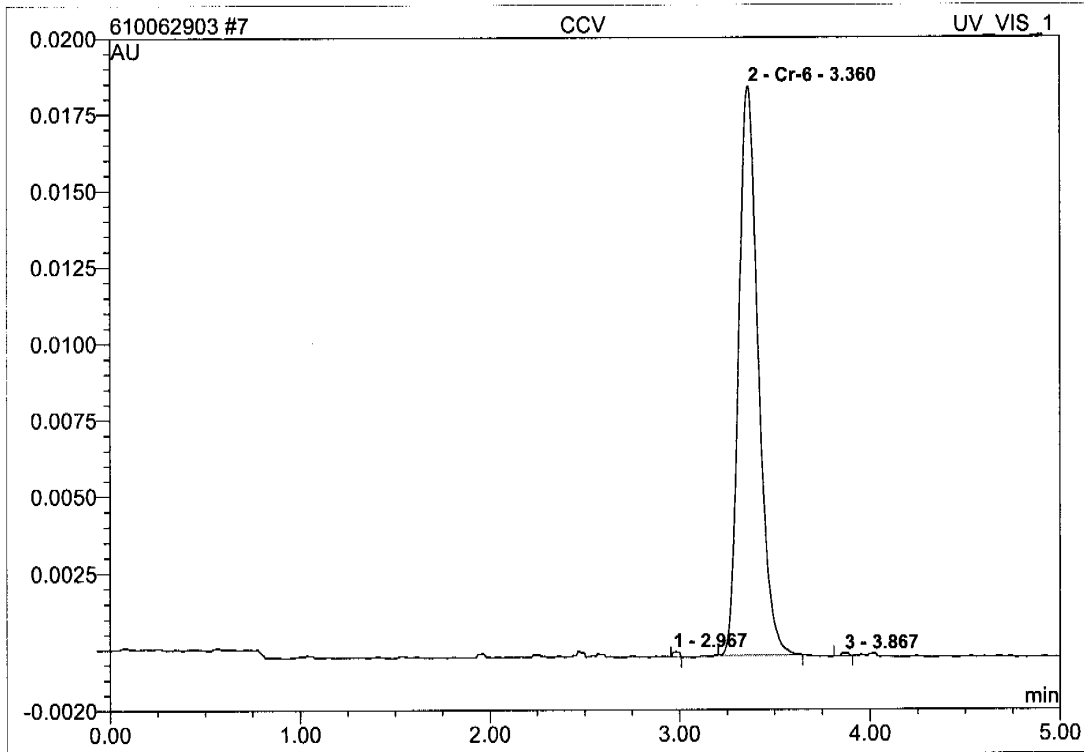


No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	2.57	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	3.31	Cr-6	LOff	5	99.9954	0.0000	0.0087	0.0000
3	3.72	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	4.43	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	4.81	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Average:					99.9954	0.0000	0.0087	0.0000

hexachrome/Calibration(Batch)

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

7 CCV			
Sample Name:	CCV	Injection Volume:	25.0
Vial Number:	7	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 14:21	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

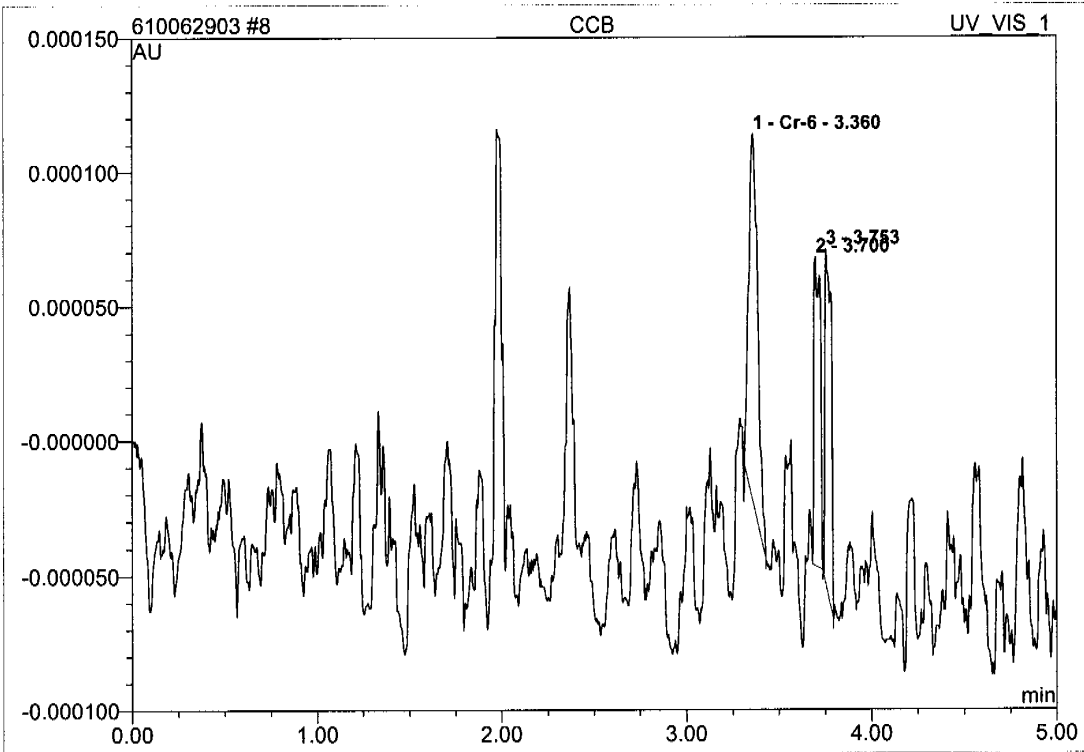


No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.97	n.a.	0.000	0.000	0.32	n.a.	BMB
2	3.36	Cr-6	0.019	0.002	99.48	0.2564	BMB
3	3.87	n.a.	0.000	0.000	0.19	n.a.	BMB
Total:			0.019	0.002	100.00	0.256	

hexachrome/Integration

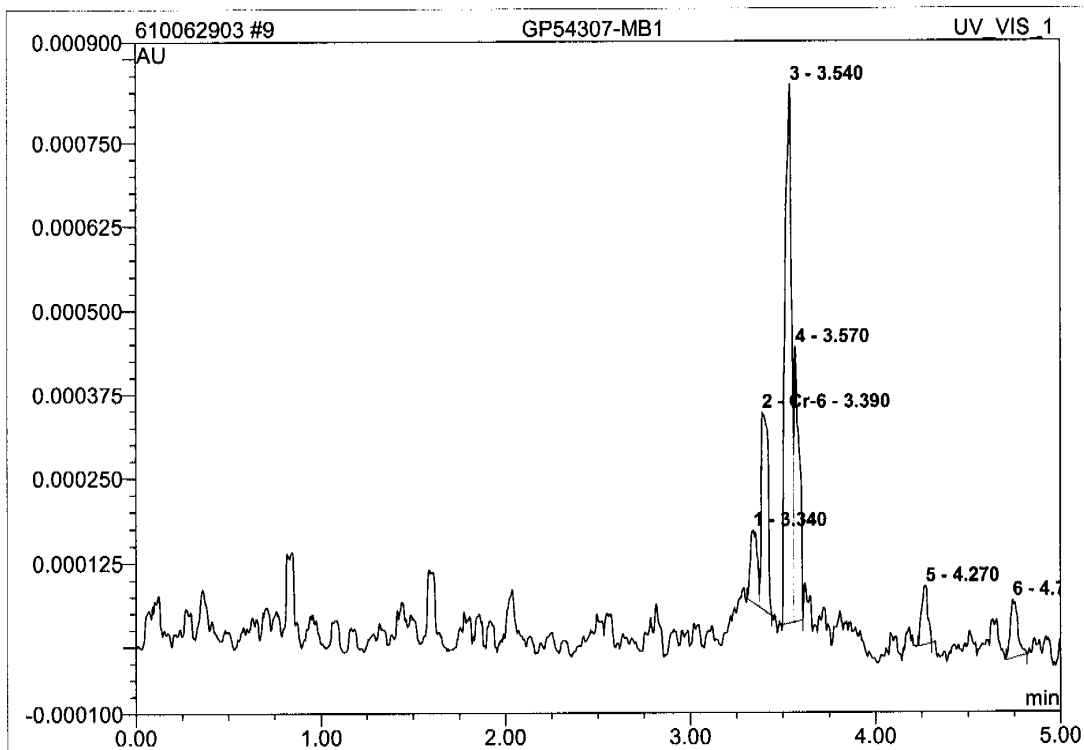
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8 CCB			
Sample Name:	CCB	Injection Volume:	25.0
Vial Number:	8	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 14:29	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.36	Cr-6	0.000	0.000	45.59	0.0017	BMB
2	3.70	n.a.	0.000	0.000	25.93	n.a.	BMB
3	3.75	n.a.	0.000	0.000	28.47	n.a.	BMB
Total:			0.000	0.000	100.00	0.002	

9 GP54307-MB1			
Sample Name:	GP54307-MB1	Injection Volume:	25.0
Vial Number:	9	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 14:36	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



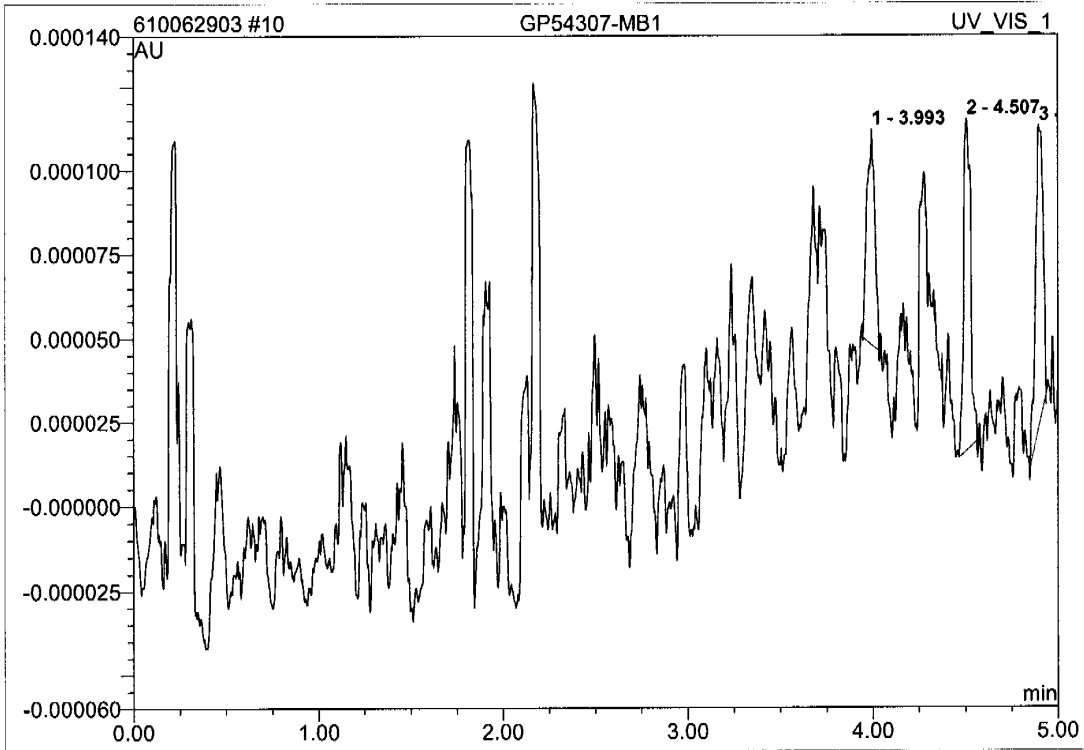
No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.34	n.a.	0.000	0.000	6.71	n.a.	BM
2	3.39	Cr-6	0.000	0.000	17.57	0.0022	MB
3	3.54	n.a.	0.001	0.000	45.83	n.a.	BM
4	3.57	n.a.	0.000	0.000	19.07	n.a.	MB
5	4.27	n.a.	0.000	0.000	4.98	n.a.	BMB
6	4.74	n.a.	0.000	0.000	5.83	n.a.	BMB
Total:			0.002	0.000	100.00	0.002	

hexachrome/Integration

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6

10 GP54307-MB1			
Sample Name:	GP54307-MB1	Injection Volume:	25.0
Vial Number:	10	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 14:43	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

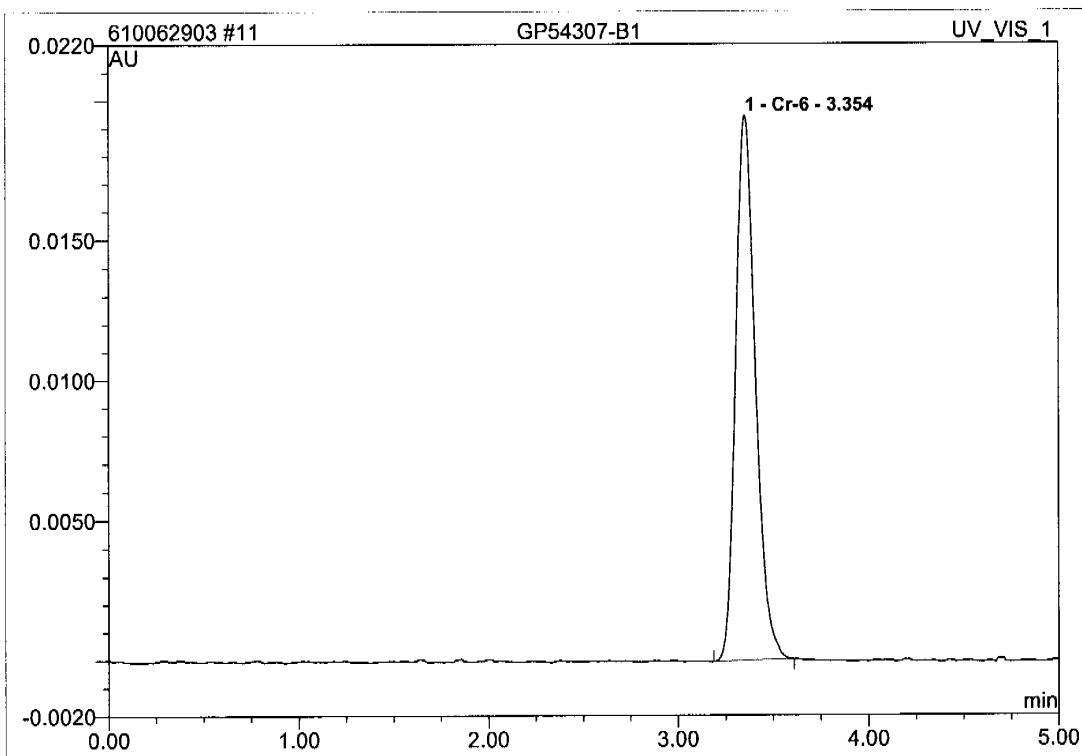


No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.99	n.a.	0.000	0.000	26.57	n.a.	BMB
2	4.51	n.a.	0.000	0.000	37.69	n.a.	BMB
3	4.90	n.a.	0.000	0.000	35.74	n.a.	BMB
Total:			0.000	0.000	100.00	0.000	

hexachrome/Integration

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11 GP54307-B1			
Sample Name:	GP54307-B1	Injection Volume:	25.0
Vial Number:	11	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	4.0000
Recording Time:	6/29/2010 14:51	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



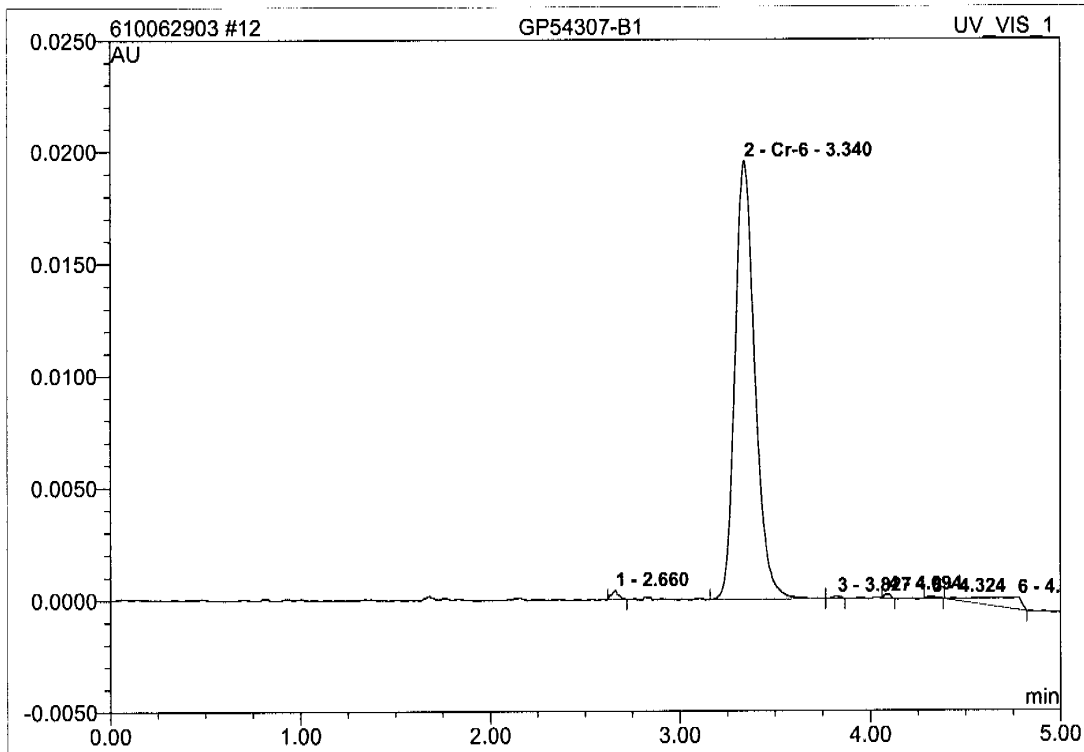
No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.35	Cr-6	0.019	0.002	100.00	1.0900	BMB
Total:			0.019	0.002	100.00	1.090	

hexachrome/Integration

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6

12 GP54307-B1			
Sample Name:	GP54307-B1	Injection Volume:	25.0
Vial Number:	12	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	4.0000
Recording Time:	6/29/2010 14:58	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



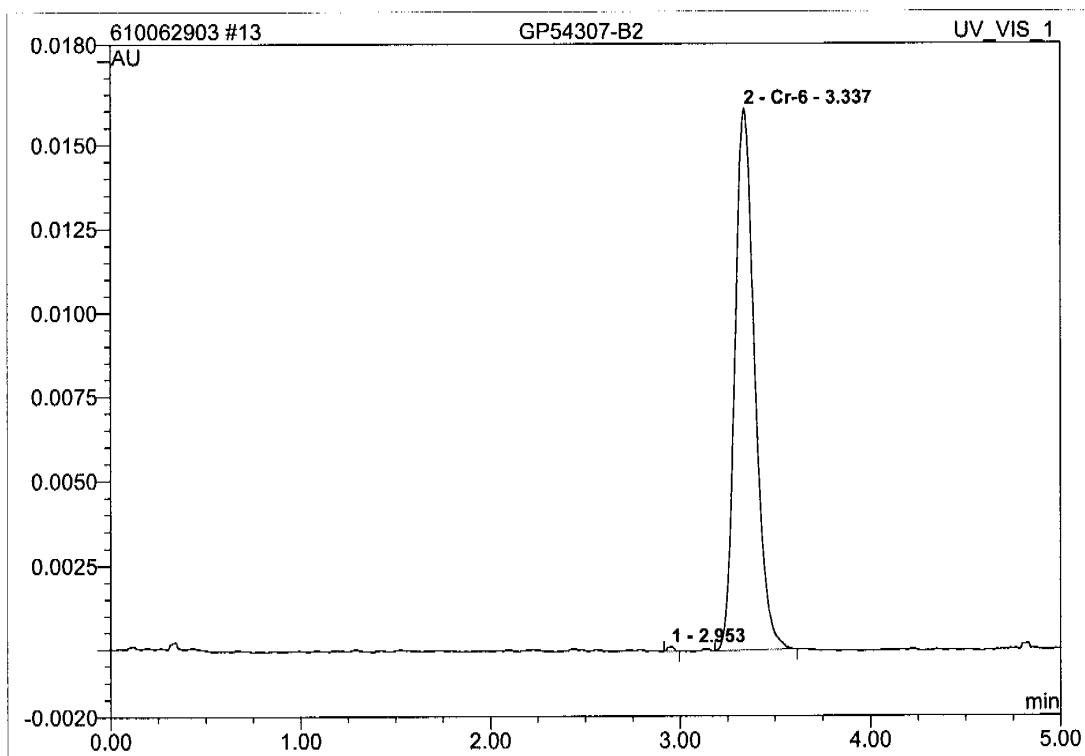
No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.66	n.a.	0.000	0.000	0.69	n.a.	BMB
2	3.34	Cr-6	0.020	0.002	93.86	1.0980	BM
3	3.83	n.a.	0.000	0.000	0.20	n.a.	MB
4	4.09	n.a.	0.000	0.000	0.30	n.a.	BMB
5	4.32	n.a.	0.000	0.000	0.22	n.a.	BMB
6	4.77	n.a.	0.001	0.000	4.73	n.a.	BMB
Total:			0.021	0.003	100.00	1.098	

hexachrome/Integration

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13 GP54307-B2

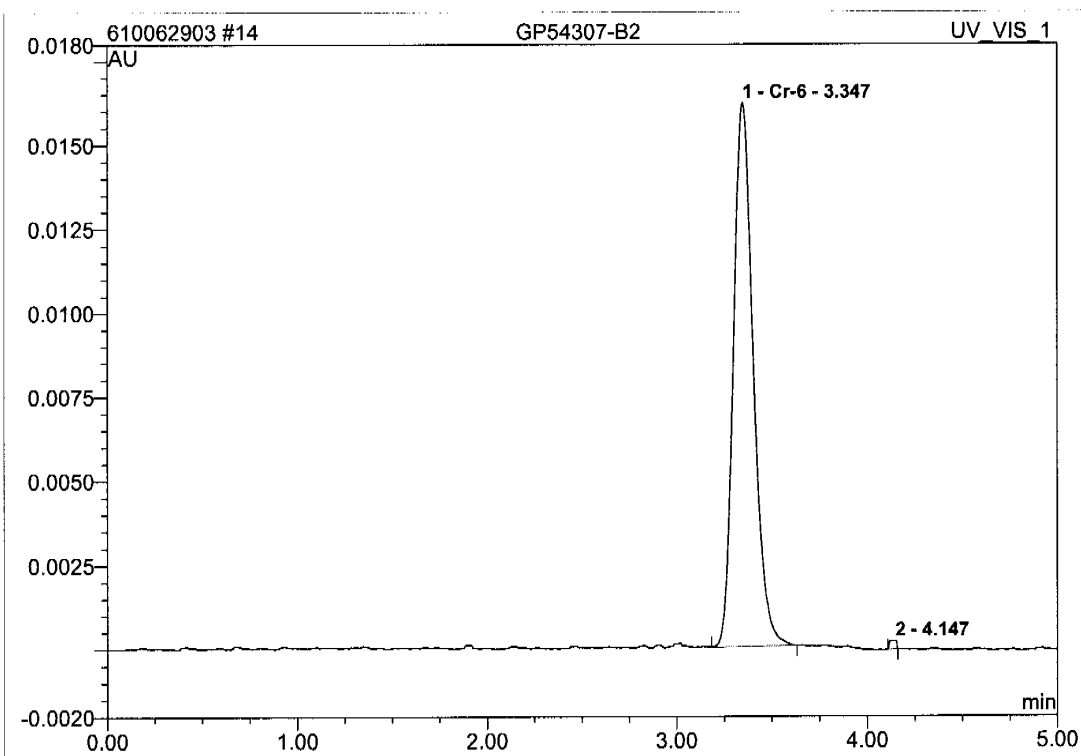
Sample Name:	GP54307-B2	Injection Volume:	25.0
Vial Number:	13	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	90.0000
Recording Time:	6/29/2010 15:06	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.95	n.a.	0.000	0.000	0.30	n.a.	BMB
2	3.34	Cr-6	0.016	0.002	99.70	20.2164	BMB
Total:			0.016	0.002	100.00	20.216	

14 GP54307-B2

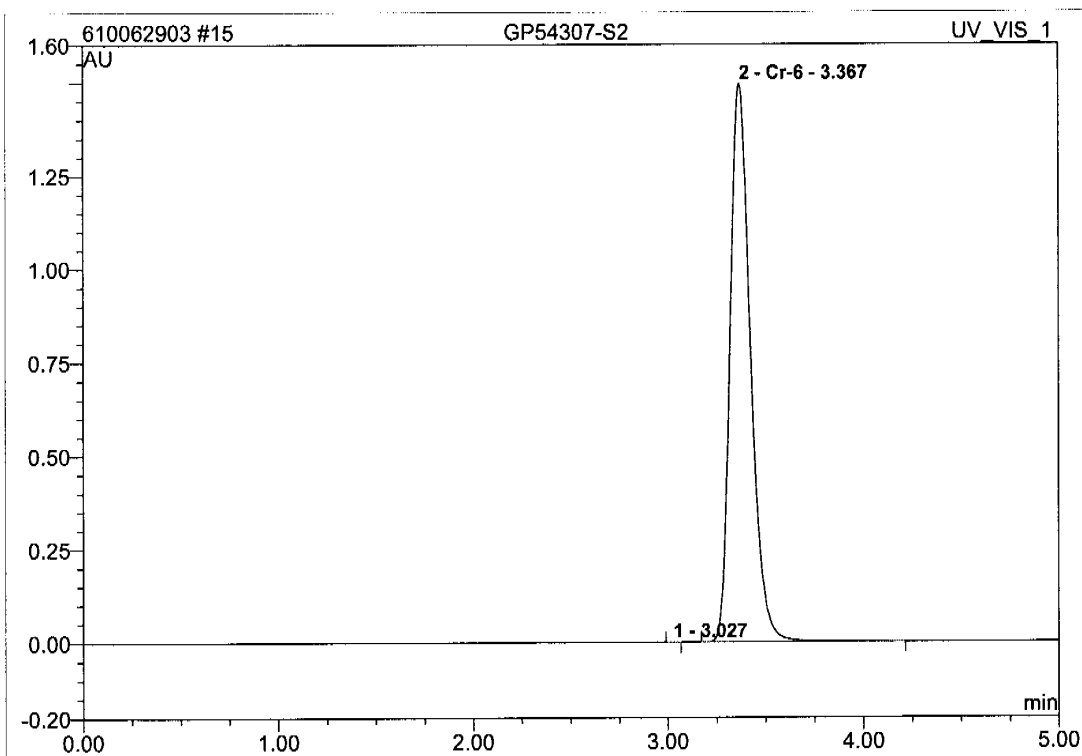
Sample Name:	GP54307-B2	Injection Volume:	25.0
Vial Number:	14	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	90.0000
Recording Time:	6/29/2010 15:13	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.35	Cr-6	0.016	0.002	99.45	20.3602	BMB
2	4.15	n.a.	0.000	0.000	0.55	n.a.	BMB
Total:			0.016	0.002	100.00	20.360	

15 GP54307-S2

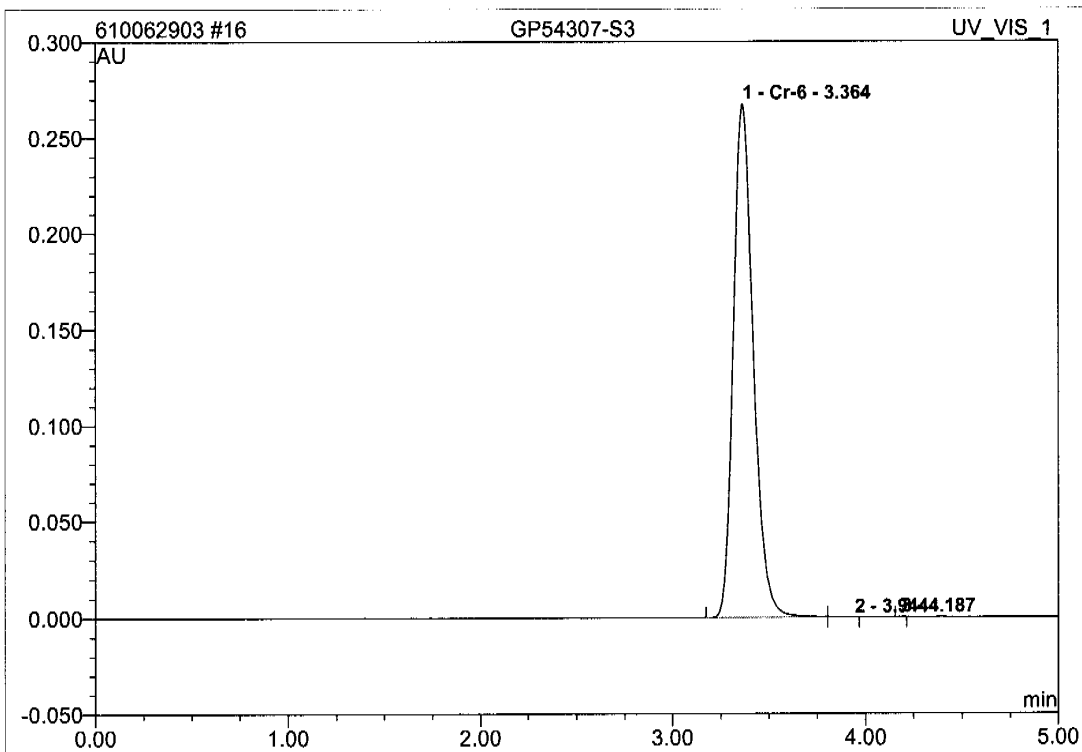
Sample Name:	GP54307-S2	Injection Volume:	25.0
Vial Number:	15	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 15:20	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.03	n.a.	0.000	0.000	0.00	n.a.	BMB
2	3.37	Cr-6	1.495	0.181	100.00	20.8723	BMB
Total:			1.495	0.181	100.00	20.872	

16 GP54307-S3

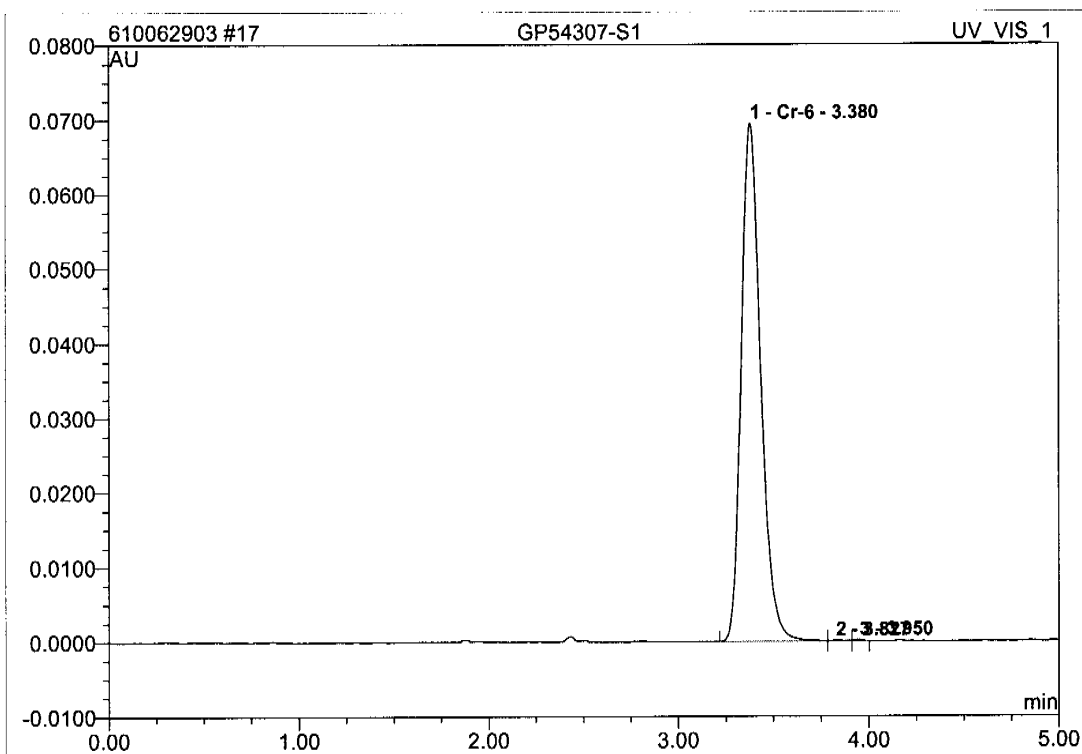
Sample Name:	GP54307-S3	Injection Volume:	25.0
Vial Number:	16	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 15:28	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.36	Cr-6	0.268	0.032	99.97	3.6958	BM
2	3.94	n.a.	0.000	0.000	0.01	n.a.	MB
3	4.19	n.a.	0.000	0.000	0.01	n.a.	BMB
Total:			0.268	0.032	100.00	3.696	

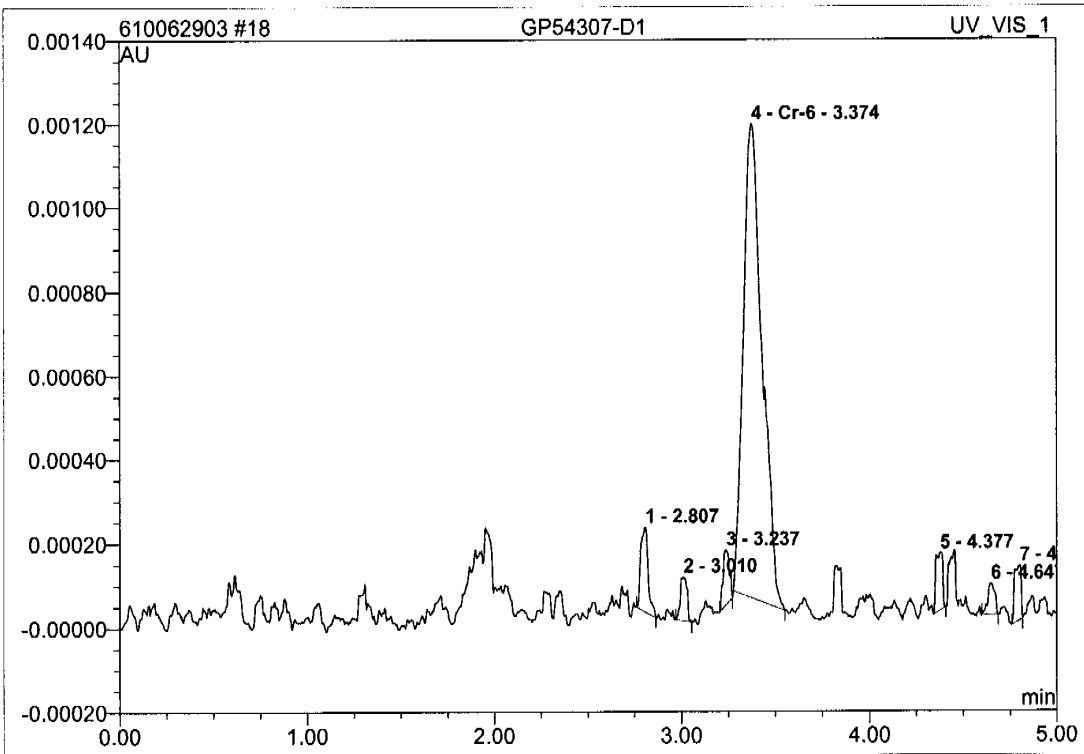
17 GP54307-S1

Sample Name:	GP54307-S1	Injection Volume:	25.0
Vial Number:	17	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 15:35	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.38	Cr-6	0.069	0.008	99.77	0.9537	BM
2	3.83	n.a.	0.000	0.000	0.12	n.a.	M
3	3.95	n.a.	0.000	0.000	0.11	n.a.	MB
Total:			0.070	0.008	100.00	0.954	

18 GP54307-D1			
Sample Name:	GP54307-D1	Injection Volume:	25.0
Vial Number:	18	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 15:43	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



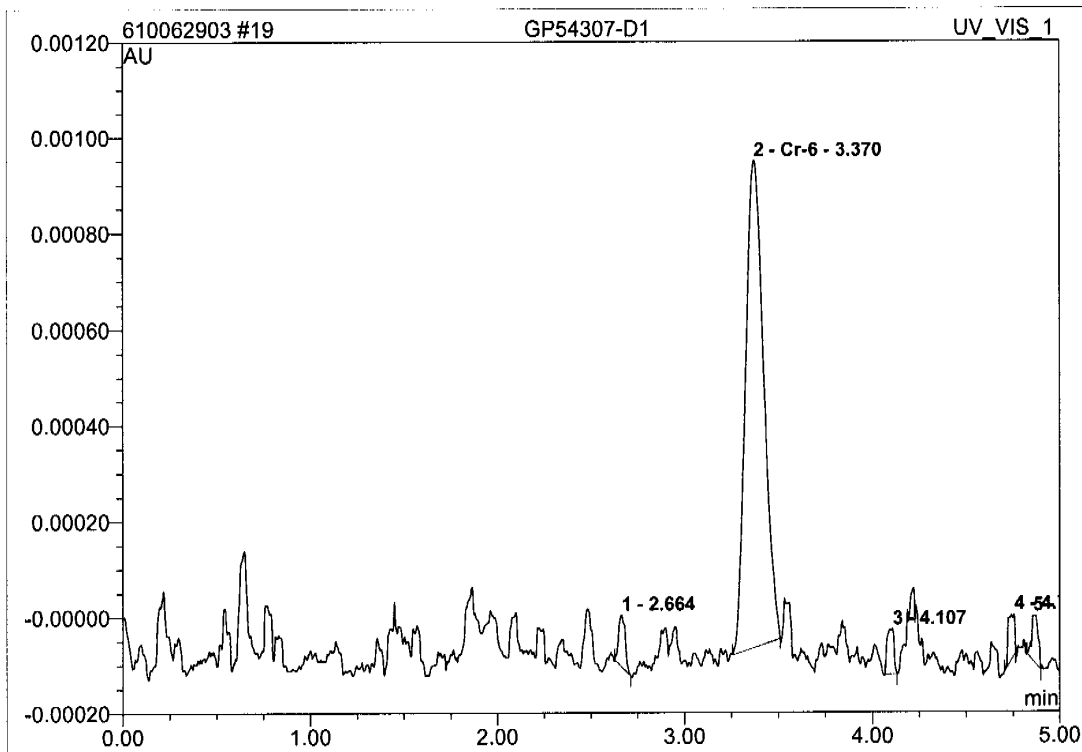
No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.81	n.a.	0.000	0.000	5.56	n.a.	BMB
2	3.01	n.a.	0.000	0.000	2.69	n.a.	BMB
3	3.24	n.a.	0.000	0.000	3.12	n.a.	BMB
4	3.37	Cr-6	0.001	0.000	80.10	0.0159	BMB
5	4.38	n.a.	0.000	0.000	3.40	n.a.	BMB
6	4.65	n.a.	0.000	0.000	1.90	n.a.	BMB
7	4.80	n.a.	0.000	0.000	3.23	n.a.	BMB
Total:			0.002	0.000	100.00	0.016	

hexachrome/Integration

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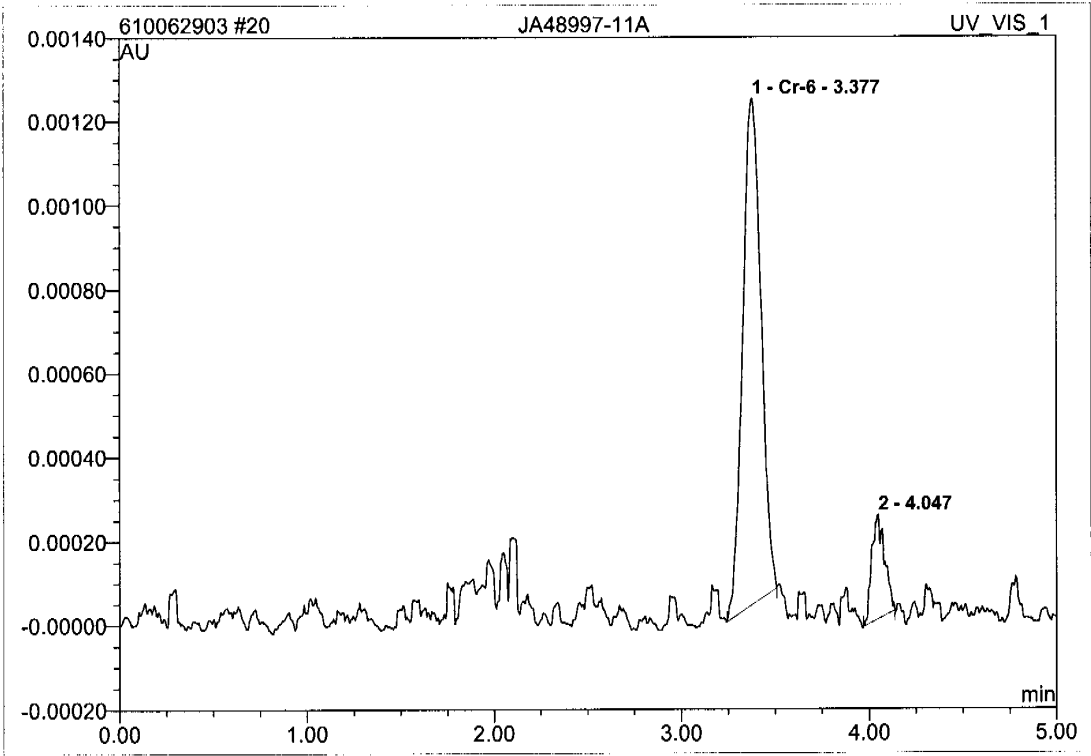
19 GP54307-D1

Sample Name:	GP54307-D1	Injection Volume:	25.0
Vial Number:	19	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 15:50	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.66	n.a.	0.000	0.000	3.41	n.a.	BMB
2	3.37	Cr-6	0.001	0.000	87.57	0.0139	BMB
3	4.11	n.a.	0.000	0.000	2.99	n.a.	BMB
4	4.76	n.a.	0.000	0.000	2.93	n.a.	BMB
5	4.86	n.a.	0.000	0.000	3.10	n.a.	BMB
Total:			0.001	0.000	100.00	0.014	

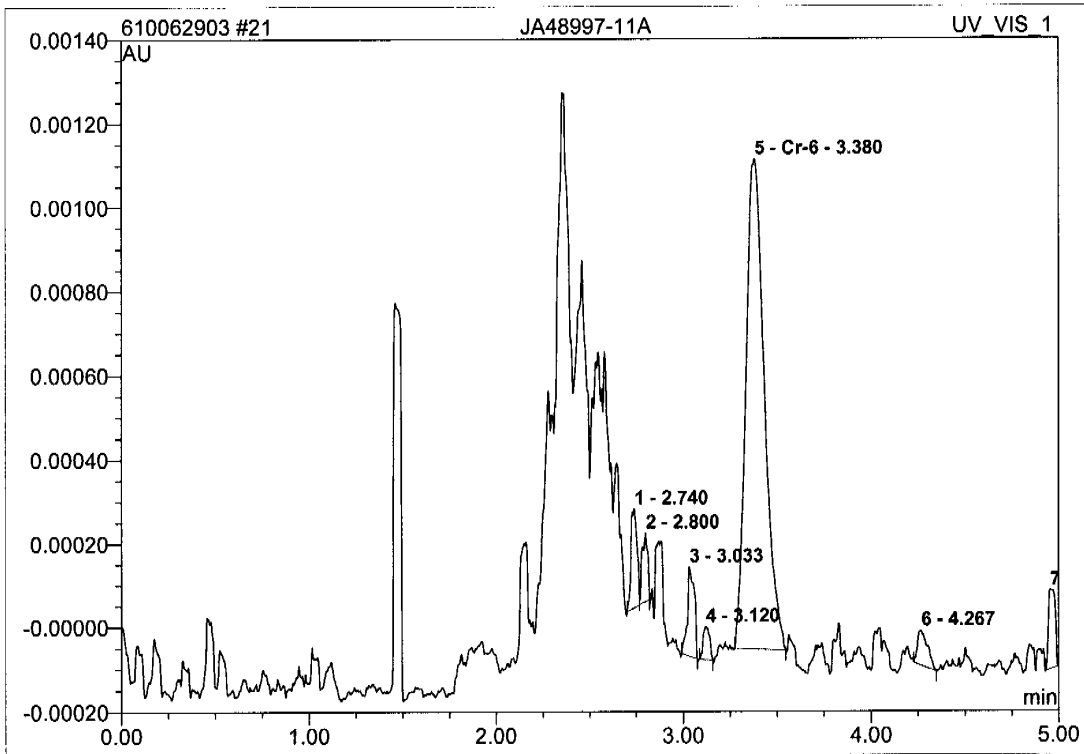
20 JA48997-11A			
Sample Name:	JA48997-11A	Injection Volume:	25.0
Vial Number:	20	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 15:57	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.38	Cr-6	0.001	0.000	87.45	0.0166	BMB
2	4.05	n.a.	0.000	0.000	12.55	n.a.	BMB
Total:			0.001	0.000	100.00	0.017	

6.5
6

21 JA48997-11A			
Sample Name:	JA48997-11A	Injection Volume:	25.0
Vial Number:	21	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 16:05	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

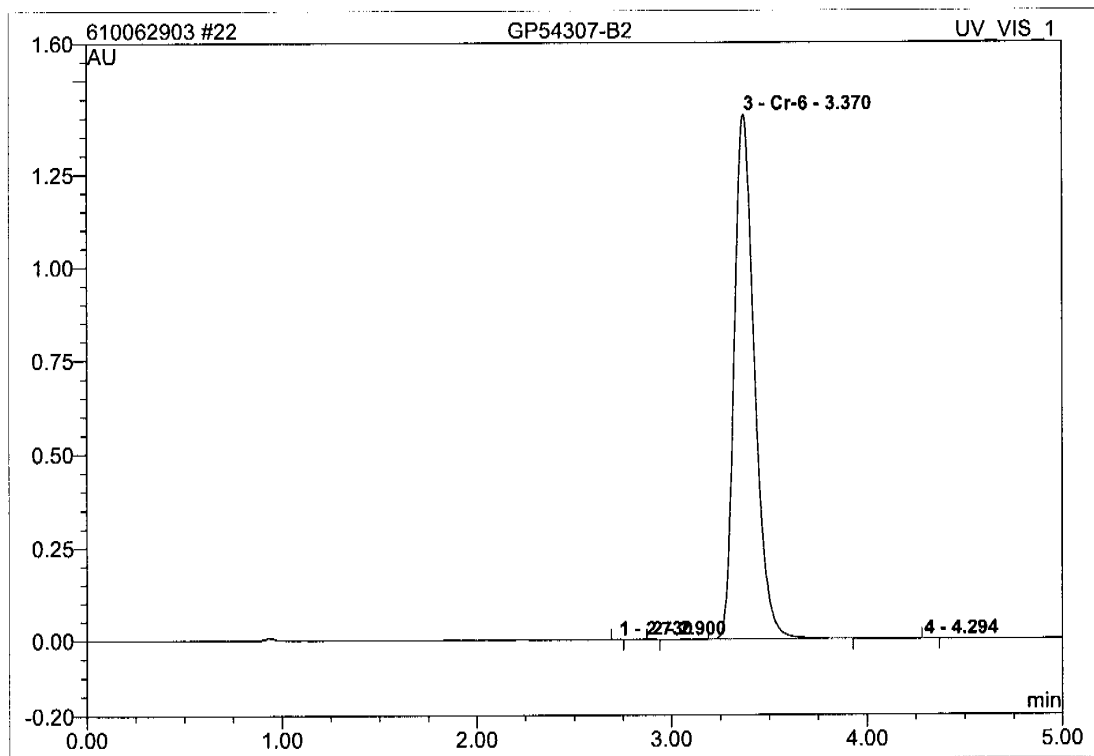


No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.74	n.a.	0.000	0.000	5.24	n.a.	BM
2	2.80	n.a.	0.000	0.000	3.27	n.a.	MB
3	3.03	n.a.	0.000	0.000	5.28	n.a.	BMB
4	3.12	n.a.	0.000	0.000	1.78	n.a.	BMB
5	3.38	Cr-6	0.001	0.000	76.96	0.0161	BMB
6	4.27	n.a.	0.000	0.000	2.97	n.a.	BMB
7	4.95	n.a.	0.000	0.000	4.50	n.a.	BMB
Total:			0.002	0.000	100.00	0.016	

hexachrome/Integration

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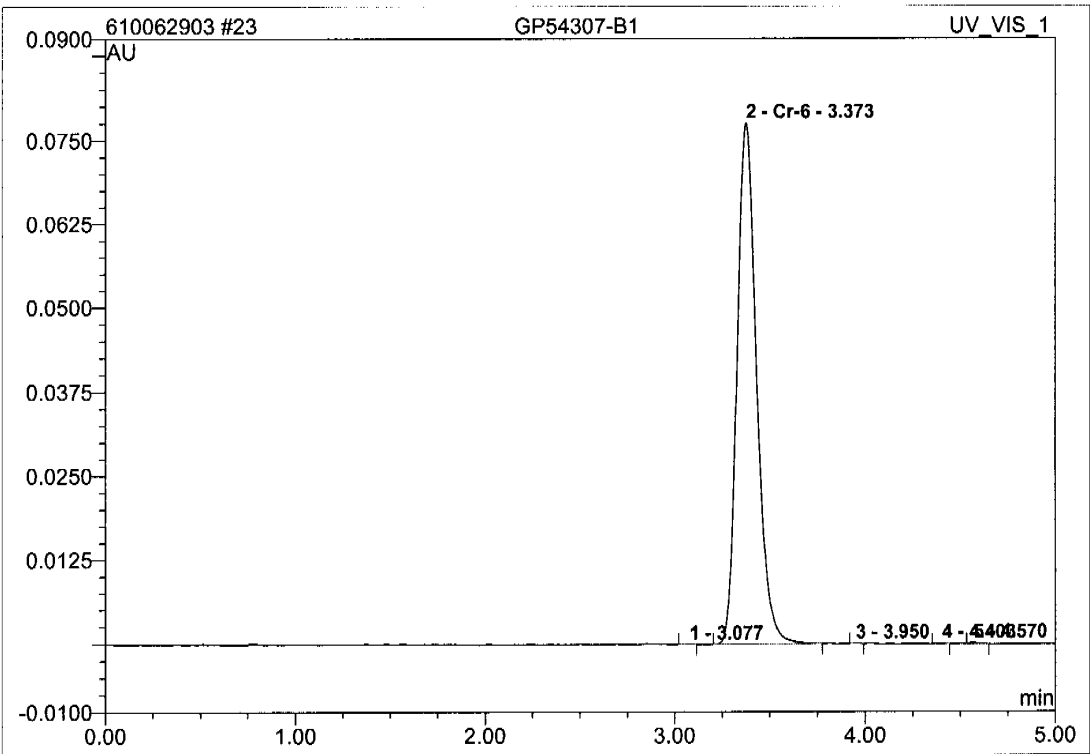
22 GP54307-B2			
Sample Name:	GP54307-B2	Injection Volume:	25.0
Vial Number:	22	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 16:12	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.73	n.a.	0.000	0.000	0.00	n.a.	BMB
2	2.90	n.a.	0.000	0.000	0.00	n.a.	BMB
3	3.37	Cr-6	1.407	0.169	99.99	19.4742	BMB
4	4.29	n.a.	0.000	0.000	0.01	n.a.	BMB
Total:			1.407	0.169	100.00	19.474	

6.5
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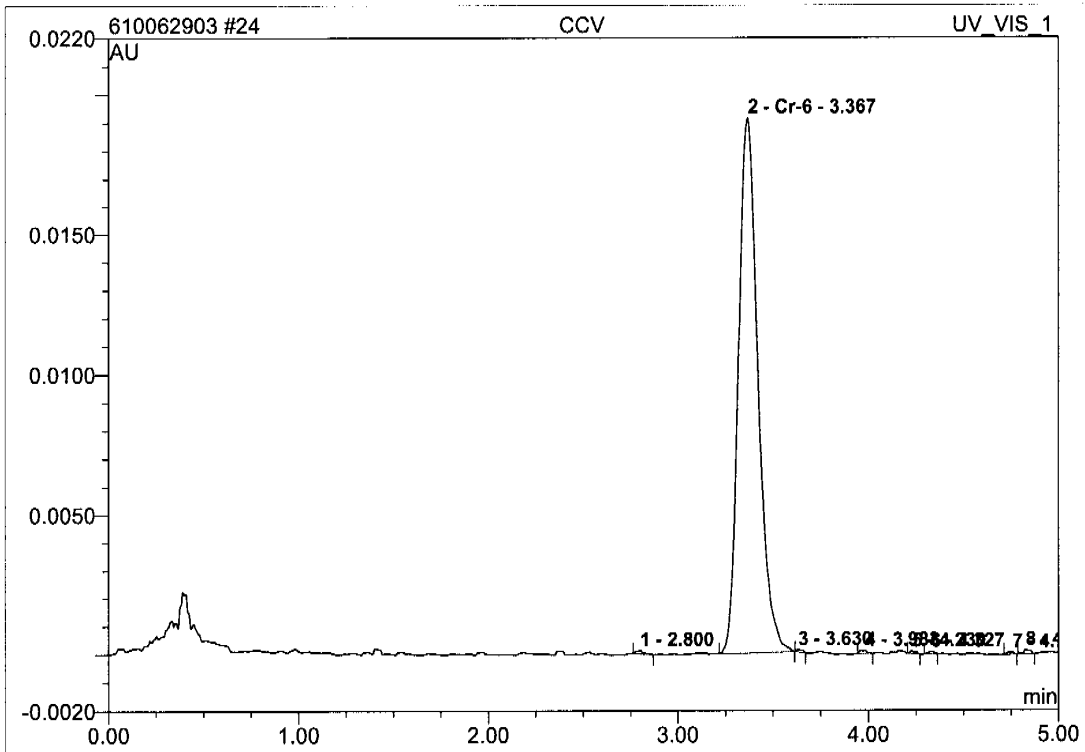
23 GP54307-B1			
Sample Name:	GP54307-B1	Injection Volume:	25.0
Vial Number:	23	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 16:20	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.08	n.a.	0.000	0.000	0.03	n.a.	BMB
2	3.37	Cr-6	0.078	0.009	99.70	1.0637	BMB
3	3.95	n.a.	0.000	0.000	0.05	n.a.	BMB
4	4.40	n.a.	0.000	0.000	0.07	n.a.	BMB
5	4.57	n.a.	0.000	0.000	0.14	n.a.	BMB
Total:			0.078	0.009	100.00	1.064	

6.5
6

24 CCV			
Sample Name:	CCV	Injection Volume:	25.0
Vial Number:	24	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 16:27	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

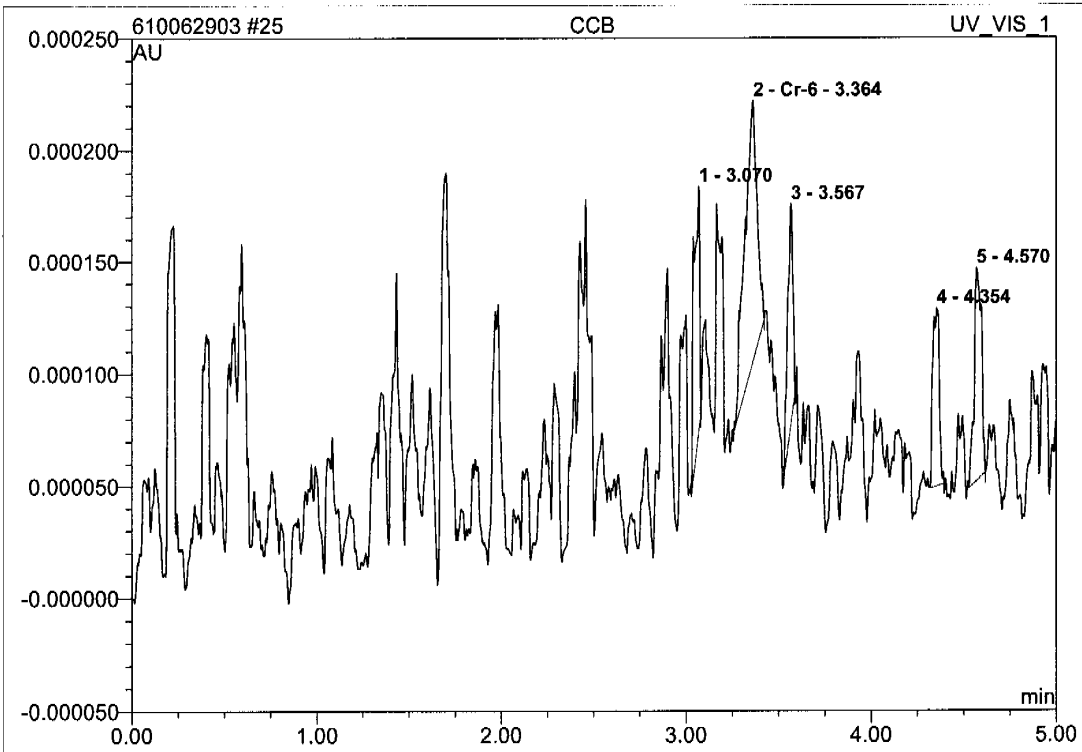


No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.80	n.a.	0.000	0.000	0.22	n.a.	BMB
2	3.37	Cr-6	0.019	0.002	98.67	0.2624	BMB
3	3.63	n.a.	0.000	0.000	0.15	n.a.	BMB
4	3.98	n.a.	0.000	0.000	0.20	n.a.	BMB
5	4.23	n.a.	0.000	0.000	0.15	n.a.	BMB
6	4.33	n.a.	0.000	0.000	0.18	n.a.	BMB
7	4.76	n.a.	0.000	0.000	0.15	n.a.	BMB
8	4.83	n.a.	0.000	0.000	0.27	n.a.	BMB
Total:			0.020	0.002	100.00	0.262	

hexachrome/Integration

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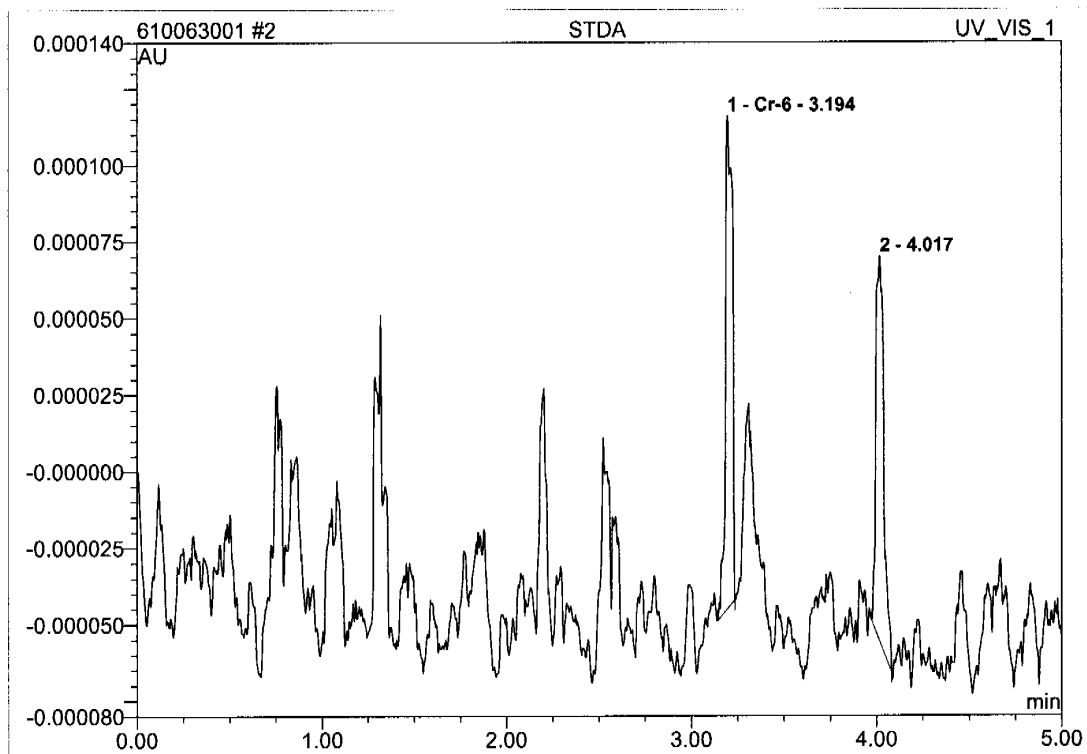
25 CCB			
Sample Name:	CCB	Injection Volume:	25.0
Vial Number:	25	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/29/2010 16:34	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.07	n.a.	0.000	0.000	17.22	n.a.	BMB
2	3.36	Cr-6	0.000	0.000	38.05	0.0018	BMB
3	3.57	n.a.	0.000	0.000	13.90	n.a.	BMB
4	4.35	n.a.	0.000	0.000	13.39	n.a.	BMB
5	4.57	n.a.	0.000	0.000	17.45	n.a.	BMB
Total:			0.001	0.000	100.00	0.002	

2 STDA

Sample Name:	STDA	Injection Volume:	25.0
Vial Number:	2	Channel:	UV_VIS_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/30/2010 10:14	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

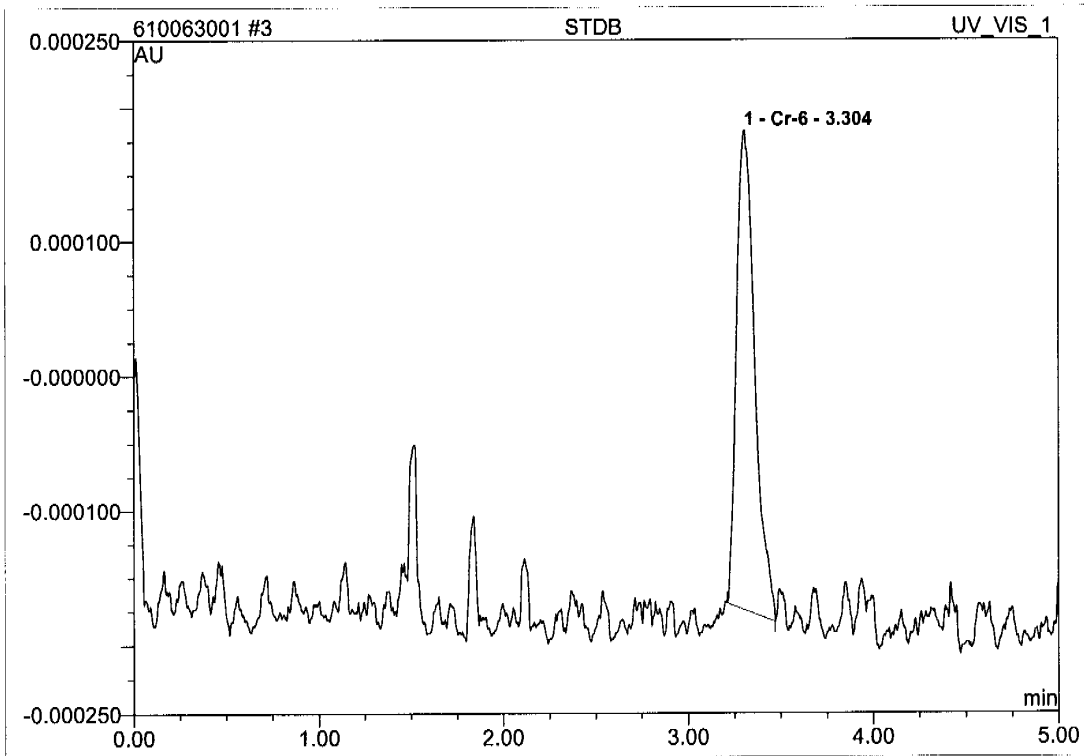


No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.19	Cr-6	0.000	0.000	52.41	0.0011	BMB
2	4.02	n.a.	0.000	0.000	47.59	n.a.	BMB
Total:			0.000	0.000	100.00	0.001	

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3 STDB			
Sample Name:	STDB	Injection Volume:	25.0
Vial Number:	3	Channel:	UV_VIS_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/30/2010 10:21	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

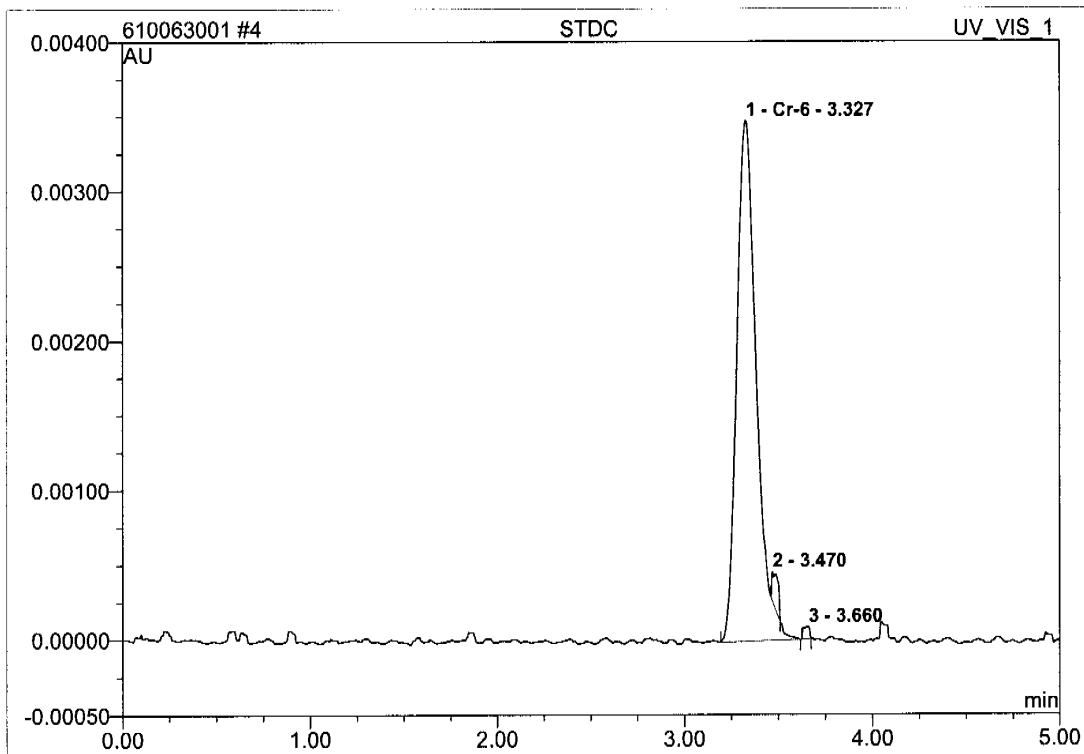


No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.30	Cr-6	0.000	0.000	100.00	0.0052	BMB
Total:			0.000	0.000	100.00	0.005	

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
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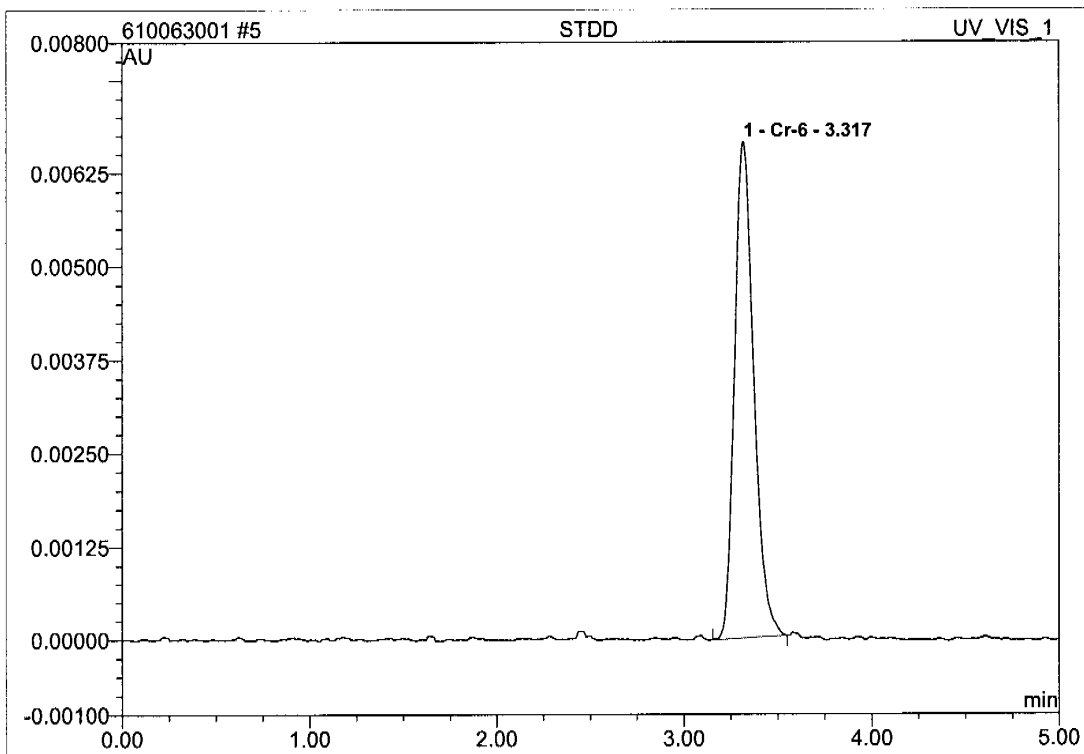
4 STDC			
Sample Name:	STDC	Injection Volume:	25.0
Vial Number:	4	Channel:	UV_VIS_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/30/2010 10:29	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.33	Cr-6	0.003	0.000	97.17	0.0516	BMB
2	3.47	n.a.	0.000	0.000	2.08	n.a.	Rd
3	3.66	n.a.	0.000	0.000	0.75	n.a.	BMB
Total:			0.004	0.000	100.00	0.052	

6.5
6

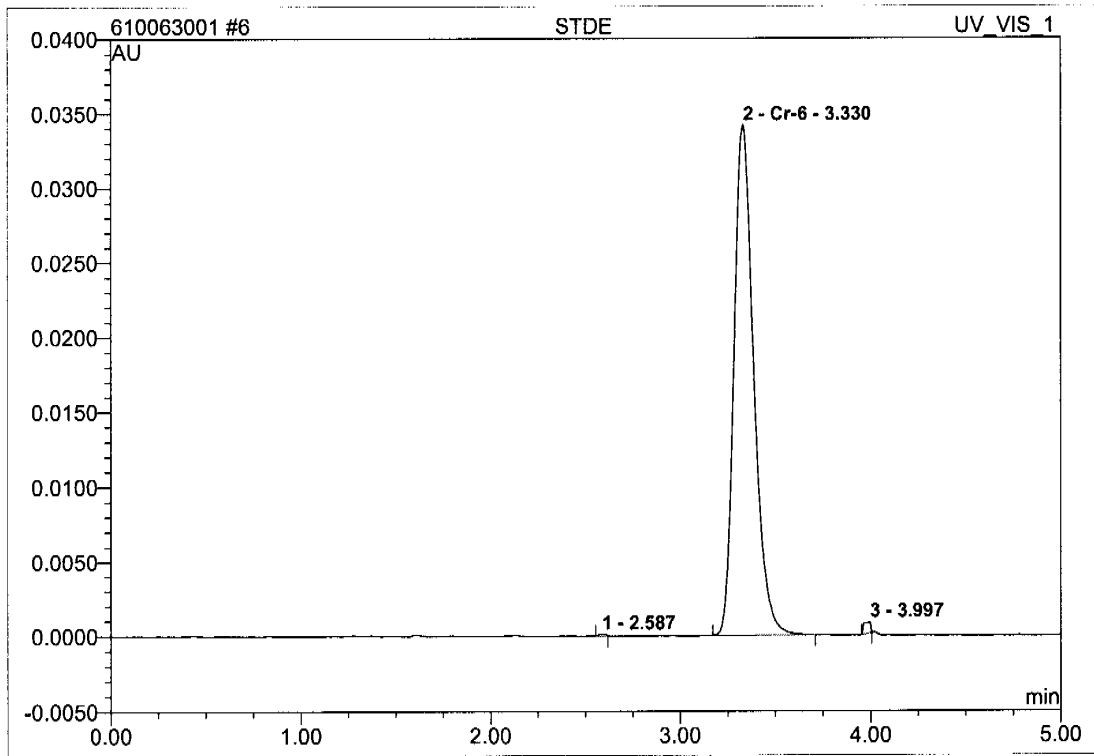
5 STDD			
Sample Name:	STDD	Injection Volume:	25.0
Vial Number:	5	Channel:	UV_VIS_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/30/2010 10:36	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.32	Cr-6	0.007	0.001	100.00	0.0967	BMB
Total:			0.007	0.001	100.00	0.097	

6.5
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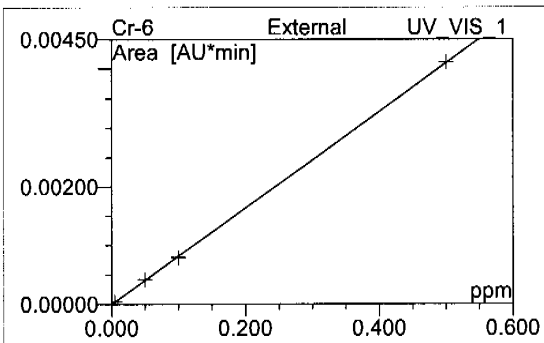
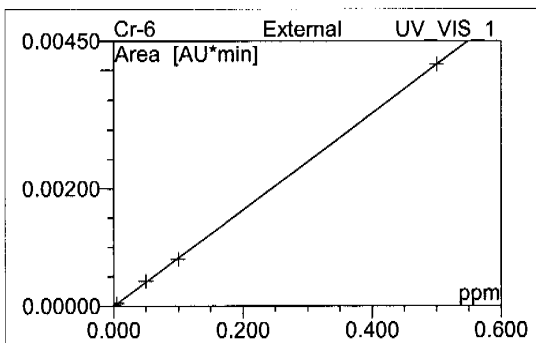
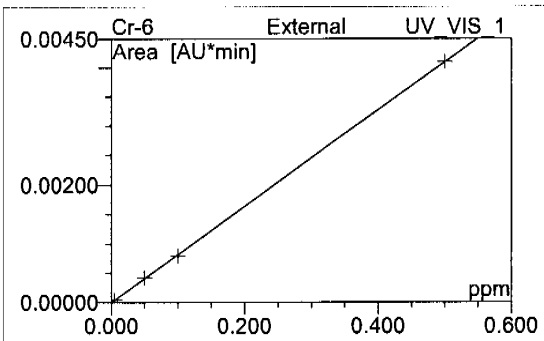
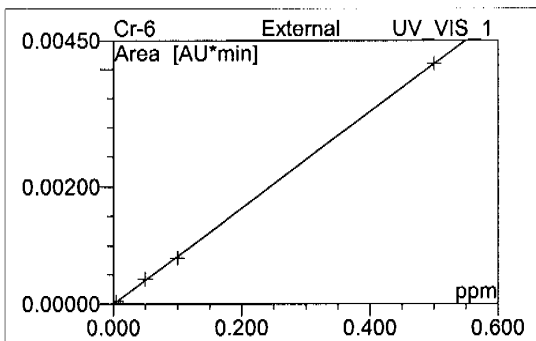
6 STDE			
Sample Name:	STDE	Injection Volume:	25.0
Vial Number:	6	Channel:	UV_VIS_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/30/2010 10:43	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.59	n.a.	0.000	0.000	0.14	n.a.	BMB
2	3.33	Cr-6	0.034	0.004	99.13	0.5005	BMB
3	4.00	n.a.	0.001	0.000	0.73	n.a.	BMB
Total:			0.035	0.004	100.00	0.501	

6.5
6

6 STDE			
Sample Name:	STDE	Injection Volume:	25.0
Vial Number:	6	Channel:	UV_VIS_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/30/2010 10:43	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

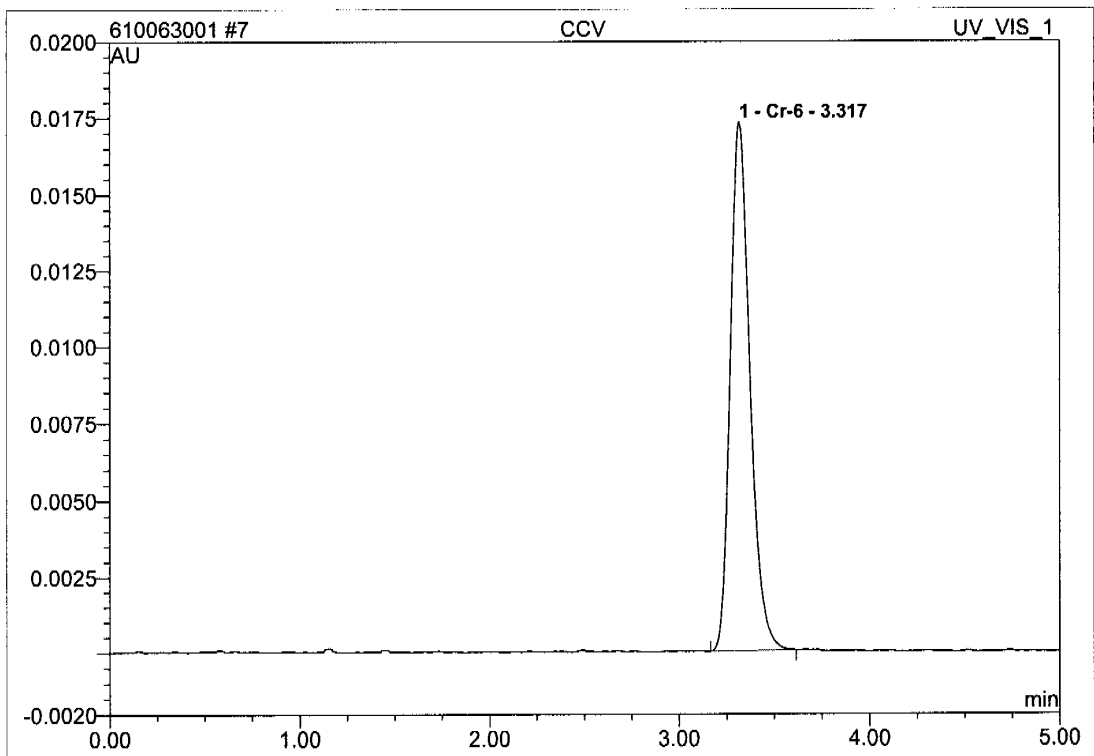


No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	2.59	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	3.33	Cr-6	LOff	5	99.9916	0.0000	0.0082	0.0000
3	4.00	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Average:					99.9916	0.0000	0.0082	0.0000

hexachrome/Calibration(Batch)

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7 CCV			
Sample Name:	CCV	Injection Volume:	25.0
Vial Number:	7	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/30/2010 10:51	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

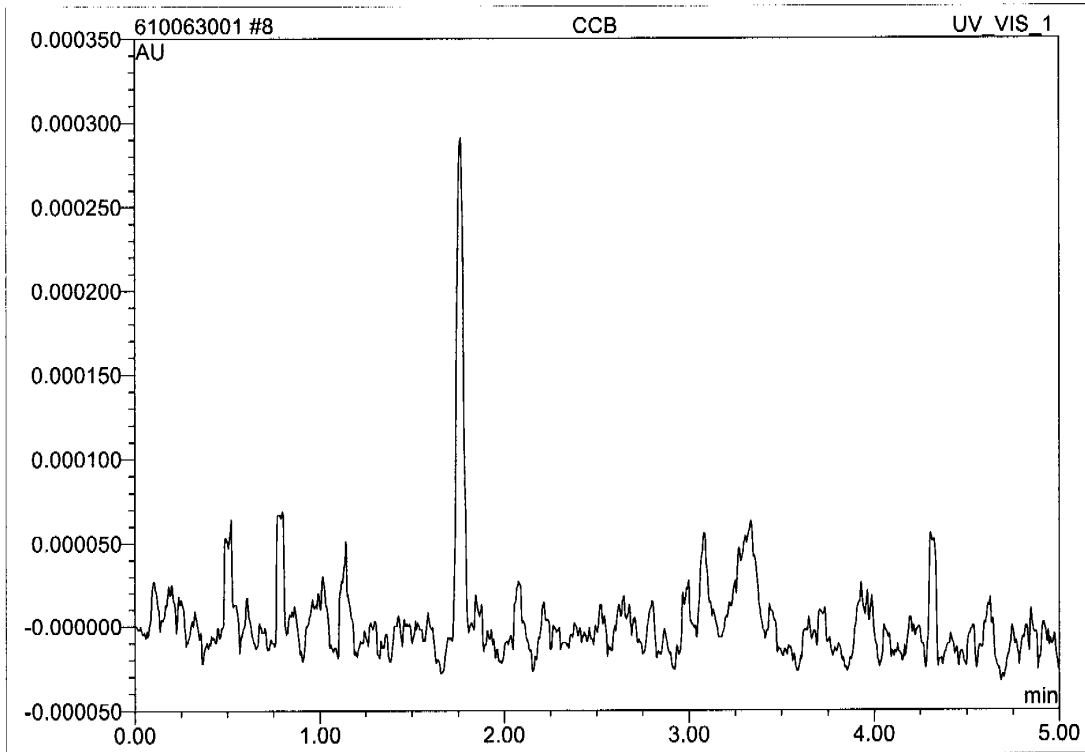


No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.32	Cr-6	0.017	0.002	100.00	0.2538	BMB
Total:			0.017	0.002	100.00	0.254	

hexachrome/Integration

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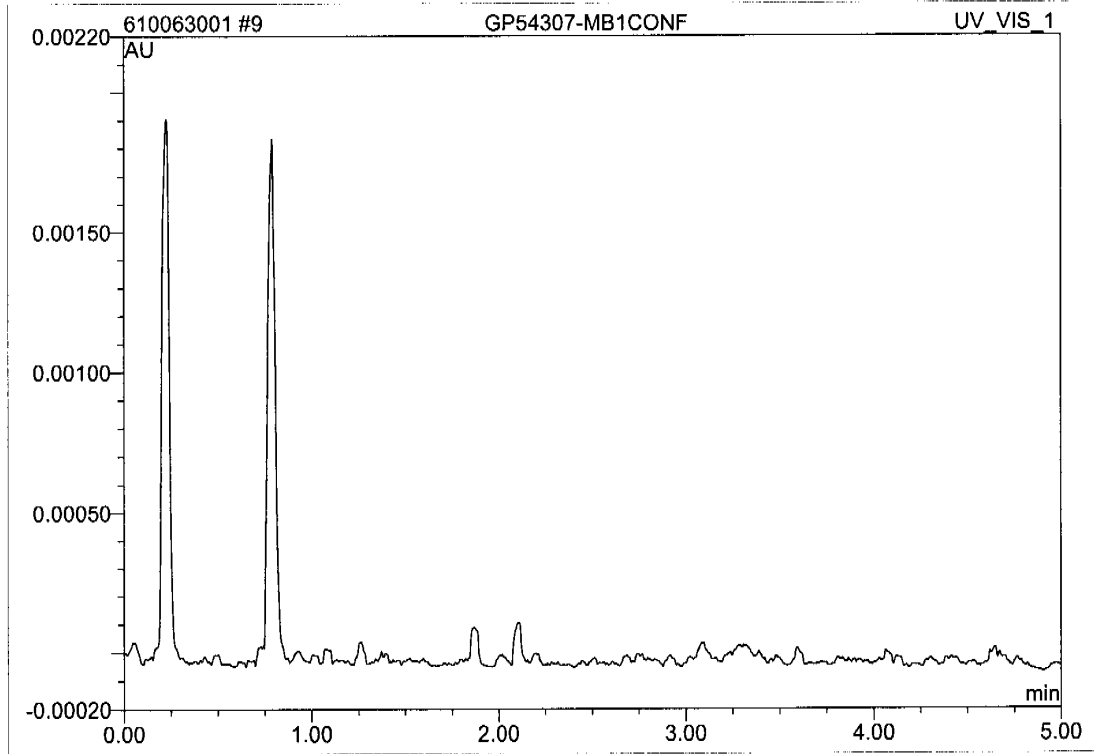
8 CCB			
Sample Name:	CCB	Injection Volume:	25.0
Vial Number:	8	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/30/2010 10:58	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

6.5
6

9 GP54307-MB1CONF			
Sample Name:	GP54307-MB1CONF	Injection Volume:	25.0
Vial Number:	10	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/30/2010 11:06	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

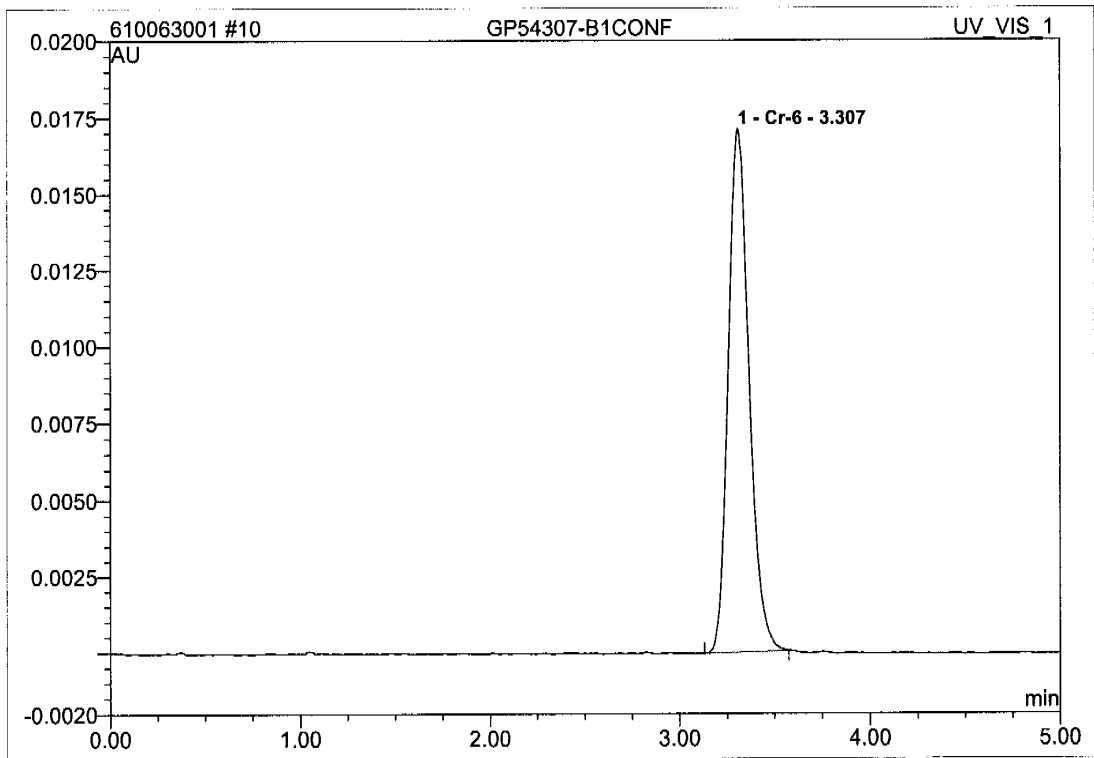


No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
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10 GP54307-B1CONF			
Sample Name:	GP54307-B1CONF	Injection Volume:	25.0
Vial Number:	11	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	4.0000
Recording Time:	6/30/2010 11:13	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

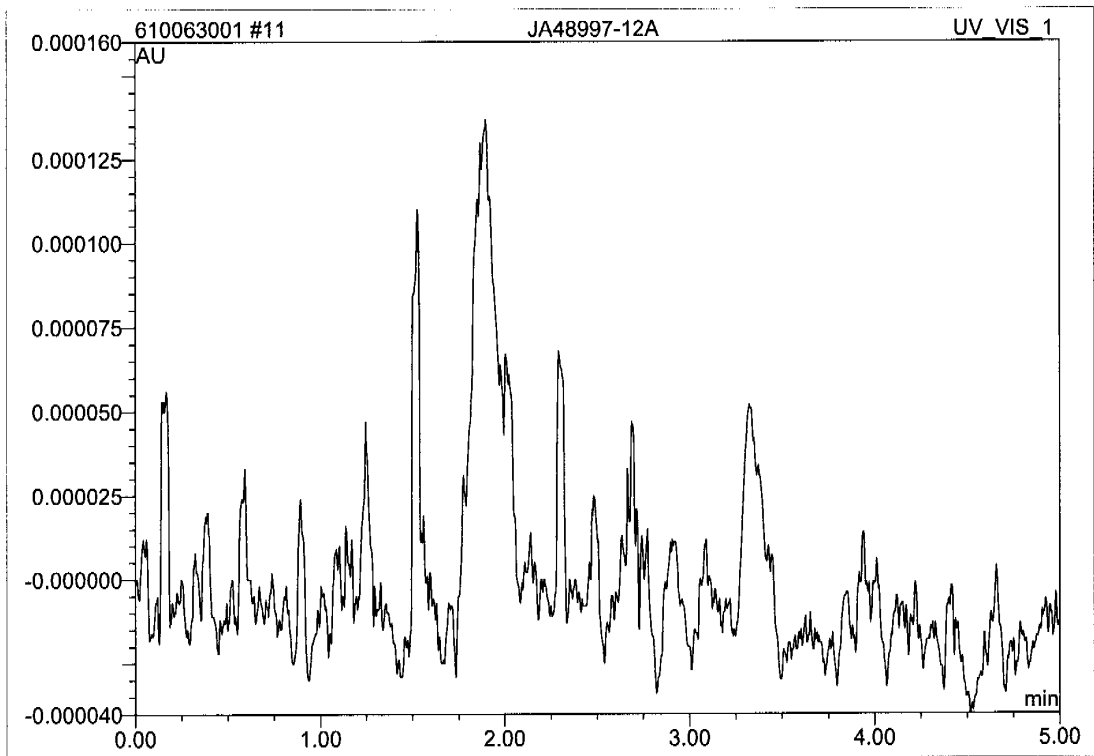


No.	Ret. Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.31	Cr-6	0.017	0.002	100.00	1.0627	BMB
Total:			0.017	0.002	100.00	1.063	

hexachrome/Integration

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11 JA48997-12A			
Sample Name:	JA48997-12A	Injection Volume:	25.0
Vial Number:	26	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/30/2010 11:20	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

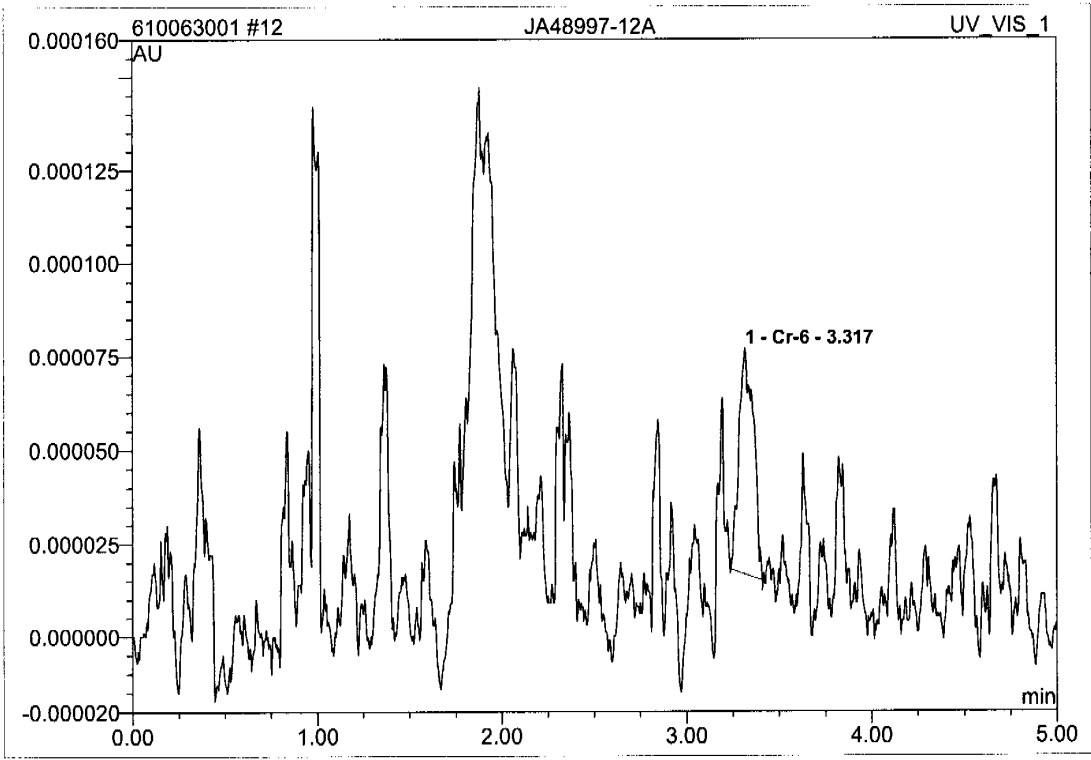


No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
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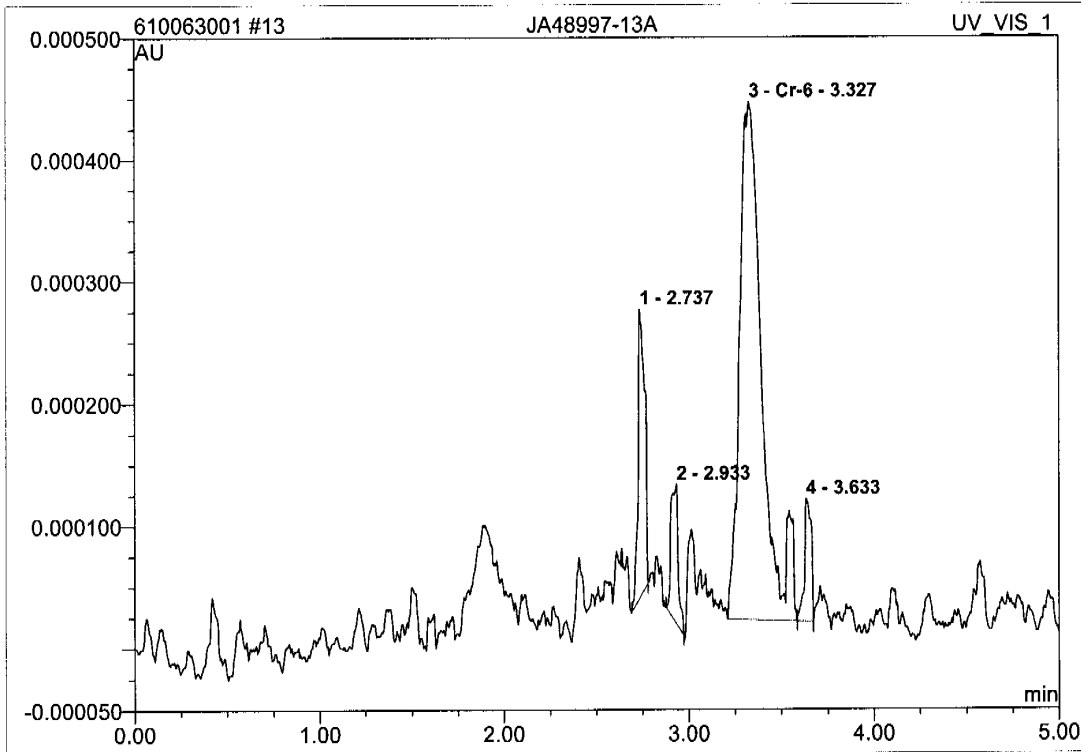
12 JA48997-12A			
Sample Name:	JA48997-12A	Injection Volume:	25.0
Vial Number:	27	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/30/2010 11:28	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.32	Cr-6	0.000	0.000	100.00	0.0009	BMB
Total:			0.000	0.000	100.00	0.001	

6.5
6

13 JA48997-13A			
Sample Name:	JA48997-13A	Injection Volume:	25.0
Vial Number:	28	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/30/2010 11:35	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



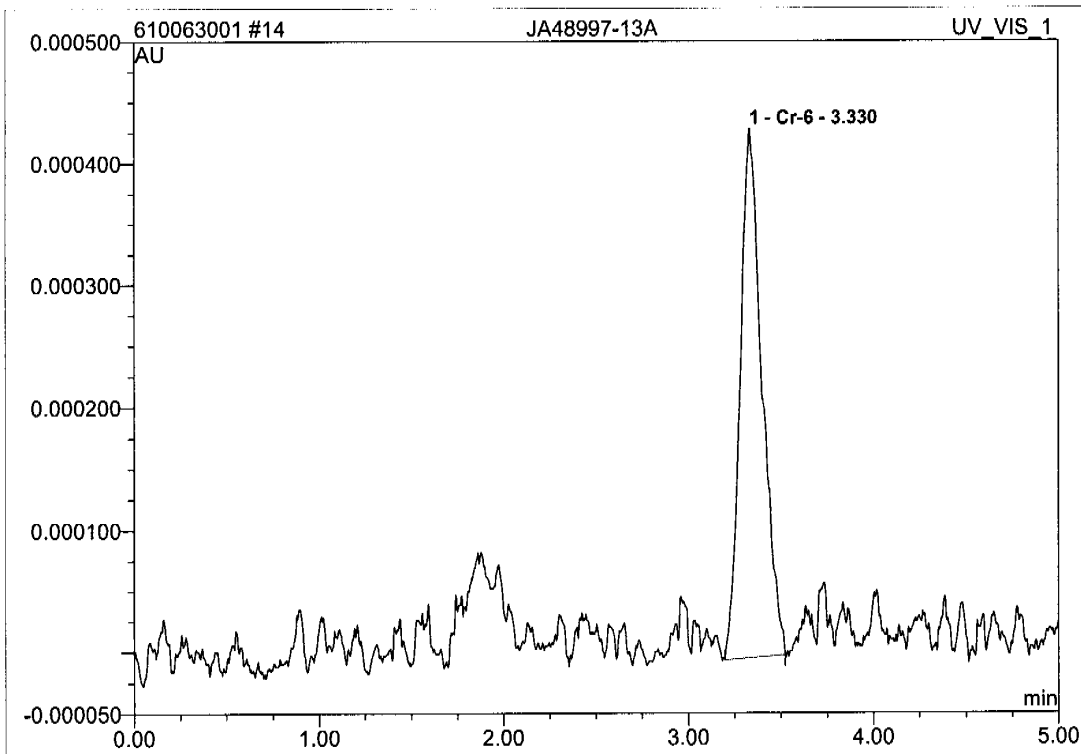
No.	Ret. Time min	Peak Name	Height AU	Area AU*min	Rel. Area %	Amount ppm	Type
1	2.74	n.a.	0.000	0.000	12.16	n.a.	BMB
2	2.93	n.a.	0.000	0.000	6.57	n.a.	BMB
3	3.33	Cr-6	0.000	0.000	75.72	0.0075	BM
4	3.63	n.a.	0.000	0.000	5.54	n.a.	MB
Total:			0.001	0.000	100.00	0.007	

hexachrome/Integration

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6.5
6

14 JA48997-13A			
Sample Name:	JA48997-13A	Injection Volume:	25.0
Vial Number:	29	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/30/2010 11:43	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



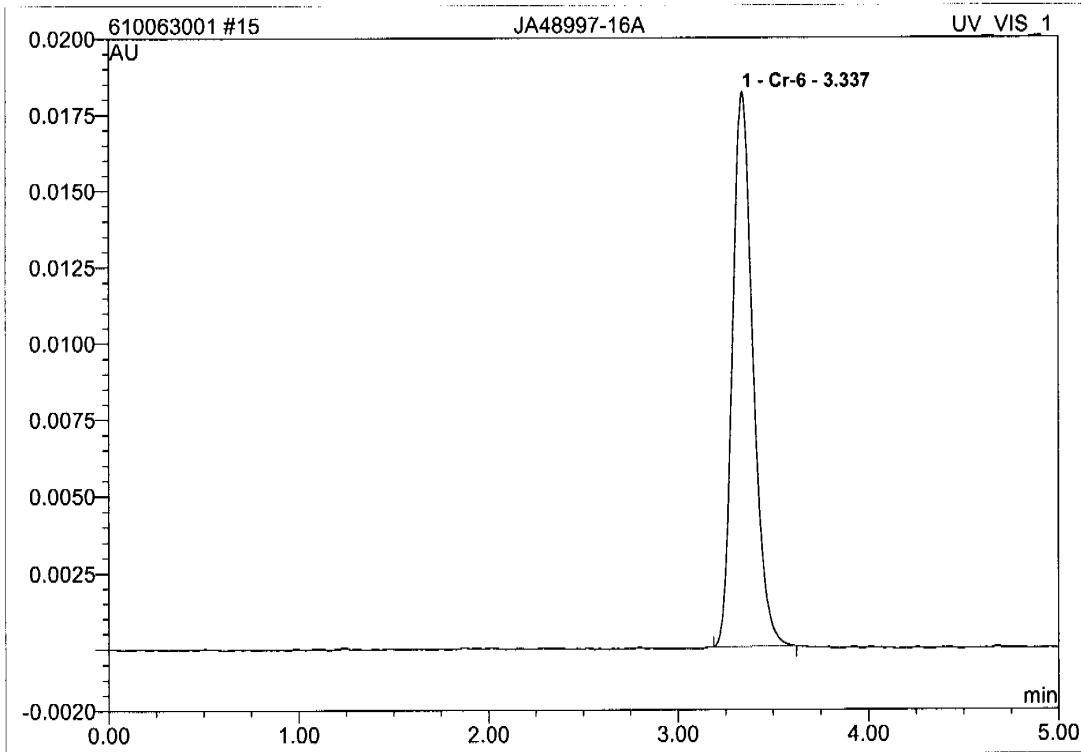
No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.33	Cr-6	0.000	0.000	100.00	0.0075	BMB
Total:			0.000	0.000	100.00	0.007	

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
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6.5
6

15 JA48997-16A			
Sample Name:	JA48997-16A	Injection Volume:	25.0
Vial Number:	30	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/30/2010 11:50	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



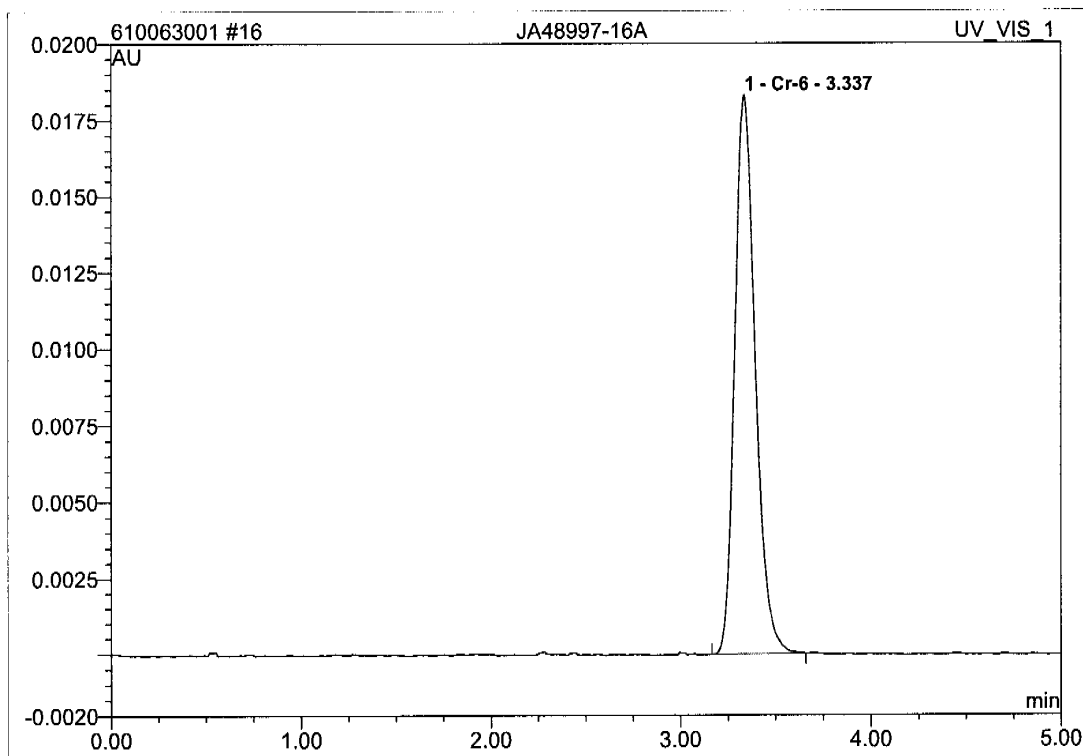
No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.34	Cr-6	0.018	0.002	100.00	0.2769	BMB
Total:			0.018	0.002	100.00	0.277	

hexachrome/Integration

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6.5
6

16 JA48997-16A			
Sample Name:	JA48997-16A	Injection Volume:	25.0
Vial Number:	31	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/30/2010 11:57	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.34	Cr-6	0.018	0.002	100.00	0.2805	BMB
Total:			0.018	0.002	100.00	0.280	

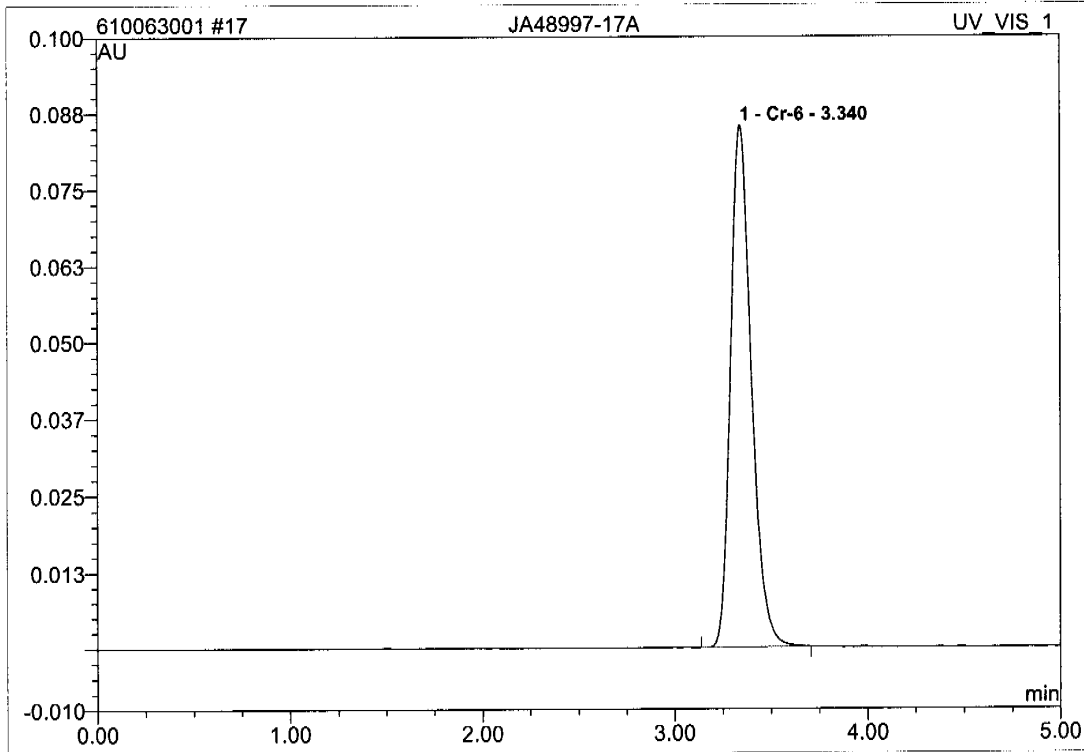
hexachrome/Integration

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6.5
6

17 JA48997-17A

Sample Name:	JA48997-17A	Injection Volume:	25.0
Vial Number:	32	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/30/2010 12:05	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

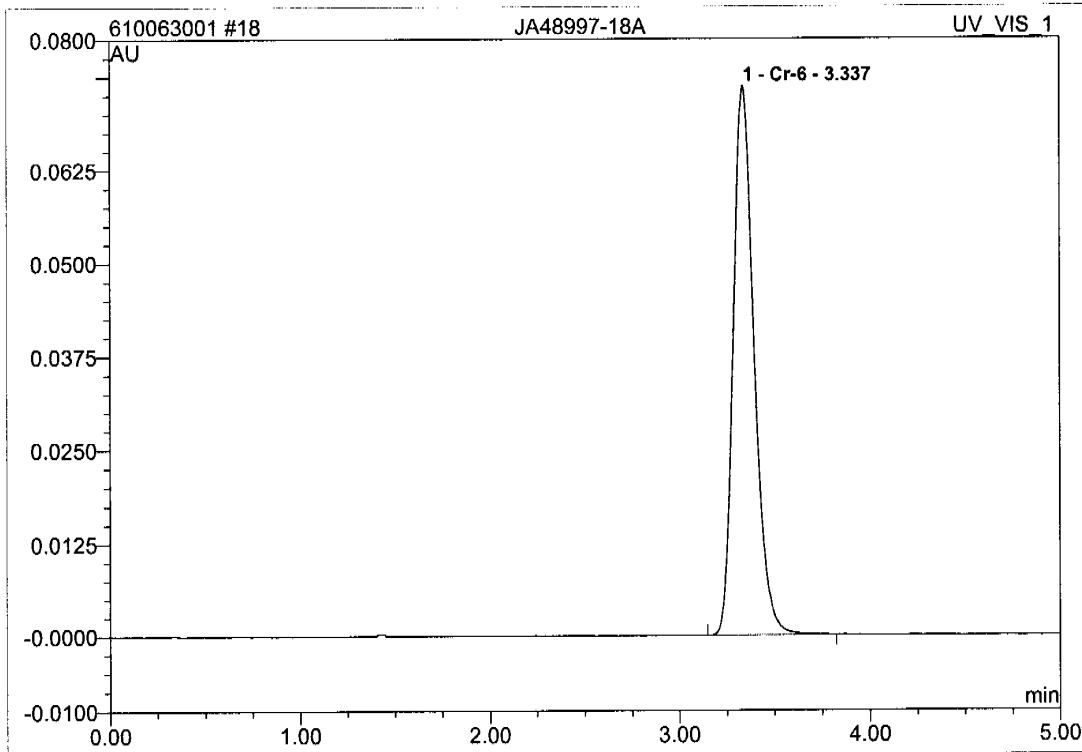


No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.34	Cr-6	0.085	0.011	100.00	1.3033	BMB
Total:			0.085	0.011	100.00	1.303	

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
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18 JA48997-18A			
Sample Name:	JA48997-18A	Injection Volume:	25.0
Vial Number:	34	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/30/2010 12:12	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



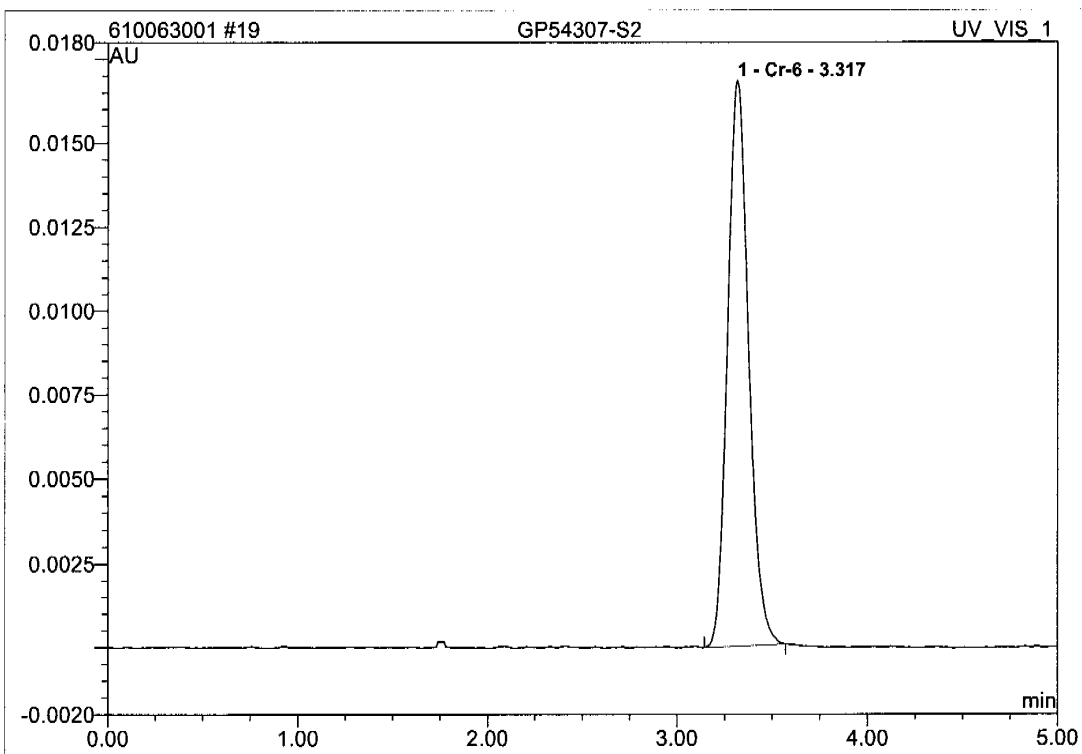
No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.34	Cr-6	0.074	0.009	100.00	1.1404	BMB
Total:			0.074	0.009	100.00	1.140	

hexachrome/Integration

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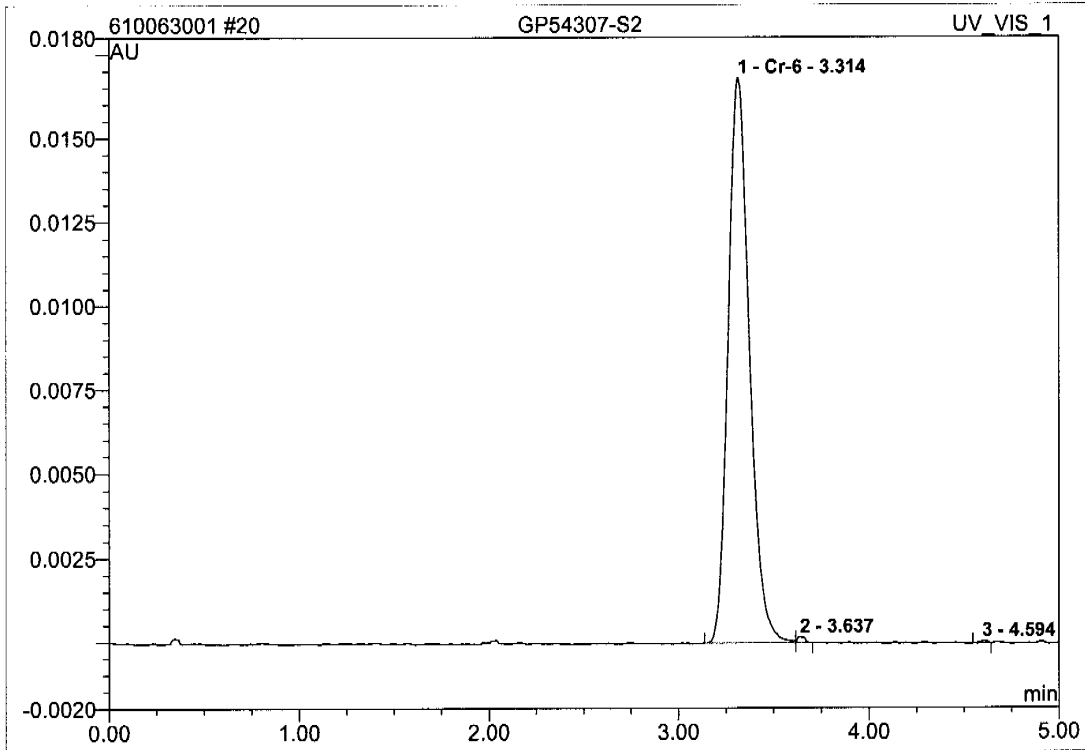
19 GP54307-S2

Sample Name:	GP54307-S2	Injection Volume:	25.0
Vial Number:	36	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	80.0000
Recording Time:	6/30/2010 12:20	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.32	Cr-6	0.017	0.002	100.00	21.1406	BMB
Total:			0.017	0.002	100.00	21.141	

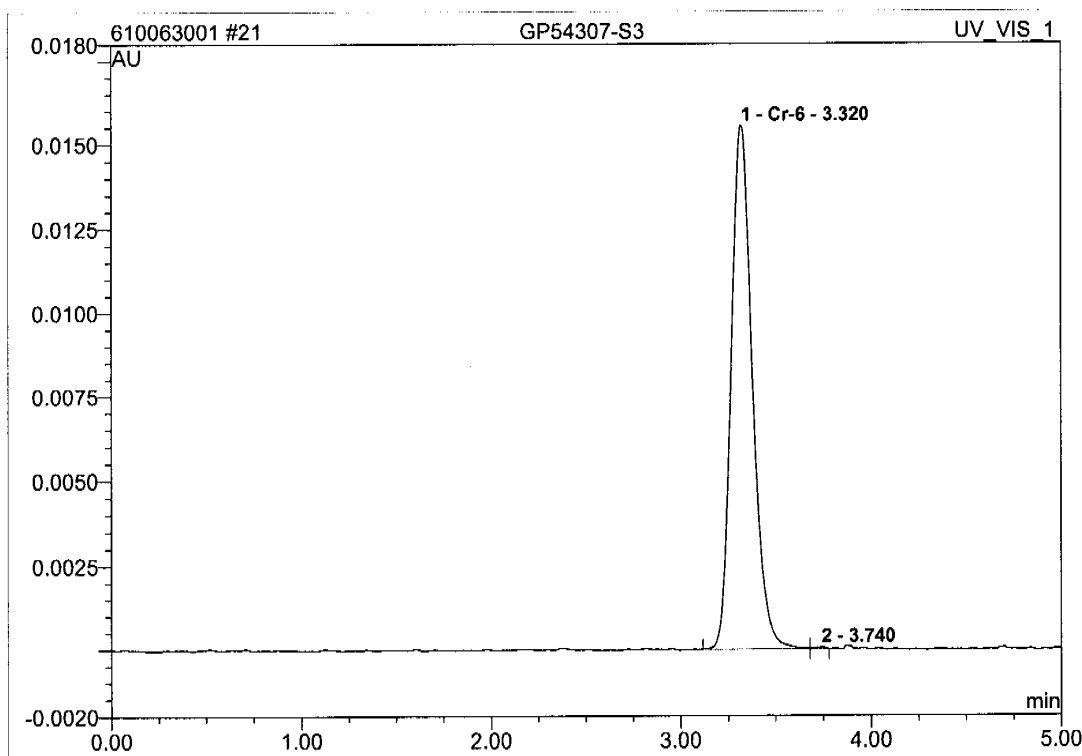
20 GP54307-S2			
Sample Name:	GP54307-S2	Injection Volume:	25.0
Vial Number:	37	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	80.0000
Recording Time:	6/30/2010 12:27	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.31	Cr-6	0.017	0.002	99.49	21.3106	BM
2	3.64	n.a.	0.000	0.000	0.35	n.a.	MB
3	4.59	n.a.	0.000	0.000	0.16	n.a.	BMB
Total:			0.017	0.002	100.00	21.311	

6.5
6

21 GP54307-S3			
Sample Name:	GP54307-S3	Injection Volume:	25.0
Vial Number:	38	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	15.0000
Recording Time:	6/30/2010 12:34	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



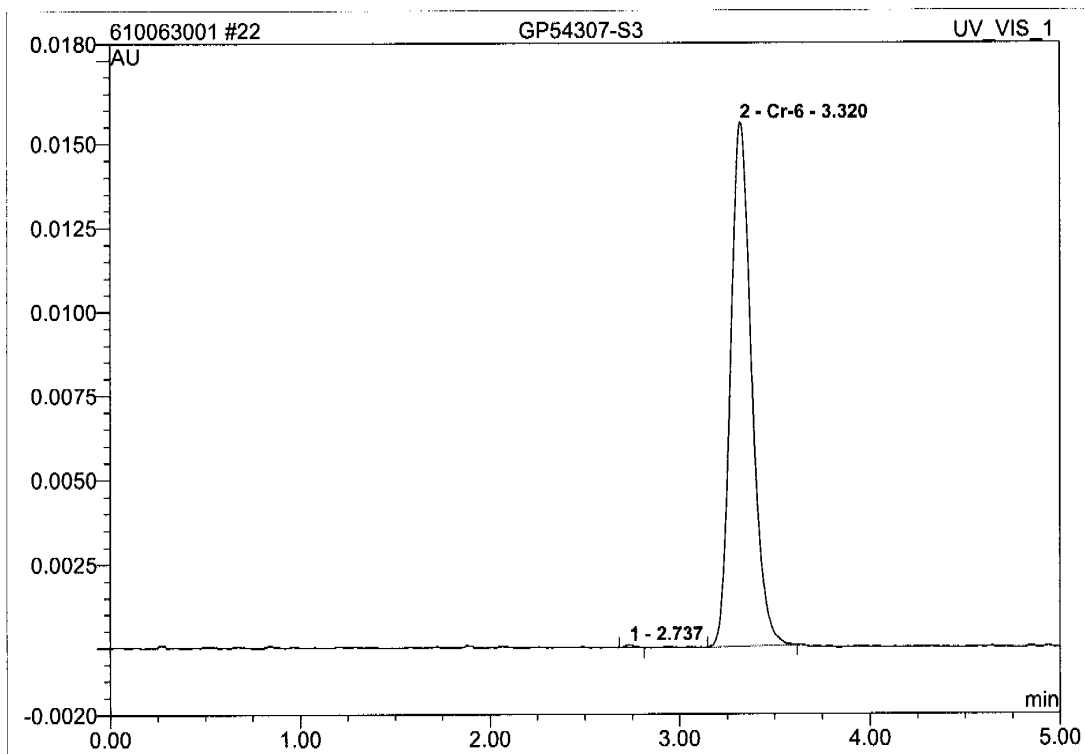
No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.32	Cr-6	0.016	0.002	99.83	3.6832	BM
2	3.74	n.a.	0.000	0.000	0.17	n.a.	MB
Total:			0.016	0.002	100.00	3.683	

hexachrome/Integration

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22 GP54307-S3

Sample Name:	GP54307-S3	Injection Volume:	25.0
Vial Number:	39	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	15.0000
Recording Time:	6/30/2010 12:42	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

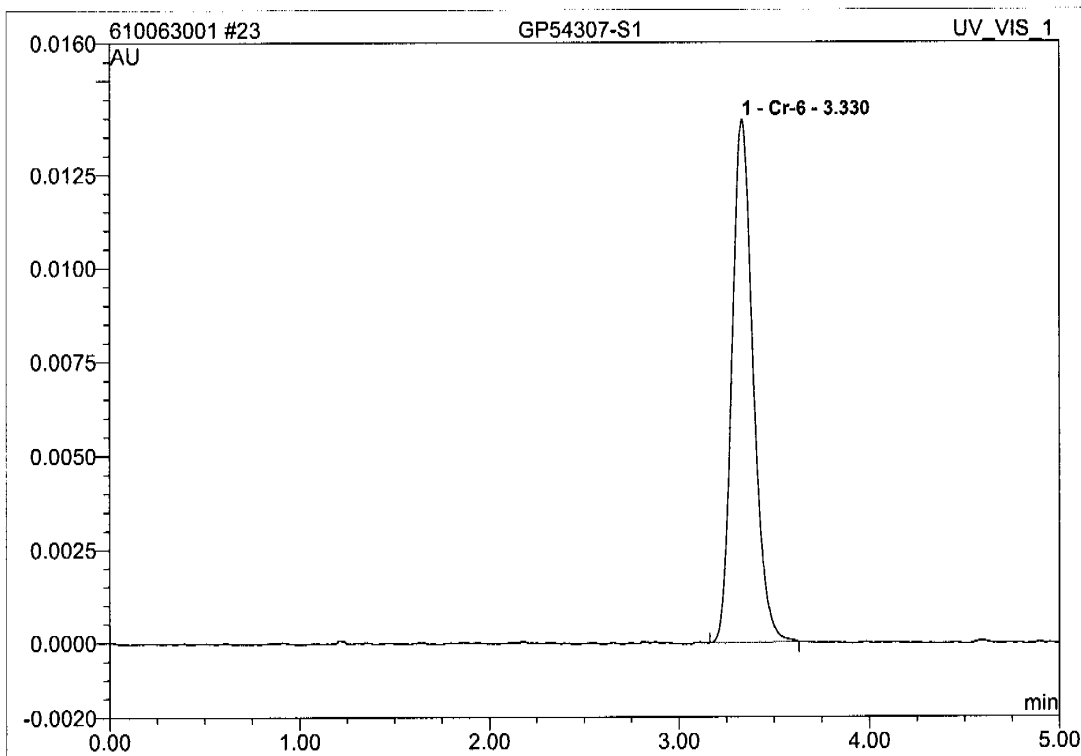


No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.74	n.a.	0.000	0.000	0.23	n.a.	BMB
2	3.32	Cr-6	0.016	0.002	99.77	3.6605	BMB
Total:			0.016	0.002	100.00	3.660	

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
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23 GP54307-S1			
Sample Name:	GP54307-S1	Injection Volume:	25.0
Vial Number:	40	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	4.0000
Recording Time:	6/30/2010 12:49	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

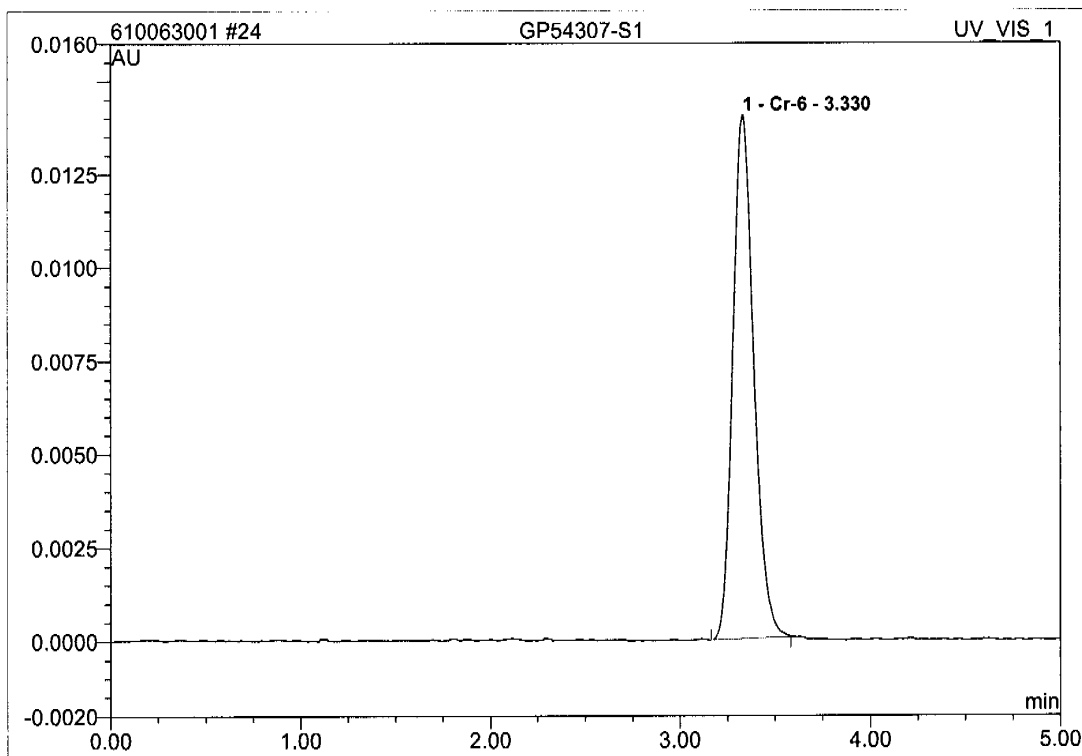


No.	Ret. Time min	Peak Name	Height AU	Area AU*min	Rel. Area %	Amount ppm	Type
1	3.33	Cr-6	0.014	0.002	100.00	0.8765	BMB
Total:			0.014	0.002	100.00	0.876	

Operator:Chemistry Timebase:accutest Sequence:610063001

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6/30/2010 2:22 PM**24 GP54307-S1**

Sample Name:	GP54307-S1	Injection Volume:	25.0
Vial Number:	41	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	4.0000
Recording Time:	6/30/2010 12:57	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

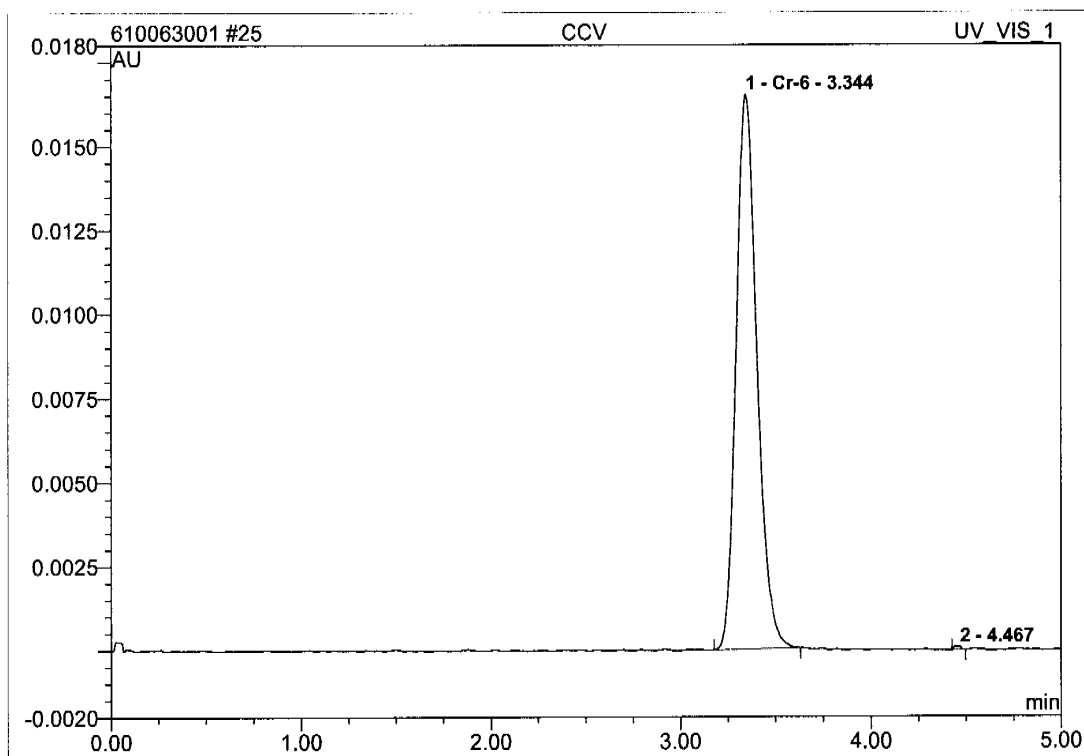


No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.33	Cr-6	0.014	0.002	100.00	0.8746	BMB
Total:			0.014	0.002	100.00	0.875	

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

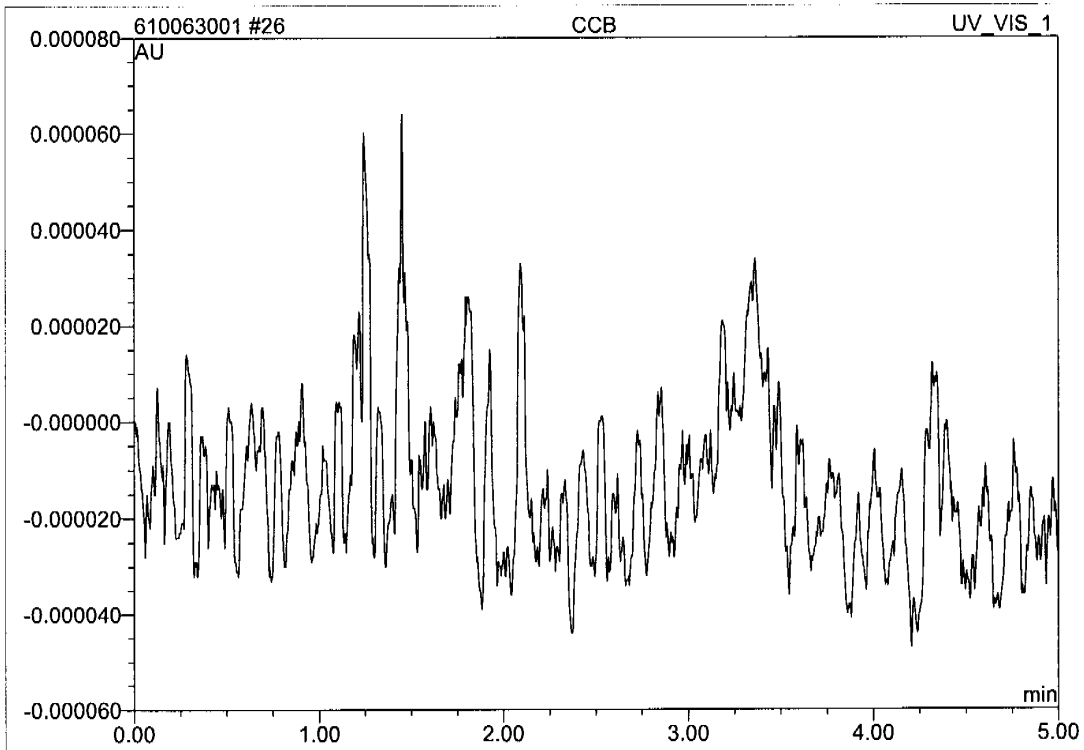
25 CCV			
Sample Name:	CCV	Injection Volume:	25.0
Vial Number:	42	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/30/2010 13:04	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.34	Cr-6	0.017	0.002	99.81	0.2563	BMB
2	4.47	n.a.	0.000	0.000	0.19	n.a.	BMB
Total:			0.017	0.002	100.00	0.256	

6.5
6

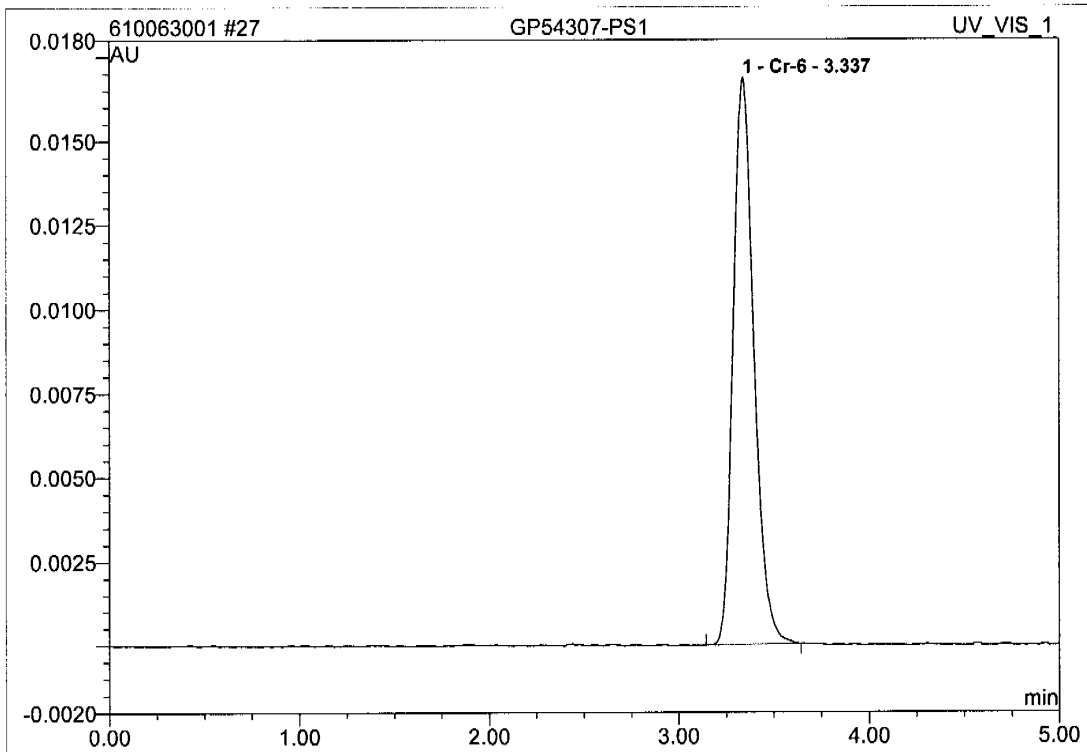
26 CCB			
Sample Name:	CCB	Injection Volume:	25.0
Vial Number:	43	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/30/2010 13:11	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

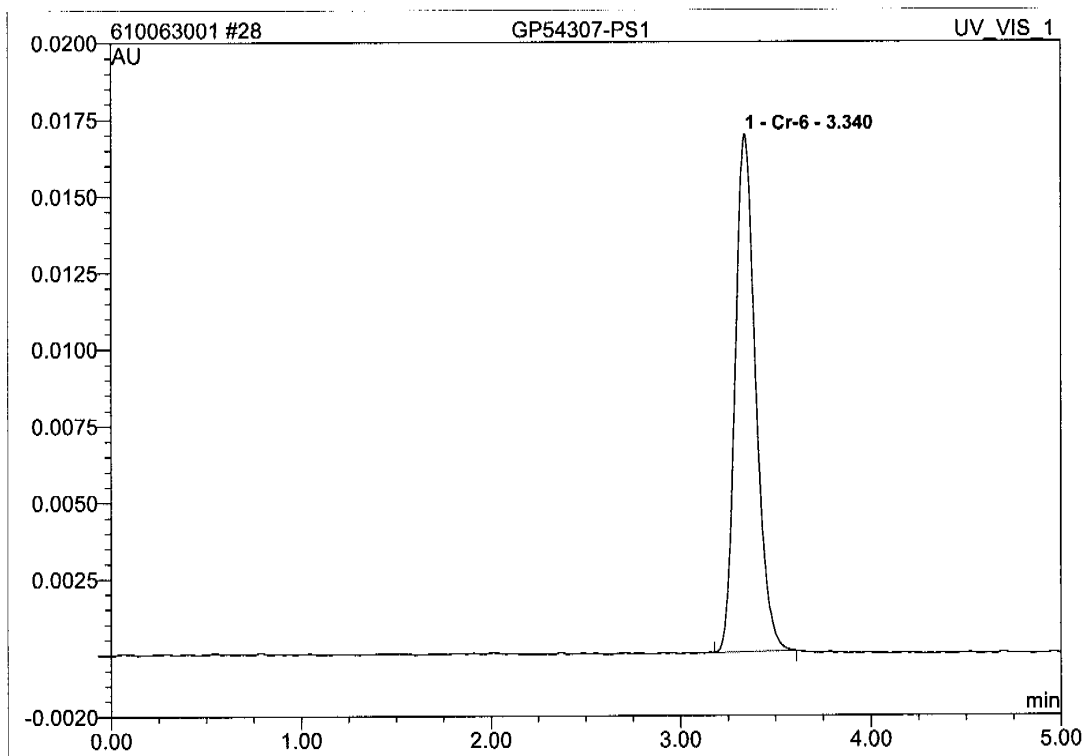
27 GP54307-PS1

Sample Name:	GP54307-PS1	Injection Volume:	25.0
Vial Number:	44	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	4.0000
Recording Time:	6/30/2010 13:19	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.34	Cr-6	0.017	0.002	100.00	1.0423	BMB
Total:			0.017	0.002	100.00	1.042	

28 GP54307-PS1			
Sample Name:	GP54307-PS1	Injection Volume:	25.0
Vial Number:	45	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	4.0000
Recording Time:	6/30/2010 13:26	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

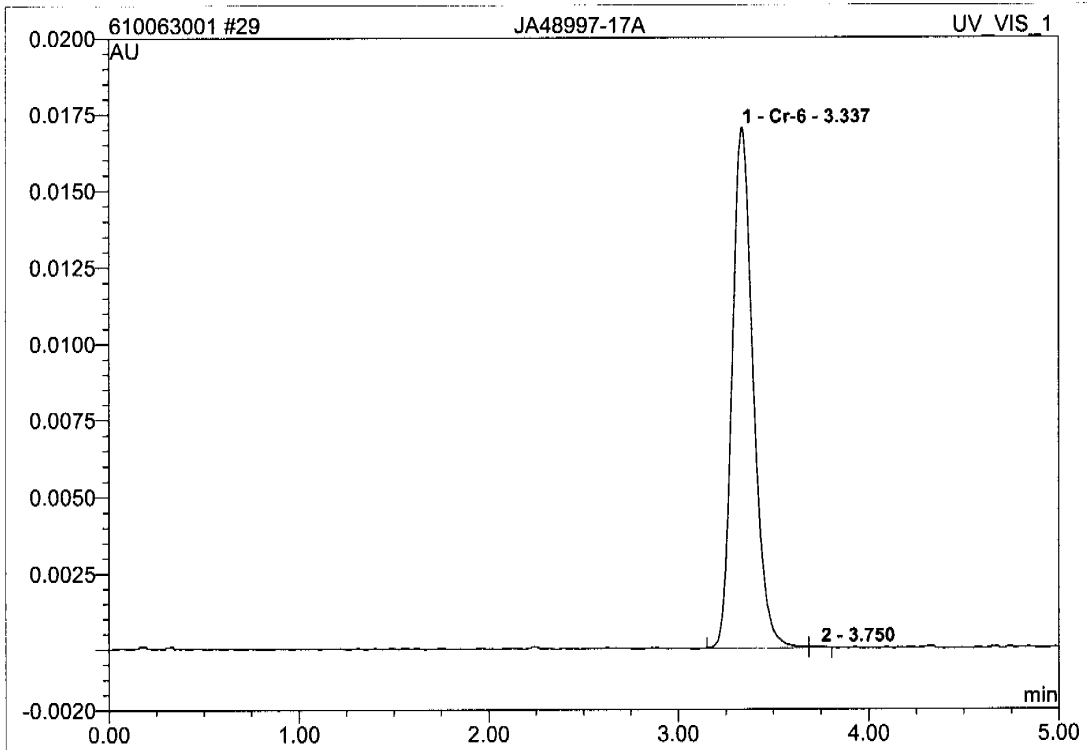


No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.34	Cr-6	0.017	0.002	100.00	1.0289	BMB
Total:			0.017	0.002	100.00	1.029	

6.5
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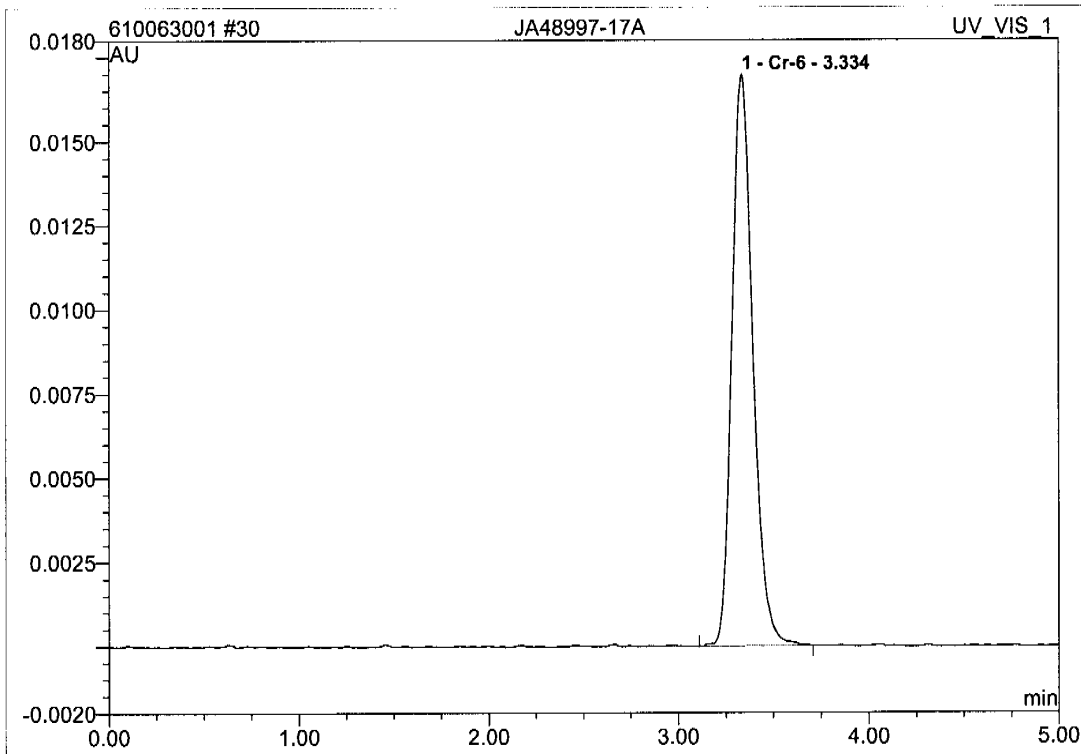
29 JA48997-17A

Sample Name:	JA48997-17A	Injection Volume:	25.0
Vial Number:	46	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	5.0000
Recording Time:	6/30/2010 13:34	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.34	Cr-6	0.017	0.002	99.84	1.3278	BM
2	3.75	n.a.	0.000	0.000	0.16	n.a.	MB
Total:			0.017	0.002	100.00	1.328	

30 JA48997-17A			
Sample Name:	JA48997-17A	Injection Volume:	25.0
Vial Number:	46	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	5.0000
Recording Time:	6/30/2010 13:41	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



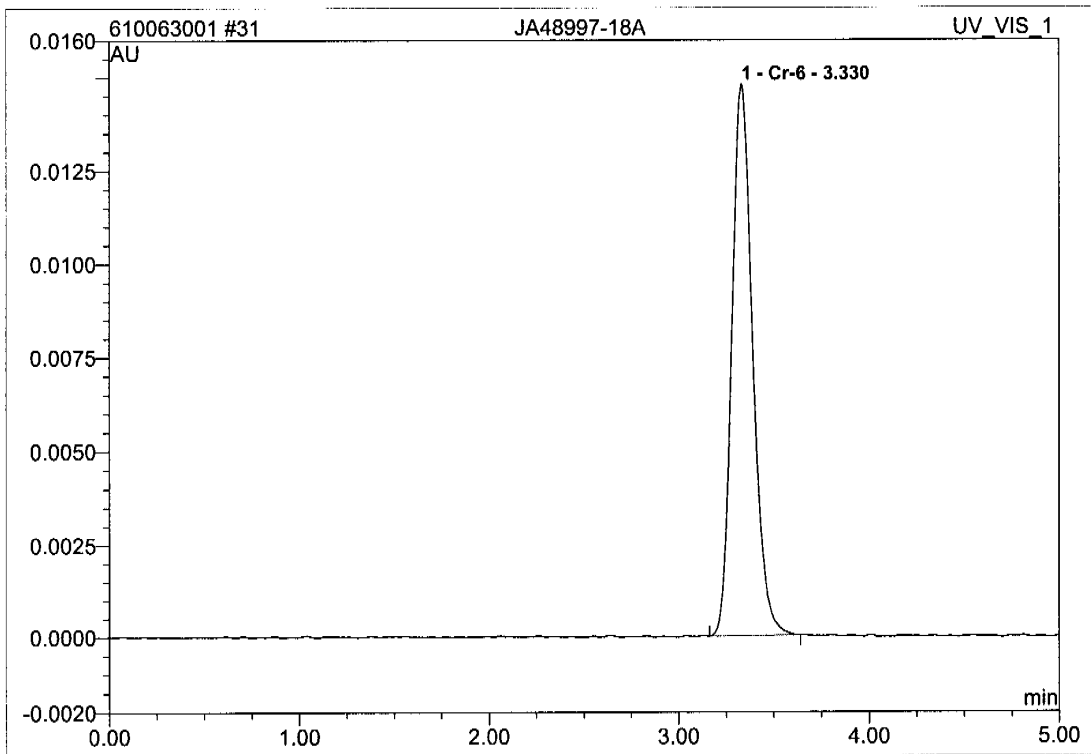
No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.33	Cr-6	0.017	0.002	100.00	1.3260	BMB
Total:			0.017	0.002	100.00	1.326	

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

6.5
6

31 JA48997-18A			
Sample Name:	JA48997-18A	Injection Volume:	25.0
Vial Number:	47	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	5.0000
Recording Time:	6/30/2010 13:48	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



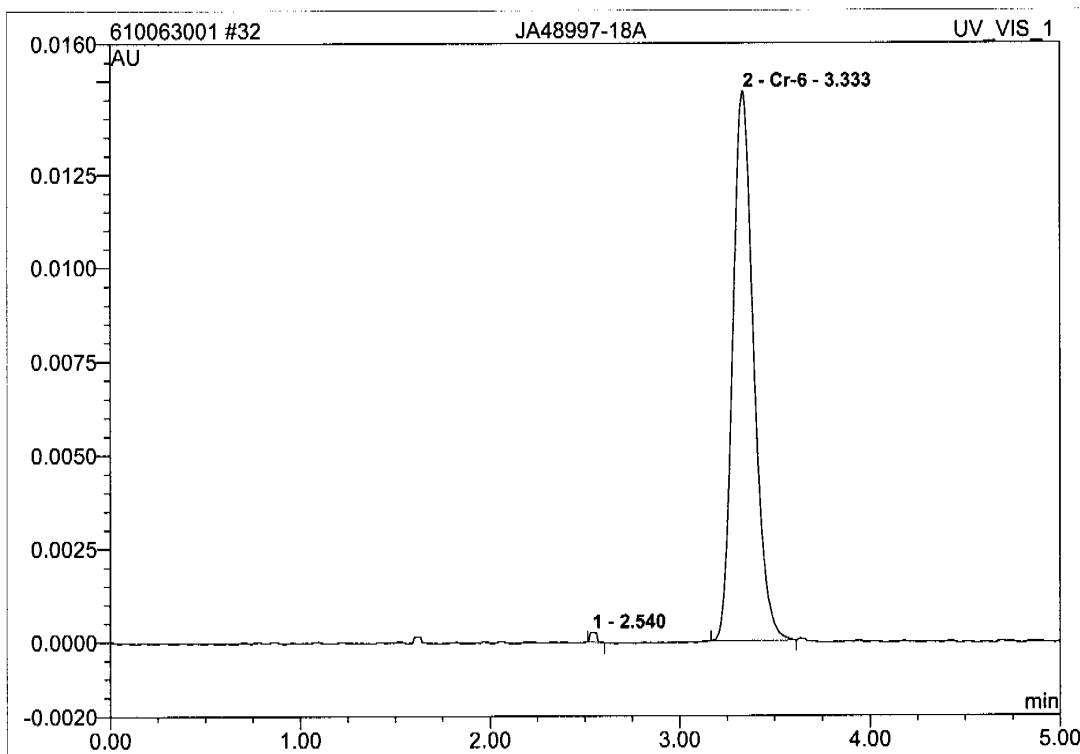
No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.33	Cr-6	0.015	0.002	100.00	1.1468	BMB
Total:			0.015	0.002	100.00	1.147	

6.5
6

Operator:Chemistry Timebase:accutest Sequence:610063001

Page 32-34
6/30/2010 2:22 PM**32 JA48997-18A**

Sample Name:	JA48997-18A	Injection Volume:	25.0
Vial Number:	47	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	5.0000
Recording Time:	6/30/2010 13:56	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

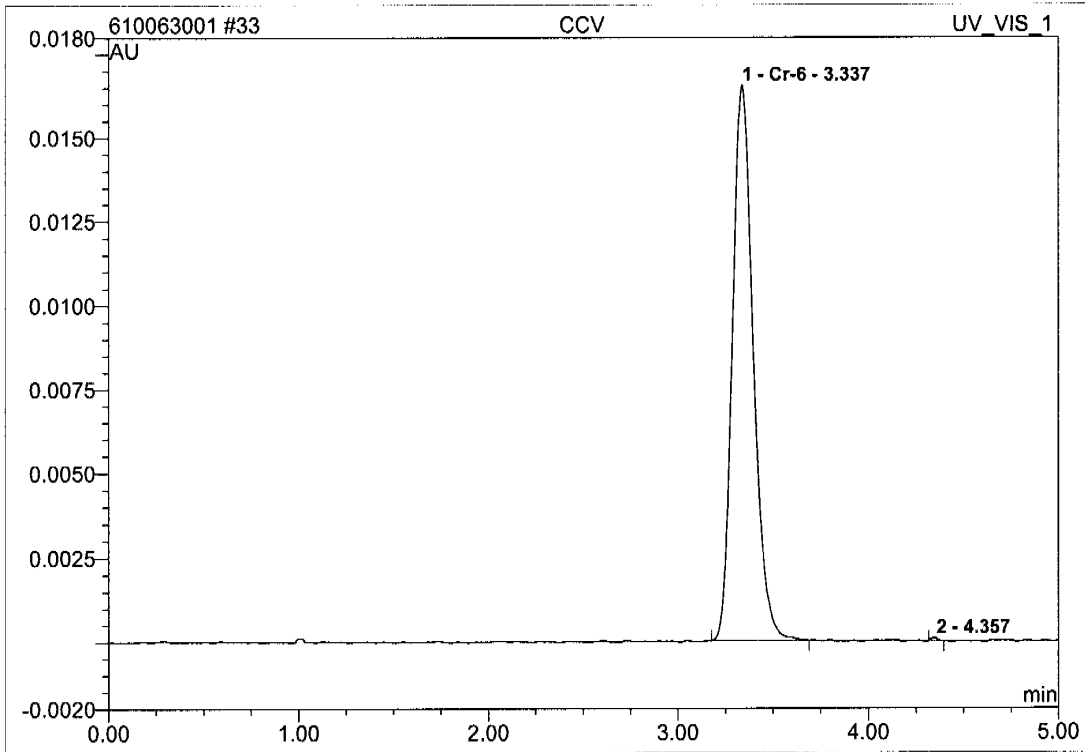


No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.54	n.a.	0.000	0.000	0.59	n.a.	BMB
2	3.33	Cr-6	0.015	0.002	99.41	1.1401	BMB
Total:			0.015	0.002	100.00	1.140	

hexachrome/Integration

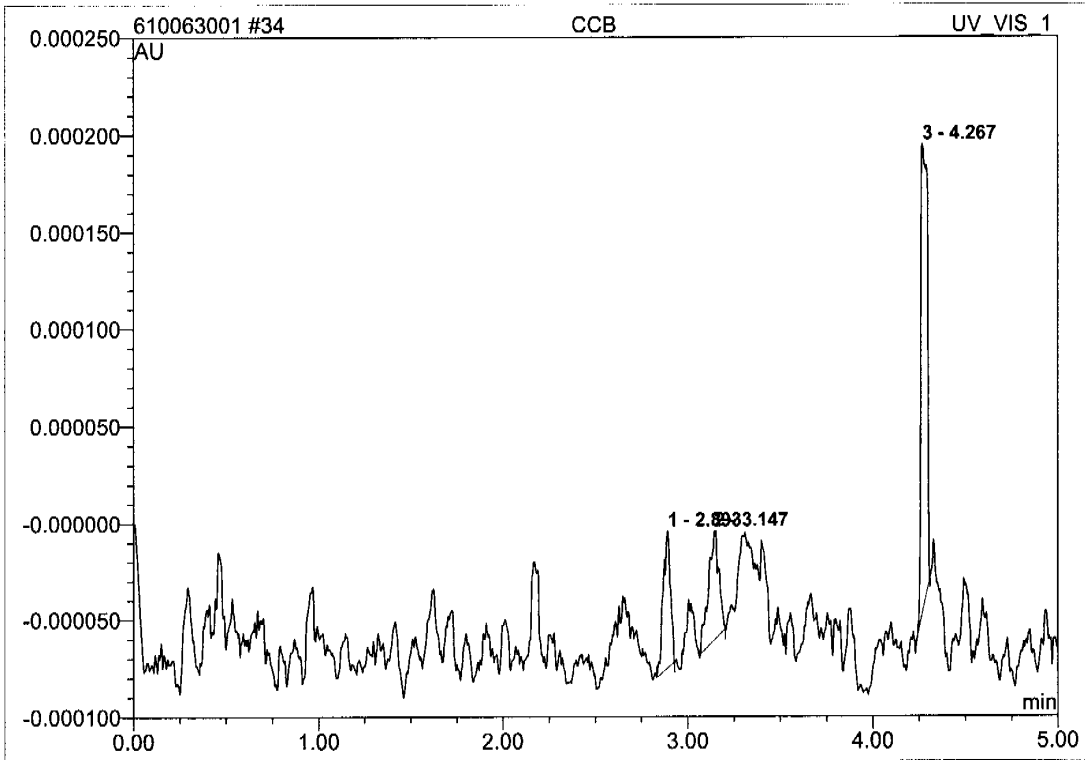
Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

33 CCV			
Sample Name:	CCV	Injection Volume:	25.0
Vial Number:	46	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/30/2010 14:03	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.34	Cr-6	0.017	0.002	99.81	0.2564	BMB
2	4.36	n.a.	0.000	0.000	0.19	n.a.	BMB
Total:			0.017	0.002	100.00	0.256	

34 CCB			
Sample Name:	CCB	Injection Volume:	25.0
Vial Number:	47	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	6/30/2010 14:11	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.89	n.a.	0.000	0.000	19.33	n.a.	BMB
2	3.15	n.a.	0.000	0.000	22.47	n.a.	BMB
3	4.27	n.a.	0.000	0.000	58.21	n.a.	BMB
Total:			0.000	0.000	100.00	0.000	

GN39774

Title: NJCHMIC2_local
Datatype: Accutest12010July
Location: accutest
Timebase: 38
Created: 7/12/2010 8:45:08 AM by Chemistry
Last Update: 7/12/2010 12:11:50 PM by Chemistry

No.	Name	Type	Pos.	Program	Method	Status	Inj. Date/Time	Weight	Dil. Factor
1	BLANKCONF	Unknown	1	hexachrome	hexachrome	Finished	7/12/2010 8:50:05 AM	1.0000	1.0000
2	STDA	Standard	2	hexachrome	hexachrome	Finished	7/12/2010 8:57:30 AM	1.0000	1.0000
3	STDB	Standard	3	hexachrome	hexachrome	Finished	7/12/2010 9:04:54 AM	1.0000	1.0000
4	STDC	Standard	4	hexachrome	hexachrome	Finished	7/12/2010 9:12:18 AM	1.0000	1.0000
5	STDD	Standard	5	hexachrome	hexachrome	Finished	7/12/2010 9:19:42 AM	1.0000	1.0000
6	STDE	Standard	6	hexachrome	hexachrome	Finished	7/12/2010 9:27:06 AM	1.0000	1.0000
7	CCV	Unknown	7	hexachrome	hexachrome	Finished	7/12/2010 9:34:31 AM	1.0000	1.0000
8	CCB	Unknown	8	hexachrome	hexachrome	Finished	7/12/2010 9:41:55 AM	1.0000	1.0000
9	GP54481-MB1	Unknown	9	hexachrome	hexachrome	Finished	7/12/2010 9:49:19 AM	1.0000	1.0000
10	GP54481-MB1	Unknown	10	hexachrome	hexachrome	Finished	7/12/2010 9:56:43 AM	1.0000	1.0000
11	GP54481-B1	Unknown	11	hexachrome	hexachrome	Finished	7/12/2010 10:04:08 AM	1.0000	4.0000
12	GP54481-B1	Unknown	12	hexachrome	hexachrome	Finished	7/12/2010 10:11:32 AM	1.0000	4.0000
13	GP54481-B2	Unknown	13	hexachrome	hexachrome	Finished	7/12/2010 10:18:56 AM	1.0000	80.0000
14	GP54481-B2	Unknown	14	hexachrome	hexachrome	Finished	7/12/2010 10:26:20 AM	1.0000	80.0000
15	GP54481-S2	Unknown	15	hexachrome	hexachrome	Finished	7/12/2010 10:33:45 AM	1.0000	1.0000
16	GP54481-S1	Unknown	16	hexachrome	hexachrome	Finished	7/12/2010 10:41:09 AM	1.0000	1.0000
17	GP54481-D1	Unknown	17	hexachrome	hexachrome	Finished	7/12/2010 10:48:33 AM	1.0000	1.0000
18	GP54481-D1	Unknown	18	hexachrome	hexachrome	Finished	7/12/2010 10:55:57 AM	1.0000	1.0000
19	JA48997-15AR	Unknown	19	hexachrome	hexachrome	Finished	7/12/2010 11:03:22 AM	1.0000	1.0000
20	JA48997-14AR	Unknown	20	hexachrome	hexachrome	Finished	7/12/2010 11:10:46 AM	1.0000	1.0000
21	JA48997-14AR	Unknown	21	hexachrome	hexachrome	Finished	7/12/2010 11:18:10 AM	1.0000	1.0000
22	GP54481-B2	Unknown	22	hexachrome	hexachrome	Finished	7/12/2010 11:25:34 AM	1.0000	1.0000
23	GP54481-B1	Unknown	23	hexachrome	hexachrome	Finished	7/12/2010 11:32:59 AM	1.0000	1.0000
24	CCV	Unknown	24	hexachrome	hexachrome	Finished	7/12/2010 11:40:23 AM	1.0000	1.0000
25	CCB	Unknown	25	hexachrome	hexachrome	Finished	7/12/2010 11:47:47 AM	1.0000	1.0000
26	JA48997-15AR	Unknown	26	hexachrome	hexachrome	Finished	7/12/2010 11:55:11 AM	1.0000	5.0000
27	JA48997-15AR	Unknown	27	hexachrome	hexachrome	Finished	7/12/2010 12:02:35 PM	1.0000	5.0000

[Handwritten signature]
7/12/10

Sequence: 610071201
Operator: Chemistry

Title:

Datasource: NJCHMIC2_local
Location: Accutest\2010\July
Timebase: accutest
#Samples: 38

Created: 7/12/2010 8:45:08 AM by Chemistry
Last Update: 7/12/2010 12:11:50 PM by Chemistry

No.	Name	Type	Pos.	Program	Method	Status	Inj. Date/Time	Weight	Dil. Factor
28	JA48997-19AR	Unknown	29	hexachrome	hexachrome	Finished	7/12/2010 12:10:00 PM	1.0000	1.0000
29	JA48997-19AR	Unknown	30	hexachrome	hexachrome	Finished	7/12/2010 12:17:24 PM	1.0000	1.0000
30	GP54481-S2	Unknown	31	hexachrome	hexachrome	Finished	7/12/2010 12:24:48 PM	1.0000	60.0000
31	GP54481-S2	Unknown	32	hexachrome	hexachrome	Finished	7/12/2010 12:32:12 PM	1.0000	60.0000
32	GP54481-S1	Unknown	33	hexachrome	hexachrome	Finished	7/12/2010 12:39:36 PM	1.0000	1.0000
33	GP54481-D1	Unknown	34	hexachrome	hexachrome	Finished	7/12/2010 12:47:01 PM	1.0000	4.0000
34	GP54481-D1	Unknown	35	hexachrome	hexachrome	Finished	7/12/2010 12:54:24 PM	1.0000	4.0000
35	GP54481-PS1	Unknown	36	hexachrome	hexachrome	Finished	7/12/2010 1:01:49 PM	1.0000	15.0000
36	GP54481-PS1	Unknown	37	hexachrome	hexachrome	Finished	7/12/2010 1:09:13 PM	1.0000	15.0000
37	CCV	Unknown	38	hexachrome	hexachrome	Finished	7/12/2010 1:16:37 PM	1.0000	1.0000
38	CCB	Unknown	39	hexachrome	hexachrome	Finished	7/12/2010 1:24:01 PM	1.0000	1.0000

6239774

ACCUTEST LABS DAYTON, NJ 3060A7199 POST-DIGEST SPIKE LEVEL CALCULATION SPREADSHEET

NOTE: Always dilute post-spike first, then take a 20 ml aliquot of the diluted post-spike and add the spike amount.

Sample ID	PS Aliquot Weight in g Digested in 100 ml	Weight in 20 ml	Results in mg/kg.	Amount in ml to add of 100 ppm solution	Dilution needed	Suggested Dilution to use	Actual Dilution to be used	Suggested ml of 100 ppm to spike on dilution of sample.	Actual ml of 100 ppm to spike on dilution of sample.	Est. Read-back on curve in mg/l	Calculated Spike Amount in mg/kg	Use calculated or default spike?
0.544 ml	10 ppm abs	in 2 ml	sample	fv = 30 ml								
				#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
				#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
				#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
				#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
				#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
				#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
				#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
				#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
				#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
				#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike
				#VALUE!	#VALUE!	#VALUE!		#VALUE!		#VALUE!	#VALUE!	calculated spike

3060A7196A INSOLUBLE SPIKE CALCULATION

Weight of PbCrO4	Weight of Sample	Amount Spiked	To enter for 7199 in mg/l
0.0103	2.59	639.837	16.57178
0.0122	2.5	785.149	19.62871
		#DIV/0!	#DIV/0!
		#DIV/0!	#DIV/0!
		#VALUE!	#VALUE!
		#VALUE!	#VALUE!
		#VALUE!	#VALUE!
		#VALUE!	#VALUE!



ACCUTEST

Hexavalent Chromium pH Adjustment Log

Method: SW846 3060A/7199

Reducing

pH adj. start time:

9:18

Digestion Date:

7/8/2010

pH adj. end time:

10:04

pH adj. Date:

7/12/2010

GN Batch ID:

GN39774

Bottle #

Sample ID	Sample Weight in g	pH after HNO3	Final Volume (ml)	Spike Amounts	Comments
GP54481					
CCV		9.35	100	5ml	5ppm Ultra
CCV				↓	↓
CCV					
CCV					
CCB		9.35	100		
CCB					
CCB					
CCB					
MS (Sol) AURON-15AK	2.52	9.47	100	1ml	100 ppm Absolute
MS (Insol.) ↓	2.59	9.35		0.0103	Red. O.
DUP ↓	2.54	9.42			
SB (Sol)		9.30		1ml	100 ppm Absolute
SB (Insol)		9.3		0.0122	ppm O4
MB		9.35			
1 AURON-15AK	2.54	9.19			
2 AURON-14AK	2.57	9.31			
3 AURON-19AK	2.54	9.34			
4 PSI	2.54	9.18		0.544 ml of	10 ppm Absolute in 2ml Sample ↑ 30ml
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
SB (Insol)					dilution
MS (Insol.)					dilution

1 ↓

20.8

Reagent Reference Information - refer to attached reagent reference information page(s).
 (1000000 ug/g x Insoluble spike wt(g) x 52/323.2)/ms sample wt(g) = Insoluble spike amount of PbCrO4

Form: GN-067A
 Rev. Date: 5/8/06

GN/GP Batch ID: GP54481 | GN39774

Reagent Information Log - XCRA7199 (soil 3060A/7199)

Reagent	Exp. Date	Reagent # or Manufacturer/Lot
Calibration Source: Hexavalent Chromium, 1000 mg/L Stock	1/1/2013	Absolute Grade Lot # 012010
Calibration Checks: Hexavalent Chromium, 1000 mg/L Stock	7/31/2015	Ultra lot # J00509
Spiking Solution Source	1/1/2013	Absolute Grade Lot # 012010
Lead Chromate (Insoluble Hexavalent Chromium Spike)	NA	Sigma Aldrich Lot # 09921LC
Digestion Solution	7/30/10	GNE6-25430-XCR
Magnesium Chloride, Anhydrous	NA	Alfa Aesar Lot # I02T070
Phosphate Buffer Solution	12/8/10	GNE6-25218-XCRA
5.0 M Nitric Acid	1/1/2011	GNE7-25472-XCRA
Post-Column Reagent (Diphenylcarbazide Solution)	7/17/10	GNE7-25519-1CXCC
Eluent	12/10/10	GNE6-25591-1CXCR
Buffer Solution	12/22/10	GNE6-25350-1CXCR
XCRA7199 Dilution Water	12/3/10	GNE6-25383-1CXCR
Filter	N/A	lot # FOCA84866
Teflon Chips DDS	N/A 7/18/10	chemware # D1069103 GNE6-25403-1CXCC

Form: GN087A-21
Rev. Date: 2/18/10

GP54481



Hexavalent Chromium Digestion Temperature Log

Method: SW846 3060A

Record the temperature at the beginning, during, and at the end of each digestion.

Digestion Batch ID	Description	Time	Temp. in deg. C Hot Plate # 1	Temp. in deg. C Hot Plate # 2	Temp. in deg. C Hot Plate # 3	Temp. in deg. C Hot Plate # 1
GP54481	Starting Time	9:15	94°C		91°C	
	Time 1	9:45				
	Ending Time	10:15				
	Starting Time					
	Time 1					
	Ending Time					
	Starting Time					
	Time 1					
	Ending Time					
	Starting Time					
	Time 1					
	Ending Time					

Form: GN-074 Rev. Date: 5/8/06

Analyst: NP Date: 7/8/2010

GP-34774



Hexavalent Chromium pH Adjustment Log

Method: SW846 3060A/7199

pH adj. start time: 8:31
pH adj. end time: 8:35

pH adjustment Date: 7/12/2010
GN Batch ID: GN39774

Sample ID	Sample Weight in g	pH after HNO3	Final Volume (ml)	Comments	Spike Info.
Calibration Blank	NA	9.41	100		
0.005 mg/l standard	NA	9.10	↓	10ppm Absolute	0.50 ml of 1.00 mg/l
0.050 mg/l standard	NA	9.42			
0.100 mg/l standard	NA	9.27	↓	10ppm Absolute	1.00 ml of 10.0 mg/l
0.500 mg/l standard	NA	9.41			

6.6
6

Reagent Reference Information - refer to attached reagent reference information page(s).
{1000000 ug/g x Insoluble spike wt(g) x 52/323.2}/ms sample wt(g) = Insoluble spike amount of PbCrO4

Form: GN-068A
Rev. Date: 05/08/06



GENERAL CHEMISTRY STANDARD PREPARATION LOG

Product: XRA 199 (Soil)

GN or GP Number: 632774

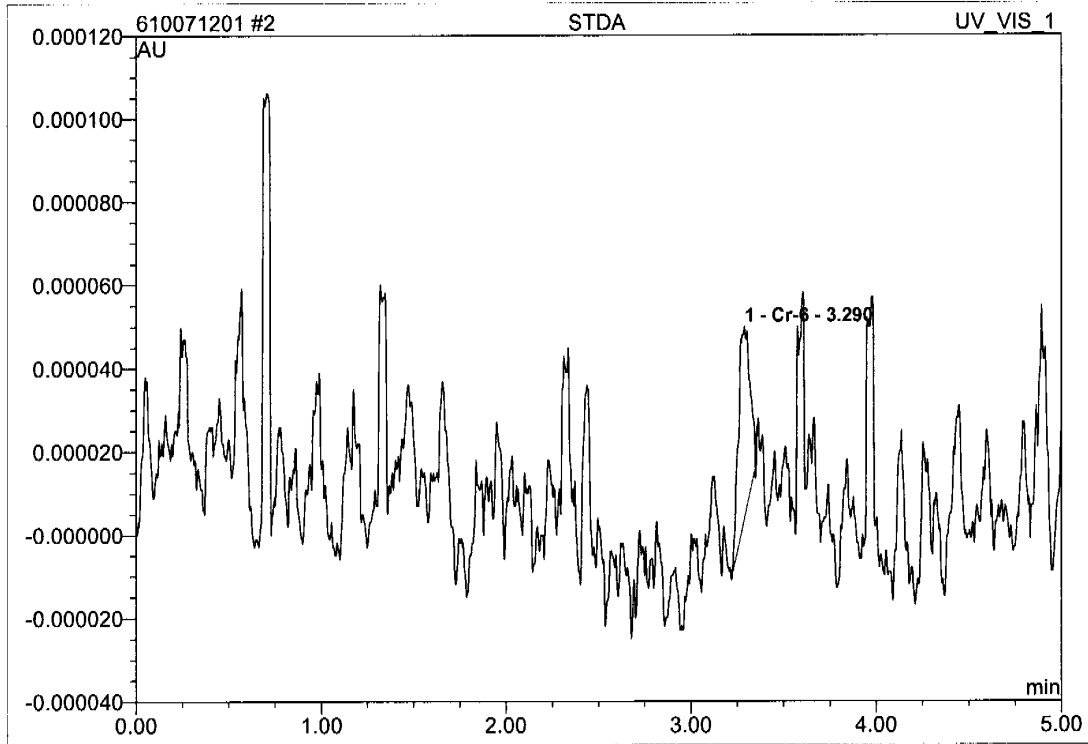
Intermediate Standard Description	Stock used to prepare standard	Stock concentration	Stock volume or weight used with units	Balance or Autopipet ID (*)	Diluent	Final Volume	Final Conc. of Intermediate (mg/l)	Expiration Date	Analyst	Date
10.0 mg/L Absolute	Absolute 042610	1000 mg/L	1.0 mL	A	Dilution	100 mL	10.0 mg/L	4/26/2013	BD	7/12/10
1.0 mg/L Absolute	10.0 mg/L Absolute	10.0 mg/L	10.0 mL	A	Water	100 mL	1.0 mg/L	4/26/2013		
5.0 mg/L Ultra	Ultra J00509	1000 mg/L	1.0 mL	A	DI H2O	200 mL	5.0 mg/L	7/31/2015		
Standard Description	Intermediate or Stock used to prepare standard	Intermediate or Stock concentration	Intermediate or Stock volume used in ml	Balance or Autopipet ID (*)	Diluent	Final Volume	Final Conc. of Standard (mg/l)	Expiration Date	Analyst	Date
0.005 mg/L	1.0 mg/L Absolute	1.0 mg/L	0.50 mL	A	Digestion solution	100 mL	0.005	7/12/10	BD	7/12/10
0.050 mg/L	1.0 mg/L Absolute	1.0 mg/L	5.0 mL	A	and DI	100 mL	0.05			
0.100 mg/L	10 mg/L Absolute	10.0 mg/L	1.0 mL	A	Water	100 mL	0.1			
0.500 mg/L	10 mg/L Absolute	10.0 mg/L	5.0 mL	A		100 mL	0.5			

* If Class A glass pipets are used, enter an A. For balances or autopipets, then enter the appropriate Accutest ID number.

Form: GN121-01 Rev. Date: 1/13/09



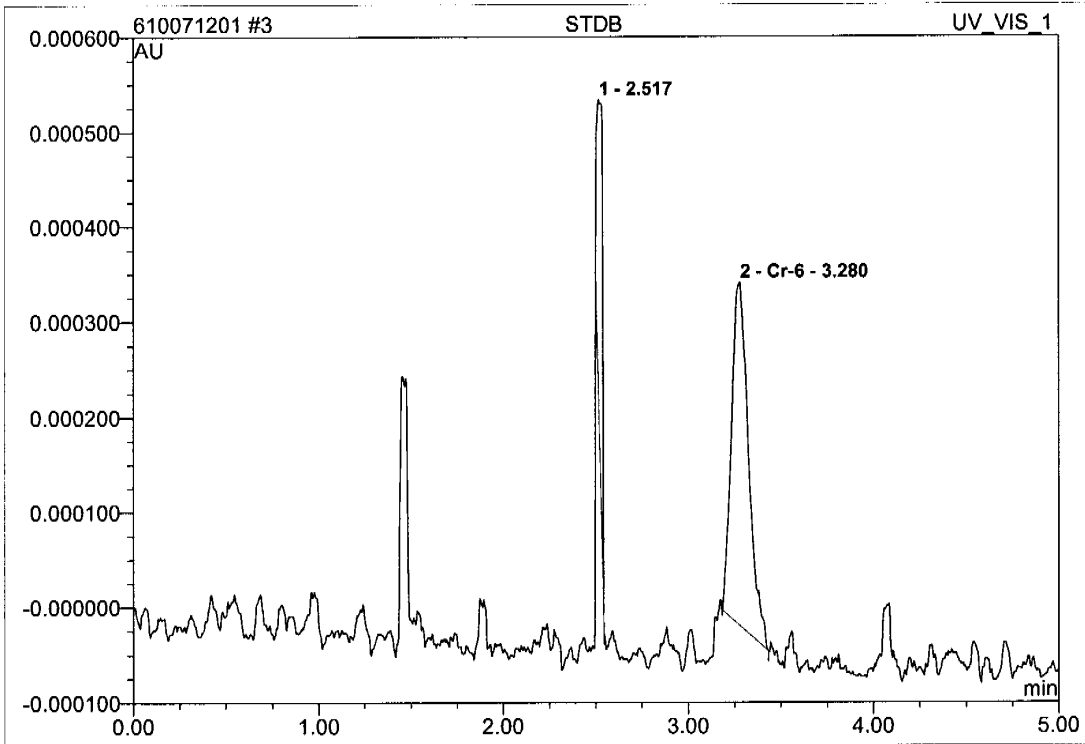
2 STDA			
Sample Name:	STDA	Injection Volume:	25.0
Vial Number:	2	Channel:	UV_VIS_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/12/2010 8:57	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.29	Cr-6	0.000	0.000	100.00	0.0015	BMB
Total:			0.000	0.000	100.00	0.001	

6.6
6

3 STDB			
Sample Name:	STDB	Injection Volume:	25.0
Vial Number:	3	Channel:	UV_VIS_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/12/2010 9:04	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



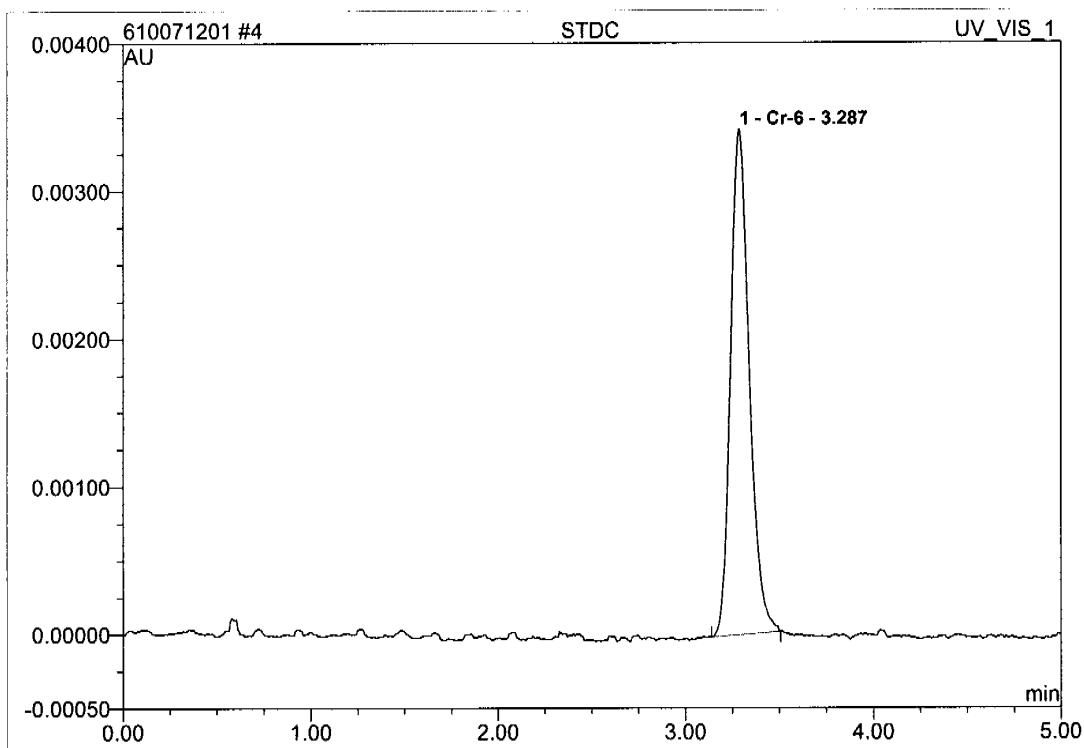
No.	Ret. Time min	Peak Name	Height AU	Area AU*min	Rel. Area %	Amount ppm	Type
1	2.52	n.a.	0.000	0.000	25.55	n.a.	BMB
2	3.28	Cr-6	0.000	0.000	74.45	0.0056	BMB
Total:			0.001	0.000	100.00	0.006	

hexachrome/Integration

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6.6
6

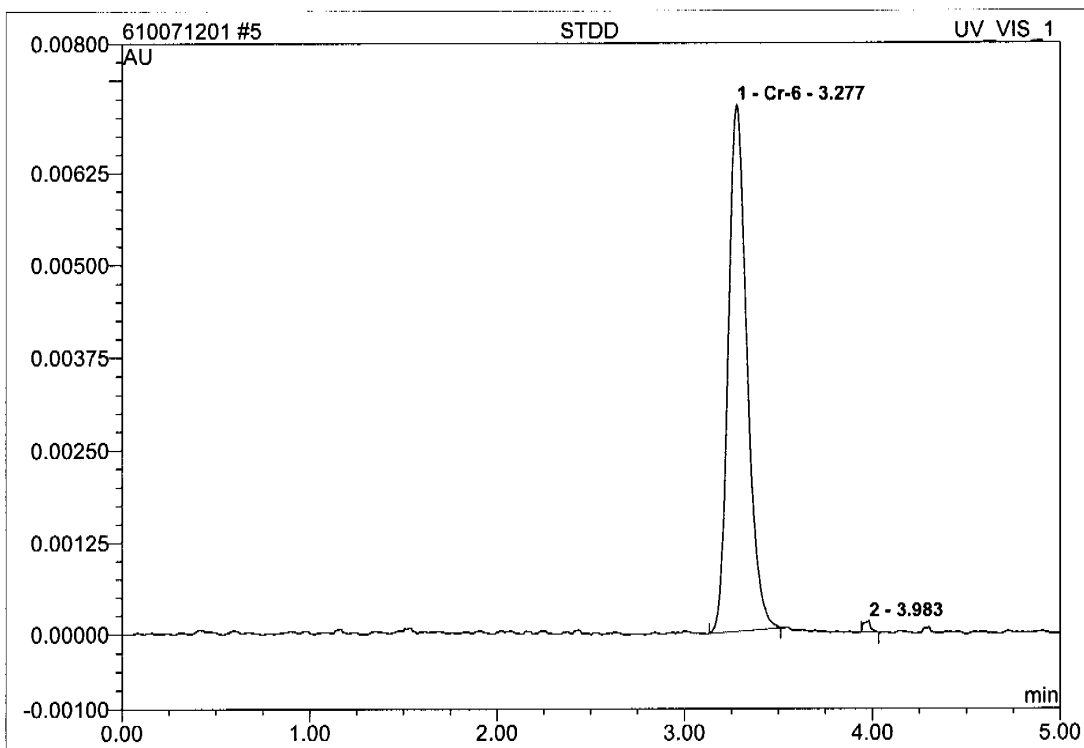
4 STDC			
Sample Name:	STDC	Injection Volume:	25.0
Vial Number:	4	Channel:	UV_VIS_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/12/2010 9:12	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.29	Cr-6	0.003	0.000	100.00	0.0482	BMB
Total:			0.003	0.000	100.00	0.048	

6.6
9

5 STDD			
Sample Name:	STDD	Injection Volume:	25.0
Vial Number:	5	Channel:	UV_VIS_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/12/2010 9:19	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

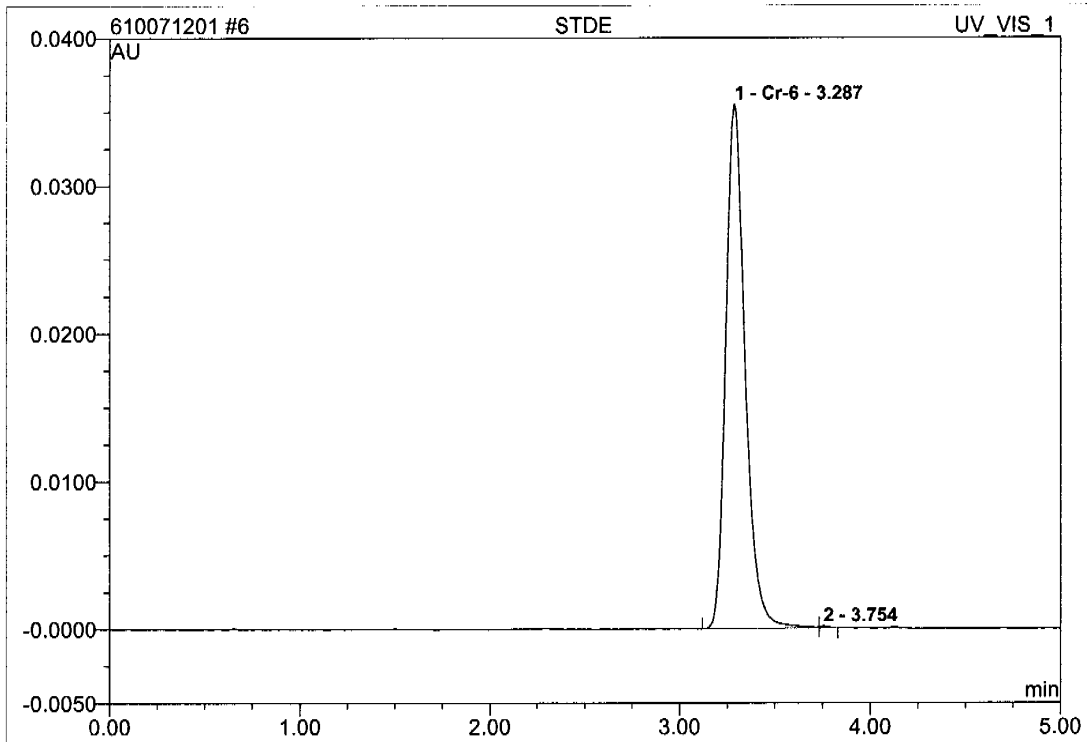


No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.28	Cr-6	0.007	0.001	99.17	0.0995	BMB
2	3.98	n.a.	0.000	0.000	0.83	n.a.	BMB
Total:			0.007	0.001	100.00	0.099	

6.6
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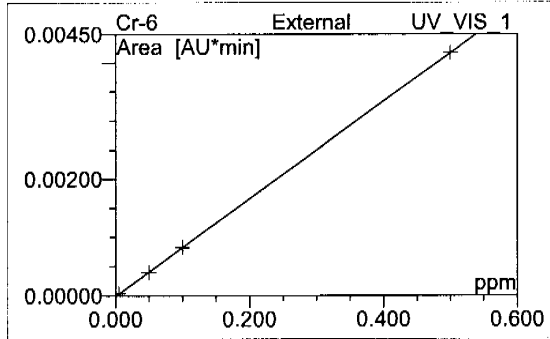
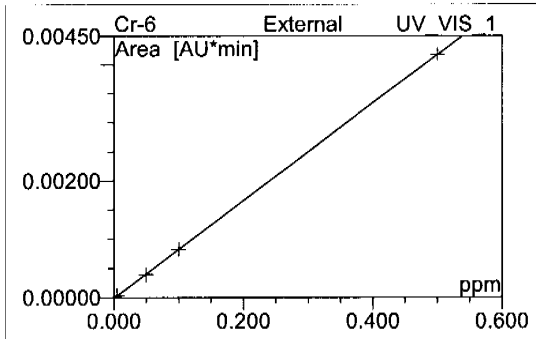
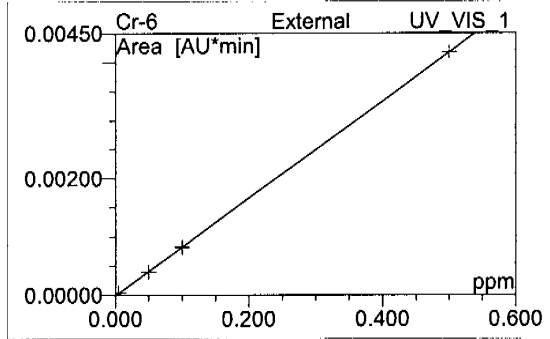
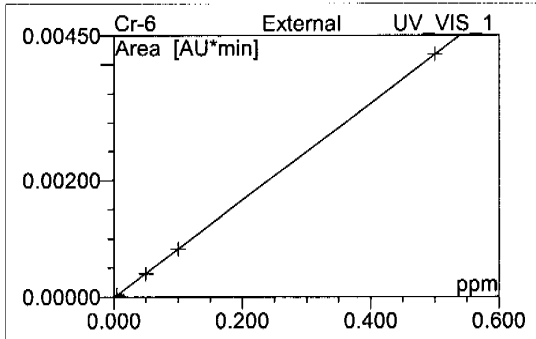
6 STDE

Sample Name:	STDE	Injection Volume:	25.0
Vial Number:	6	Channel:	UV_VIS_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/12/2010 9:27	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.29	Cr-6	0.035	0.004	99.85	0.5003	BM
2	3.75	n.a.	0.000	0.000	0.15	n.a.	MB
Total:			0.036	0.004	100.00	0.500	

6 STDE			
Sample Name:	STDE	Injection Volume:	25.0
Vial Number:	6	Channel:	UV_VIS_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/12/2010 9:27	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

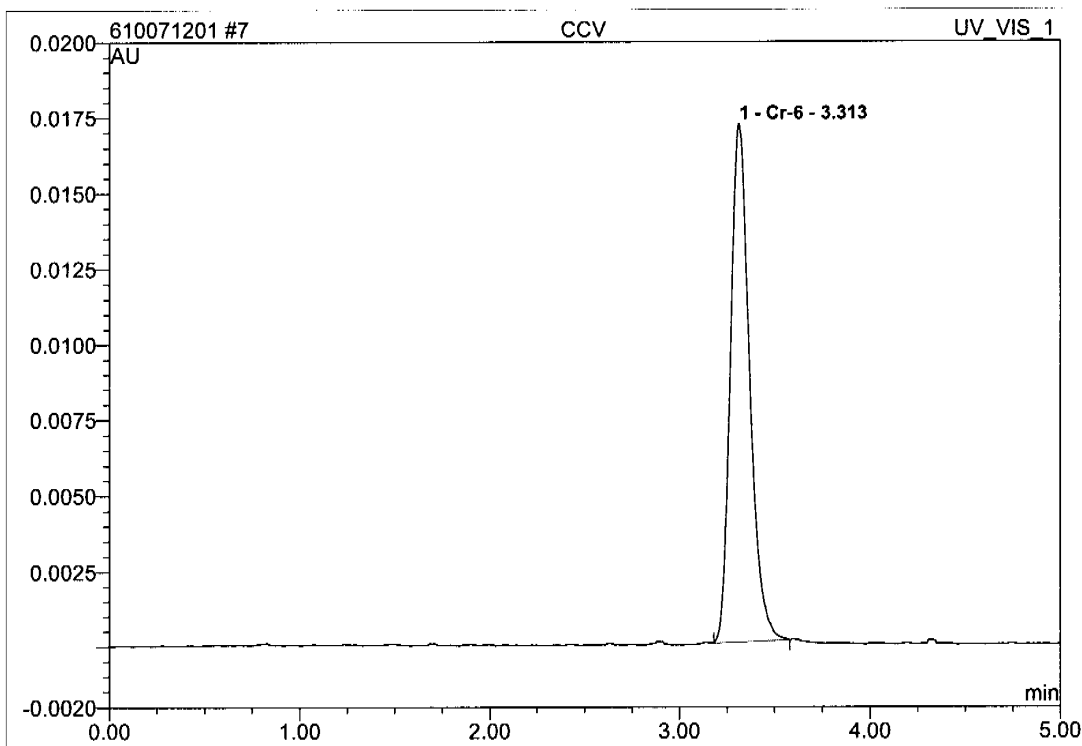


No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	3.29	Cr-6	LOff	5	99.9965	0.0000	0.0084	0.0000
2	3.75	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Average:					99.9965	0.0000	0.0084	0.0000

hexachrome/Calibration(Batch)

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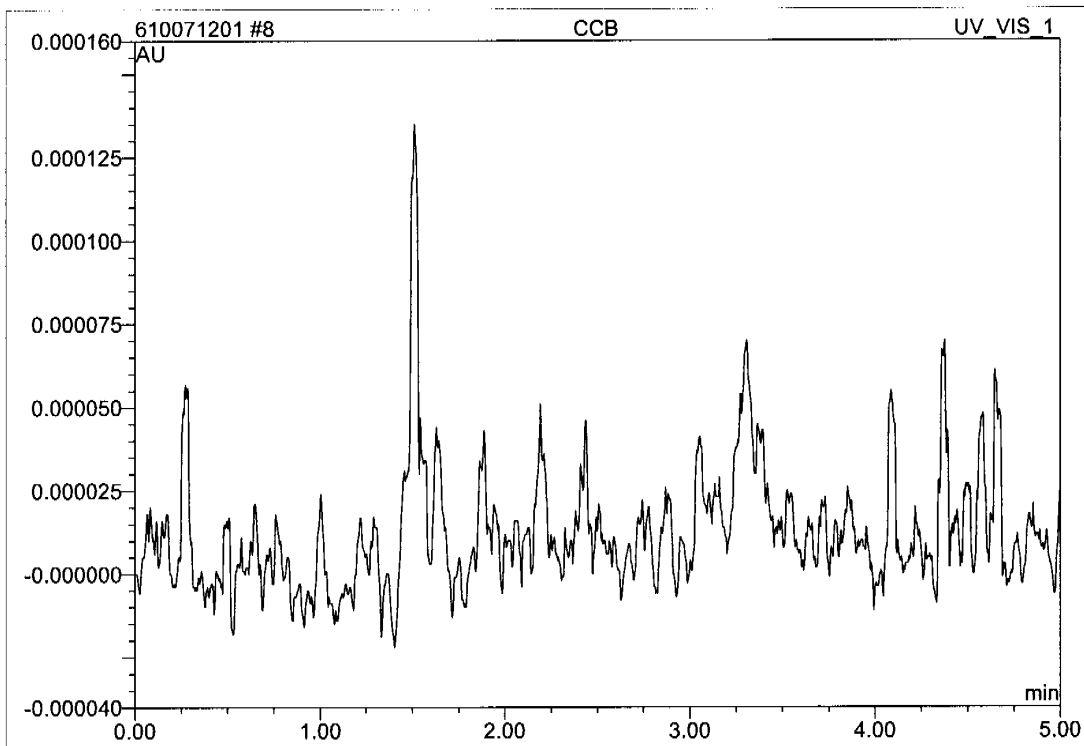
7 CCV			
Sample Name:	CCV	Injection Volume:	25.0
Vial Number:	7	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/12/2010 9:34	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.31	Cr-6	0.017	0.002	100.00	0.2400	BMB
Total:			0.017	0.002	100.00	0.240	

6.6
6

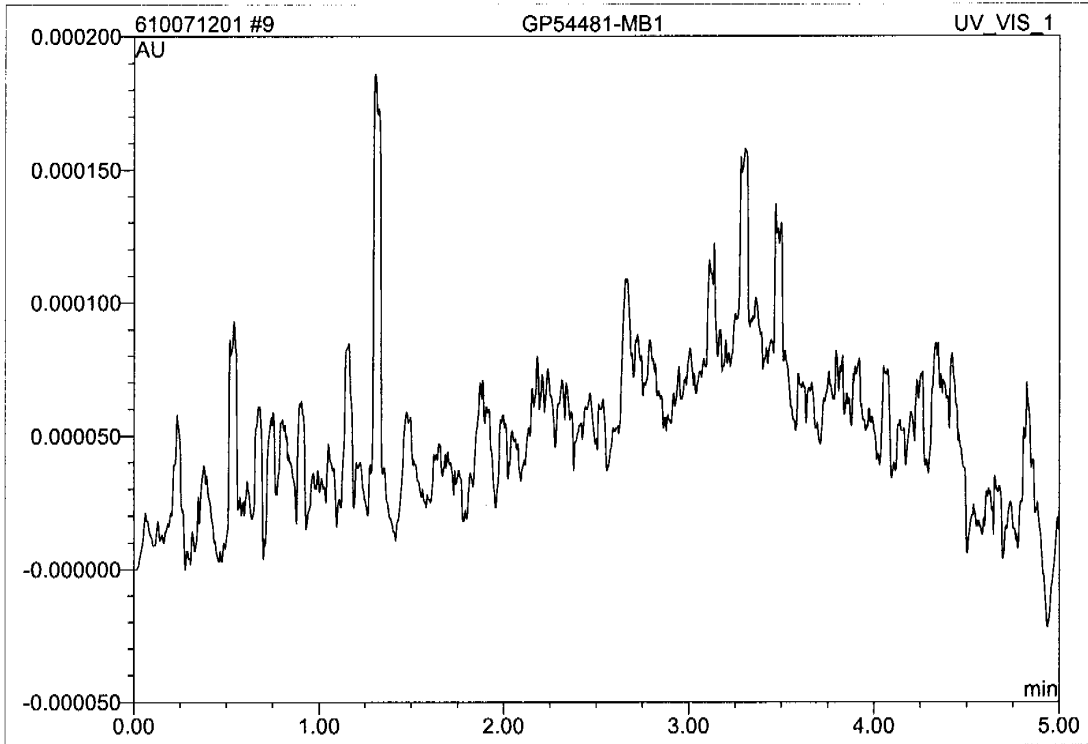
8 CCB			
Sample Name:	CCB	Injection Volume:	25.0
Vial Number:	8	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/12/2010 9:41	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

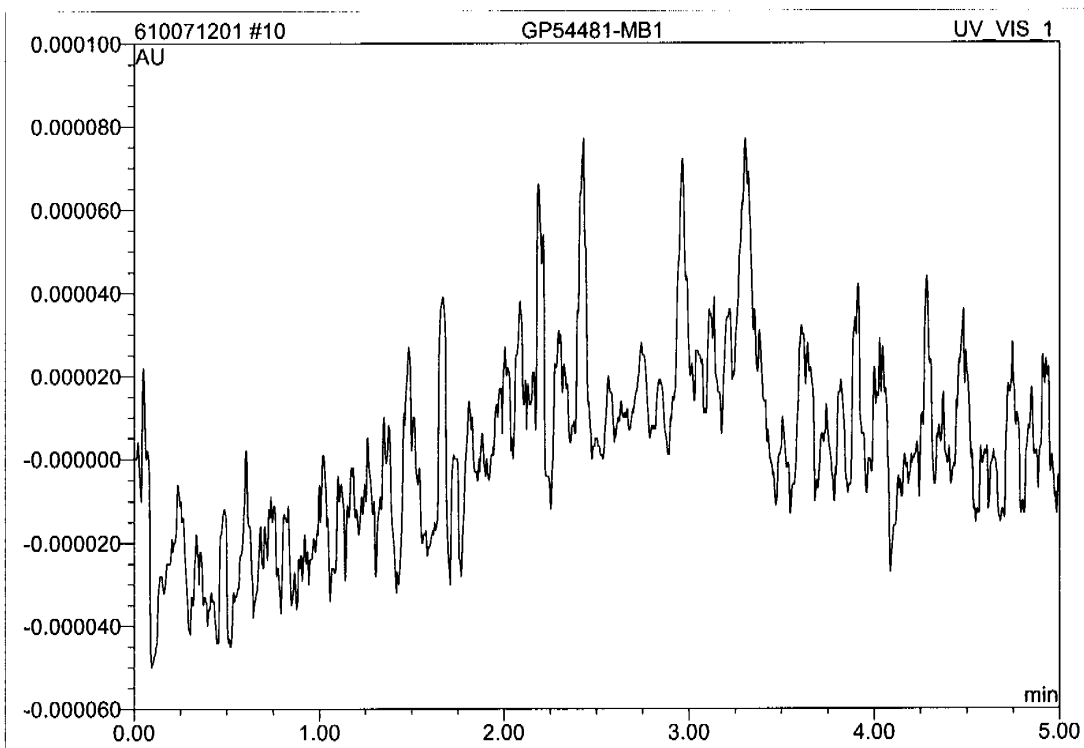
6.6
9

9 GP54481-MB1			
Sample Name:	GP54481-MB1	Injection Volume:	25.0
Vial Number:	9	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/12/2010 9:49	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

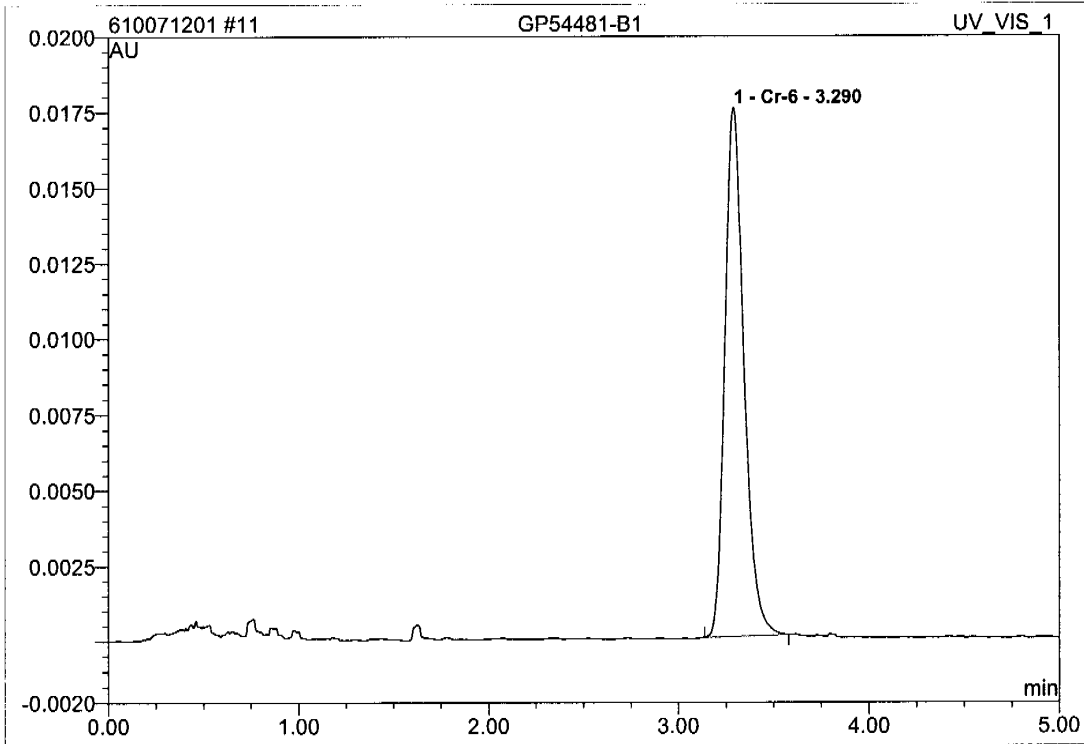
10 GP54481-MB1			
Sample Name:	GP54481-MB1	Injection Volume:	25.0
Vial Number:	10	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/12/2010 9:56	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

6.6
9

11 GP54481-B1			
Sample Name:	GP54481-B1	Injection Volume:	25.0
Vial Number:	11	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	4.0000
Recording Time:	7/12/2010 10:04	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



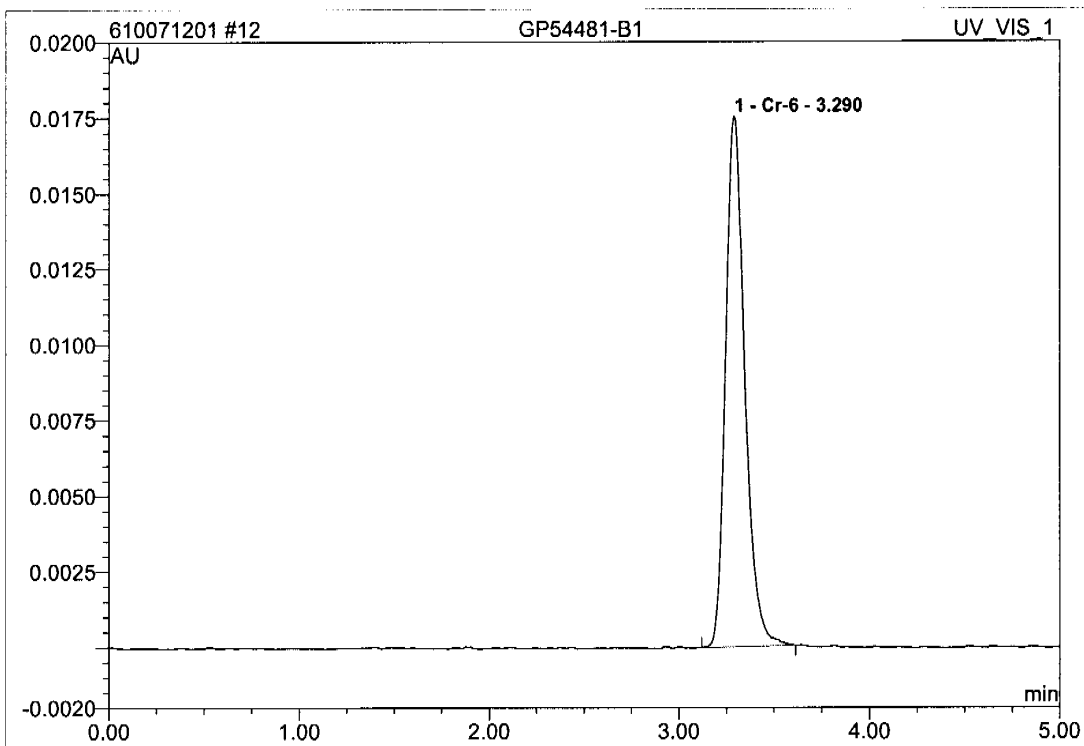
No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.29	Cr-6	0.017	0.002	100.00	0.9756	BMB
Total:			0.017	0.002	100.00	0.976	

hexachrome/Integration

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6.6
9

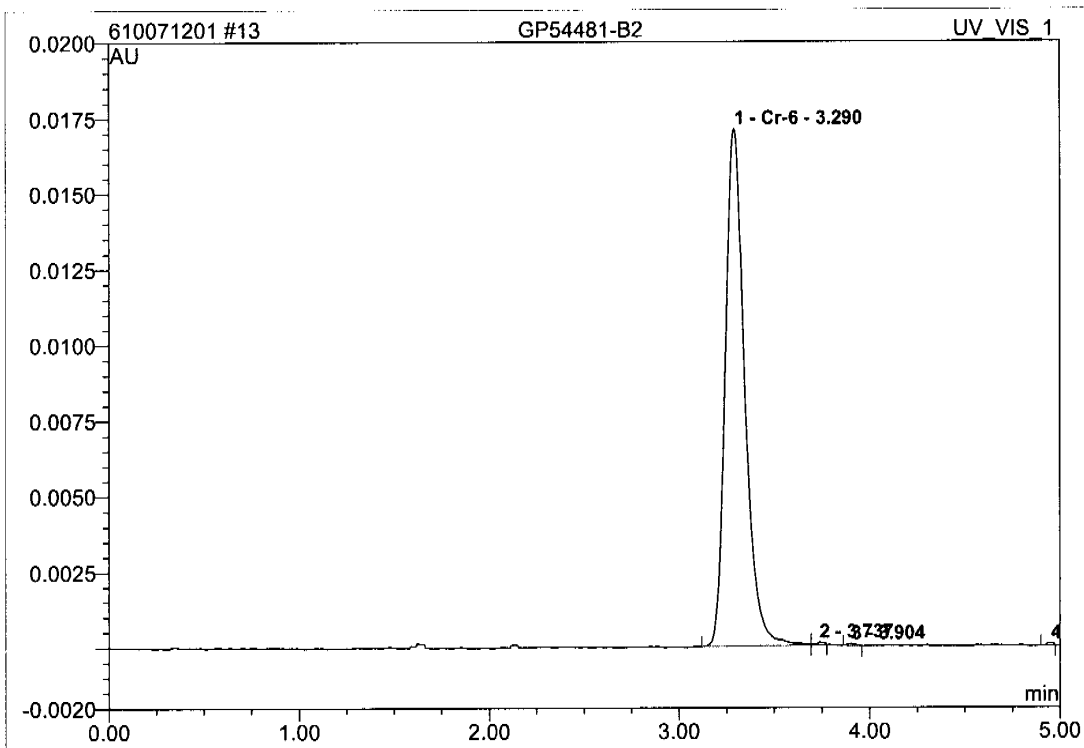
12 GP54481-B1			
Sample Name:	GP54481-B1	Injection Volume:	25.0
Vial Number:	12	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	4.0000
Recording Time:	7/12/2010 10:11	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.29	Cr-6	0.018	0.002	100.00	0.9832	BMB
Total:			0.018	0.002	100.00	0.983	

6.6
9

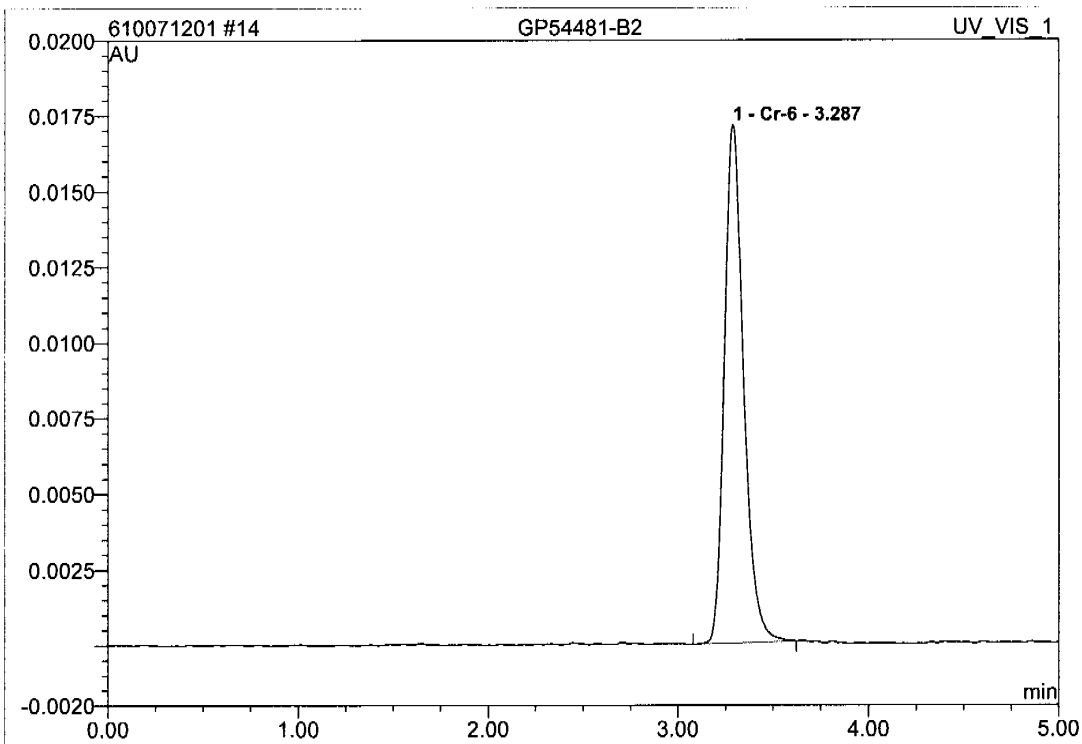
13 GP54481-B2			
Sample Name:	GP54481-B2	Injection Volume:	25.0
Vial Number:	13	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	80.0000
Recording Time:	7/12/2010 10:18	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.29	Cr-6	0.017	0.002	99.44	19.3983	BM
2	3.74	n.a.	0.000	0.000	0.22	n.a.	MB
3	3.90	n.a.	0.000	0.000	0.17	n.a.	BMB
4	4.95	n.a.	0.000	0.000	0.17	n.a.	BMB
Total:			0.017	0.002	100.00	19.398	

6.6
9

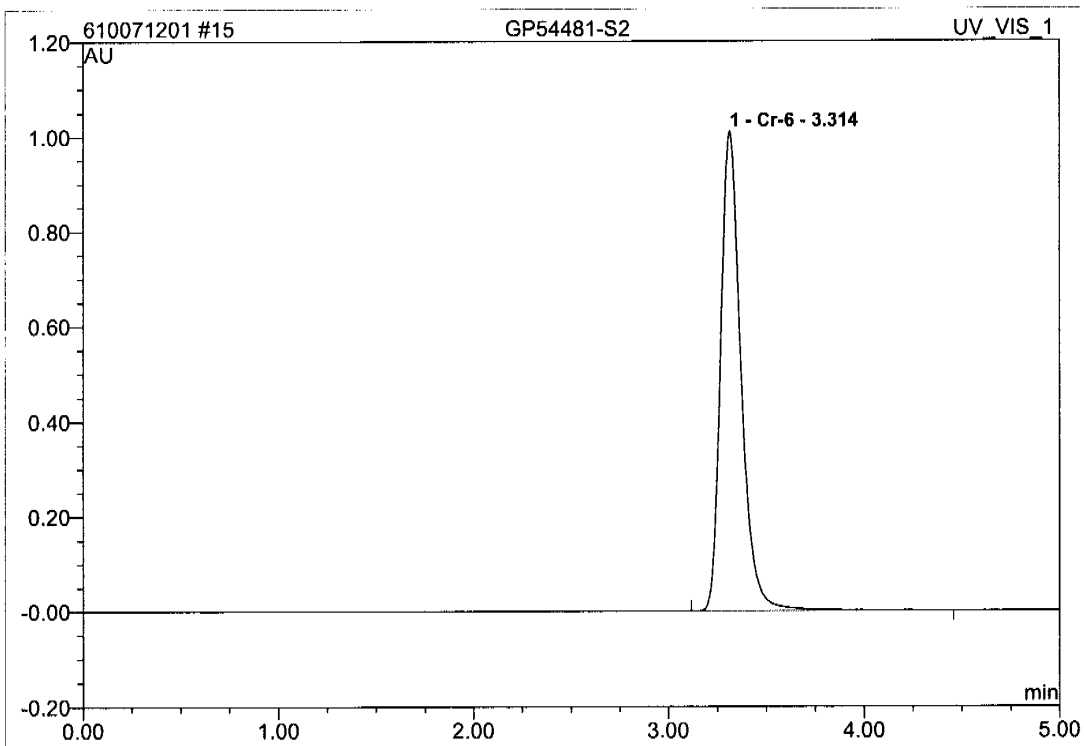
14 GP54481-B2			
Sample Name:	GP54481-B2	Injection Volume:	25.0
Vial Number:	14	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	80.0000
Recording Time:	7/12/2010 10:26	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.29	Cr-6	0.017	0.002	100.00	19.2244	BMB
Total:			0.017	0.002	100.00	19.224	

6.6
9

15 GP54481-S2			
Sample Name:	GP54481-S2	Injection Volume:	25.0
Vial Number:	15	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/12/2010 10:33	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



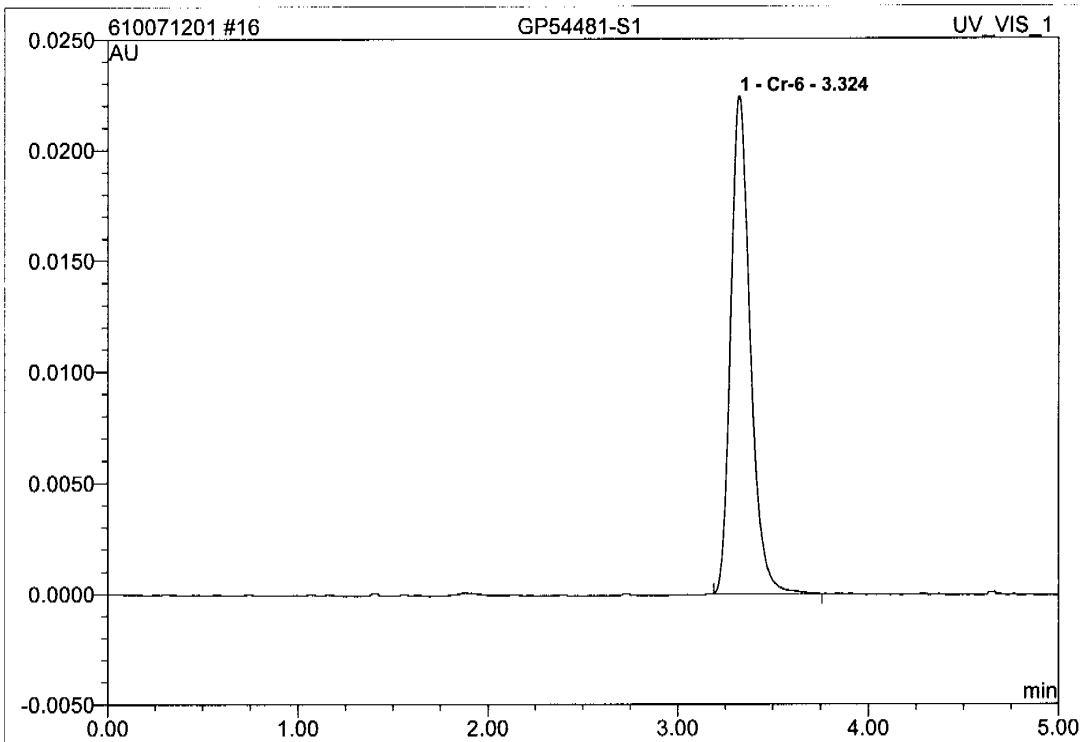
No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.31	Cr-6	1.011	0.122	100.00	14.5795	BMB
Total:			1.011	0.122	100.00	14.580	

hexachrome/Integration

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6.6
9

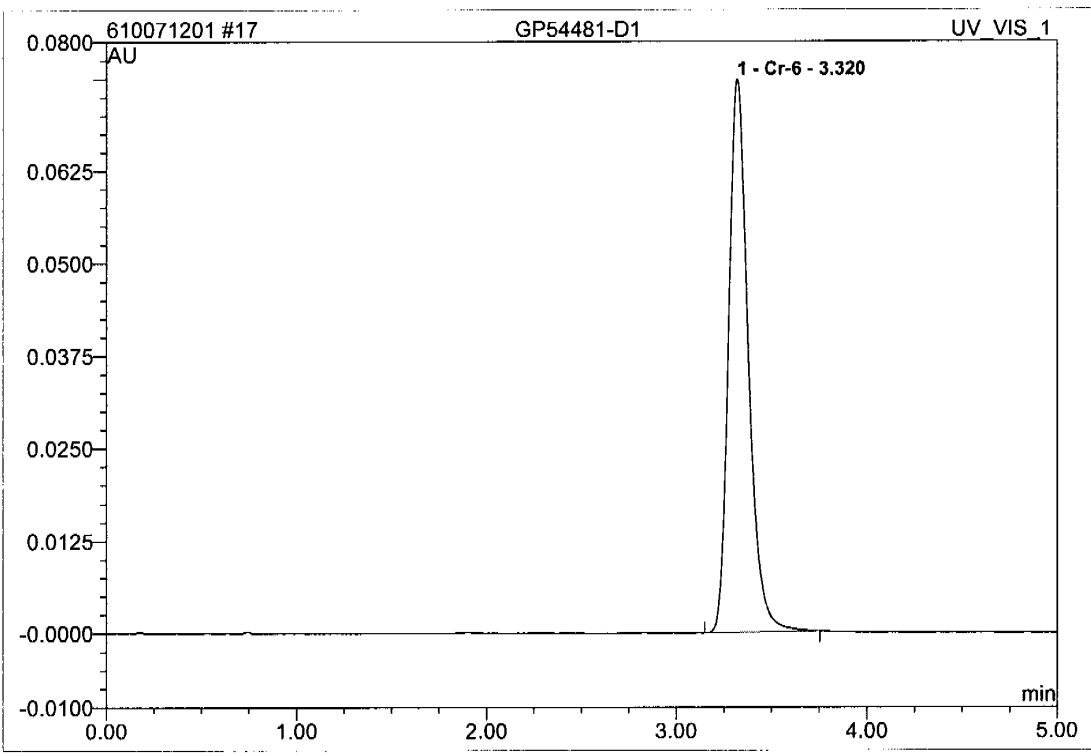
16 GP54481-S1			
Sample Name:	GP54481-S1	Injection Volume:	25.0
Vial Number:	16	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/12/2010 10:41	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.32	Cr-6	0.022	0.003	100.00	0.3189	BMB
Total:			0.022	0.003	100.00	0.319	

6.6
9

17 GP54481-D1			
Sample Name:	GP54481-D1	Injection Volume:	25.0
Vial Number:	17	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/12/2010 10:48	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



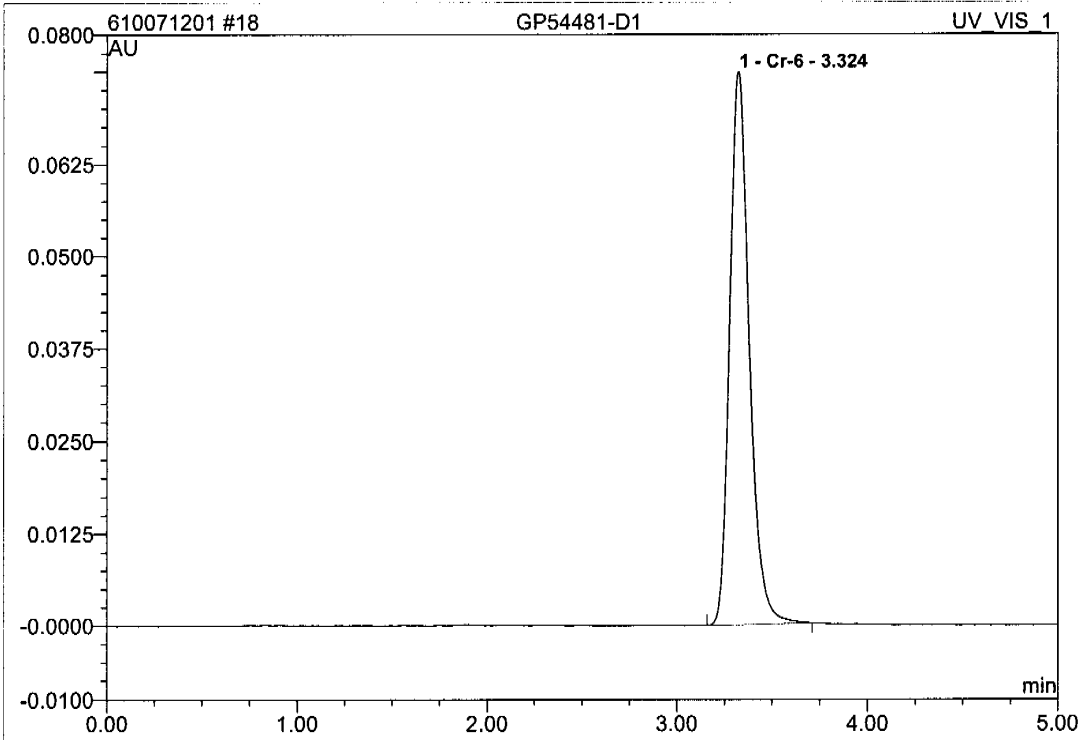
No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.32	Cr-6	0.075	0.009	100.00	1.0657	BMB
Total:			0.075	0.009	100.00	1.066	

hexachrome/Integration

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9

18 GP54481-D1			
Sample Name:	GP54481-D1	Injection Volume:	25.0
Vial Number:	18	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/12/2010 10:55	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



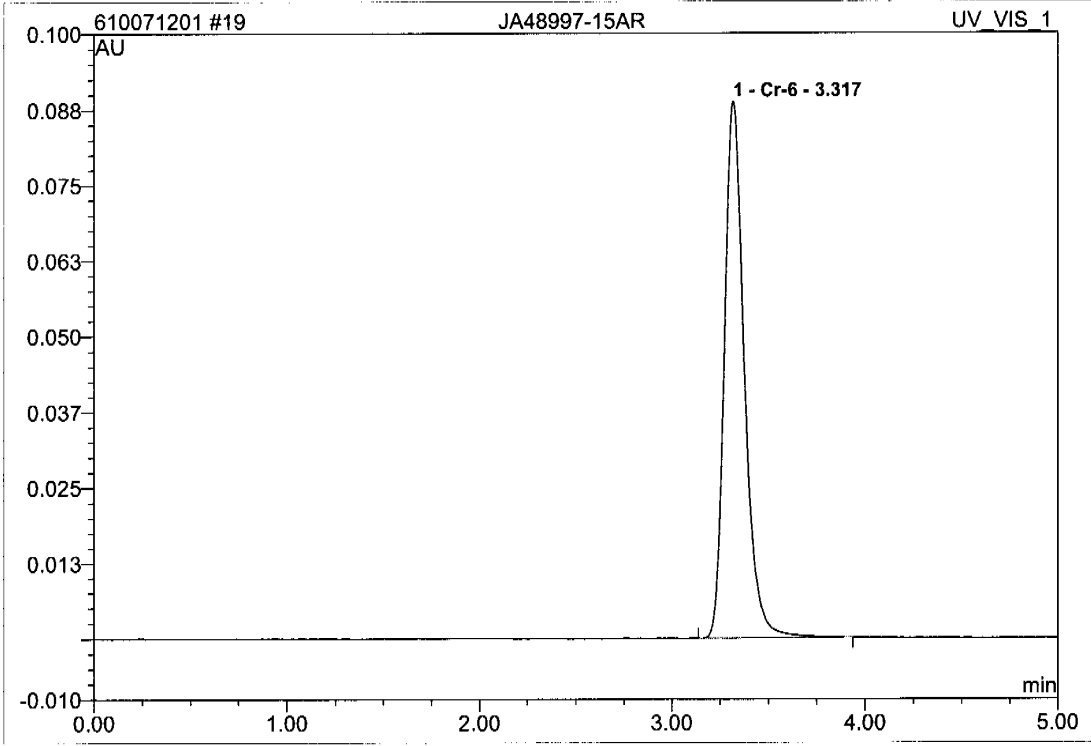
No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.32	Cr-6	0.075	0.009	100.00	1.0663	BMB
Total:			0.075	0.009	100.00	1.066	

hexachrome/Integration

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6.6
9

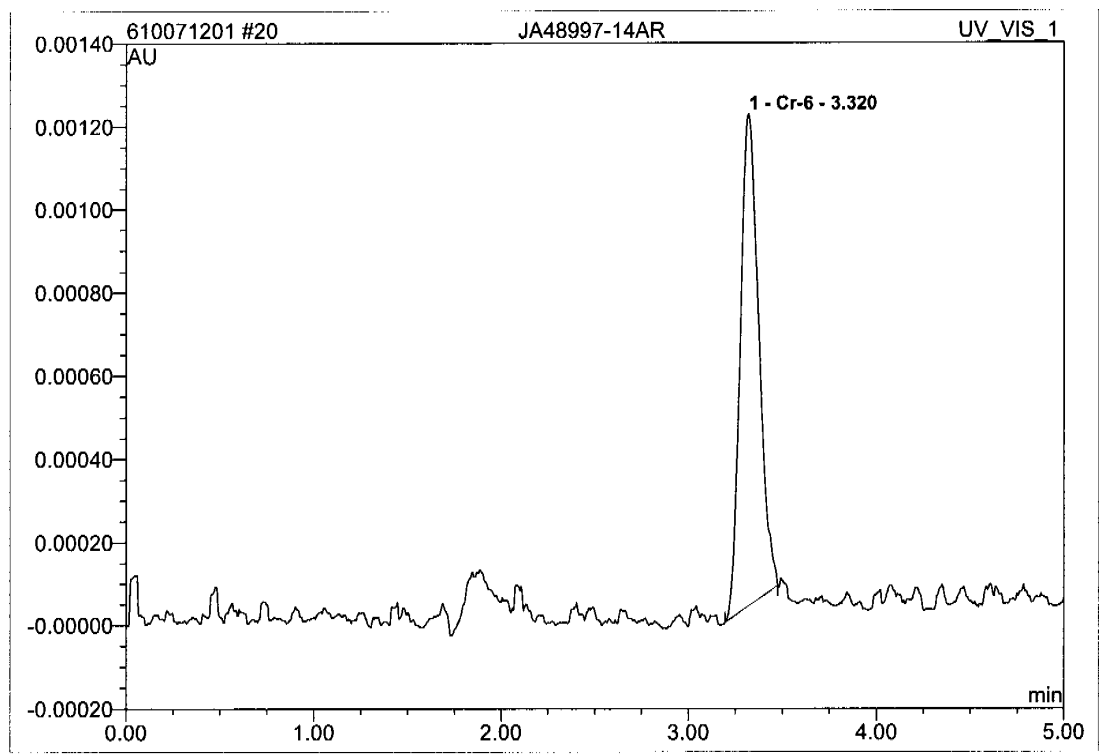
19 JA48997-15AR			
Sample Name:	JA48997-15AR	Injection Volume:	25.0
Vial Number:	19	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/12/2010 11:03	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.32	Cr-6	0.089	0.011	100.00	1.2676	BMB
Total:			0.089	0.011	100.00	1.268	

6.6
6

20 JA48997-14AR			
Sample Name:	JA48997-14AR	Injection Volume:	25.0
Vial Number:	21	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/12/2010 11:10	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



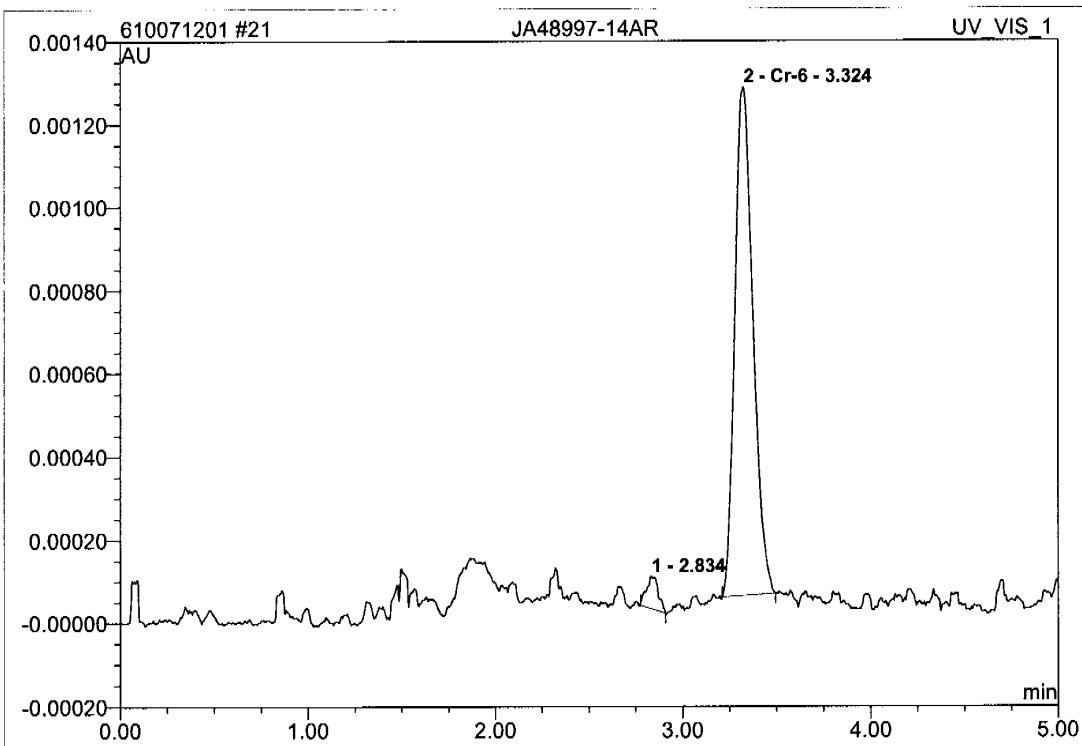
No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.32	Cr-6	0.001	0.000	100.00	0.0171	BMB
Total:			0.001	0.000	100.00	0.017	

hexachrome/Integration

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6.6
9

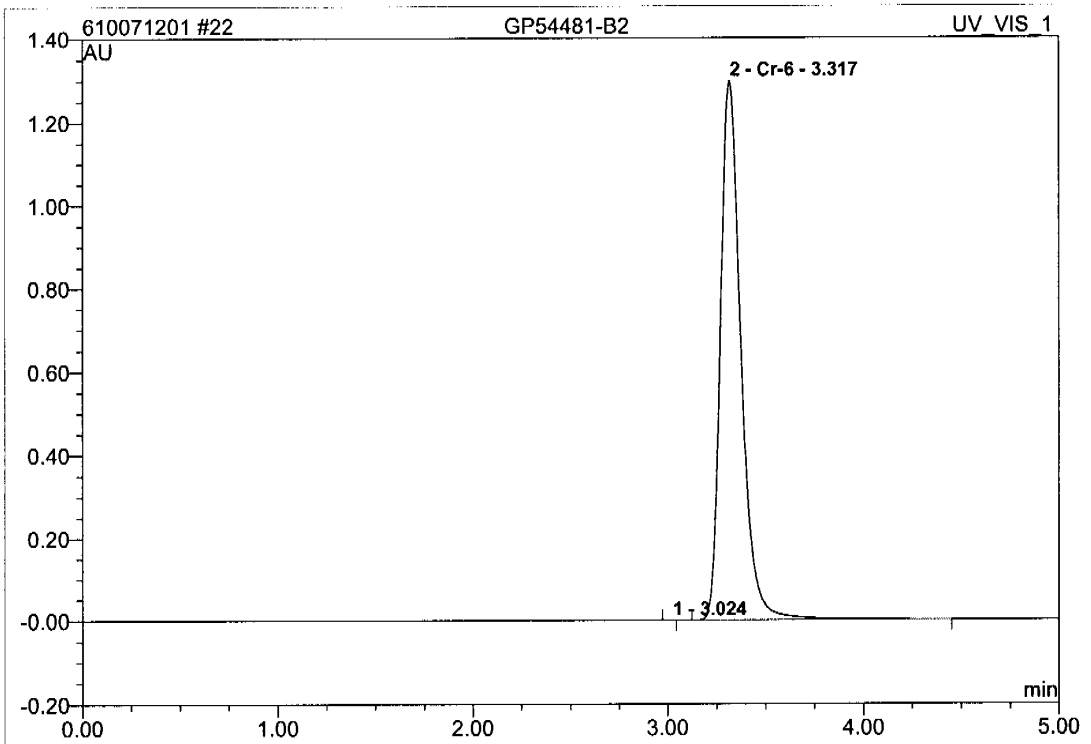
21 JA48997-14AR			
Sample Name:	JA48997-14AR	Injection Volume:	25.0
Vial Number:	22	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/12/2010 11:18	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.83	n.a.	0.000	0.000	4.06	n.a.	BMB
2	3.32	Cr-6	0.001	0.000	95.94	0.0174	BMB
Total:			0.001	0.000	100.00	0.017	

6.6
9

22 GP54481-B2			
Sample Name:	GP54481-B2	Injection Volume:	25.0
Vial Number:	23	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/12/2010 11:25	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

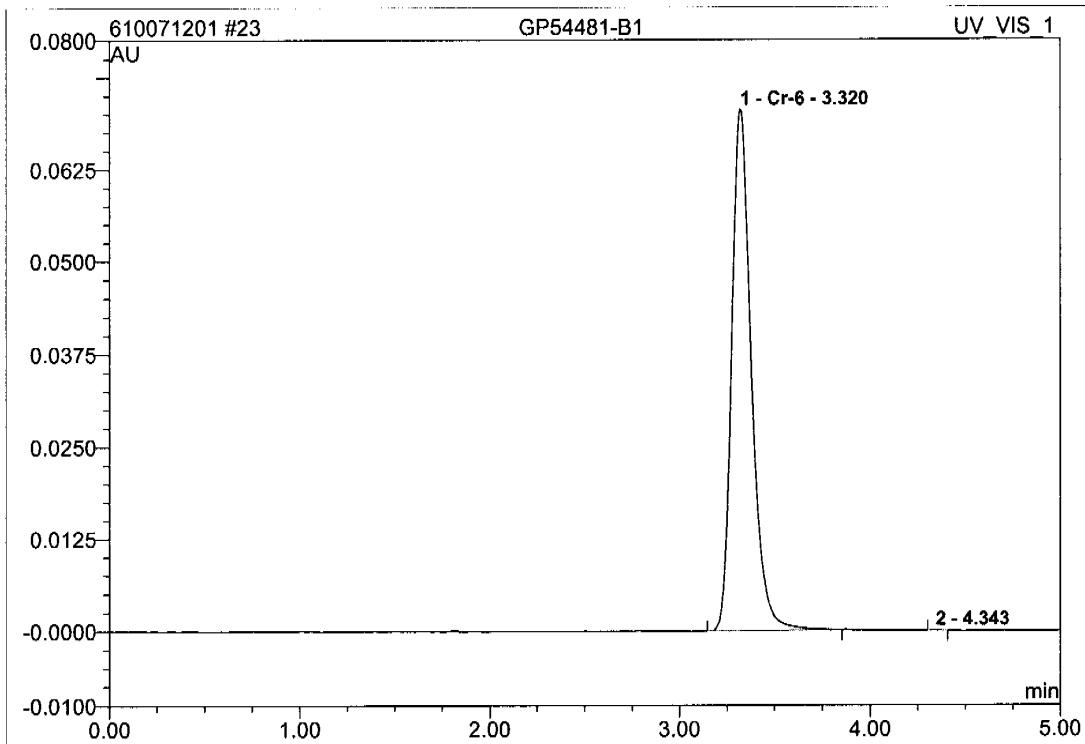


No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.02	n.a.	0.000	0.000	0.00	n.a.	BMB
2	3.32	Cr-6	1.299	0.158	100.00	18.8658	BMB
Total:			1.299	0.158	100.00	18.866	

6.6
9

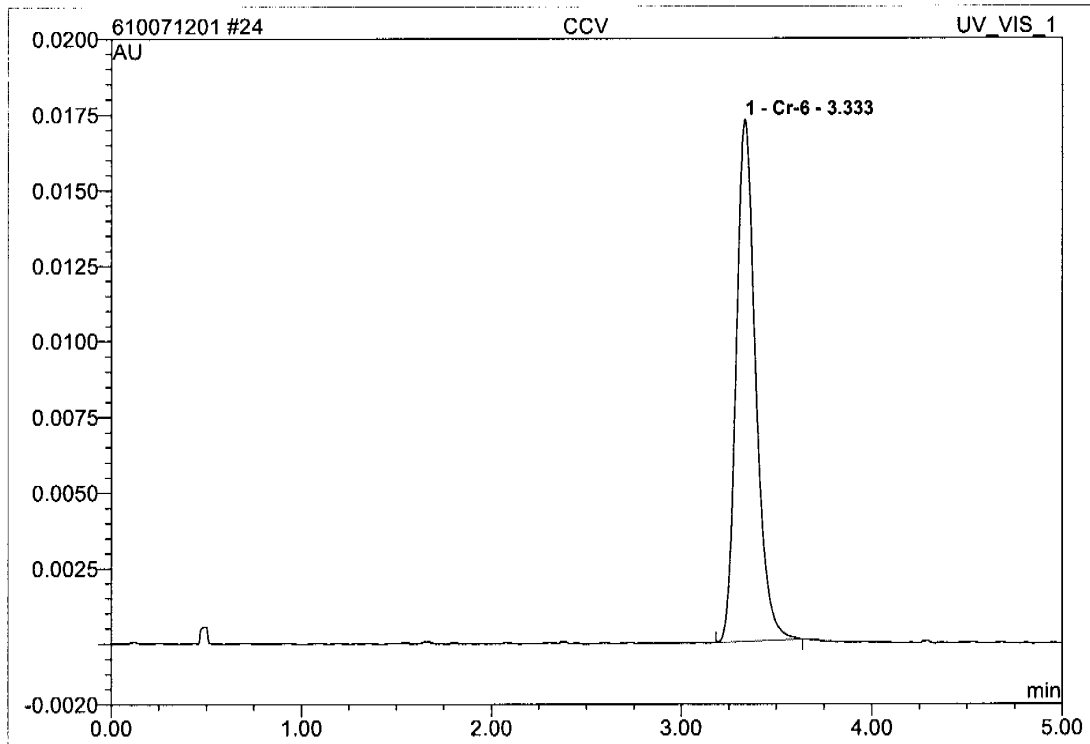
23 GP54481-B1

Sample Name:	GP54481-B1	Injection Volume:	25.0
Vial Number:	24	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/12/2010 11:32	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.32	Cr-6	0.071	0.008	99.93	1.0078	BMB
2	4.34	n.a.	0.000	0.000	0.07	n.a.	BMB
Total:			0.071	0.008	100.00	1.008	

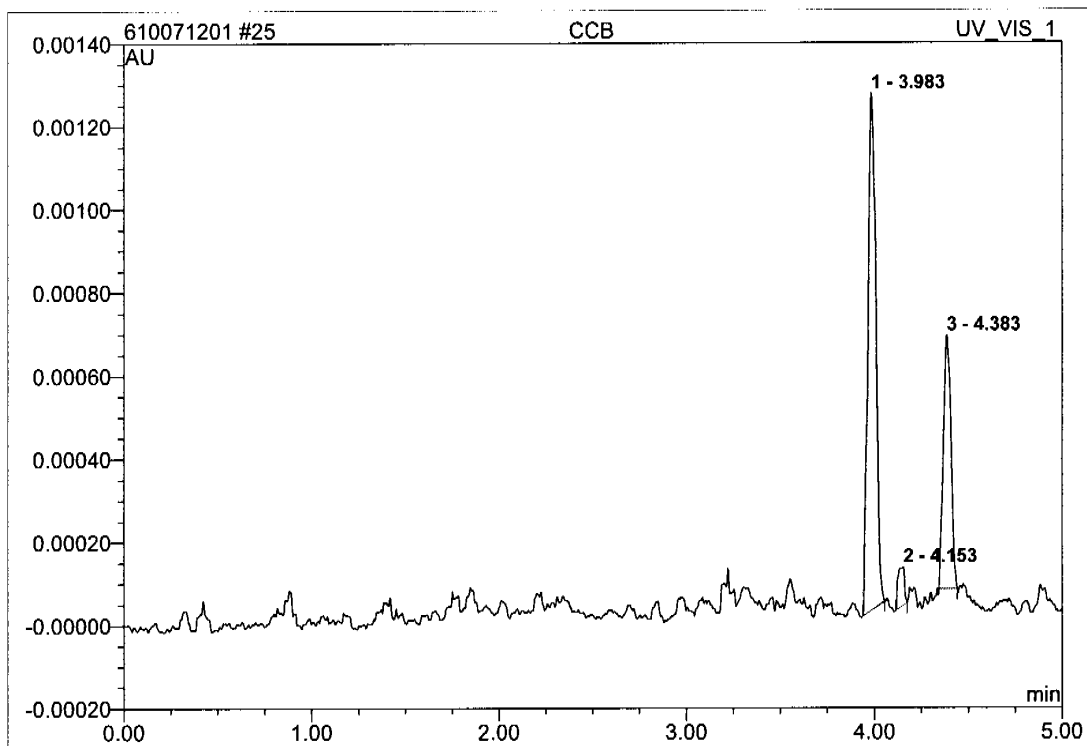
24 CCV			
Sample Name:	CCV	Injection Volume:	25.0
Vial Number:	25	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/12/2010 11:40	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.33	Cr-6	0.017	0.002	100.00	0.2446	BMB
Total:			0.017	0.002	100.00	0.245	

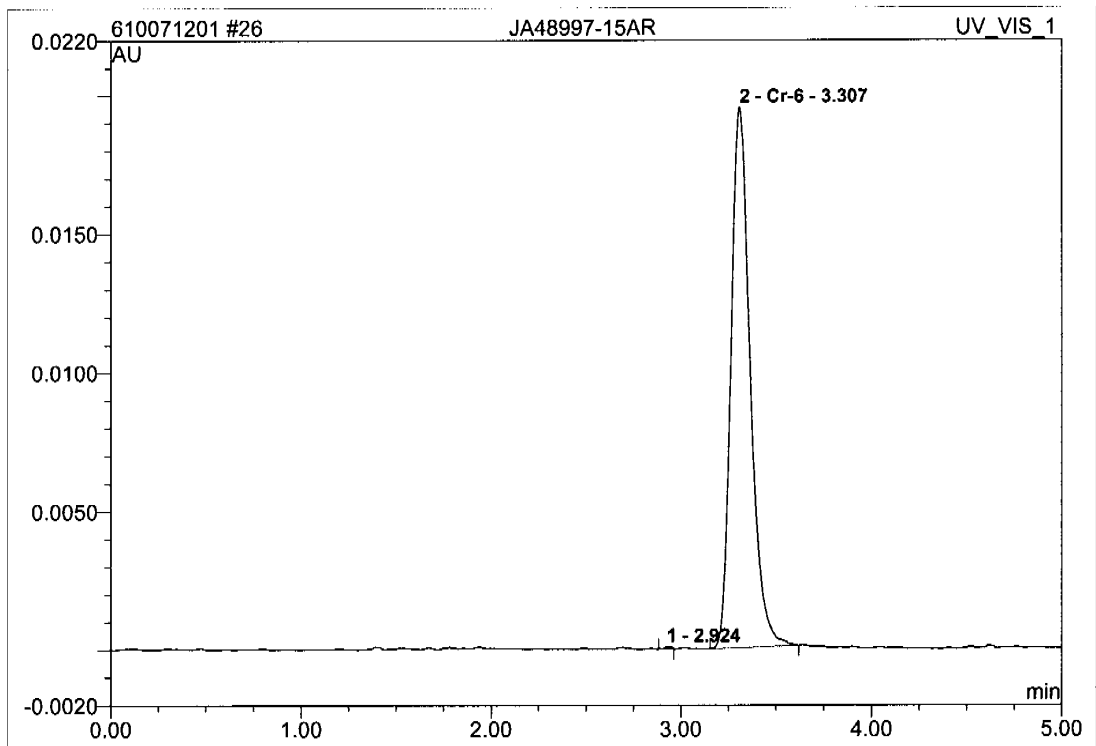
25 CCB

Sample Name:	CCB	Injection Volume:	25.0
Vial Number:	26	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/12/2010 11:47	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.98	n.a.	0.001	0.000	64.98	n.a.	BMB
2	4.15	n.a.	0.000	0.000	4.07	n.a.	BMB
3	4.38	n.a.	0.001	0.000	30.95	n.a.	BMB
Total:			0.002	0.000	100.00	0.000	

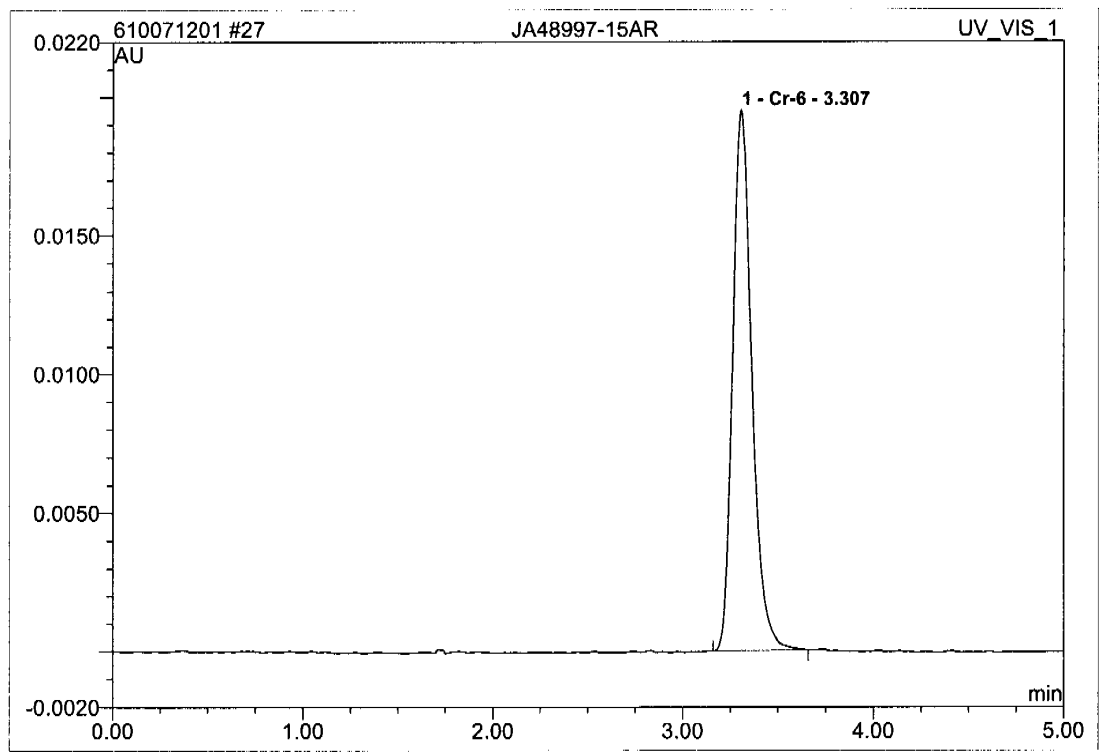
26 JA48997-15AR			
Sample Name:	JA48997-15AR	Injection Volume:	25.0
Vial Number:	27	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	5.0000
Recording Time:	7/12/2010 11:55	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.92	n.a.	0.000	0.000	0.17	n.a.	BMB
2	3.31	Cr-6	0.019	0.002	99.83	1.3638	BMB
Total:			0.020	0.002	100.00	1.364	

6.6
9

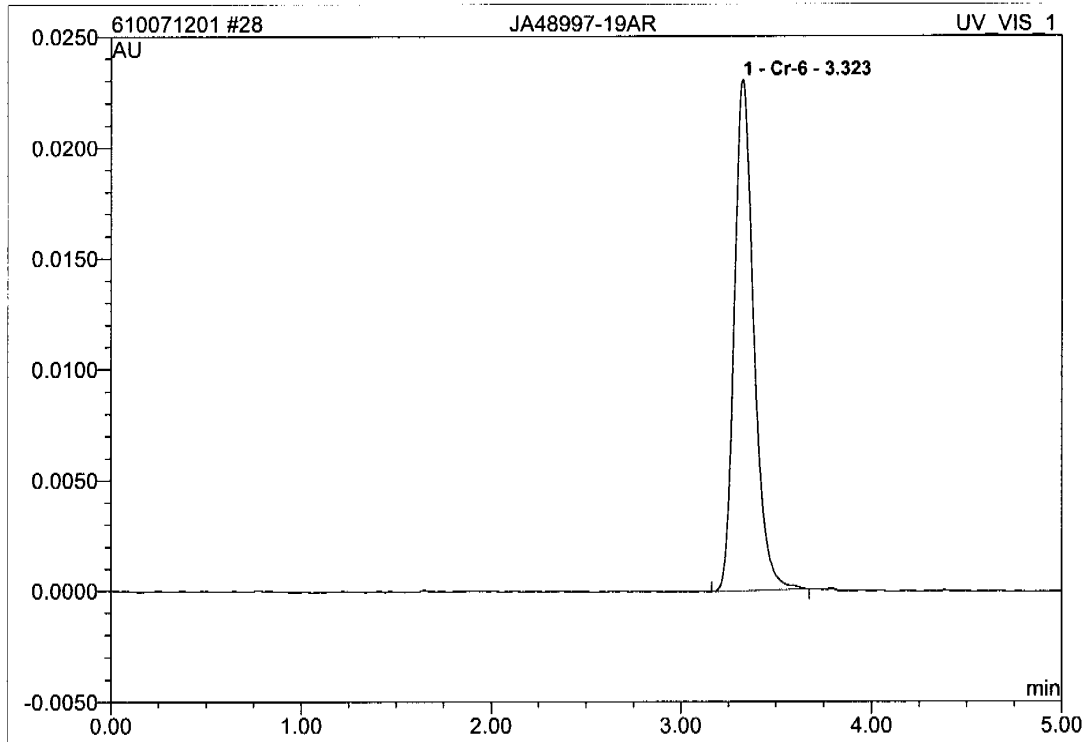
27 JA48997-15AR			
Sample Name:	JA48997-15AR	Injection Volume:	25.0
Vial Number:	28	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	5.0000
Recording Time:	7/12/2010 12:02	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.31	Cr-6	0.020	0.002	100.00	1.3643	BMB
Total:			0.020	0.002	100.00	1.364	

6.6
9

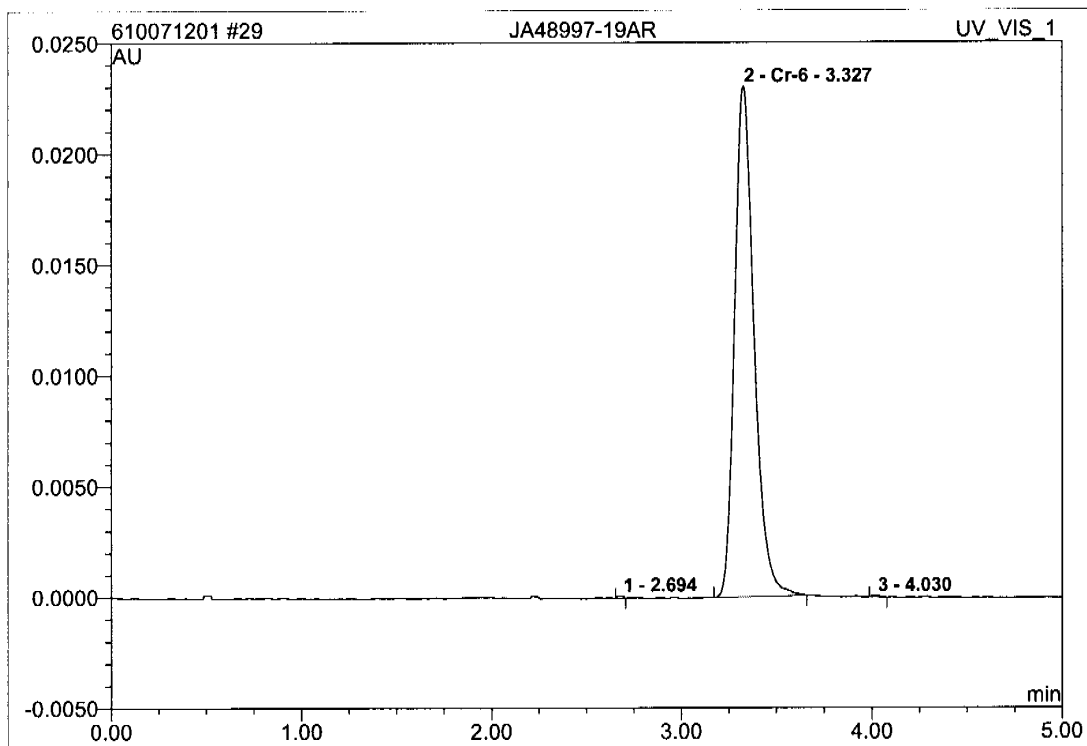
28 JA48997-19AR			
Sample Name:	JA48997-19AR	Injection Volume:	25.0
Vial Number:	29	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/12/2010 12:10	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.32	Cr-6	0.023	0.003	100.00	0.3281	BMB
Total:			0.023	0.003	100.00	0.328	

6.6
6

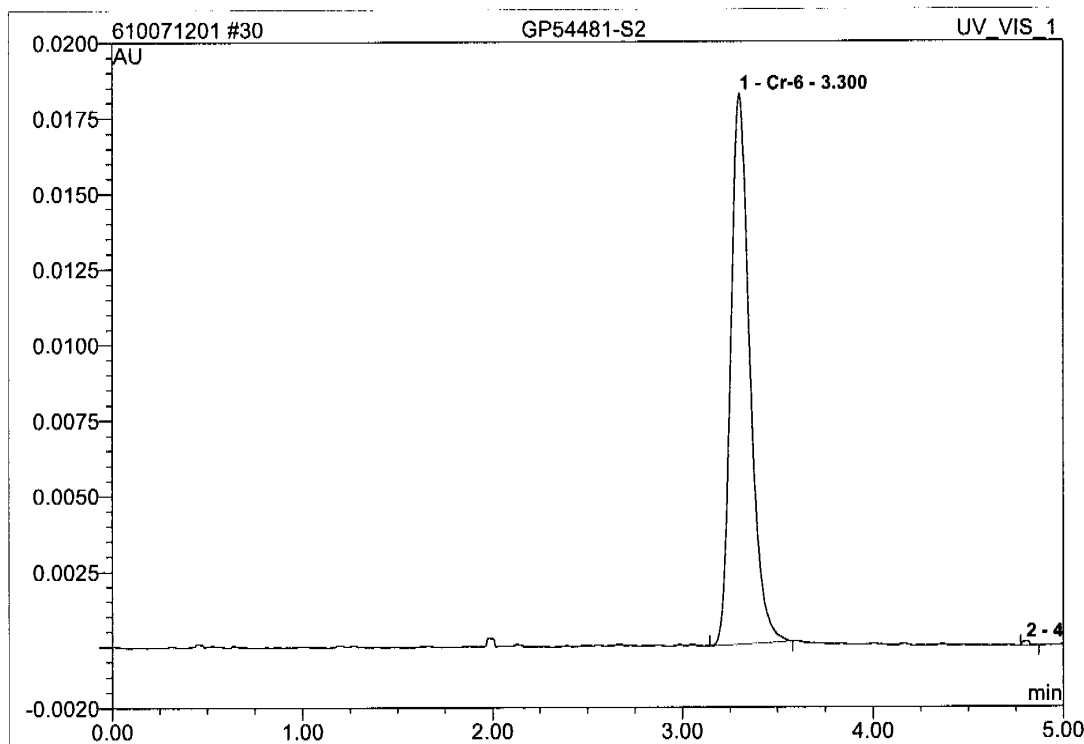
29 JA48997-19AR			
Sample Name:	JA48997-19AR	Injection Volume:	25.0
Vial Number:	30	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/12/2010 12:17	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.69	n.a.	0.000	0.000	0.16	n.a.	BMB
2	3.33	Cr-6	0.023	0.003	99.69	0.3267	BMB
3	4.03	n.a.	0.000	0.000	0.15	n.a.	BMB
Total:			0.023	0.003	100.00	0.327	

6.6
9

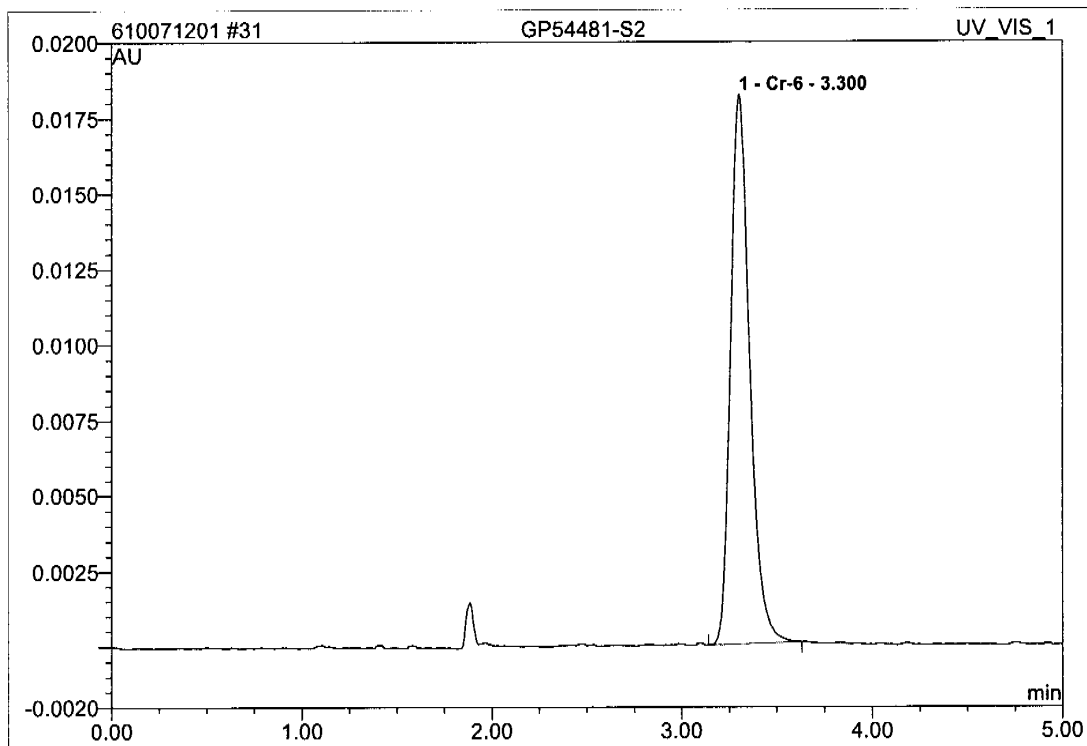
30 GP54481-S2			
Sample Name:	GP54481-S2	Injection Volume:	25.0
Vial Number:	31	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	60.0000
Recording Time:	7/12/2010 12:24	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.30	Cr-6	0.018	0.002	99.70	15.1858	BMB
2	4.80	n.a.	0.000	0.000	0.30	n.a.	BMB
Total:			0.018	0.002	100.00	15.186	

6.6
9

31 GP54481-S2			
Sample Name:	GP54481-S2	Injection Volume:	25.0
Vial Number:	32	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	60.000
Recording Time:	7/12/2010 12:32	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

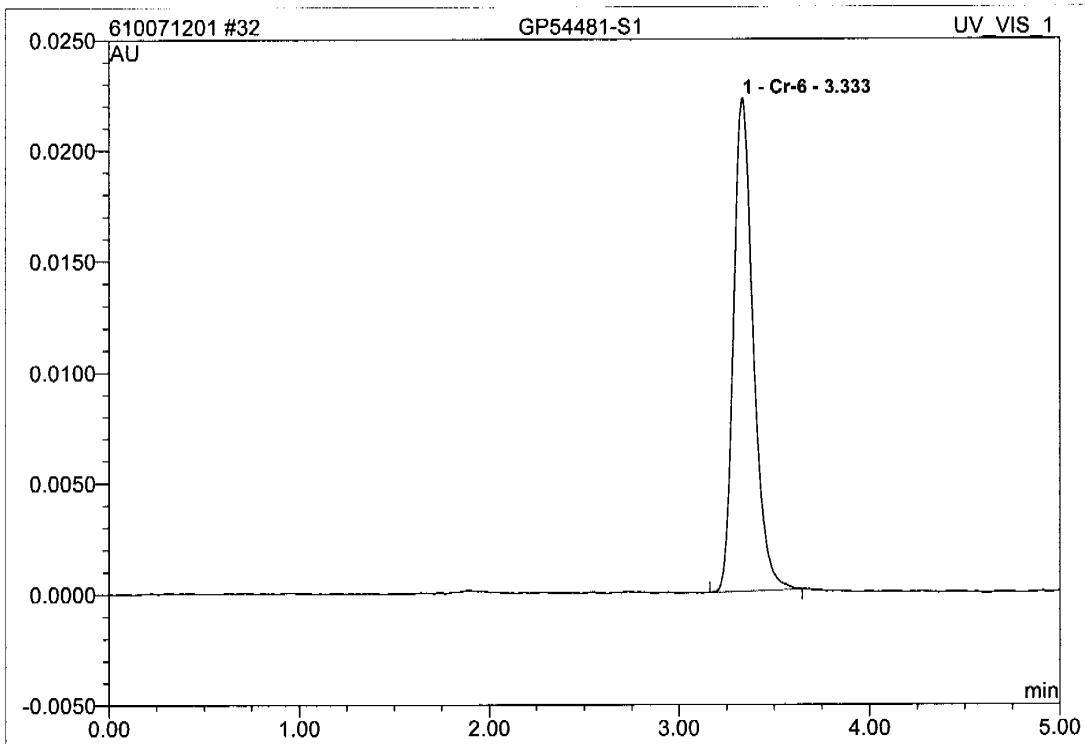


No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.30	Cr-6	0.018	0.002	100.00	15.2327	BMB
Total:			0.018	0.002	100.00	15.233	

6.6
9

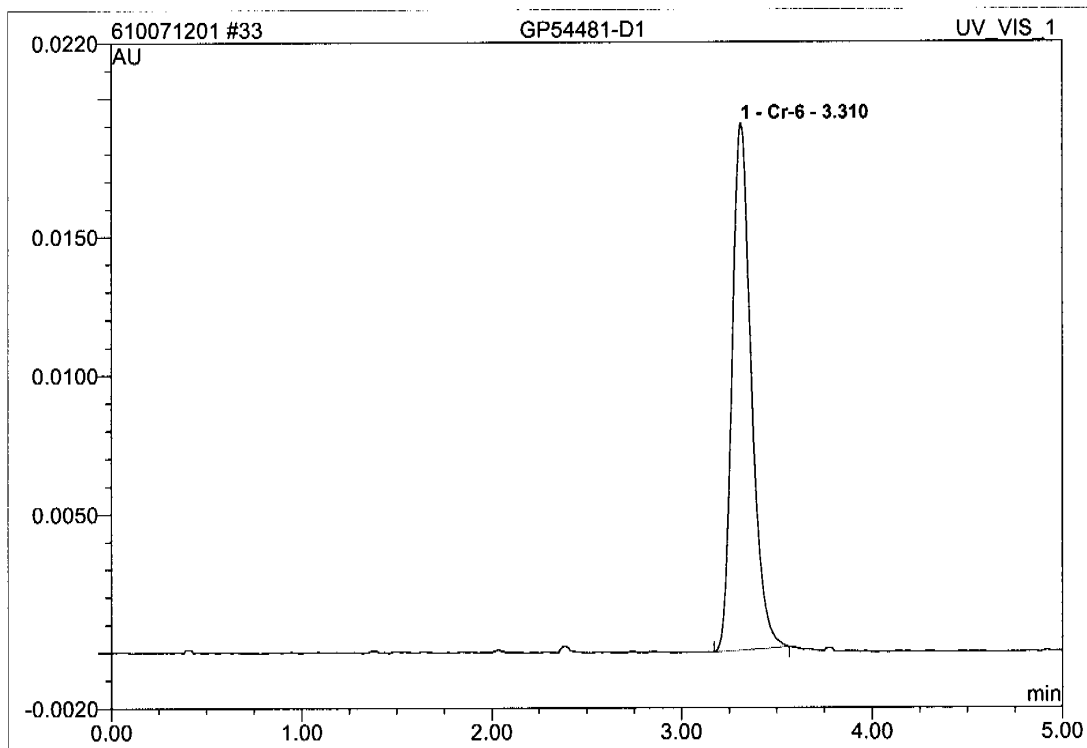
32 GP54481-S1

Sample Name:	GP54481-S1	Injection Volume:	25.0
Vial Number:	33	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/12/2010 12:39	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.33	Cr-6	0.022	0.003	100.00	0.3180	BMB
Total:			0.022	0.003	100.00	0.318	

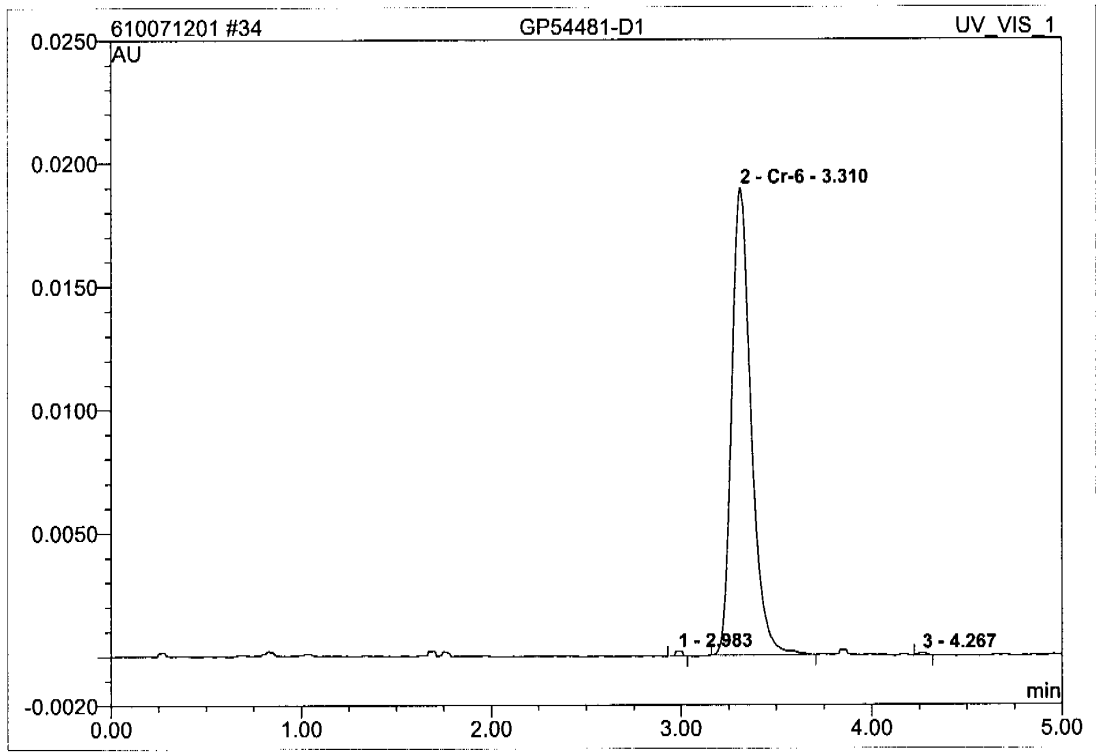
33 GP54481-D1			
Sample Name:	GP54481-D1	Injection Volume:	25.0
Vial Number:	34	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	4.0000
Recording Time:	7/12/2010 12:47	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.31	Cr-6	0.019	0.002	100.00	1.0630	BMB
Total:			0.019	0.002	100.00	1.063	

6.6
9

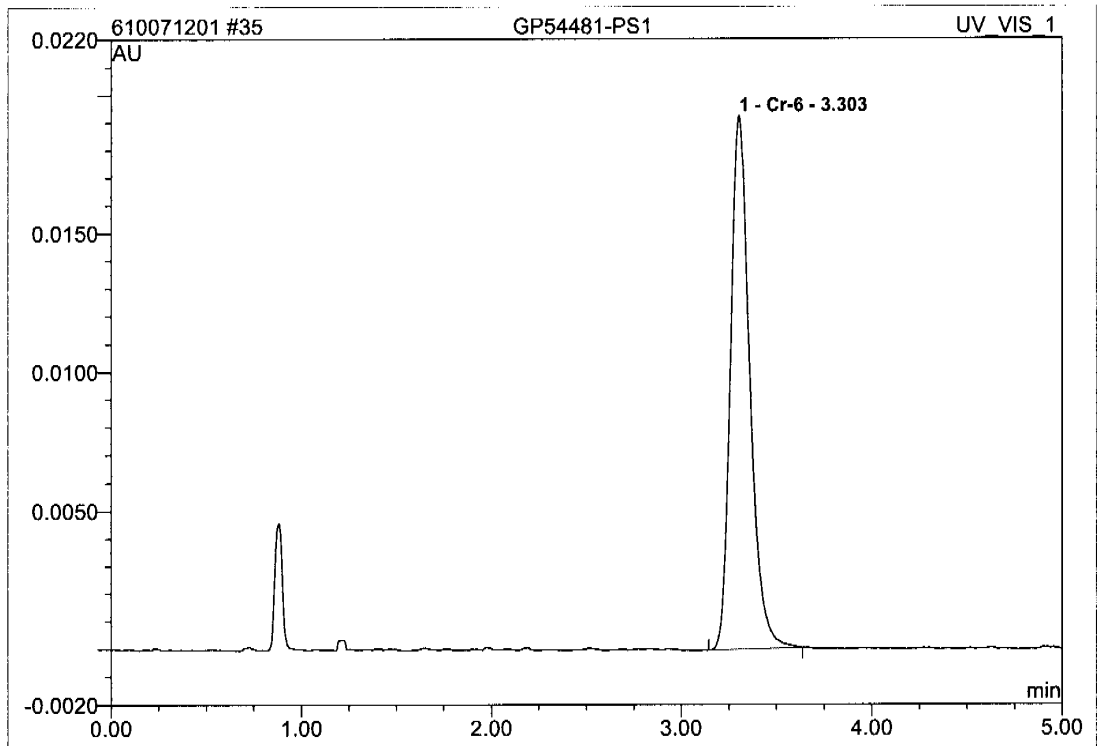
34 GP54481-D1			
Sample Name:	GP54481-D1	Injection Volume:	25.0
Vial Number:	35	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	4.0000
Recording Time:	7/12/2010 12:54	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.98	n.a.	0.000	0.000	0.40	n.a.	BMB
2	3.31	Cr-6	0.019	0.002	99.36	1.0708	BMB
3	4.27	n.a.	0.000	0.000	0.24	n.a.	BMB
Total:			0.019	0.002	100.00	1.071	

6.6
9

35 GP54481-PS1			
Sample Name:	GP54481-PS1	Injection Volume:	25.0
Vial Number:	36	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	15.0000
Recording Time:	7/12/2010 13:01	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

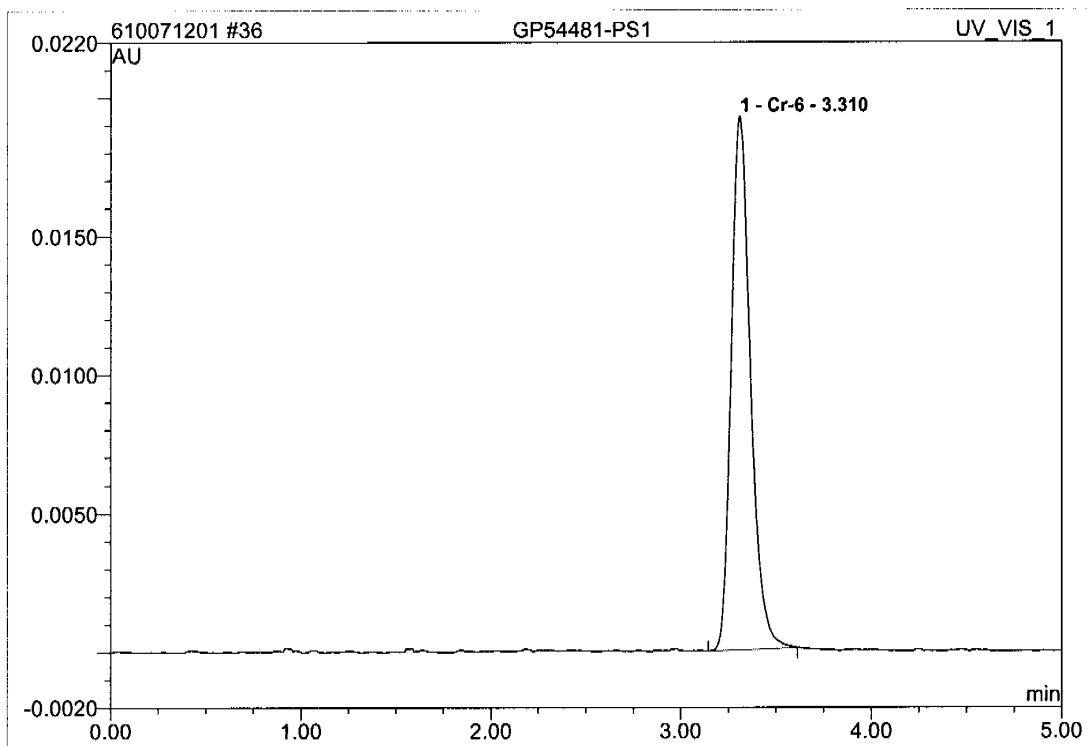


No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.30	Cr-6	0.019	0.002	100.00	4.0581	BMB
Total:			0.019	0.002	100.00	4.058	

6.6
9

36 GP54481-PS1

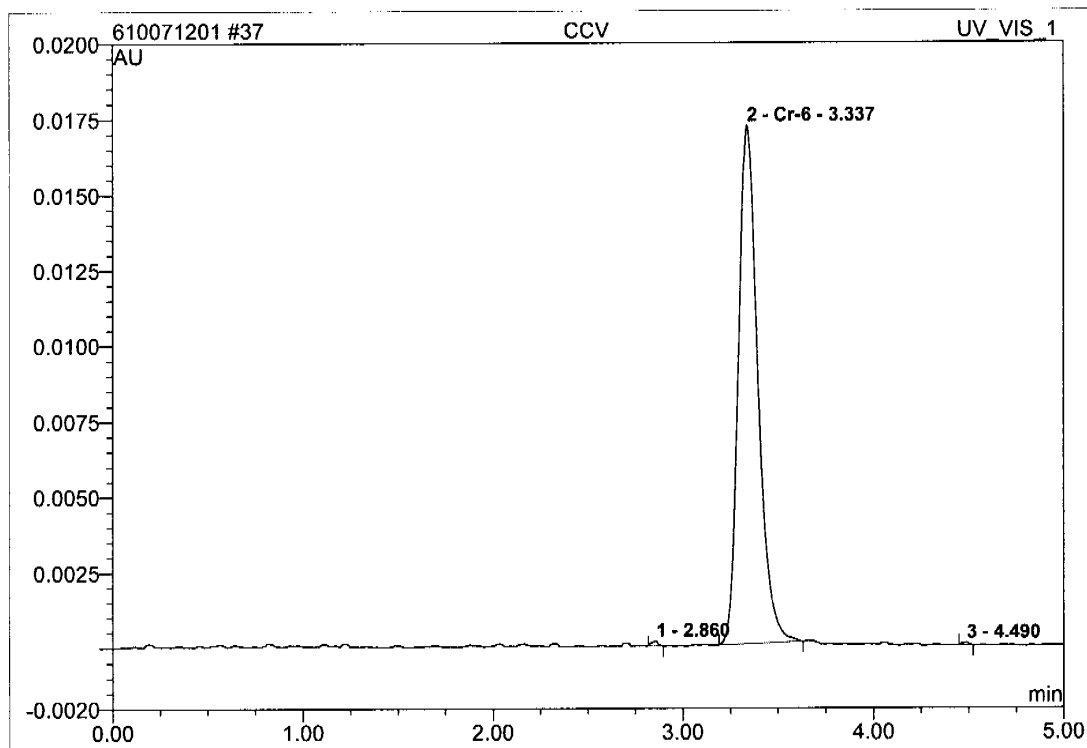
Sample Name:	GP54481-PS1	Injection Volume:	25.0
Vial Number:	37	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	15.0000
Recording Time:	7/12/2010 13:09	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.31	Cr-6	0.019	0.002	100.00	4.0486	BMB
Total:			0.019	0.002	100.00	4.049	

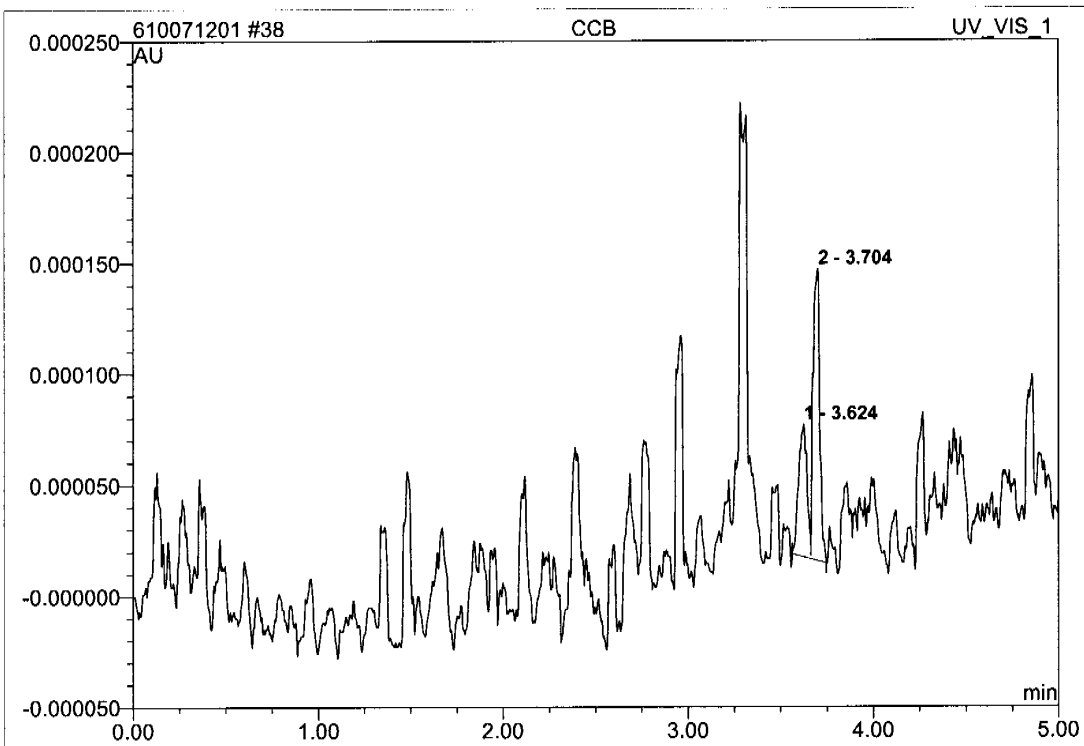
37 CCV

Sample Name:	CCV	Injection Volume:	25.0
Vial Number:	38	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/12/2010 13:16	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.86	n.a.	0.000	0.000	0.33	n.a.	BMB
2	3.34	Cr-6	0.017	0.002	99.49	0.2448	BMB
3	4.49	n.a.	0.000	0.000	0.17	n.a.	BMB
Total:			0.017	0.002	100.00	0.245	

38 CCB			
Sample Name:	CCB	Injection Volume:	25.0
Vial Number:	39	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/12/2010 13:24	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.62	n.a.	0.000	0.000	35.61	n.a.	BM
2	3.70	n.a.	0.000	0.000	64.39	n.a.	MB
Total:			0.000	0.000	100.00	0.000	

hexachrome/Integration

Chromleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

6.6
9



Misc. Raw Data

Raw Data

7

Sample Homogenization Log

Accutest Sample ID	from bottle #	Homogenization Date	Initials	Sample Description (Soil, Sludge, etc.)	Homog. Device (blender, wand)	Comments
JT4P9917-15A	1	6-25-10	Pr	brown soft sandy	spatula	
↓ 14A				reddish brown w/ stones		
↓ 19A				brown wet sandy		
JT4P9917-11A	1			red brown dry w/ stones		
↓ 12			Pr	dry brown w/ root w/ st	6/25/10	red brown dry w/ stones
↓ 13				red brown w/ stones		
↓ 16				gray brown sandy		
↓ 17				↓		
↓ 18				↓		
JT4P9917-1A	1			dry brown w/ root w/ stones		low volume
↓ 3				dry dark grey w/ stones		↓
↓ 5				↓		



Technical Report for

Honeywell International Inc.

HLANJPR: SA-5, Site 079, Jersey City, NJ

Accutest Job Number: JA50921

Sampling Date: 07/08/10

Report to:

Mactec

vhlieu@mactec.com

ATTN: Vanthuy Lieu

Total number of pages in report: **151**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

David N. Speis
David N. Speis
VP Ops, Laboratory Director

Client Service contact: Marty Vitanza 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

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Test results relate only to samples analyzed.



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Sample Summary

Honeywell International Inc.

Job No: JA50921

HLANJPR: SA-5, Site 079, Jersey City, NJ

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JA50921-1	07/08/10	09:27 MD	07/08/10	AQ	Ground Water	079-MW-2A-070810
JA50921-1F	07/08/10	09:27 MD	07/08/10	AQ	Groundwater Filtered	079-MW-2A-070810
JA50921-2	07/08/10	10:37 MD	07/08/10	AQ	Ground Water	079-MW-1
JA50921-2D	07/08/10	10:37 MD	07/08/10	AQ	Water Dup/MSD	079-MW-1-MSD
JA50921-2DF	07/08/10	10:37 MD	07/08/10	AQ	Water Dup/MSD	079-MW-1-MSDF
JA50921-2F	07/08/10	10:37 MD	07/08/10	AQ	Groundwater Filtered	079-MW-1F
JA50921-2S	07/08/10	10:37 MD	07/08/10	AQ	Water Matrix Spike	079-MW-1-MS
JA50921-2SF	07/08/10	10:37 MD	07/08/10	AQ	Water Matrix Spike	079-MW-1-MSF
JA50921-3	07/08/10	10:38 MD	07/08/10	AQ	Ground Water	079-MW-1DP
JA50921-3F	07/08/10	10:38 MD	07/08/10	AQ	Groundwater Filtered	079-MW-1DP-F
JA50921-4	07/08/10	11:00 MD	07/08/10	AQ	Field Blank Water	079-FB-070810
JA50921-4F	07/08/10	11:00 MD	07/08/10	AQ	Field Blank Filtered	079-FB-070810F

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Honeywell International Inc.

Job No JA50921

Site: HLANJPR: SA-5, Site 079, Jersey City, NJ

Report Date 7/27/2010 11:58:41 AM

On 07/08/2010, 5 Sample(s), 0 Trip Blank(s) and 2 Field Blank(s) were received at Accutest Laboratories at a temperature of 3 C. Samples were intact and properly preserved, unless noted below. An Accutest Job Number of JA50921 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Metals By Method SW846 6010B

Matrix: AQ

Batch ID: MP53708

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA50921-2FMS, JA50921-2FMSD, JA50921-2MS, JA50921-2MSD, JA50921-2SDL, JA50921-2FSDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Chromium are outside control limits for sample MP53708-SD2. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Wet Chemistry By Method SW846 7196A

Matrix: AQ

Batch ID: GN39697

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA50921-2DUP, JA50921-2FDUP, JA50921-2FMS, JA50921-2MS were used as the QC samples for Chromium, Hexavalent.
- GN39697-S5 for Chromium, Hexavalent: Spike recovery indicates possible matrix interference. Good pH adjusted post spike recovery (96.7%)

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: 079-MW-2A-070810	Date Sampled: 07/08/10
Lab Sample ID: JA50921-1	Date Received: 07/08/10
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Chromium	< 10	10	ug/l	1	07/14/10	07/20/10 GT	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA24667

(2) Prep QC Batch: MP53708

RL = Reporting Limit

Report of Analysis

Client Sample ID: 079-MW-2A-070810	Date Sampled: 07/08/10
Lab Sample ID: JA50921-1	Date Received: 07/08/10
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.010	0.010	mg/l	1	07/08/10 21:53	RA	SW846 7196A

RL = Reporting Limit

Report of Analysis

Client Sample ID: 079-MW-2A-070810	Date Sampled: 07/08/10
Lab Sample ID: JA50921-1F	Date Received: 07/08/10
Matrix: AQ - Groundwater Filtered	Percent Solids: n/a
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Chromium	< 10	10	ug/l	1	07/14/10	07/20/10 GT	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA24667

(2) Prep QC Batch: MP53708

RL = Reporting Limit

Report of Analysis

32
3

Client Sample ID: 079-MW-2A-070810	Date Sampled: 07/08/10
Lab Sample ID: JA50921-1F	Date Received: 07/08/10
Matrix: AQ - Groundwater Filtered	Percent Solids: n/a
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.010	0.010	mg/l	1	07/08/10	RA	SW846 7196A

RL = Reporting Limit

Report of Analysis

Client Sample ID: 079-MW-1		Date Sampled: 07/08/10
Lab Sample ID: JA50921-2		Date Received: 07/08/10
Matrix: AQ - Ground Water		Percent Solids: n/a
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Chromium	20.5	10	ug/l	1	07/14/10	07/20/10 GT	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA24667

(2) Prep QC Batch: MP53708

RL = Reporting Limit

Report of Analysis

Client Sample ID: 079-MW-1	Date Sampled: 07/08/10
Lab Sample ID: JA50921-2	Date Received: 07/08/10
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.010	0.010	mg/l	1	07/08/10 21:53	RA	SW846 7196A

RL = Reporting Limit

Report of Analysis

Client Sample ID: 079-MW-1F	Date Sampled: 07/08/10
Lab Sample ID: JA50921-2F	Date Received: 07/08/10
Matrix: AQ - Groundwater Filtered	Percent Solids: n/a
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Chromium	< 10	10	ug/l	1	07/14/10	07/20/10 GT	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA24667

(2) Prep QC Batch: MP53708

RL = Reporting Limit

Report of Analysis

Client Sample ID: 079-MW-1F	Date Sampled: 07/08/10
Lab Sample ID: JA50921-2F	Date Received: 07/08/10
Matrix: AQ - Groundwater Filtered	Percent Solids: n/a
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.010	0.010	mg/l	1	07/08/10 21:53	RA	SW846 7196A

RL = Reporting Limit

Report of Analysis

3.5
3

Client Sample ID: 079-MW-1DP	Date Sampled: 07/08/10
Lab Sample ID: JA50921-3	Date Received: 07/08/10
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Chromium	14.9	10	ug/l	1	07/14/10	07/20/10 GT	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA24667

(2) Prep QC Batch: MP53708

RL = Reporting Limit

Report of Analysis

Client Sample ID: 079-MW-1DP	Date Sampled: 07/08/10
Lab Sample ID: JA50921-3	Date Received: 07/08/10
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.010	0.010	mg/l	1	07/08/10 21:53	RA	SW846 7196A

RL = Reporting Limit

Report of Analysis

3.6
3

Client Sample ID: 079-MW-1DP-F	Date Sampled: 07/08/10
Lab Sample ID: JA50921-3F	Date Received: 07/08/10
Matrix: AQ - Groundwater Filtered	Percent Solids: n/a
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Chromium	< 10	10	ug/l	1	07/14/10	07/20/10 GT	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA24667

(2) Prep QC Batch: MP53708

RL = Reporting Limit

Report of Analysis

Client Sample ID: 079-MW-1DP-F	Date Sampled: 07/08/10
Lab Sample ID: JA50921-3F	Date Received: 07/08/10
Matrix: AQ - Groundwater Filtered	Percent Solids: n/a
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.010	0.010	mg/l	1	07/08/10 21:53	RA	SW846 7196A

RL = Reporting Limit

Report of Analysis

37
3

Client Sample ID: 079-FB-070810	Date Sampled: 07/08/10
Lab Sample ID: JA50921-4	Date Received: 07/08/10
Matrix: AQ - Field Blank Water	Percent Solids: n/a
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Chromium	< 10	10	ug/l	1	07/14/10	07/20/10 GT	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA24667

(2) Prep QC Batch: MP53708

RL = Reporting Limit

Report of Analysis

Client Sample ID: 079-FB-070810	Date Sampled: 07/08/10
Lab Sample ID: JA50921-4	Date Received: 07/08/10
Matrix: AQ - Field Blank Water	Percent Solids: n/a
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.010	0.010	mg/l	1	07/08/10 21:53	RA	SW846 7196A

RL = Reporting Limit

Report of Analysis



Client Sample ID: 079-FB-070810F	Date Sampled: 07/08/10
Lab Sample ID: JA50921-4F	Date Received: 07/08/10
Matrix: AQ - Field Blank Filtered	Percent Solids: n/a
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Chromium	< 10	10	ug/l	1	07/14/10	07/20/10 GT	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA24667

(2) Prep QC Batch: MP53708

RL = Reporting Limit

Report of Analysis



Client Sample ID: 079-FB-070810F	Date Sampled: 07/08/10
Lab Sample ID: JA50921-4F	Date Received: 07/08/10
Matrix: AQ - Field Blank Filtered	Percent Solids: n/a
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.010	0.010	mg/l	1	07/08/10 21:53	RA	SW846 7196A

RL = Reporting Limit



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

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FB

E

CCUTEST
 esh Ponds Corporate Village, Building B
 35 Route 130, Dayton, New Jersey 08810
 2-329-0200 Phone, 732-329-3499 Fax

Honeywell Chain Of Custody / Analysis Request

AKESI Ref: 38439.43925
 COC #: 37472-
 Lab Use Only
 Lab Proj #
 Lab ID ACTD
 Lab ID ACTD
 PAGE 1 of 1
 Job No. **JA50921**
 What is in the Text File? Mouse over here.
 Written and maintained by AKESI (Ver 3_7) 02-01-05 akesi@akesi.com

Privileged & Confidential Y Site Name: HUDSONCO
 EDD to: Andrew Shust (MACTEC) Location of Site: SA-5 Site 079 Jersey City, NJ
 Sampler: M. Daly
 PO #
 Analysis Turnaround Time: Standard - Y
 Rush Charge Authorized for: 12 day -
 1 week -
 Next Day -

Sample Identification					Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Field Preserved Sample #	Gravimetric	EPA 7199 Hexavalent Chromium	Total Chromium
Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Units	mg/L	mg/L		
1 079-MW-2A			079-MW-2A-070810	7/8/2010	9:27	GW	Water	REG	2	grah	N	X	X	
2 079-MW-2A	-1F		079-MW-2A-070810F	7/8/2010	9:29	GW	Water	REG	2	grah	N	X	X	
3 079-MW-1			079-MW-1	7/8/2010	10:37	GW	Water	REG	2	grah	N	X	X	
4 079-MW-1	2F		079-MW-1F	7/8/2010	10:37	GW	Water	REG	2	grah	N	X	X	
5 079-MW-1			079-MW-1DP	7/8/2010	10:38	GW	Water	REG	2	grah	N	X	X	
6 079-MW-1	-2F		079-MW-1DP-F	7/8/2010	10:38	GW	Water	REG	2	grah	N	X	X	
7 079-MW-1			079-MW-1-MS	7/8/2010	10:37	GW	Water	REG	2	grah	N	X	X	
8 079-MW-1			079-MW-1-MSF	7/8/2010	10:37	GW	Water	REG	2	grah	N	X	X	
9 079-MW-1	-2F		079-MW-1-MSD	7/8/2010	10:39	GW	Water	REG	2	grah	N	X	X	
10 079-MW-1			079-MW-1-MSD-F	7/8/2010	10:39	GW	Water	REG	2	grah	N	X	X	
11 079- FB -070810	-4F		079- FB -070810	7/8/2010	11:00	Blk Water	Water	FB	2	grah	N	X	X	
12 079- FB -070810			079- FB -070810F	7/8/2010	11:00	Blk Water	Water	FB	2	grah	N	X	X	

*7-8-2010
ALL SAMPLES RECEIVED
PRESERVED AS APPLICABLE*

Relinquished by: [Signature]	Company: MACTEC	Received by: [Signature]	7-8-2010 Company ACTD	Condition:	Custody Seals Intact: [Signature]
Relinquished by:	Date/Time: 7/13/10	Received by:	Date/Time: 7/30	Cooler Temp:	Custody Seals Intact:
	Date/Time:		Date/Time:	Cooler Temp:	Custody Seals Intact:

3.0 °C

Preservatives: 0 = None; 1 = HCL; 2 = HNO3; 3 = H2SO4; 4 = NaOH; 5 = Zn. Acetate; 6 = MeOH; 7 = NaHSO4; 8 = Other (specify):

4.1
4

*1A
METHOD 7196 NOT 7199, per A-shust. / MB 7/16/10.*



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JA50921

Client:

Immediate Client Services Action Required: No

Date / Time Received: 7/8/2010

Delivery Method:

Client Service Action Required at Login: No

Project:

No. Coolers: 1

Airbill #'s:

<u>Cooler Security</u>	<u>Y or N</u>			<u>Y or N</u>	
1. Custody Seals Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. SmpI Dates/Time OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y or N</u>	
1. Temp criteria achieved:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Cooler temp verification:	Infrared gun	
3. Cooler media:	Ice (bag)	

<u>Quality Control Preservatio</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Trip Blank listed on COC:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Samples preserved property:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. VOCs headspace free:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

<u>Sample Integrity - Documentation</u>	<u>Y or N</u>	
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y or N</u>	
1. Sample recvd within HT:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Condition of sample:	Intact	

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www.accutest.com

4.1
4

Internal Sample Tracking Chronicle

Honeywell International Inc.

Job No: JA50921

HLANJPR: SA-5, Site 079, Jersey City, NJ

4.2
4

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JA50921-1 Collected: 08-JUL-10 09:27 By: MD Received: 08-JUL-10 By: MPC 079-MW-2A-070810						
JA50921-1	SW846 7196A	08-JUL-10 21:53	RA			XCR
JA50921-1	SW846 6010B	20-JUL-10 02:54	GT	14-JUL-10	RH	CR
JA50921-2 Collected: 08-JUL-10 10:37 By: MD Received: 08-JUL-10 By: MPC 079-MW-1						
JA50921-2	SW846 7196A	08-JUL-10 21:53	RA			XCR
JA50921-2	SW846 6010B	20-JUL-10 00:21	GT	14-JUL-10	RH	CR
JA50921-3 Collected: 08-JUL-10 10:38 By: MD Received: 08-JUL-10 By: MPC 079-MW-1DP						
JA50921-3	SW846 7196A	08-JUL-10 21:53	RA			XCR
JA50921-3	SW846 6010B	20-JUL-10 03:00	GT	14-JUL-10	RH	CR
JA50921-4 Collected: 08-JUL-10 11:00 By: MD Received: 08-JUL-10 By: MPC 079-FB-070810						
JA50921-4	SW846 7196A	08-JUL-10 21:53	RA			XCR
JA50921-4	SW846 6010B	20-JUL-10 03:06	GT	14-JUL-10	RH	CR
JA50921-1F Collected: 08-JUL-10 09:27 By: MD Received: 08-JUL-10 By: MPC 079-MW-2A-070810						
JA50921-1F	SW846 7196A	08-JUL-10	RA			XCR
JA50921-1F	SW846 6010B	20-JUL-10 03:13	GT	14-JUL-10	RH	CR
JA50921-2F Collected: 08-JUL-10 10:37 By: MD Received: 08-JUL-10 By: MPC 079-MW-1F						
JA50921-2F	SW846 7196A	08-JUL-10 21:53	RA			XCR
JA50921-2F	SW846 6010B	20-JUL-10 00:45	GT	14-JUL-10	RH	CR
JA50921-3F Collected: 08-JUL-10 10:38 By: MD Received: 08-JUL-10 By: MPC 079-MW-1DP-F						
JA50921-3F	SW846 7196A	08-JUL-10 21:53	RA			XCR

Internal Sample Tracking Chronicle

Honeywell International Inc.

Job No: JA50921

HLANJPR: SA-5, Site 079, Jersey City, NJ

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JA50921-3F SW846 6010B		20-JUL-10 03:19	GT	14-JUL-10	RH	CR
JA50921-4F Collected: 08-JUL-10 11:00 By: MD Received: 08-JUL-10 By: MPC 079-FB-070810F						
JA50921-4F SW846 7196A		08-JUL-10 21:53	RA			XCR
JA50921-4F SW846 6010B		20-JUL-10 03:25	GT	14-JUL-10	RH	CR

4.2
4

Accutest Internal Chain of Custody

Job Number: JA50921
Account: HWINJM Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ
Received: 07/08/10

4.3
4

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA50921-1.1	Secured Storage	Adam Scott	07/14/10 08:18	Retrieve from Storage
JA50921-1.1	Adam Scott	Rowais Hanna	07/14/10 08:19	Custody Transfer
JA50921-1.1	Rowais Hanna	Secured Storage	07/14/10 16:10	Return to Storage
JA50921-1.1.1	Rowais Hanna	Metals Digestion	07/14/10 11:01	Digestate from JA50921-1.1
JA50921-1.3	Secured Storage	Ricky Agapay	07/08/10 20:42	Retrieve from Storage
JA50921-1.3	Ricky Agapay	Secured Storage	07/08/10 22:04	Return to Storage
JA50921-1.3	Secured Storage	Todd Shoemaker	07/09/10 08:25	Retrieve from Storage
JA50921-1.3	Todd Shoemaker	Secured Storage	07/09/10 08:31	Return to Storage
JA50921-1F.2	Secured Storage	Adam Scott	07/14/10 08:18	Retrieve from Storage
JA50921-1F.2	Adam Scott	Rowais Hanna	07/14/10 08:19	Custody Transfer
JA50921-1F.2	Rowais Hanna	Secured Storage	07/14/10 16:10	Return to Storage
JA50921-1F.2.1	Rowais Hanna	Metals Digestion	07/14/10 11:01	Digestate from JA50921-1F.2
JA50921-1F.4	Secured Storage	Ricky Agapay	07/08/10 20:42	Retrieve from Storage
JA50921-1F.4	Ricky Agapay	Secured Storage	07/08/10 22:04	Return to Storage
JA50921-1F.4	Secured Storage	Todd Shoemaker	07/09/10 08:25	Retrieve from Storage
JA50921-1F.4	Todd Shoemaker	Secured Storage	07/09/10 08:31	Return to Storage
JA50921-2.1	Secured Storage	Adam Scott	07/14/10 08:18	Retrieve from Storage
JA50921-2.1	Adam Scott	Rowais Hanna	07/14/10 08:19	Custody Transfer
JA50921-2.1	Rowais Hanna	Secured Storage	07/14/10 16:10	Return to Storage
JA50921-2.1.1	Rowais Hanna	Metals Digestion	07/14/10 11:01	Digestate from JA50921-2.1
JA50921-2.2	Secured Storage	Adam Scott	07/14/10 08:18	Retrieve from Storage
JA50921-2.2	Adam Scott	Rowais Hanna	07/14/10 08:19	Custody Transfer
JA50921-2.2	Rowais Hanna	Secured Storage	07/14/10 16:10	Return to Storage
JA50921-2.3	Secured Storage	Adam Scott	07/14/10 08:18	Retrieve from Storage
JA50921-2.3	Adam Scott	Rowais Hanna	07/14/10 08:19	Custody Transfer
JA50921-2.3	Rowais Hanna	Secured Storage	07/14/10 16:10	Return to Storage
JA50921-2.7	Secured Storage	Ricky Agapay	07/08/10 20:42	Retrieve from Storage
JA50921-2.7	Ricky Agapay	Secured Storage	07/08/10 22:04	Return to Storage
JA50921-2.7	Secured Storage	Todd Shoemaker	07/09/10 08:25	Retrieve from Storage
JA50921-2.7	Todd Shoemaker	Secured Storage	07/09/10 08:31	Return to Storage
JA50921-2.8	Secured Storage	Ricky Agapay	07/08/10 20:42	Retrieve from Storage
JA50921-2.8	Ricky Agapay	Secured Storage	07/08/10 22:04	Return to Storage
JA50921-2.8	Secured Storage	Todd Shoemaker	07/09/10 08:25	Retrieve from Storage

Accutest Internal Chain of Custody

Job Number: JA50921
Account: HWINJM Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ
Received: 07/08/10

4.3
4

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA50921-2.8	Todd Shoemaker	Secured Storage	07/09/10 08:31	Return to Storage
JA50921-2.9	Secured Storage	Ricky Agapay	07/08/10 20:42	Retrieve from Storage
JA50921-2.9	Ricky Agapay	Secured Storage	07/08/10 22:04	Return to Storage
JA50921-2.9	Secured Storage	Todd Shoemaker	07/09/10 08:25	Retrieve from Storage
JA50921-2.9	Todd Shoemaker	Secured Storage	07/09/10 08:31	Return to Storage
JA50921-2F.4	Secured Storage	Adam Scott	07/14/10 08:18	Retrieve from Storage
JA50921-2F.4	Adam Scott	Rowais Hanna	07/14/10 08:19	Custody Transfer
JA50921-2F.4	Rowais Hanna	Secured Storage	07/14/10 16:10	Return to Storage
JA50921-2F.4.1	Rowais Hanna	Metals Digestion	07/14/10 11:01	Digestate from JA50921-2F.4
JA50921-2F.5	Secured Storage	Adam Scott	07/14/10 08:18	Retrieve from Storage
JA50921-2F.5	Adam Scott	Rowais Hanna	07/14/10 08:19	Custody Transfer
JA50921-2F.5	Rowais Hanna	Secured Storage	07/14/10 16:10	Return to Storage
JA50921-2F.6	Secured Storage	Adam Scott	07/14/10 08:18	Retrieve from Storage
JA50921-2F.6	Adam Scott	Rowais Hanna	07/14/10 08:19	Custody Transfer
JA50921-2F.6	Rowais Hanna	Secured Storage	07/14/10 16:10	Return to Storage
JA50921-2F.10	Secured Storage	Ricky Agapay	07/08/10 20:42	Retrieve from Storage
JA50921-2F.10	Ricky Agapay	Secured Storage	07/08/10 22:04	Return to Storage
JA50921-2F.10	Secured Storage	Todd Shoemaker	07/09/10 08:25	Retrieve from Storage
JA50921-2F.10	Todd Shoemaker	Secured Storage	07/09/10 08:31	Return to Storage
JA50921-2F.11	Secured Storage	Ricky Agapay	07/08/10 20:42	Retrieve from Storage
JA50921-2F.11	Ricky Agapay	Secured Storage	07/08/10 22:04	Return to Storage
JA50921-2F.11	Secured Storage	Todd Shoemaker	07/09/10 08:25	Retrieve from Storage
JA50921-2F.11	Todd Shoemaker	Secured Storage	07/09/10 08:31	Return to Storage
JA50921-2F.12	Secured Storage	Ricky Agapay	07/08/10 20:42	Retrieve from Storage
JA50921-2F.12	Ricky Agapay	Secured Storage	07/08/10 22:04	Return to Storage
JA50921-2F.12	Secured Storage	Todd Shoemaker	07/09/10 08:25	Retrieve from Storage
JA50921-2F.12	Todd Shoemaker	Secured Storage	07/09/10 08:31	Return to Storage
JA50921-3.1	Secured Storage	Adam Scott	07/14/10 08:18	Retrieve from Storage
JA50921-3.1	Adam Scott	Rowais Hanna	07/14/10 08:19	Custody Transfer
JA50921-3.1	Rowais Hanna	Secured Storage	07/14/10 16:10	Return to Storage
JA50921-3.1.1	Rowais Hanna	Metals Digestion	07/14/10 11:01	Digestate from JA50921-3.1
JA50921-3.3	Secured Storage	Ricky Agapay	07/08/10 20:42	Retrieve from Storage
JA50921-3.3	Ricky Agapay	Secured Storage	07/08/10 22:04	Return to Storage

Accutest Internal Chain of Custody

Job Number: JA50921
Account: HWINJM Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ
Received: 07/08/10

4.3
4

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA50921-3.3	Secured Storage	Todd Shoemaker	07/09/10 08:25	Retrieve from Storage
JA50921-3.3	Todd Shoemaker	Secured Storage	07/09/10 08:31	Return to Storage
JA50921-3F.2	Secured Storage	Adam Scott	07/14/10 08:18	Retrieve from Storage
JA50921-3F.2	Adam Scott	Rowais Hanna	07/14/10 08:19	Custody Transfer
JA50921-3F.2	Rowais Hanna	Secured Storage	07/14/10 16:10	Return to Storage
JA50921-3F.2.1	Rowais Hanna	Metals Digestion	07/14/10 11:01	Digestate from JA50921-3F.2
JA50921-3F.4	Secured Storage	Ricky Agapay	07/08/10 20:42	Retrieve from Storage
JA50921-3F.4	Ricky Agapay	Secured Storage	07/08/10 22:04	Return to Storage
JA50921-3F.4	Secured Storage	Todd Shoemaker	07/09/10 08:25	Retrieve from Storage
JA50921-3F.4	Todd Shoemaker	Secured Storage	07/09/10 08:31	Return to Storage
JA50921-4.1	Secured Storage	Adam Scott	07/14/10 08:18	Retrieve from Storage
JA50921-4.1	Adam Scott	Rowais Hanna	07/14/10 08:19	Custody Transfer
JA50921-4.1	Rowais Hanna	Secured Storage	07/14/10 16:10	Return to Storage
JA50921-4.1.1	Rowais Hanna	Metals Digestion	07/14/10 11:01	Digestate from JA50921-4.1
JA50921-4.3	Secured Storage	Ricky Agapay	07/08/10 20:42	Retrieve from Storage
JA50921-4.3	Ricky Agapay	Secured Storage	07/08/10 22:04	Return to Storage
JA50921-4.3	Secured Storage	Todd Shoemaker	07/09/10 08:25	Retrieve from Storage
JA50921-4.3	Todd Shoemaker	Secured Storage	07/09/10 08:31	Return to Storage
JA50921-4F.2	Secured Storage	Adam Scott	07/14/10 08:18	Retrieve from Storage
JA50921-4F.2	Adam Scott	Rowais Hanna	07/14/10 08:19	Custody Transfer
JA50921-4F.2	Rowais Hanna	Secured Storage	07/14/10 16:10	Return to Storage
JA50921-4F.2.1	Rowais Hanna	Metals Digestion	07/14/10 11:01	Digestate from JA50921-4F.2
JA50921-4F.4	Secured Storage	Ricky Agapay	07/08/10 20:42	Retrieve from Storage
JA50921-4F.4	Ricky Agapay	Secured Storage	07/08/10 22:04	Return to Storage
JA50921-4F.4	Secured Storage	Todd Shoemaker	07/09/10 08:25	Retrieve from Storage
JA50921-4F.4	Todd Shoemaker	Secured Storage	07/09/10 08:31	Return to Storage



Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries
- IDL and Linear Range Summaries

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JA50921
Account: HWINJM - Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

File ID: SA071910M2.ICP Date Analyzed: 07/19/10 Methods: EPA 200.7, SW846 6010B
Analyst: GT Run ID: MA24667
Parameters: Cr

Time	Sample Description	Dilution Factor	PS Recov	Comments
16:19	MA24667-STD1	1		STDA
16:25	MA24667-STD2	1		STDB
16:31	MA24667-STD3	1		STDC
16:37	MA24667-CCV1	1		
16:43	MA24667-CCB1	1		
16:49	MA24667-CRIB1	1		
16:56	MA24667-CRID1	1		
17:02	MA24667-ICV1	1		
17:08	MA24667-ICB1	1		
17:14	MA24667-CCV2	1		
17:20	MA24667-CCB2	1		
17:26	MA24667-ICSA1	1		
17:32	MA24667-ICSAB1	1		
17:40	MA24667-CCV3	1		
17:46	MA24667-CCB3	1		
17:52	MP53768-MB1	1		
17:58	MP53768-B1	1		
18:04	MP53768-S1	1		
18:11	MP53768-S2	1		
18:17	JA51512-1	1		(sample used for QC only; not part of login JA50921)
18:23	MP53768-SD1	5		
18:29	ZZZZZZ	1		
18:35	ZZZZZZ	1		
18:41	ZZZZZZ	1		
18:48	ZZZZZZ	1		
18:54	MA24667-CCV4	1		
19:00	MA24667-CCB4	1		
19:06	ZZZZZZ	1		
19:12	ZZZZZZ	1		
19:19	ZZZZZZ	1		
19:25	ZZZZZZ	1		
19:31	ZZZZZZ	1		
19:37	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JA50921
Account: HWINJM - Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

File ID: SA071910M2.ICP Date Analyzed: 07/19/10 Methods: EPA 200.7, SW846 6010B
Analyst: GT Run ID: MA24667
Parameters: Cr

Time	Sample Description	Dilution Factor	PS Recov	Comments
19:44	ZZZZZZ	1		
19:50	ZZZZZZ	1		
19:56	ZZZZZZ	1		
20:02	ZZZZZZ	1		
20:08	MA24667-CCV5	1		
20:14	MA24667-CCB5	1		
20:20	ZZZZZZ	1		
20:27	ZZZZZZ	1		
20:33	ZZZZZZ	1		
20:39	ZZZZZZ	1		
20:46	MP53734-MB1	1		
20:52	MP53734-LC1	1		
20:58	MP53734-S1	1		
21:04	MP53734-S2	1		
21:10	JA50868-1	1		(sample used for QC only; not part of login JA50921)
21:17	MP53734-SD1	5		High RSD
21:23	MA24667-CCV6	1		
21:29	MA24667-CCB6	1		
21:35	MP53734-S1	10		
21:41	MP53734-S2	10		
21:48	JA50868-1	10		(sample used for QC only; not part of login JA50921)
21:54	MP53734-SD1	50		
22:00	ZZZZZZ	1		
22:06	ZZZZZZ	1		
22:12	ZZZZZZ	1		
22:19	ZZZZZZ	1		
22:25	ZZZZZZ	1		
22:31	ZZZZZZ	1		
22:37	MA24667-CCV7	1		
22:43	MA24667-CCB7	1		
22:49	ZZZZZZ	1		
22:55	ZZZZZZ	1		
23:01	ZZZZZZ	1		

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Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JA50921
Account: HWINJM - Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

File ID: SA071910M2.ICP Date Analyzed: 07/19/10 Methods: EPA 200.7, SW846 6010B
Analyst: GT Run ID: MA24667
Parameters: Cr

Time	Sample Description	Dilution Factor	PS Recov	Comments
23:07	ZZZZZZ	1		
23:14	ZZZZZZ	1		
23:20	ZZZZZZ	1		
23:26	ZZZZZZ	1		
23:32	ZZZZZZ	1		
23:38	ZZZZZZ	1		
23:44	MA24667-CCV8	1		
23:50	MA24667-CCB8	1		
23:57	MP53708-MB1	1		
00:03	MP53708-LC1	1		
00:09	MP53708-S1	1		
00:15	MP53708-S2	1		
00:21	JA50921-2	1		
00:27	MP53708-SD1	5		
00:33	MP53708-S3	1		
00:39	MP53708-S4	1		
00:45	JA50921-2F	1		
00:51	MP53708-SD2	5		
00:57	MA24667-CCV9	1		
01:03	MA24667-CCB9	1		
01:10	MA24667-ICSA2	1		
01:16	MA24667-ICSAB2	1		
01:22	MA24667-CCV10	1		
01:28	MA24667-CCB10	1		
01:34	ZZZZZZ	1		
01:41	ZZZZZZ	1		
01:47	ZZZZZZ	1		
01:53	ZZZZZZ	1		
01:59	ZZZZZZ	1		
02:05	ZZZZZZ	1		
02:11	ZZZZZZ	1		
02:18	ZZZZZZ	1		
02:24	ZZZZZZ	1		

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Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JA50921
Account: HWINJM - Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

File ID: SA071910M2.ICP Date Analyzed: 07/19/10 Methods: EPA 200.7, SW846 6010B
Analyst: GT Run ID: MA24667
Parameters: Cr

Time	Sample Description	Dilution Factor	PS Recov	Comments
02:30	ZZZZZZ	1		
02:36	MA24667-CCV11	1		
02:42	MA24667-CCB11	1		
02:48	ZZZZZZ	1		
02:54	JA50921-1	1		
03:00	JA50921-3	1		
03:06	JA50921-4	1		
03:13	JA50921-1F	1		
03:19	JA50921-3F	1		
03:25	JA50921-4F	1		
----->	Last reportable sample/prep for job JA50921			
03:31	ZZZZZZ	1		
03:37	ZZZZZZ	1		
03:43	ZZZZZZ	3		
03:50	MA24667-CCV12	1		
03:56	MA24667-CCB12	1		
04:02	ZZZZZZ	1		
04:08	ZZZZZZ	1		
04:14	ZZZZZZ	1		
04:21	ZZZZZZ	1		
04:27	ZZZZZZ	1		
04:33	ZZZZZZ	1		
04:39	ZZZZZZ	1		
04:45	ZZZZZZ	1		
04:51	ZZZZZZ	1		
04:58	MA24667-CCV13	1		
05:04	MA24667-CCB13	1		
05:10	ZZZZZZ	1		
05:16	ZZZZZZ	1		
05:22	MP53752-S1	1		
05:28	MP53752-S2	1		
05:34	JA51290-10	1		(sample used for QC only; not part of login JA50921)
05:40	MP53752-SD1	5		
05:46	ZZZZZZ	1		

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Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JA50921
Account: HWINJM - Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

File ID: SA071910M2.ICP Date Analyzed: 07/19/10 Methods: EPA 200.7, SW846 6010B
Analyst: GT Run ID: MA24667
Parameters: Cr

Time	Sample Description	Dilution Factor	PS Recov	Comments
05:52	ZZZZZZ	1		
05:58	ZZZZZZ	1		
06:04	ZZZZZZ	1		
06:10	MA24667-CCV14	1		
06:16	MA24667-CCB14	1		
06:23	ZZZZZZ	1		
06:29	ZZZZZZ	1		
06:35	ZZZZZZ	1		
06:41	ZZZZZZ	1		
06:47	ZZZZZZ	1		
06:53	ZZZZZZ	1		
06:59	ZZZZZZ	1		
07:05	ZZZZZZ	1		
07:11	ZZZZZZ	1		
07:17	ZZZZZZ	1		
07:23	MA24667-CCV15	1		
07:29	MA24667-CCB15	1		
07:36	ZZZZZZ	1		
07:42	MP53638-S1	1		
07:48	MP53638-S2	1		
07:55	JA50695-1	1		(sample used for QC only; not part of login JA50921)
08:01	MP53638-SD1	5		
08:07	MP53638-S1	2		Needs higher dilution for CR
08:14	MP53638-S2	2		Needs higher dilution for CR
08:20	JA50695-1	2		(sample used for QC only; not part of login JA50921)
08:26	MP53638-SD1	10		Needs higher dilution for CR
08:32	MA24667-CCV16	1		
08:38	MA24667-CCB16	1		
08:44	MA24667-ICSA3	1		
08:51	MA24667-ICSAB3	1		
08:57	ZZZZZZ	1		
09:04	ZZZZZZ	10		
09:10	ZZZZZZ	10		

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Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JA50921
Account: HWINJM - Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

File ID: SA071910M2.ICP Date Analyzed: 07/19/10 Methods: EPA 200.7, SW846 6010B
Analyst: GT Run ID: MA24667
Parameters: Cr

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:16	ZZZZZZ	2		
09:22	ZZZZZZ	2		
09:28	ZZZZZZ	3		
09:35	MA24667-CCV17	1		
09:41	MA24667-CCB17	1		
----->	Last reportable CCB for job JA50921			
09:47	MA24667-ICSA4	1		
09:53	MA24667-ICSAB4	1		
09:59	MA24667-CCV18	1		
10:05	MA24667-CCB18	1		
10:12	ZZZZZZ	1		
10:18	ZZZZZZ	1		
10:24	ZZZZZZ	1		

Refer to raw data for calibration curve and standards.

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INTERNAL STANDARD SUMMARY

Login Number: JA50921
 Account: HWINJM - Honeywell International Inc.
 Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

File ID: SA071910M2.ICP Date Analyzed: 07/19/10 Methods: EPA 200.7, SW846 6010B
 Analyst: GT Run ID: MA24667
 Parameters: Cr

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
16:19	MA24667-STD1	2548 R	157470 R	27957 R	5458 R
16:25	MA24667-STD2	2503	155190	27795	5255
16:31	MA24667-STD3	2397	148650	27395	4882
16:37	MA24667-CCV1	2459	152220	27702	5093
16:43	MA24667-CCB1	2535	156790	27824	5434
16:49	MA24667-CRIB1	2519	156070	27961	5372
16:56	MA24667-CRID1	2533	157120	27932	5429
17:02	MA24667-ICV1	2516	156220	27672	5344
17:08	MA24667-ICB1	2541	157070	27790	5457
17:14	MA24667-CCV2	2458	152540	27581	5099
17:20	MA24667-CCB2	2526	157080	27820	5429
17:26	MA24667-ICSA1	2245	139440	26529	4508
17:32	MA24667-ICSAB1	2239	139900	26545	4471
17:40	MA24667-CCV3	2464	152490	27455	5105
17:46	MA24667-CCB3	2536	157110	27835	5430
17:52	MP53768-MB1	2565	158980	28446	5530
17:58	MP53768-B1	2484	156130	27964	5246
18:04	MP53768-S1	2484	156960	29025	4913
18:11	MP53768-S2	2474	155340	28151	5096
18:17	JA51512-1	2495	157220	28443	5187
18:23	MP53768-SD1	2533	157620	27953	5380
18:29	ZZZZZZ	2513	157610	28480	5182
18:35	ZZZZZZ	2521	158470	28614	5177
18:41	ZZZZZZ	2527	157980	28679	5227
18:48	ZZZZZZ	2479	156100	28426	5057
18:54	MA24667-CCV4	2461	152200	27276	5099
19:00	MA24667-CCB4	2548	156930	27700	5445
19:06	ZZZZZZ	2498	156650	28323	5154
19:12	ZZZZZZ	2643	166200	31584	4630
19:19	ZZZZZZ	2515	157480	28267	5271
19:25	ZZZZZZ	2548	158060	28187	5378
19:31	ZZZZZZ	2565	159050	28345	5380
19:37	ZZZZZZ	2527	158230	28410	5221

INTERNAL STANDARD SUMMARY

Login Number: JA50921
 Account: HWINJM - Honeywell International Inc.
 Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

File ID: SA071910M2.ICP Date Analyzed: 07/19/10 Methods: EPA 200.7, SW846 6010B
 Analyst: GT Run ID: MA24667
 Parameters: Cr

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
19:44	ZZZZZZ	2533	158710	28728	5103
19:50	ZZZZZZ	2529	157130	28194	5347
19:56	ZZZZZZ	2561	158860	28633	5262
20:02	ZZZZZZ	2454	153600	27998	4983
20:08	MA24667-CCV5	2485	152820	27295	5120
20:14	MA24667-CCB5	2565	157500	27702	5465
20:20	ZZZZZZ	2380	154970	28242	5068
20:27	ZZZZZZ	2596	160750	28821	5268
20:33	ZZZZZZ	2513	157310	28645	5111
20:39	ZZZZZZ	2664	166570	31721	4612
20:46	MP53734-MB1	2579	158140	27869	5501
20:52	MP53734-LC1	2539	156650	27632	5365
20:58	MP53734-S1	2057	120160	24410	3923
21:04	MP53734-S2	2020	119090	24221	3844
21:10	JA50868-1	2029	119680	24401	3883
21:17	MP53734-SD1	2347	141970	26389	4724
21:23	MA24667-CCV6	2509	153520	27148	5146
21:29	MA24667-CCB6	2583	158230	27577	5481
21:35	MP53734-S1	2441	146580	26795	5002
21:41	MP53734-S2	2426	146190	26807	4972
21:48	JA50868-1	2431	147030	26748	4995
21:54	MP53734-SD1	2540	154780	27312	5339
22:00	ZZZZZZ	2559	157890	27671	5453
22:06	ZZZZZZ	2419	148820	27547	5052
22:12	ZZZZZZ	2312	140260	26549	4609
22:19	ZZZZZZ	2556	158040	27697	5438
22:25	ZZZZZZ	2345	145050	26580	4790
22:31	ZZZZZZ	2557	158000	27963	5450
22:37	MA24667-CCV7	2503	153480	27384	5136
22:43	MA24667-CCB7	2589	158580	27686	5487
22:49	ZZZZZZ	2517	156130	27681	5334
22:55	ZZZZZZ	2566	158100	28276	5455
23:01	ZZZZZZ	2542	155480	27609	5349

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INTERNAL STANDARD SUMMARY

Login Number: JA50921
 Account: HWINJM - Honeywell International Inc.
 Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

File ID: SA071910M2.ICP Date Analyzed: 07/19/10 Methods: EPA 200.7, SW846 6010B
 Analyst: GT Run ID: MA24667
 Parameters: Cr

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
23:07	ZZZZZZ	2524	154210	27714	5271
23:14	ZZZZZZ	2558	157180	27702	5429
23:20	ZZZZZZ	2478	149540	27518	5049
23:26	ZZZZZZ	2482	149020	27304	5087
23:32	ZZZZZZ	2529	156590	27793	5358
23:38	ZZZZZZ	2575	158780	27733	5471
23:44	MA24667-CCV8	2518	153990	27350	5145
23:50	MA24667-CCB8	2597	158670	27701	5487
23:57	MP53708-MB1	2625	160460	28063	5574
00:03	MP53708-LC1	2538	157090	27635	5344
00:09	MP53708-S1	2370	142180	26608	4714
00:15	MP53708-S2	2361	141950	26525	4697
00:21	JA50921-2	2379	142280	27046	4776
00:27	MP53708-SD1	2530	152590	27479	5271
00:33	MP53708-S3	2352	142160	26709	4686
00:39	MP53708-S4	2353	141930	26740	4703
00:45	JA50921-2F	2364	141780	26856	4762
00:51	MP53708-SD2	2509	152440	27464	5234
00:57	MA24667-CCV9	2495	153370	27604	5118
01:03	MA24667-CCB9	2577	158050	27814	5468
01:10	MA24667-ICSA2	2284	140700	26331	4509
01:16	MA24667-ICSAB2	2241	139810	26221	4435
01:22	MA24667-CCV10	2503	153060	27219	5123
01:28	MA24667-CCB10	2585	157820	27624	5468
01:34	ZZZZZZ	2475	151290	27260	5145
01:41	ZZZZZZ	2520	155950	27644	5307
01:47	ZZZZZZ	2568	158290	27696	5463
01:53	ZZZZZZ	2427	149780	26988	5051
01:59	ZZZZZZ	2418	149320	27038	5018
02:05	ZZZZZZ	2485	152950	27295	5218
02:11	ZZZZZZ	2457	151160	27134	5100
02:18	ZZZZZZ	2517	155360	28108	4949
02:24	ZZZZZZ	2568	157700	28190	5347

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INTERNAL STANDARD SUMMARY

Login Number: JA50921
 Account: HWINJM - Honeywell International Inc.
 Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

File ID: SA071910M2.ICP Date Analyzed: 07/19/10 Methods: EPA 200.7, SW846 6010B
 Analyst: GT Run ID: MA24667
 Parameters: Cr

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
02:30	ZZZZZZ	2546	156860	27905	5323
02:36	MA24667-CCV11	2497	152770	27259	5112
02:42	MA24667-CCB11	2577	157770	27593	5465
02:48	ZZZZZZ	2817	172500	30819	5339
02:54	JA50921-1	2456	150360	27228	5074
03:00	JA50921-3	2377	142170	26666	4775
03:06	JA50921-4	2560	157820	27724	5441
03:13	JA50921-1F	2453	149940	27244	5063
03:19	JA50921-3F	2371	141920	26494	4763
03:25	JA50921-4F	2556	155570	27569	5433
03:31	ZZZZZZ	2450	150100	27161	5082
03:37	ZZZZZZ	2255	133240	25878	4421
03:43	ZZZZZZ	2419	145010	26597	4900
03:50	MA24667-CCV12	2492	152750	27117	5104
03:56	MA24667-CCB12	2577	157910	27488	5455
04:02	ZZZZZZ	2376	144550	26694	4820
04:08	ZZZZZZ	2560	157640	27716	5441
04:14	ZZZZZZ	2414	144760	26888	4870
04:21	ZZZZZZ	2571	157860	27421	5445
04:27	ZZZZZZ	2408	144340	26755	4857
04:33	ZZZZZZ	2468	151770	27430	5131
04:39	ZZZZZZ	2401	142590	27783	4519
04:45	ZZZZZZ	2257	134780	26060	4433
04:51	ZZZZZZ	2584	158110	27465	5458
04:58	MA24667-CCV13	2502	152970	27247	5112
05:04	MA24667-CCB13	2583	157970	27507	5464
05:10	ZZZZZZ	2648	161230	28250	5614
05:16	ZZZZZZ	2535	156380	27601	5255
05:22	MP53752-S1	2542	156830	27751	5227
05:28	MP53752-S2	2531	156630	27663	5205
05:34	JA51290-10	2631	160830	28217	5489
05:40	MP53752-SD1	2605	159180	27702	5477
05:46	ZZZZZZ	2587	159180	28176	5312

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INTERNAL STANDARD SUMMARY

Login Number: JA50921
 Account: HWINJM - Honeywell International Inc.
 Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

File ID: SA071910M2.ICP Date Analyzed: 07/19/10 Methods: EPA 200.7, SW846 6010B
 Analyst: GT Run ID: MA24667
 Parameters: Cr

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
05:52	ZZZZZZ	2610	159620	28069	5473
05:58	ZZZZZZ	2600	159150	27965	5475
06:04	ZZZZZZ	2599	159310	28166	5465
06:10	MA24667-CCV14	2505	153110	27202	5113
06:16	MA24667-CCB14	2595	157970	27439	5470
06:23	ZZZZZZ	2607	159260	28061	5470
06:29	ZZZZZZ	2629	160320	28125	5408
06:35	ZZZZZZ	2601	158740	28425	5405
06:41	ZZZZZZ	2626	160140	28346	5476
06:47	ZZZZZZ	2620	159750	28307	5464
06:53	ZZZZZZ	2589	159510	28470	5302
06:59	ZZZZZZ	2608	159120	28036	5441
07:05	ZZZZZZ	2611	159200	28240	5455
07:11	ZZZZZZ	2618	159840	28265	5438
07:17	ZZZZZZ	2605	159930	28211	5417
07:23	MA24667-CCV15	2516	152870	27349	5115
07:29	MA24667-CCB15	2603	158080	27717	5474
07:36	ZZZZZZ	2587	158630	28085	5473
07:42	MP53638-S1	2186	144590	26742	4605
07:48	MP53638-S2	2170	144010	26722	4580
07:55	JA50695-1	2174	144640	27043	4610
08:01	MP53638-SD1	2479	153720	27560	5160
08:07	MP53638-S1	2352	149510	27482	4895
08:14	MP53638-S2	2347	149370	27225	4874
08:20	JA50695-1	2349	149710	27226	4889
08:26	MP53638-SD1	2544	156300	27612	5302
08:32	MA24667-CCV16	2534	153690	27375	5136
08:38	MA24667-CCB16	2612	158490	27813	5487
08:44	MA24667-ICSA3	2304	140930	26350	4514
08:51	MA24667-ICSAB3	2302	141040	26481	4497
08:57	ZZZZZZ	1921	137700	26404	4399
09:04	ZZZZZZ	2495	155110	27622	5215
09:10	ZZZZZZ	2455	153140	27551	5140

5.1.1
5

INTERNAL STANDARD SUMMARY

Login Number: JA50921
 Account: HWINJM - Honeywell International Inc.
 Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

File ID: SA071910M2.ICP Date Analyzed: 07/19/10 Methods: EPA 200.7, SW846 6010B
 Analyst: GT Run ID: MA24667
 Parameters: Cr

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
09:16	ZZZZZZ	2576	157830	28351	5300
09:22	ZZZZZZ	2639	161180	29924	4910
09:28	ZZZZZZ	2623	159950	29237	5023
09:35	MA24667-CCV17	2529	153130	27644	5127
09:41	MA24667-CCB17	2601	158360	27969	5475
09:47	MA24667-ICSA4	2297	140280	26629	4507
09:53	MA24667-ICSAB4	2287	139780	26461	4483
09:59	MA24667-CCV18	2515	152360	27460	5111
10:05	MA24667-CCB18	2603	158320	27768	5481
10:12	ZZZZZZ	2573	155980	27767	5413
10:18	ZZZZZZ	8446 !	412490 !	47588 !	16274 !
10:24	ZZZZZZ	2603	154560	29059	5260

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

5.1.1
5

BLANK RESULTS SUMMARY
 Part 1 - Initial and Continuing Calibration Blanks

Login Number: JA50921
 Account: HWINJM - Honeywell International Inc.
 Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

File ID: SA071910M2.ICP Date Analyzed: 07/19/10 Methods: EPA 200.7, SW846 6010B
 QC Limits: result < RL Run ID: MA24667 Units: ug/l

Time:			17:08			17:20			17:46			19:00
Sample ID:	RL	IDL	ICB1	final	CCB2	final	CCB3	final	CCB4	final	final	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final	raw	final
Aluminum	200	9.9	anr									
Antimony	6.0	1	anr									
Arsenic	3.0	2	anr									
Barium	200	.3	anr									
Beryllium	1.0	.2	anr									
Boron	100	1.7	anr									
Cadmium	3.0	.3	anr									
Calcium	5000	47	anr									
Chromium	10	.3	0.30	<10	0.50	<10	0.40	<10	0.50	<10	0.50	<10
Cobalt	50	.4	anr									
Copper	10	.5	anr									
Iron	100	3.8	anr									
Lead	3.0	1	anr									
Magnesium	5000	15	anr									
Manganese	15	.2	anr									
Molybdenum	20	.7	anr									
Nickel	10	.9	anr									
Palladium	50	1.5										
Potassium	10000	24	anr									
Selenium	10	2.2	anr									
Silicon	200	3.7	anr									
Silver	10	.4	anr									
Sodium	10000	17	anr									
Strontium	10	.3	anr									
Thallium	2.0	.7	anr									
Tin	10	.5	anr									
Titanium	10	.4	anr									
Tungsten	50	8.7										
Vanadium	50	.3	anr									
Zinc	20	2.5	anr									
Zirconium	10	.5										

(*) Outside of QC limits
 (anr) Analyte not requested

5.1.2
5

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JA50921
Account: HWINJM - Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

File ID: SA071910M2.ICP Date Analyzed: 07/19/10 Methods: EPA 200.7, SW846 6010B
QC Limits: result < RL Run ID: MA24667 Units: ug/l

Metal	RL	IDL	20:14	21:29		22:43		23:50		
			CCB5	raw	final	raw	final	raw	final	raw
Aluminum	200	9.9	anr							
Antimony	6.0	1	anr							
Arsenic	3.0	2	anr							
Barium	200	.3	anr							
Beryllium	1.0	.2	anr							
Boron	100	1.7	anr							
Cadmium	3.0	.3	anr							
Calcium	5000	47	anr							
Chromium	10	.3	0.50	<10	0.60	<10	0.40	<10	0.50	<10
Cobalt	50	.4	anr							
Copper	10	.5	anr							
Iron	100	3.8	anr							
Lead	3.0	1	anr							
Magnesium	5000	15	anr							
Manganese	15	.2	anr							
Molybdenum	20	.7	anr							
Nickel	10	.9	anr							
Palladium	50	1.5								
Potassium	10000	24	anr							
Selenium	10	2.2	anr							
Silicon	200	3.7	anr							
Silver	10	.4	anr							
Sodium	10000	17	anr							
Strontium	10	.3	anr							
Thallium	2.0	.7	anr							
Tin	10	.5	anr							
Titanium	10	.4	anr							
Tungsten	50	8.7								
Vanadium	50	.3	anr							
Zinc	20	2.5	anr							
Zirconium	10	.5								

(*) Outside of QC limits
(anr) Analyte not requested

5.1.2
5

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JA50921
Account: HWINJM - Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

File ID: SA071910M2.ICP Date Analyzed: 07/19/10 Methods: EPA 200.7, SW846 6010B
QC Limits: result < RL Run ID: MA24667 Units: ug/l

Metal	RL	IDL	01:03	01:28		02:42		03:56		
			CCB9	raw	final	raw	final	raw	final	raw
Aluminum	200	9.9	anr							
Antimony	6.0	1	anr							
Arsenic	3.0	2	anr							
Barium	200	.3	anr							
Beryllium	1.0	.2	anr							
Boron	100	1.7	anr							
Cadmium	3.0	.3	anr							
Calcium	5000	47	anr							
Chromium	10	.3	0.50	<10	0.40	<10	0.50	<10	0.90	<10
Cobalt	50	.4	anr							
Copper	10	.5	anr							
Iron	100	3.8	anr							
Lead	3.0	1	anr							
Magnesium	5000	15	anr							
Manganese	15	.2	anr							
Molybdenum	20	.7	anr							
Nickel	10	.9	anr							
Palladium	50	1.5								
Potassium	10000	24	anr							
Selenium	10	2.2	anr							
Silicon	200	3.7	anr							
Silver	10	.4	anr							
Sodium	10000	17	anr							
Strontium	10	.3	anr							
Thallium	2.0	.7	anr							
Tin	10	.5	anr							
Titanium	10	.4	anr							
Tungsten	50	8.7								
Vanadium	50	.3	anr							
Zinc	20	2.5	anr							
Zirconium	10	.5								

(*) Outside of QC limits
(anr) Analyte not requested

5.1.2
5

BLANK RESULTS SUMMARY
 Part 1 - Initial and Continuing Calibration Blanks

Login Number: JA50921
 Account: HWINJM - Honeywell International Inc.
 Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

File ID: SA071910M2.ICP Date Analyzed: 07/19/10 Methods: EPA 200.7, SW846 6010B
 QC Limits: result < RL Run ID: MA24667 Units: ug/l

Metal	RL	IDL	05:04	06:16		07:29		08:38		
			CCB13	raw	final	raw	final	raw	final	raw
Aluminum	200	9.9	anr							
Antimony	6.0	1	anr							
Arsenic	3.0	2	anr							
Barium	200	.3	anr							
Beryllium	1.0	.2	anr							
Boron	100	1.7	anr							
Cadmium	3.0	.3	anr							
Calcium	5000	47	anr							
Chromium	10	.3	0.70	<10	0.70	<10	0.80	<10	1.0	<10
Cobalt	50	.4	anr							
Copper	10	.5	anr							
Iron	100	3.8	anr							
Lead	3.0	1	anr							
Magnesium	5000	15	anr							
Manganese	15	.2	anr							
Molybdenum	20	.7	anr							
Nickel	10	.9	anr							
Palladium	50	1.5								
Potassium	10000	24	anr							
Selenium	10	2.2	anr							
Silicon	200	3.7	anr							
Silver	10	.4	anr							
Sodium	10000	17	anr							
Strontium	10	.3	anr							
Thallium	2.0	.7	anr							
Tin	10	.5	anr							
Titanium	10	.4	anr							
Tungsten	50	8.7								
Vanadium	50	.3	anr							
Zinc	20	2.5	anr							
Zirconium	10	.5								

(*) Outside of QC limits
 (anr) Analyte not requested

5.1.2
 5

BLANK RESULTS SUMMARY
 Part 1 - Initial and Continuing Calibration Blanks

Login Number: JA50921
 Account: HWINJM - Honeywell International Inc.
 Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

File ID: SA071910M2.ICP Date Analyzed: 07/19/10 Methods: EPA 200.7, SW846 6010B
 QC Limits: result < RL Run ID: MA24667 Units: ug/l

Metal	RL	IDL	09:41 CCB17 raw	final
Aluminum	200	9.9	anr	
Antimony	6.0	1	anr	
Arsenic	3.0	2	anr	
Barium	200	.3	anr	
Beryllium	1.0	.2	anr	
Boron	100	1.7	anr	
Cadmium	3.0	.3	anr	
Calcium	5000	47	anr	
Chromium	10	.3	0.60	<10
Cobalt	50	.4	anr	
Copper	10	.5	anr	
Iron	100	3.8	anr	
Lead	3.0	1	anr	
Magnesium	5000	15	anr	
Manganese	15	.2	anr	
Molybdenum	20	.7	anr	
Nickel	10	.9	anr	
Palladium	50	1.5		
Potassium	10000	24	anr	
Selenium	10	2.2	anr	
Silicon	200	3.7	anr	
Silver	10	.4	anr	
Sodium	10000	17	anr	
Strontium	10	.3	anr	
Thallium	2.0	.7	anr	
Tin	10	.5	anr	
Titanium	10	.4	anr	
Tungsten	50	8.7		
Vanadium	50	.3	anr	
Zinc	20	2.5	anr	
Zirconium	10	.5		

(*) Outside of QC limits
 (anr) Analyte not requested

5.1.2
 5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JA50921
Account: HWINJM - Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

File ID: SA071910M2.ICP Date Analyzed: 07/19/10 Methods: EPA 200.7, SW846 6010B
QC Limits: 95 to 105 % Recovery Run ID: MA24667 Units: ug/l

Time:	17:02	17:14	17:40
Sample ID:	ICV	CCV	CCV
Metal	ICV1	CCV2	CCV3
	Results	Results	Results
	% Rec	% Rec	% Rec
Aluminum	anr		
Antimony	anr		
Arsenic	anr		
Barium	anr		
Beryllium	anr		
Boron	anr		
Cadmium	anr		
Calcium	anr		
Chromium	1000 1040	2000 2020	2000 2010
	104.0	101.0	100.5
Cobalt	anr		
Copper	anr		
Iron	anr		
Lead	anr		
Magnesium	anr		
Manganese	anr		
Molybdenum	anr		
Nickel	anr		
Palladium			
Potassium	anr		
Selenium	anr		
Silicon	anr		
Silver	anr		
Sodium	anr		
Strontium	anr		
Thallium	anr		
Tin	anr		
Titanium	anr		
Tungsten			
Vanadium	anr		
Zinc	anr		
Zirconium			

(*) Outside of QC limits
(anr) Analyte not requested

5.1.3
5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JA50921
Account: HWINJM - Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

File ID: SA071910M2.ICP Date Analyzed: 07/19/10 Methods: EPA 200.7, SW846 6010B
QC Limits: 95 to 105 % Recovery Run ID: MA24667 Units: ug/l

Metal	Sample ID: CCV	18:54		CCV	20:08		CCV	21:23	
		CCV4	Results		CCV5	Results		CCV6	Results
	True		% Rec	True		% Rec	True		% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Boron	anr								
Cadmium	anr								
Calcium	anr								
Chromium	2000	2020	101.0	2000	2020	101.0	2000	2030	101.5
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Palladium									
Potassium	anr								
Selenium	anr								
Silicon	anr								
Silver	anr								
Sodium	anr								
Strontium	anr								
Thallium	anr								
Tin	anr								
Titanium	anr								
Tungsten									
Vanadium	anr								
Zinc	anr								
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

5.1.3
5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JA50921
Account: HWINJM - Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

File ID: SA071910M2.ICP Date Analyzed: 07/19/10 Methods: EPA 200.7, SW846 6010B
QC Limits: 95 to 105 % Recovery Run ID: MA24667 Units: ug/l

Time:	22:37	23:44	00:57						
Sample ID:	CCV7	CCV8	CCV9						
Metal	True	Results % Rec	True	Results % Rec	True	Results % Rec			
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Boron	anr								
Cadmium	anr								
Calcium	anr								
Chromium	2000	2040	102.0	2000	2040	102.0	2000	2040	102.0
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Palladium									
Potassium	anr								
Selenium	anr								
Silicon	anr								
Silver	anr								
Sodium	anr								
Strontium	anr								
Thallium	anr								
Tin	anr								
Titanium	anr								
Tungsten									
Vanadium	anr								
Zinc	anr								
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

5.1.3
5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JA50921
Account: HWINJM - Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

File ID: SA071910M2.ICP Date Analyzed: 07/19/10 Methods: EPA 200.7, SW846 6010B
QC Limits: 95 to 105 % Recovery Run ID: MA24667 Units: ug/l

Metal	Sample ID: CCV	01:22		CCV	02:36		CCV	03:50	
		CCV10	Results % Rec		CCV11	Results % Rec		CCV12	Results % Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Boron	anr								
Cadmium	anr								
Calcium	anr								
Chromium	2000	2070	103.5	2000	2080	104.0	2000	2080	104.0
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Palladium									
Potassium	anr								
Selenium	anr								
Silicon	anr								
Silver	anr								
Sodium	anr								
Strontium	anr								
Thallium	anr								
Tin	anr								
Titanium	anr								
Tungsten									
Vanadium	anr								
Zinc	anr								
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

5.1.3
5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JA50921
Account: HWINJM - Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

File ID: SA071910M2.ICP Date Analyzed: 07/19/10 Methods: EPA 200.7, SW846 6010B
QC Limits: 95 to 105 % Recovery Run ID: MA24667 Units: ug/l

Metal	Sample ID: CCV	Time: 04:58		CCV	Time: 06:10		CCV	Time: 07:23	
		CCV13	Results		CCV14	Results		CCV15	Results
	True		% Rec	True		% Rec	True		% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Boron	anr								
Cadmium	anr								
Calcium	anr								
Chromium	2000	2100	105.0	2000	2100	105.0	2000	2110	105.5
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Palladium									
Potassium	anr								
Selenium	anr								
Silicon	anr								
Silver	anr								
Sodium	anr								
Strontium	anr								
Thallium	anr								
Tin	anr								
Titanium	anr								
Tungsten									
Vanadium	anr								
Zinc	anr								
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

5.1.3
5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JA50921
Account: HWINJM - Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

File ID: SA071910M2.ICP Date Analyzed: 07/19/10 Methods: EPA 200.7, SW846 6010B
QC Limits: 95 to 105 % Recovery Run ID: MA24667 Units: ug/l

Metal	Sample ID: CCV True	08:32 CCV16		CCV True	09:35 CCV17	
		Results	% Rec		Results	% Rec
Aluminum	anr					
Antimony	anr					
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Boron	anr					
Cadmium	anr					
Calcium	anr					
Chromium	2000	2110	105.5	2000	2110	105.5
Cobalt	anr					
Copper	anr					
Iron	anr					
Lead	anr					
Magnesium	anr					
Manganese	anr					
Molybdenum	anr					
Nickel	anr					
Palladium						
Potassium	anr					
Selenium	anr					
Silicon	anr					
Silver	anr					
Sodium	anr					
Strontium	anr					
Thallium	anr					
Tin	anr					
Titanium	anr					
Tungsten						
Vanadium	anr					
Zinc	anr					
Zirconium						

(*) Outside of QC limits
(anr) Analyte not requested

5.1.3
5

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JA50921
 Account: HWINJM - Honeywell International Inc.
 Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

File ID: SA071910M2.ICP Date Analyzed: 07/19/10 Methods: EPA 200.7, SW846 6010B
 QC Limits: 50 to 150 % Recovery Run ID: MA24667 Units: ug/l

Time:	Sample ID:	CRI	CRIA	CRID	16:56 CRID1	Results	% Rec
Metal	True	True	True	True	Results	% Rec	
Aluminum				100	anr		
Antimony	120			3.0	anr		
Arsenic	20	3.0	3.0	3.0	anr		
Barium	400			4.0	anr		
Beryllium	10	1.0	1.0	1.0	anr		
Boron				10	anr		
Cadmium	10			1.0	anr		
Calcium				1000	anr		
Chromium	20			2.0	2.2	110.0	
Cobalt	100			3.0	anr		
Copper	50			2.0	anr		
Iron							
Lead	6.0			2.5	anr		
Magnesium				100	anr		
Manganese	30			3.0	anr		
Molybdenum	40						
Nickel	80			4.0	anr		
Palladium	100						
Potassium				2000	anr		
Selenium	10			5.0	anr		
Silicon							
Silver	20			1.0	anr		
Sodium				1000	anr		
Strontium							
Thallium	20	2.0	2.0	2.0	anr		
Tin							
Titanium							
Tungsten	50						
Vanadium	100			2.0	anr		
Zinc	40			10	anr		
Zirconium	10	10	5.0	5.0			

(*) Outside of QC limits
 (anr) Analyte not requested

5.1.4
5

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JA50921
 Account: HWINJM - Honeywell International Inc.
 Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

File ID: SA071910M2.ICP Date Analyzed: 07/19/10 Methods: EPA 200.7, SW846 6010B
 QC Limits: 50 to 150 % Recovery Run ID: MA24667 Units: ug/l

Metal	Time:	Sample ID:	CRIB	16:49	CRIB1	Results	% Rec
Aluminum	200						
Antimony	6.0						
Arsenic	8.0						
Barium	200						
Beryllium	2.0						
Boron	100						
Cadmium	3.0						
Calcium	5000						
Chromium	10	9.7				97.0	
Cobalt	50						
Copper	10						
Iron	100						
Lead	3.0						
Magnesium	5000						
Manganese	15						
Molybdenum	20						
Nickel	10						
Palladium	50						
Potassium	10000						
Selenium	10						
Silicon	200						
Silver	5.0						
Sodium	10000						
Strontium	10						
Thallium	10						
Tin	10						
Titanium	10						
Tungsten	50						
Vanadium	50						
Zinc	20						
Zirconium	10						

(*) Outside of QC limits
 (anr) Analyte not requested

5.1.5
 5

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JA50921
Account: HWINJM - Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

File ID: SA071910M2.ICP Date Analyzed: 07/19/10 Methods: EPA 200.7, SW846 6010B
QC Limits: 80 to 120 % Recovery Run ID: MA24667 Units: ug/l

Time:			17:26			17:32			01:10			01:16
Sample ID:	ICSA	ICSAB	ICSAL	% Rec	ICSAB1	% Rec	ICSAB2	% Rec	ICSAB2	% Rec		
Metal	True	True	Results		Results		Results		Results			
Aluminum	500000	500000	470000	94.0	481000	96.2	480000	96.0	494000	98.8		
Antimony		1000	0.90		1030	103.0	1.6		1040	104.0		
Arsenic		1000	1.0		1060	106.0	0.0		1050	105.0		
Barium		500	-3.7		497	99.4	-3.9		498	99.6		
Beryllium		500	0.10		482	96.4	0.10		488	97.6		
Boron			0.70		9.9		0.30		10.1			
Cadmium		1000	2.2		1030	103.0	2.4		1040	104.0		
Calcium	400000	400000	368000	92.0	368000	92.0	372000	93.0	376000	94.0		
Chromium		500	2.1		458	91.6	2.0		469	93.8		
Cobalt		500	0.60		467	93.4	0.70		468	93.6		
Copper		500	0.10		466	93.2	0.40		469	93.8		
Iron	200000	200000	187000	93.5	183000	91.5	190000	95.0	185000	92.5		
Lead		1000	2.1		974	97.4	1.9		992	99.2		
Magnesium	500000	500000	503000	100.6	495000	99.0	512000	102.4	505000	101.0		
Manganese		500	-1.4		476	95.2	-0.60		488	97.6		
Molybdenum		500	0.50		501	100.2	0.50		505	101.0		
Nickel		1000	-4.1		971	97.1	-4.3		1010	101.0		
Palladium		500	-51		494	98.8	-54		502	100.4		
Potassium			0.0		41.5		82.1		105			
Selenium		1000	-4.2		1000	100.0	-2.3		1010	101.0		
Silicon			-1.6		7.6		-1.0		9.0			
Silver		1000	-0.60		1020	102.0	1.4		1040	104.0		
Sodium			878		905		1160		1220			
Strontium			1.0		2.1		0.80		1.9			
Thallium		1000	-1.1		978	97.8	-1.6		1000	100.0		
Tin			-7.8		-8.1		-7.6		-7.8			
Titanium			3.9		4.2		3.9		3.9			
Tungsten		500	43.5		499	99.8	35.5		461	92.2		
Vanadium		500	-0.60		452	90.4	-0.90		461	92.2		
Zinc		1000	-5.9		906	90.6	-5.9		915	91.5		
Zirconium		500	1.9		484	96.8	1.9		485	97.0		

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JA50921
Account: HWINJM - Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

File ID: SA071910M2.ICP Date Analyzed: 07/19/10 Methods: EPA 200.7, SW846 6010B
QC Limits: 80 to 120 % Recovery Run ID: MA24667 Units: ug/l

Metal	Time:		08:44		08:51	
	Sample ID:	ICSAB	ICSAB	ICSAB3	ICSAB3	ICSAB3
	True	True	Results	% Rec	Results	% Rec
Aluminum	500000	500000	481000	96.2	495000	99.0
Antimony		1000	3.3		1040	104.0
Arsenic		1000	1.5		1050	105.0
Barium		500	-4.0		500	100.0
Beryllium		500	0.10		490	98.0
Boron			-0.10		9.4	
Cadmium		1000	2.3		1040	104.0
Calcium	400000	400000	376000	94.0	377000	94.3
Chromium		500	2.0		476	95.2
Cobalt		500	0.30		468	93.6
Copper		500	0.40		472	94.4
Iron	200000	200000	191000	95.5	186000	93.0
Lead		1000	0.10		1010	101.0
Magnesium	500000	500000	524000	104.8	511000	102.2
Manganese		500	-0.10		493	98.6
Molybdenum		500	1.0		506	101.2
Nickel		1000	-4.8		1020	102.0
Palladium		500	-58		509	101.8
Potassium			32.4		40.1	
Selenium		1000	-0.70		1010	101.0
Silicon			-2.3		8.0	
Silver		1000	2.9		1050	105.0
Sodium			880		923	
Strontium			1.0		2.1	
Thallium		1000	-0.40		1020	102.0
Tin			-7.0		-7.7	
Titanium			3.9		4.1	
Tungsten		500	40.7		480	96.0
Vanadium		500	-1.2		468	93.6
Zinc		1000	-5.4		922	92.2
Zirconium		500	2.1		487	97.4

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JA50921
Account: HWINJM - Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

QC Batch ID: MP53708
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 07/14/10

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	9.9	7.8		
Antimony	6.0	1	2.2		
Arsenic	3.0	2	1.4		
Barium	200	.3	.44		
Beryllium	1.0	.2	.24		
Boron	100	1.7	2.2		
Cadmium	3.0	.3	.35		
Calcium	5000	47	44		
Chromium	10	.3	.59	0.0	<10
Cobalt	50	.4	.65		
Copper	10	.5	2.5		
Iron	100	3.8	18		
Lead	3.0	1	1.9		
Magnesium	5000	15	15		
Manganese	15	.2	.46		
Molybdenum	20	.7	2.7		
Nickel	10	.9	.51		
Palladium	50	1.5	1.5		
Potassium	10000	24	75		
Selenium	10	2.2	1.9		
Silicon	200	3.7	6.1		
Silver	10	.4	.53		
Sodium	10000	17	14		
Strontium	10	.3	.68		
Thallium	2.0	.7	1.8		
Tin	10	.5	1.1		
Titanium	10	.4	1.3		
Tungsten	50	8.7	23		
Vanadium	50	.3	.56		
Zinc	20	2.5	1.4		
Zirconium	10	.5	1.6		

Associated samples MP53708: JA50921-1, JA50921-2, JA50921-3, JA50921-4, JA50921-1F, JA50921-2F, JA50921-3F, JA50921-4F

Results < IDL are shown as zero for calculation purposes

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JA50921
Account: HWINJM - Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

QC Batch ID: MP53708
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

(*) Outside of QC limits
(anr) Analyte not requested

5.2.1

5

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JA50921
 Account: HWINJM - Honeywell International Inc.
 Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

QC Batch ID: MP53708
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 07/14/10

Metal	JA50921-2 Original MS	Spikelot MPIRW1	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium	20.5	226	200	102.8 75-125
Cobalt				
Copper				
Iron	anr			
Lead	anr			
Magnesium				
Manganese	anr			
Molybdenum				
Nickel				
Palladium				
Potassium				
Selenium				
Silicon				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium				
Zinc				
Zirconium				

Associated samples MP53708: JA50921-1, JA50921-2, JA50921-3, JA50921-4, JA50921-1F, JA50921-2F, JA50921-3F, JA50921-4F

Results < IDL are shown as zero for calculation purposes

5.2.2
 5

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JA50921

Account: HWINJM - Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

QC Batch ID: MP53708
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

5.2.2

5

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JA50921
 Account: HWINJM - Honeywell International Inc.
 Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

QC Batch ID: MP53708
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 07/14/10

Metal	JA50921-2		SpikeLot		MSD RPD	QC Limit
	Original	MSD	MPIRW1	% Rec		
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron						
Cadmium						
Calcium						
Chromium	20.5	229	200	104.3	1.3	20
Cobalt						
Copper						
Iron	anr					
Lead	anr					
Magnesium						
Manganese	anr					
Molybdenum						
Nickel						
Palladium						
Potassium						
Selenium						
Silicon						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Tungsten						
Vanadium						
Zinc						
Zirconium						

Associated samples MP53708: JA50921-1, JA50921-2, JA50921-3, JA50921-4, JA50921-1F, JA50921-2F, JA50921-3F, JA50921-4F

Results < IDL are shown as zero for calculation purposes

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JA50921

Account: HWINJM - Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

QC Batch ID: MP53708
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

5.2.2

5

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JA50921
 Account: HWINJM - Honeywell International Inc.
 Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

QC Batch ID: MP53708
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 07/14/10

Metal	JA50921-2F Original MS	Spikelot MPIRW1	% Rec	QC Limits	
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Boron					
Cadmium					
Calcium					
Chromium	0.60	209	200	104.2	75-125
Cobalt					
Copper					
Iron	anr				
Lead	anr				
Magnesium					
Manganese	anr				
Molybdenum					
Nickel					
Palladium					
Potassium					
Selenium					
Silicon					
Silver					
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Tungsten					
Vanadium					
Zinc					
Zirconium					

Associated samples MP53708: JA50921-1, JA50921-2, JA50921-3, JA50921-4, JA50921-1F, JA50921-2F, JA50921-3F, JA50921-4F

Results < IDL are shown as zero for calculation purposes

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JA50921

Account: HWINJM - Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

QC Batch ID: MP53708
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

- (*) Outside of QC limits
- (N) Matrix Spike Rec. outside of QC limits
- (anr) Analyte not requested

5.2.2
5

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JA50921
 Account: HWINJM - Honeywell International Inc.
 Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

QC Batch ID: MP53708
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 07/14/10

Metal	JA50921-2F		SpikeLot		MSD RPD	QC Limit
	Original	MSD	MPIRwl	% Rec		
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron						
Cadmium						
Calcium						
Chromium	0.60	203	200	101.2	2.9	20
Cobalt						
Copper						
Iron	anr					
Lead	anr					
Magnesium						
Manganese	anr					
Molybdenum						
Nickel						
Palladium						
Potassium						
Selenium						
Silicon						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Tungsten						
Vanadium						
Zinc						
Zirconium						

Associated samples MP53708: JA50921-1, JA50921-2, JA50921-3, JA50921-4, JA50921-1F, JA50921-2F, JA50921-3F, JA50921-4F

Results < IDL are shown as zero for calculation purposes

5.2.2
5

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JA50921

Account: HWINJM - Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

QC Batch ID: MP53708
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

5.2.2

5

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JA50921
 Account: HWINJM - Honeywell International Inc.
 Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

QC Batch ID: MP53708
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 07/14/10

Metal	LCS Result	Spikelot MPLCW3	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium	516	500	103.2	80-120
Cobalt				
Copper				
Iron	anr			
Lead	anr			
Magnesium				
Manganese	anr			
Molybdenum				
Nickel				
Palladium				
Potassium				
Selenium				
Silicon				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium				
Zinc				
Zirconium				

Associated samples MP53708: JA50921-1, JA50921-2, JA50921-3, JA50921-4, JA50921-1F, JA50921-2F, JA50921-3F, JA50921-4F

Results < IDL are shown as zero for calculation purposes

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JA50921

Account: HWINJM - Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

QC Batch ID: MP53708
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

(*) Outside of QC limits
(anr) Analyte not requested

5.2.3

5

SERIAL DILUTION RESULTS SUMMARY

Login Number: JA50921
 Account: HWINJM - Honeywell International Inc.
 Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

QC Batch ID: MP53708
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 07/14/10 07/14/10

Metal	JA50921-2			QC Limits	JA50921-2F			QC Limits
	Original	SDL 1:5	%DIF		Original	SDL 1:5	%DIF	
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Boron								
Cadmium								
Calcium								
Chromium	20.5	21.3	3.9	0-10	0.600	0.00	100.0(a)	0-10
Cobalt								
Copper								
Iron	anr							
Lead	anr							
Magnesium								
Manganese	anr							
Molybdenum								
Nickel								
Palladium								
Potassium								
Selenium								
Silicon								
Silver								
Sodium								
Strontium								
Thallium								
Tin								
Titanium								
Tungsten								
Vanadium								
Zinc								
Zirconium								

Associated samples MP53708: JA50921-1, JA50921-2, JA50921-3, JA50921-4, JA50921-1F, JA50921-2F, JA50921-3F, JA50921-4F

Results < IDL are shown as zero for calculation purposes

SERIAL DILUTION RESULTS SUMMARY

Login Number: JA50921
Account: HWINJM - Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

QC Batch ID: MP53708
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

- (*) Outside of QC limits
- (anr) Analyte not requested
- (a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

5.2.4

5

Instrument Detection Limits

Job Number: JA50921
Account: HWINJM Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

Instrument ID: SSTRACE1	Effective Date: 03/08/10
--------------------------------	---------------------------------

Analyte	IDL ug/l
Aluminum	9.9
Antimony	1
Arsenic	2
Barium	.3
Beryllium	.2
Boron	1.7
Cadmium	.3
Calcium	47.1
Chromium	.3
Cobalt	.4
Copper	.5
Iron	3.8
Lead	1
Magnesium	15.1
Manganese	.2
Molybdenum	.7
Nickel	.9
Palladium	1.5
Potassium	24.4
Selenium	2.2
Silicon	3.7
Silver	.4
Sodium	16.7
Strontium	.3
Thallium	.7
Tin	.5
Titanium	.4
Tungsten	8.7
Vanadium	.3
Zinc	2.5
Zirconium	.5

The above applies to the following instrument runs:
MA24667

5.3
5

Instrument Linear Ranges

Job Number: JA50921
Account: HWINJM Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

Instrument ID: SSTRACE1	Effective Date: 06/21/10
--------------------------------	---------------------------------

Analyte	Linear Range ug/l
Aluminum	1000000
Antimony	50000
Arsenic	10000
Barium	50000
Beryllium	25000
Boron	50000
Cadmium	10000
Calcium	1000000
Chromium	25000
Cobalt	50000
Copper	50000
Iron	500000
Lead	50000
Magnesium	1000000
Manganese	10000
Molybdenum	50000
Nickel	50000
Palladium	50000
Potassium	1000000
Selenium	50000
Silicon	50000
Silver	2000
Sodium	1000000
Strontium	25000
Thallium	50000
Tin	50000
Titanium	50000
Tungsten	50000
Vanadium	50000
Zinc	25000
Zirconium	25000

The above applies to the following instrument runs:
MA24667

5.3
5



Metals Analysis

Raw Data

Sample Name: CCB Acquired: 7/19/2010 16:43:44 Type: QC
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 10 columns (Elem, Units, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and 5 rows of data including Avg, Stddev, and %RSD values.

Table with 2 columns (#1, #2) and 10 columns of values for each element.

Check ? High Limit Low Limit
Elem V_2924 Zn2062 As1890 Tl1908 Pb2203 Se1960 Sb2068 Al3961 Ca3179

Table with 10 columns (Elem, Units, V_2924, Zn2062, As1890, Tl1908, Pb2203, Se1960, Sb2068, Al3961, Ca3179) and 5 rows of data including Avg, Stddev, and %RSD values.

Table with 2 columns (#1, #2) and 10 columns of values for each element.

Check ? High Limit Low Limit
Elem Fe2599 Mg2790 K_7664 Na5895 B_2089 Mo2020 Pd3404 Si2124 Sn1899

Table with 10 columns (Elem, Units, Fe2599, Mg2790, K_7664, Na5895, B_2089, Mo2020, Pd3404, Si2124, Sn1899) and 5 rows of data including Avg, Stddev, and %RSD values.

Table with 2 columns (#1, #2) and 10 columns of values for each element.

Check ? High Limit Low Limit
Elem Fe2599 Mg2790 K_7664 Na5895 B_2089 Mo2020 Pd3404 Si2124 Sn1899

Table with 10 columns (Elem, Units, Fe2599, Mg2790, K_7664, Na5895, B_2089, Mo2020, Pd3404, Si2124, Sn1899) and 5 rows of data including Avg, Stddev, and %RSD values.

Table with 2 columns (#1, #2) and 10 columns of values for each element.

Sample Name: CCB Acquired: 7/19/2010 16:43:44 Type: QC
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 5 columns (Elem, Units, Sr4077, Ti3349, W_2079, Zr3391) and 5 rows of data including Avg, Stddev, and %RSD values.

Table with 2 columns (#1, #2) and 5 columns of values for each element.

Check ? High Limit Low Limit
Elem Sr4077 Ti3349 W_2079 Zr3391

Table with 5 columns (Int. Std. Units, Y_3600, Y_3710, Y_2243, In2306) and 5 rows of data including Avg, Stddev, and %RSD values.

Table with 2 columns (#1, #2) and 5 columns of values for each element.

Check ? High Limit Low Limit
Elem Y_3600 Y_3710 Y_2243 In2306

Table with 5 columns (Int. Std. Units, Y_3600, Y_3710, Y_2243, In2306) and 5 rows of data including Avg, Stddev, and %RSD values.

Table with 2 columns (#1, #2) and 5 columns of values for each element.

Check ? High Limit Low Limit
Elem Y_3600 Y_3710 Y_2243 In2306

Table with 5 columns (Int. Std. Units, Y_3600, Y_3710, Y_2243, In2306) and 5 rows of data including Avg, Stddev, and %RSD values.

Table with 2 columns (#1, #2) and 5 columns of values for each element.

Sample Name: CRIB Acquired: 7/19/2010 16:49:56 Type: QC
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 10 columns (Elem, Units, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and 5 rows of data including Avg, Stddev, and %RSD values.

Table with 2 columns (#1, #2) and 10 columns of values for each element.

Check ? Value Range
Elem Ba4554 Be3130 Cd2288 Co2286 Cr2677 Cu3247 Mn2576 Ni2316 Ag3280

Table with 10 columns (Elem, Units, V_2924, Zn2062, As1890, Tl1908, Pb2203, Se1960, Sb2068, Al3961, Ca3179) and 5 rows of data including Avg, Stddev, and %RSD values.

Table with 2 columns (#1, #2) and 10 columns of values for each element.

Check ? Value Range
Elem Fe2599 Mg2790 K_7664 Na5895 B_2089 Mo2020 Pd3404 Si2124 Sn1899

Table with 10 columns (Elem, Units, Fe2599, Mg2790, K_7664, Na5895, B_2089, Mo2020, Pd3404, Si2124, Sn1899) and 5 rows of data including Avg, Stddev, and %RSD values.

Table with 2 columns (#1, #2) and 10 columns of values for each element.

Check ? Value Range
Elem Fe2599 Mg2790 K_7664 Na5895 B_2089 Mo2020 Pd3404 Si2124 Sn1899

Table with 10 columns (Elem, Units, Fe2599, Mg2790, K_7664, Na5895, B_2089, Mo2020, Pd3404, Si2124, Sn1899) and 5 rows of data including Avg, Stddev, and %RSD values.

Table with 2 columns (#1, #2) and 10 columns of values for each element.

Sample Name: CRIB Acquired: 7/19/2010 16:49:56 Type: QC
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 5 columns (Elem, Units, Sr4077, Ti3349, W_2079, Zr3391) and 5 rows of data including Avg, Stddev, and %RSD values.

Table with 2 columns (#1, #2) and 5 columns of values for each element.

Check ? Value Range
Elem Sr4077 Ti3349 W_2079 Zr3391

Table with 5 columns (Int. Std. Units, Y_3600, Y_3710, Y_2243, In2306) and 5 rows of data including Avg, Stddev, and %RSD values.

Table with 2 columns (#1, #2) and 5 columns of values for each element.

Check ? Value Range
Elem Y_3600 Y_3710 Y_2243 In2306

Table with 5 columns (Int. Std. Units, Y_3600, Y_3710, Y_2243, In2306) and 5 rows of data including Avg, Stddev, and %RSD values.

Table with 2 columns (#1, #2) and 5 columns of values for each element.

Check ? Value Range
Elem Y_3600 Y_3710 Y_2243 In2306

Table with 5 columns (Int. Std. Units, Y_3600, Y_3710, Y_2243, In2306) and 5 rows of data including Avg, Stddev, and %RSD values.

Table with 2 columns (#1, #2) and 5 columns of values for each element.

Sample Name: CRID Acquired: 7/19/2010 16:56:02 Type: QC
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 10 columns: Elem, Units, Avg, Stddev, %RSD. Values for Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280.

Table with 10 columns: #1, #2. Values for Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280.

Check ? Value Range Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Table with 10 columns: Elem, Units, Avg, Stddev, %RSD. Values for V_2924, Zn2062, As1890, Tl1908, Pb2203, Se1960, Sb2068, Al3961, Ca3179.

Table with 10 columns: #1, #2. Values for V_2924, Zn2062, As1890, Tl1908, Pb2203, Se1960, Sb2068, Al3961, Ca3179.

Check ? Value Range Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Table with 10 columns: Elem, Units, Avg, Stddev, %RSD. Values for Fe2599, Mg2790, K_7664, Na5895, B_2089, Mo2020, Pd3404, Si2124, Sn1899.

Table with 10 columns: #1, #2. Values for Fe2599, Mg2790, K_7664, Na5895, B_2089, Mo2020, Pd3404, Si2124, Sn1899.

Check ? Value Range None Chk Pass Chk Pass Chk Pass Chk Pass None None None None

Sample Name: CRID Acquired: 7/19/2010 16:56:02 Type: QC
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 5 columns: Elem, Units, Avg, Stddev, %RSD. Values for Sr4077, Ti3349, W_2079, Zr3391.

Table with 5 columns: #1, #2. Values for Sr4077, Ti3349, W_2079, Zr3391.

Check ? Value Range None None Chk Fail Chk Fail 50.00% -50.00%

Table with 4 columns: Int. Std. Units, Avg, Stddev, %RSD. Values for Y_3600, Y_3710, Y_2243, In2306.

Table with 4 columns: #1, #2. Values for Y_3600, Y_3710, Y_2243, In2306.

6.1 6

Sample Name: ICV Acquired: 7/19/2010 17:02:12 Type: QC
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 10 columns: Elem, Units, Avg, Stddev, %RSD. Values for Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280.

Table with 10 columns: #1, #2. Values for Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280.

Check ? Value Range Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Fail Chk Pass Chk Pass 1.000 5.0000%

Table with 10 columns: Elem, Units, Avg, Stddev, %RSD. Values for V_2924, Zn2062, As1890, Tl1908, Pb2203, Se1960, Sb2068, Al3961, Ca3179.

Table with 10 columns: #1, #2. Values for V_2924, Zn2062, As1890, Tl1908, Pb2203, Se1960, Sb2068, Al3961, Ca3179.

Check ? Value Range Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Table with 10 columns: Elem, Units, Avg, Stddev, %RSD. Values for Fe2599, Mg2790, K_7664, Na5895, B_2089, Mo2020, Pd3404, Si2124, Sn1899.

Table with 10 columns: #1, #2. Values for Fe2599, Mg2790, K_7664, Na5895, B_2089, Mo2020, Pd3404, Si2124, Sn1899.

Check ? Value Range Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Sample Name: ICV Acquired: 7/19/2010 17:02:12 Type: QC
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 5 columns: Elem, Units, Avg, Stddev, %RSD. Values for Sr4077, Ti3349, W_2079, Zr3391.

Table with 5 columns: #1, #2. Values for Sr4077, Ti3349, W_2079, Zr3391.

Check ? Value Range Chk Pass Chk Pass Chk Pass Chk Pass

Table with 4 columns: Int. Std. Units, Avg, Stddev, %RSD. Values for Y_3600, Y_3710, Y_2243, In2306.

Table with 4 columns: #1, #2. Values for Y_3600, Y_3710, Y_2243, In2306.

Sample Name: CCB Acquired: 7/19/2010 17:20:21 Type: QC
 Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0003	.0000	.0003	.0005	.0001	.0002	-.0002	.0000
Stddev	.0000	.0000	.0000	.0002	.0001	.0001	.0000	.0001	.0000
%RSD	.7986	1.859	1479.	57.14	15.27	46.05	7.744	67.07	77.75

#1 .0002 .0003 .0001 .0004 .0004 .0001 .0002 .0001 .0001
 #2 .0002 .0003 -.0001 .0002 .0005 .0001 .0002 .0002 .0000

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	-.0001	.0011	.0014	-.0010	.0016	.0002	.0054	.0058
Stddev	.0002	.0000	.0002	.0007	.0011	.0008	.0001	.0038	.0002
%RSD	50.30	10.70	18.53	49.89	106.4	47.61	47.76	71.89	3.068

#1 .0003 .0001 .0010 .0019 .0002 .0022 .0001 .0008 .0059
 #2 .0006 .0001 .0012 .0009 .0017 .0011 .0003 .0026 .0057

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053	.0015	.0153	-.0177	.0027	.0018	-.0003	.0007	.0002
Stddev	.0008	.0084	.0112	.0012	.0006	.0002	.0002	.0001	.0003
%RSD	15.15	554.3	73.09	6.710	22.44	8.888	60.78	16.06	141.0

#1 .0059 .0074 .0232 .0169 .0032 .0019 .0002 .0006 .0004
 #2 .0048 .0044 .0074 .0186 .0023 .0017 .0005 .0008 .0000

Check ? High Limit Low Limit

Sample Name: CCB Acquired: 7/19/2010 17:20:21 Type: QC
 Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	.0002	.0004	.0139	.0007
Stddev	.0000	.0004	.0028	.0001
%RSD	1.352	99.57	19.82	10.07

#1 .0002 .0001 .0159 .0007
 #2 .0003 .0006 .0120 .0008

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	157080.	27820.	2525.6	5429.1
Stddev	68.	46.	4.5	5.4
%RSD	.04343	.16524	.18007	.09985

#1 157130. 27852. 2528.8 5432.9
 #2 157030. 27787. 2522.4 5425.3

Sample Name: ICSA Acquired: 7/19/2010 17:26:34 Type: QC
 Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0037	.0001	.0022	.0006	.0021	.0001	-.0014	-.0041	-.0006
Stddev	.0000	.0000	.0001	.0002	.0001	.0000	.0002	.0000	.0001
%RSD	1.156	4.657	2.780	24.48	6.620	22.00	11.09	.1608	24.93

#1 -.0037 .0001 .0021 .0007 .0022 .0002 .0001 .0015 .0041 .0005
 #2 -.0037 .0001 .0022 .0005 .0020 .0001 .0013 .0041 .0007

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0006	-.0059	.0010	-.0011	.0021	-.0042	.0009	469.7	367.8
Stddev	.0001	.0003	.0012	.0004	.0020	.0025	.0005	3.7	2.0
%RSD	22.06	4.413	118.4	33.46	94.23	58.71	52.56	.7868	.5348

#1 -.0005 .0060 .0002 .0008 .0007 .0025 .0012 472.3 369.2
 #2 -.0007 .0057 .0018 .0013 .0035 .0060 .0006 467.0 366.5

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	187.0	502.6	.0000	.8780	.0007	.0005	-.0506	-.0016	-.0078
Stddev	.6	2.0	.005	.0042	.0002	.0004	.0013	.0000	.0001
%RSD	.3144	.3885	15390.	.4761	25.41	97.51	2.507	1.040	1.359

#1 187.4 504.0 .0037 .8810 .0006 .0008 .0497 .0016 .0077
 #2 186.6 501.2 .0037 .8751 .0008 .0001 .0515 .0016 .0079

Check ? High Limit Low Limit

Sample Name: ICSA Acquired: 7/19/2010 17:26:34 Type: QC
 Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	.0010	.0039	.0435	.0019
Stddev	.0000	.0001	.0011	.0000
%RSD	1.626	2.408	2.621	2.092

#1 .0010 .0038 .0443 .0019
 #2 .0011 .0040 .0427 .0018

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	139440.	26529.	2245.0	4507.6
Stddev	69.	83.	19.5	32.9
%RSD	.04960	.31280	.86652	.72974

#1 139490. 26470. 2231.2 4484.3
 #2 139390. 26587. 2258.7 4530.9

Zoom In
Zoom Out

Sample Name: ICSAB Acquired: 7/19/2010 17:32:53 Type: QC
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4967	.4821	1.034	4.665	4.583	4.659	.4757	.9709	1.024
Stddev	.0014	.0006	.001	.0001	.0003	.0003	.0001	.0014	.000
%RSD	.2771	.1288	.0776	.0176	.0583	.0710	.0268	.1459	.0129
#1	.4958	.4817	1.033	4.665	4.581	4.661	.4757	.9699	1.024
#2	.4977	.4826	1.035	4.664	4.585	4.657	.4758	.9719	1.024

Check ? Value Range Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4522	.9064	1.056	9.780	9.741	1.003	1.034	481.4	368.1
Stddev	.0002	.0019	.001	.0022	.0026	.000	.001	3.9	2.2
%RSD	.0335	.2103	.1013	.2286	.2720	.0399	.1320	.8131	6020
#1	.4521	.9051	1.055	9.764	9.723	1.003	1.033	478.6	369.6
#2	.4523	.9078	1.057	9.796	9.760	1.003	1.035	484.2	366.5

Check ? Value Range Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	183.0	495.1	.0415	9.049	.0099	.5007	.4943	.0076	-.0081
Stddev	.8	1.3	.0097	.0055	.0009	.0006	.0004	.0021	.0008
%RSD	.4359	.2661	23.35	.6037	8.733	.1166	.0883	27.90	9.505
#1	183.5	496.0	.0347	9.088	.0105	.5003	.4940	.0091	-.0076
#2	182.4	494.2	.0484	9.010	.0093	.5011	.4946	.0061	-.0087

Check ? Value Range Chk Pass Chk Pass None None None Chk Pass Chk Pass None None

Zoom In
Zoom Out

Sample Name: ICSAB Acquired: 7/19/2010 17:32:53 Type: QC
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	.0021	.0042	.4988	4837
Stddev	.0001	.0004	.0064	0006
%RSD	2.911	8.828	1.283	1.253
#1	.0022	.0040	.4943	4833
#2	.0021	.0045	.5033	4841

Check ? Value Range None None Chk Pass Chk Pass

Int. Std. Units	Y_3600 Cts/S	Y_3710 Cts/S	Y_2243 Cts/S	In2306 Cts/S
Avg	13990.0	26545.7	2238.7	4471.2
Stddev	46.41	9.9	2.3	2.3
%RSD	.03276	.15454	.03884	.05087
#1	13993.0	26516.6	2238.1	4472.8
#2	13987.0	26574.4	2239.3	4469.6

Zoom In
Zoom Out

Sample Name: CCV Acquired: 7/19/2010 17:40:17 Type: QC
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.003	2.058	1.999	2.018	2.011	1.980	2.055	1.999	2.464
Stddev	.002	.004	.002	.003	.007	.002	.008	.004	.0004
%RSD	.0816	.1800	.0955	.1420	.3651	.0744	.4071	.2275	.1724
#1	2.004	2.061	1.998	2.016	2.006	1.981	2.049	1.995	2.467
#2	2.002	2.056	2.000	2.020	2.016	1.979	2.060	2.002	2.461

Check ? Value Range Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.988	2.029	1.998	2.017	1.990	1.997	1.984	39.39	40.15
Stddev	.007	.005	.003	.004	.006	.000	.000	.09	.07
%RSD	.3793	.2608	.1297	.1732	.3041	.0068	.0177	.2356	.1732
#1	1.983	2.025	1.996	2.014	1.985	1.997	1.983	39.45	40.20
#2	1.994	2.033	1.999	2.019	1.994	1.998	1.984	39.32	40.10

Check ? Value Range Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.21	39.42	39.06	39.47	2.002	2.008	1.978	4.960	2.035
Stddev	.09	.17	.13	.05	.002	.001	.002	.003	.002
%RSD	.2338	.4236	.3332	.1361	.1138	.0707	.1074	.0523	.1164
#1	40.28	39.54	39.16	39.50	2.001	2.007	1.979	4.958	2.033
#2	40.14	39.30	38.97	39.43	2.004	2.009	1.976	4.962	2.037

Check ? Value Range Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Zoom In
Zoom Out

Sample Name: CCV Acquired: 7/19/2010 17:40:17 Type: QC
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	2.050	2.005	1.956	1.973
Stddev	.007	.000	.009	.001
%RSD	.3393	.0001	.4842	.0336
#1	2.055	2.005	1.949	1.972
#2	2.045	2.005	1.962	1.973

Check ? Value Range Chk Pass Chk Pass Chk Pass Chk Pass

Int. Std. Units	Y_3600 Cts/S	Y_3710 Cts/S	Y_2243 Cts/S	In2306 Cts/S
Avg	15249.0	27455.7	2463.6	5105.2
Stddev	318.63	63.10	2.0	2.0
%RSD	.20867	.23056	.03988	.04011
#1	15271.0	27410.6	2464.2	5106.7
#2	15226.0	27499.4	2462.9	5103.8

Sample Name: CCB Acquired: 7/19/2010 17:46:16 Type: QC
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 10 columns: Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280. Rows include Units, Avg, Stddev, %RSD, #1, #2.

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Table with 10 columns: Elem, V_2924, Zn2062, As1890, Ti1908, Pb2203, Se1960, Sb2068, Al3961, Ca3179. Rows include Units, Avg, Stddev, %RSD, #1, #2.

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Table with 10 columns: Elem, Fe2599, Mg2790, K_7664, Na5895, B_2089, Mo2020, Pd3404, Si2124, Sn1899. Rows include Units, Avg, Stddev, %RSD, #1, #2.

Check ? High Limit Low Limit
Chk Fail .0114
-.0114

Sample Name: CCB Acquired: 7/19/2010 17:46:16 Type: QC
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 5 columns: Elem, Sr4077, Ti3349, W_2079, Zr3391. Rows include Units, Avg, Stddev, %RSD, #1, #2.

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass

Table with 5 columns: Int. Std. Units, Y_3600, Y_3710, Y_2243, In2306. Rows include Cts/S, Avg, Stddev, %RSD, #1, #2.

#1 157120. 27937. 2542.1 5438.4
#2 157100. 27732. 2529.6 5421.7

Sample Name: MP53768-MB1 2 Acquired: 7/19/2010 17:52:28 Type: Unk
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 10 columns: Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280. Rows include Avg, Stddev, %RSD, #1, #2.

Table with 10 columns: Elem, V_2924, Zn2062, As1890, Ti1908, Pb2203, Se1960, Sb2068, Al3961, Ca3179. Rows include Avg, Stddev, %RSD, #1, #2.

Table with 10 columns: Elem, Fe2599, Mg2790, K_7664, Na5895, B_2089, Mo2020, Pd3404, Si2124, Sn1899. Rows include Avg, Stddev, %RSD, #1, #2.

Table with 10 columns: Elem, Sr4077, Ti3349, W_2079, Zr3391. Rows include Avg, Stddev, %RSD, #1, #2.

Table with 4 columns: Int. Std. Avg, Stddev, %RSD, #1, #2.

#1 159050. 28454. 2562.4 5524.4
#2 158910. 28439. 2568.1 5536.2

Sample Name: MP53768-B1 Acquired: 7/19/2010 17:58:40 Type: Unk
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 11 columns: Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280. Rows include Avg, Stddev, %RSD, #1, #2.

Table with 11 columns: Elem, V_2924, Zn2062, As1890, Ti1908, Pb2203, Se1960, Sb2068, Al3961, Ca3179. Rows include Avg, Stddev, %RSD, #1, #2.

Table with 11 columns: Elem, Fe2599, Mg2790, K_7664, Na5895, B_2089, Mo2020, Pd3404, Si2124, Sn1899. Rows include Avg, Stddev, %RSD, #1, #2.

Table with 5 columns: Elem, Sr4077, Ti3349, W_2079, Zr3391. Rows include Avg, Stddev, %RSD, #1, #2.

Table with 4 columns: Int. Std. Avg, Stddev, %RSD, #1, #2.

#1 156200. 27935. 2481.0 5245.4
#2 156060. 27994. 2487.7 5246.2

Sample Name: JA51512-2 Acquired: 7/19/2010 18:29:27 Type: Unk
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 10 columns (Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and multiple rows for Avg, Stddev, %RSD, and element-specific data (#1, #2).

Sample Name: JA51512-3 Acquired: 7/19/2010 18:35:35 Type: Unk
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 10 columns (Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and multiple rows for Avg, Stddev, %RSD, and element-specific data (#1, #2).

Sample Name: JA51512-4 Acquired: 7/19/2010 18:41:48 Type: Unk
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 10 columns (Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and multiple rows for Avg, Stddev, %RSD, and element-specific data (#1, #2).

Sample Name: JA51512-5 Acquired: 7/19/2010 18:48:02 Type: Unk
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 10 columns (Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and multiple rows for Avg, Stddev, %RSD, and element-specific data (#1, #2).

Sample Name: CCV Acquired: 7/19/2010 18:54:21 Type: QC
 Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.001	2.058	1.999	2.017	2.015	1.980	2.056	1.997	2.459
Stddev	.001	.005	.001	.000	.011	.005	.007	.002	.0002
%RSD	.0393	.2303	.0289	.0080	.5482	.2473	.3193	.0800	.0802
#1	2.002	2.061	2.000	2.017	2.022	1.977	2.061	1.996	2.460
#2	2.000	2.055	1.999	2.017	2.007	1.984	2.052	1.998	2.457

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.990	2.031	1.992	2.018	1.989	1.990	1.982	39.37	40.26
Stddev	.002	.001	.001	.004	.004	.002	.001	.02	.10
%RSD	.1029	.0629	.0508	.1714	.1852	.0938	.0657	.0470	.2467
#1	1.991	2.030	1.992	2.015	1.987	1.989	1.982	39.38	40.33
#2	1.989	2.032	1.991	2.020	1.992	1.992	1.983	39.35	40.19

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.24	39.60	39.06	39.43	2.001	2.005	1.978	4.976	2.030
Stddev	.09	.14	.06	.03	.001	.001	.002	.001	.003
%RSD	.2225	.3409	.1590	.0657	.0378	.0225	.1157	.0183	.1498
#1	40.30	39.69	39.11	39.41	2.002	2.005	1.976	4.977	2.028
#2	40.17	39.50	39.02	39.45	2.001	2.005	1.979	4.975	2.033

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range

Sample Name: CCV Acquired: 7/19/2010 18:54:21 Type: QC
 Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	2.053	2.006	1.953	1.963
Stddev	.001	.005	.005	.003
%RSD	.0622	.2443	.2811	.1510
#1	2.052	2.010	1.950	1.961
#2	2.054	2.003	1.957	1.965

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	152200.	27276.	2460.9	5098.9
Stddev	70.	96.	1.6	.8
%RSD	.04568	.35063	.06485	.01590
#1	152150.	27209.	2459.8	5099.5
#2	152250.	27344.	2462.0	5098.3

Sample Name: CCB Acquired: 7/19/2010 19:00:19 Type: QC
 Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0001	.0001	.0001	.0005	.0003	.0003	.0000	-.0002
Stddev	.0002	.0001	.0000	.0003	.0001	.0002	.0001	.000	.0001
%RSD	139.2	67.41	41.86	238.2	10.33	77.23	21.78	454.9	81.31
#1	.0000	.0000	.0001	.0004	.0005	.0005	.0003	.0000	-.0002
#2	.0002	.0001	.0001	-.0001	.0006	.0001	.0002	-.0001	-.0001

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0001	.0014	.0007	-.0005	.0020	.0003	.0026	.0034
Stddev	.0003	.0001	.0004	.0003	.0002	.0010	.0001	.0028	.0022
%RSD	116.4	132.1	26.69	50.03	46.69	50.88	35.61	105.9	66.97
#1	.0005	.0001	.0011	.0009	-.0003	.0013	.0002	.0007	.0018
#2	.0001	.0000	.0016	.0004	-.0007	.0027	.0004	.0046	.0049

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0035	-.0013	-.0014	-.0420	.0017	.0020	.0008	.0016	.0000
Stddev	.0015	.0110	.0018	.0036	.0006	.0004	.0008	.0004	.000
%RSD	43.44	825.2	125.8	8.538	35.71	20.19	104.1	22.08	49.09
#1	.0024	.0064	-.0026	-.0446	.0021	.0023	.0014	.0019	.0000
#2	.0045	-.0091	-.0002	-.0395	.0013	.0017	.0002	.0014	.0000

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Sample Name: CCB Acquired: 7/19/2010 19:00:19 Type: QC
 Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	.0001	.0005	.0093	.0007
Stddev	.0001	.0002	.0016	.0000
%RSD	93.81	32.63	17.03	5.408
#1	.0000	.0004	.0104	.0008
#2	.0001	.0006	.0082	.0007

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	156930.	27700.	2548.4	5444.6
Stddev	72.	205.	2.1	1.2
%RSD	.04608	.73977	.08070	.02202
#1	156980.	27555.	2547.0	5445.5
#2	156880.	27845.	2549.9	5443.8

Sample Name: JA51512-6 Acquired: 7/19/2010 19:06:33 Type: Unk

Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with columns: Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280. Rows include Avg, Stddev, %RSD for each element, followed by duplicate rows for #1 and #2. Elements include V_2924, Zn2062, As1890, Ti1908, Pb2203, Se1960, Sb2068, Al3961, Ca3179, Fe2599, Mg2790, K_7664, Na5895, B_2089, Mo2020, Pd3404, Si2124, Sn1899, Sr4077, Ti3349, W_2079, Zr3391, and Int. Std. Y_3600, Y_3710, Y_2243, In2306.

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Sample Name: JA51512-7 Acquired: 7/19/2010 19:12:57 Type: Unk

Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with columns: Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280. Rows include Avg, Stddev, %RSD for each element, followed by duplicate rows for #1 and #2. Elements include V_2924, Zn2062, As1890, Ti1908, Pb2203, Se1960, Sb2068, Al3961, Ca3179, Fe2599, Mg2790, K_7664, Na5895, B_2089, Mo2020, Pd3404, Si2124, Sn1899, Sr4077, Ti3349, W_2079, Zr3391, and Int. Std. Y_3600, Y_3710, Y_2243, In2306.

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Sample Name: JA51512-8 Acquired: 7/19/2010 19:19:30 Type: Unk

Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with columns: Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280. Rows include Avg, Stddev, %RSD for each element, followed by duplicate rows for #1 and #2. Elements include V_2924, Zn2062, As1890, Ti1908, Pb2203, Se1960, Sb2068, Al3961, Ca3179, Fe2599, Mg2790, K_7664, Na5895, B_2089, Mo2020, Pd3404, Si2124, Sn1899, Sr4077, Ti3349, W_2079, Zr3391, and Int. Std. Y_3600, Y_3710, Y_2243, In2306.

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Sample Name: JA51512-9 Acquired: 7/19/2010 19:25:41 Type: Unk

Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with columns: Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280. Rows include Avg, Stddev, %RSD for each element, followed by duplicate rows for #1 and #2. Elements include V_2924, Zn2062, As1890, Ti1908, Pb2203, Se1960, Sb2068, Al3961, Ca3179, Fe2599, Mg2790, K_7664, Na5895, B_2089, Mo2020, Pd3404, Si2124, Sn1899, Sr4077, Ti3349, W_2079, Zr3391, and Int. Std. Y_3600, Y_3710, Y_2243, In2306.

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Sample Name: JA51512-10 Acquired: 7/19/2010 19:31:46 Type: Unk
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with columns: Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280. Rows include Avg, Stddev, %RSD and duplicate entries for elements.

Sample Name: JA51512-11 Acquired: 7/19/2010 19:37:51 Type: Unk
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with columns: Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280. Rows include Avg, Stddev, %RSD and duplicate entries for elements.

Sample Name: JA51512-12 Acquired: 7/19/2010 19:44:00 Type: Unk
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with columns: Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280. Rows include Avg, Stddev, %RSD and duplicate entries for elements.

Sample Name: JA51512-13 Acquired: 7/19/2010 19:50:12 Type: Unk
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with columns: Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280. Rows include Avg, Stddev, %RSD and duplicate entries for elements.

Sample Name: JA51512-14 Acquired: 7/19/2010 19:56:22 Type: Unk
 Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	1.540	.0259	.0081	.0967	.5033	1.742	2.405	.6121	.0020
Stddev	.003	.0001	.0000	.0002	.0013	.002	.003	.0003	.0001
%RSD	.2153	.3435	.5364	.1943	.2501	.0952	.1309	.0554	3.312
#1	1.542	.0259	.0081	.0966	.5041	1.741	2.407	.6123	.0020
#2	1.538	.0258	.0081	.0969	.5024	1.744	2.403	.6118	.0019

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.1581	7.950	.0459	.0022	3.333	.0029	.0382	59.11	24.61
Stddev	.0002	.005	.0003	.0013	.004	.0016	.0003	.05	.07
%RSD	.1175	.0690	.7315	58.09	.1252	55.28	.8012	.0850	.3033
#1	.1582	7.954	.0461	.0031	3.336	.0018	.0384	59.15	24.66
#2	.1580	7.946	.0457	.0013	3.330	.0040	.0380	59.08	24.55

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	155.6	12.94	6.755	1.776	.1515	.0401	-.0438	3.295	.3968
Stddev	.2	.07	.002	.008	.0010	.0005	.0002	.002	.0008
%RSD	.1311	.5623	.0290	.4421	.6422	1.343	.3665	.0704	.1949
#1	155.4	12.99	6.756	1.782	.1508	.0398	-.0437	3.297	.3963
#2	155.7	12.89	6.753	1.771	.1522	.0405	-.0439	3.293	.3973

Elem	Sr4077	Tl3349	W_2079	Zr3391
Avg	.1941	1.934	.0957	.0713
Stddev	.0000	.001	.0005	.0001
%RSD	.0046	.0340	.4953	.0893
#1	.1941	1.933	.0961	.0713
#2	.1941	1.934	.0954	.0712

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	158860.	28633.	2560.8	5262.4
Stddev	126.	65.	5.1	3.3
%RSD	.07960	.22682	.19962	.06224
#1	158770.	28587.	2564.5	5264.7
#2	158950.	28679.	2557.2	5260.0

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Sample Name: JA51512-15 Acquired: 7/19/2010 20:02:29 Type: Unk
 Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	9.223	.0024	.0126	.0371	.1451	.3398	1.715	.1163	.0021
Stddev	.058	.0000	.0001	.0000	.0004	.0005	.000	.0002	.0000
%RSD	.6247	.4485	.8487	.0997	.2644	.1365	.0236	.1801	2.062
#1	9.264	.0024	.0125	.0371	.1454	.3395	1.716	.1162	.0020
#2	9.182	.0024	.0126	.0371	.1448	.3402	1.715	.1165	.0021

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.1828	8.159	.0775	.0028	10.75	.0059	.0052	53.08	269.2
Stddev	.0002	.019	.0004	.0002	.00	.0003	.0001	.03	1.3
%RSD	.0930	.2296	.5014	6.631	.0092	4.743	2.350	.0489	.5011
#1	.1829	8.172	.0778	.0029	10.75	.0061	.0051	53.06	268.3
#2	.1827	8.146	.0772	.0026	10.75	.0057	.0053	53.10	270.2

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	97.35	20.47	7.666	1.489	.0501	-.0040	-.0326	1.973	.0602
Stddev	.18	.08	.028	.004	.0006	.0004	.0002	.002	.0000
%RSD	.1822	.3729	.3687	.2499	1.170	9.763	.5406	.0842	.0278
#1	97.23	20.42	7.646	1.487	.0497	-.0043	-.0325	1.974	.0602
#2	97.48	20.52	7.686	1.492	.0505	-.0038	-.0328	1.972	.0602

Elem	Sr4077	Tl3349	W_2079	Zr3391
Avg	.8600	1.631	.0975	.0341
Stddev	.0006	.001	.0002	.0001
%RSD	.0716	.0291	.1569	.2880
#1	.8596	1.632	.0974	.0341
#2	.8605	1.631	.0976	.0342

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	153600.	27998.	2454.0	4982.9
Stddev	79.	12.	3.8	8.6
%RSD	.05153	.04363	.15507	.17173
#1	153650.	28006.	2456.7	4988.9
#2	153540.	27989.	2451.3	4976.8

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6.1 6

Sample Name: CCV Acquired: 7/19/2010 20:08:46 Type: QC
 Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ba4554 ppm	Be3130 ppm	Cd2288 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Mn2576 ppm	Ni2316 ppm	Ag3280 ppm
Avg	1.994	2.059	1.992	2.010	2.021	1.981	2.066	2.013	2.467
Stddev	.001	.002	.000	.002	.004	.000	.003	.002	.0006
%RSD	.0250	.0854	.0111	.0749	.1756	.0044	.1241	.0854	.2520
#1	1.994	2.061	1.992	2.009	2.024	1.981	2.068	2.012	2.462
#2	1.994	2.058	1.992	2.011	2.019	1.981	2.064	2.014	2.471

Check ? Value Range
 Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Elem Units	V_2924 ppm	Zn2062 ppm	As1890 ppm	Tl1908 ppm	Pb2203 ppm	Se1960 ppm	Sb2068 ppm	Al3961 ppm	Ca3179 ppm
Avg	1.998	2.029	1.980	2.038	1.999	1.980	1.980	39.39	40.19
Stddev	.001	.001	.002	.002	.001	.004	.002	.00	.12
%RSD	.0437	.0277	.0843	.1167	.0673	.1854	.0906	.0061	.2945
#1	1.999	2.029	1.978	2.036	1.998	1.977	1.981	39.39	40.27
#2	1.998	2.029	1.981	2.040	2.000	1.982	1.979	39.39	40.11

Check ? Value Range
 Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Elem Units	Fe2599 ppm	Mg2790 ppm	K_7664 ppm	Na5895 ppm	B_2089 ppm	Mo2020 ppm	Pd3404 ppm	Si2124 ppm	Sn1899 ppm
Avg	40.23	39.78	39.09	39.55	2.001	2.004	1.991	4.975	2.024
Stddev	.06	.09	.02	.03	.002	.004	.005	.005	.002
%RSD	.1556	.2243	.0455	.0743	.1221	.1959	.2458	.1044	.1077
#1	40.28	39.84	39.08	39.57	1.999	2.001	1.987	4.971	2.025
#2	40.19	39.72	39.11	39.53	2.002	2.007	1.994	4.979	2.022

Check ? Value Range
 Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

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Sample Name: CCV Acquired: 7/19/2010 20:08:46 Type: QC
 Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Sr4077 ppm	Tl3349 ppm	W_2079 ppm	Zr3391 ppm
Avg	2.063	2.014	1.948	1.964
Stddev	.004	.001	.009	.001
%RSD	.1840	.0639	.4615	.0595
#1	2.061	2.014	1.942	1.965
#2	2.066	2.013	1.954	1.964

Check ? Value Range
 Chk Pass Chk Pass Chk Pass Chk Pass

Int. Std.	Y_3600 Cts/S	Y_3710 Cts/S	Y_2243 Cts/S	In2306 Cts/S
Avg	152820.	27295.	2484.9	5119.9
Stddev	238.	80.	2.0	4.1
%RSD	.15578	.29365	.08116	.07981
#1	152650.	27238.	2486.3	5122.8
#2	152980.	27352.	2483.5	5117.0

Check ? Value Range
 Chk Pass Chk Pass Chk Pass Chk Pass

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Sample Name: CCV Acquired: 7/19/2010 21:23:33 Type: QC
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.994	2.066	1.993	2.009	2.034	1.978	2.075	2.024	2.475
Stddev	.001	.003	.002	.000	.003	.000	.002	.002	.0001
%RSD	.0683	.1201	.0770	.0152	.1488	.0109	.0815	.0751	.0408
#1	1.993	2.065	1.992	2.009	2.036	1.978	2.076	2.023	2.476
#2	1.995	2.068	1.994	2.009	2.032	1.979	2.074	2.025	2.474

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.007	2.040	1.976	2.048	2.010	1.973	1.974	39.45	40.52
Stddev	.003	.002	.005	.004	.002	.004	.004	.03	.14
%RSD	.1628	.0853	.2575	.2070	.1120	.2243	.1884	.0878	.3535
#1	2.010	2.041	1.973	2.045	2.012	1.970	1.971	39.43	40.42
#2	2.005	2.039	1.980	2.051	2.009	1.976	1.976	39.48	40.62

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.37	40.09	38.91	39.14	2.000	2.000	1.990	4.965	2.030
Stddev	.07	.07	.05	.00	.005	.004	.002	.007	.001
%RSD	.1739	.1739	.1205	.0107	.2388	.2096	.1004	.1389	.0381
#1	40.32	40.04	38.94	39.14	1.996	1.997	1.989	4.960	2.029
#2	40.42	40.14	38.88	39.14	2.003	2.003	1.992	4.970	2.030

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

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Sample Name: CCV Acquired: 7/19/2010 21:23:33 Type: QC
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Tl3349	W_2079	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	2.056	2.022	1.946	1.967
Stddev	.004	.002	.009	.001
%RSD	.2128	.0735	.4695	.0257
#1	2.059	2.023	1.940	1.967
#2	2.053	2.021	1.953	1.968

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	153520.	27148.	2508.7	5146.2
Stddev	414.	145.	5.6	9.5
%RSD	.26981	.53306	.22332	.18453
#1	153230.	27250.	2512.7	5152.9
#2	153820.	27045.	2504.7	5139.5

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Sample Name: CCB Acquired: 7/19/2010 21:29:31 Type: QC
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0005	.0003	.0003	.0006	.0005	.0006	.0002	.0000
Stddev	.0001	.0001	.0002	.0004	.0000	.0000	.0001	.0001	.000
%RSD	10.29	11.73	81.33	158.0	2.126	4.867	12.63	40.18	231.8
#1	.0005	.0004	.0004	.0006	.0006	.0006	.0006	.0001	.0000
#2	.0006	.0005	.0001	.0000	.0007	.0005	.0007	.0002	.0000

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	.0003	.0011	.0010	-.0002	.0032	.0013	.0086	.0137
Stddev	.0002	.0002	.0002	.0002	.0007	.0001	.0006	.0039	.0016
%RSD	35.62	90.47	18.17	24.63	324.8	2.734	44.55	44.88	11.36
#1	.0007	.0004	.0012	.0012	-.0003	.0032	.0009	.0059	.0126
#2	.0004	.0001	.0009	.0008	-.0007	.0031	.0017	.0114	.0148

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0101	.0172	.0634	.3888	.0022	F .0022	.0003	.0019	.0006
Stddev	.0005	.0107	.0002	.0045	.0002	.0003	.0012	.0002	.0000
%RSD	5.330	62.18	.3538	1.150	6.879	15.65	444.5	12.18	.0225
#1	.0097	.0247	.0633	.3919	.0023	.0024	-.0006	.0021	.0006
#2	.0105	.0096	.0636	.3856	.0021	.0019	.0011	.0017	.0006

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Fail Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

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Sample Name: CCB Acquired: 7/19/2010 21:29:31 Type: QC
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Tl3349	W_2079	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	.0005	.0008	.0085	.0010
Stddev	.0000	.0001	.0016	.0000
%RSD	9.025	15.00	19.23	1.935
#1	.0005	.0007	.0097	.0010
#2	.0006	.0009	.0074	.0010

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	158230.	27577.	2582.7	5481.4
Stddev	189.	109.	4.9	4.3
%RSD	.11931	.39528	.19144	.07771
#1	158360.	27500.	2586.1	5484.4
#2	158100.	27654.	2579.2	5478.3

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Table with 10 columns (Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and 10 rows of data including Avg, Stddev, %RSD, and Int. Std. for sample JA50357-3R.

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Table with 10 columns (Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and 10 rows of data including Avg, Stddev, %RSD, and Int. Std. for sample JA50744-1.

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Table with 10 columns (Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and 10 rows of data including Avg, Stddev, %RSD, and Int. Std. for sample JA50776-2.

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Table with 10 columns (Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and 10 rows of data including Avg, Stddev, %RSD, and Int. Std. for sample JA50837-13.

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Sample Name: CCB Acquired: 7/19/2010 22:43:29 Type: QC
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 10 columns (Elem, Units, Avg, Stdev, %RSD) and 10 rows of data for various elements like Ba4554, Be3130, Cd2288, etc.

Check ? High Limit Low Limit Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Table with 10 columns (Elem, Units, Avg, Stdev, %RSD) and 10 rows of data for various elements like V_2924, Zn2062, As1890, etc.

Check ? High Limit Low Limit Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Table with 10 columns (Elem, Units, Avg, Stdev, %RSD) and 10 rows of data for various elements like Fe2599, Mg2790, K_7664, etc.

Check ? High Limit Low Limit Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Sample Name: CCB Acquired: 7/19/2010 22:43:29 Type: QC
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 5 columns (Elem, Units, Avg, Stdev, %RSD) and 5 rows of data for various elements like Sr4077, Ti3349, W_2079, etc.

Check ? High Limit Low Limit Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Table with 5 columns (Int. Std. Units, Avg, Stdev, %RSD) and 5 rows of data for various elements like Y_3600, Y_3710, Y_2243, etc.

Check ? High Limit Low Limit Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Table with 5 columns (Elem, Units, Avg, Stdev, %RSD) and 5 rows of data for various elements like Fe2599, Mg2790, K_7664, etc.

Check ? High Limit Low Limit Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Sample Name: JA51165-3 Acquired: 7/19/2010 22:49:39 Type: Unk
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 10 columns (Elem, Units, Avg, Stdev, %RSD) and 10 rows of data for various elements like Ba4554, Be3130, Cd2288, etc.

Table with 10 columns (Elem, Units, Avg, Stdev, %RSD) and 10 rows of data for various elements like V_2924, Zn2062, As1890, etc.

Table with 10 columns (Elem, Units, Avg, Stdev, %RSD) and 10 rows of data for various elements like Fe2599, Mg2790, K_7664, etc.

Table with 10 columns (Elem, Units, Avg, Stdev, %RSD) and 10 rows of data for various elements like Sr4077, Ti3349, W_2079, etc.

Table with 5 columns (Int. Std. Units, Avg, Stdev, %RSD) and 5 rows of data for various elements like Y_3600, Y_3710, Y_2243, etc.

Sample Name: JA51165-4 Acquired: 7/19/2010 22:55:44 Type: Unk
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 10 columns (Elem, Units, Avg, Stdev, %RSD) and 10 rows of data for various elements like Ba4554, Be3130, Cd2288, etc.

Table with 10 columns (Elem, Units, Avg, Stdev, %RSD) and 10 rows of data for various elements like V_2924, Zn2062, As1890, etc.

Table with 10 columns (Elem, Units, Avg, Stdev, %RSD) and 10 rows of data for various elements like Fe2599, Mg2790, K_7664, etc.

Table with 10 columns (Elem, Units, Avg, Stdev, %RSD) and 10 rows of data for various elements like Sr4077, Ti3349, W_2079, etc.

Table with 5 columns (Int. Std. Units, Avg, Stdev, %RSD) and 5 rows of data for various elements like Y_3600, Y_3710, Y_2243, etc.

Sample Name: JA51165-5 Acquired: 7/19/2010 23:01:49 Type: Unk
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 10 columns: Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280. Rows include Avg, Stddev, %RSD for elements and Int. Std. for Y_3600, Y_3710, Y_2243, In2306.

Sample Name: JA51165-6 Acquired: 7/19/2010 23:07:56 Type: Unk
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 10 columns: Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280. Rows include Avg, Stddev, %RSD for elements and Int. Std. for Y_3600, Y_3710, Y_2243, In2306.

Sample Name: JA51165-7 Acquired: 7/19/2010 23:14:01 Type: Unk
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 10 columns: Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280. Rows include Avg, Stddev, %RSD for elements and Int. Std. for Y_3600, Y_3710, Y_2243, In2306.

Sample Name: JA51165-8 Acquired: 7/19/2010 23:20:06 Type: Unk
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 10 columns: Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280. Rows include Avg, Stddev, %RSD for elements and Int. Std. for Y_3600, Y_3710, Y_2243, In2306.

Sample Name: JA51165-9 Acquired: 7/19/2010 23:26:17 Type: Unk
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 10 columns (Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and 3 rows (Avg, Stddev, %RSD) for each element.

Sample Name: JA51165-10 Acquired: 7/19/2010 23:32:32 Type: Unk
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 10 columns (Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and 3 rows (Avg, Stddev, %RSD) for each element.

6.1
6

Sample Name: JA51165-11 Acquired: 7/19/2010 23:38:40 Type: Unk
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 10 columns (Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and 3 rows (Avg, Stddev, %RSD) for each element.

Sample Name: CCV Acquired: 7/19/2010 23:44:51 Type: QC
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 10 columns (Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and 3 rows (Avg, Stddev, %RSD) for each element.

Sample Name: MP53708-SD1 Acquired: 7/20/2010 0:27:25 Type: Unk
Method: Accutest1(v172) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 10 columns (Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and 4 rows (Avg, Stddev, %RSD, #1, #2).

Table with 10 columns (Elem, V_2924, Zn2062, As1890, Ti1908, Pb2203, Se1960, Sb2068, Al3961, Ca3179) and 4 rows (Avg, Stddev, %RSD, #1, #2).

Table with 10 columns (Elem, Fe2599, Mg2790, K_7664, Na5895, B_2089, Mo2020, Pd3404, Si2124, Sn1899) and 4 rows (Avg, Stddev, %RSD, #1, #2).

Table with 10 columns (Elem, Sr4077, Ti3349, W_2079, Zr3391) and 4 rows (Avg, Stddev, %RSD, #1, #2).

Table with 4 columns (Int. Std, Y_3600, Y_3710, Y_2243, In2306) and 4 rows (Avg, Stddev, %RSD, #1, #2).

Table with 4 columns (Int. Std, Y_3600, Y_3710, Y_2243, In2306) and 4 rows (Avg, Stddev, %RSD, #1, #2).

Sample Name: MP53708-S3 Acquired: 7/20/2010 0:33:32 Type: Unk
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 10 columns (Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and 4 rows (Avg, Stddev, %RSD, #1, #2).

Table with 10 columns (Elem, V_2924, Zn2062, As1890, Ti1908, Pb2203, Se1960, Sb2068, Al3961, Ca3179) and 4 rows (Avg, Stddev, %RSD, #1, #2).

Table with 10 columns (Elem, Fe2599, Mg2790, K_7664, Na5895, B_2089, Mo2020, Pd3404, Si2124, Sn1899) and 4 rows (Avg, Stddev, %RSD, #1, #2).

Table with 10 columns (Elem, Sr4077, Ti3349, W_2079, Zr3391) and 4 rows (Avg, Stddev, %RSD, #1, #2).

Table with 4 columns (Int. Std, Y_3600, Y_3710, Y_2243, In2306) and 4 rows (Avg, Stddev, %RSD, #1, #2).

Table with 4 columns (Int. Std, Y_3600, Y_3710, Y_2243, In2306) and 4 rows (Avg, Stddev, %RSD, #1, #2).

Sample Name: MP53708-S4 Acquired: 7/20/2010 0:39:34 Type: Unk
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 10 columns (Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and 4 rows (Avg, Stddev, %RSD, #1, #2).

Table with 10 columns (Elem, V_2924, Zn2062, As1890, Ti1908, Pb2203, Se1960, Sb2068, Al3961, Ca3179) and 4 rows (Avg, Stddev, %RSD, #1, #2).

Table with 10 columns (Elem, Fe2599, Mg2790, K_7664, Na5895, B_2089, Mo2020, Pd3404, Si2124, Sn1899) and 4 rows (Avg, Stddev, %RSD, #1, #2).

Table with 10 columns (Elem, Sr4077, Ti3349, W_2079, Zr3391) and 4 rows (Avg, Stddev, %RSD, #1, #2).

Table with 4 columns (Int. Std, Y_3600, Y_3710, Y_2243, In2306) and 4 rows (Avg, Stddev, %RSD, #1, #2).

Table with 4 columns (Int. Std, Y_3600, Y_3710, Y_2243, In2306) and 4 rows (Avg, Stddev, %RSD, #1, #2).

Sample Name: JA50921-2F Acquired: 7/20/2010 0:45:37 Type: Unk
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 10 columns (Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and 4 rows (Avg, Stddev, %RSD, #1, #2).

Table with 10 columns (Elem, V_2924, Zn2062, As1890, Ti1908, Pb2203, Se1960, Sb2068, Al3961, Ca3179) and 4 rows (Avg, Stddev, %RSD, #1, #2).

Table with 10 columns (Elem, Fe2599, Mg2790, K_7664, Na5895, B_2089, Mo2020, Pd3404, Si2124, Sn1899) and 4 rows (Avg, Stddev, %RSD, #1, #2).

Table with 10 columns (Elem, Sr4077, Ti3349, W_2079, Zr3391) and 4 rows (Avg, Stddev, %RSD, #1, #2).

Table with 4 columns (Int. Std, Y_3600, Y_3710, Y_2243, In2306) and 4 rows (Avg, Stddev, %RSD, #1, #2).

Table with 4 columns (Int. Std, Y_3600, Y_3710, Y_2243, In2306) and 4 rows (Avg, Stddev, %RSD, #1, #2).

Sample Name: CCB Acquired: 7/20/2010 1:03:56 Type: QC
 Method: Accutes1(v172) Mode: CONC Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	.0004	.0005	.0027	.0007
Stddev	.0000	.0000	.0004	.0000
%RSD	6.496	7.913	15.18	2.167
#1	.0004	.0005	.0029	.0007
#2	.0004	.0005	.0024	.0007

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	158050	27814	2577.3	5467.8
Stddev	4.	127.	2.2	6.9
%RSD	.00241	.45599	.08613	.12612
#1	158050	27724	2578.8	5472.7
#2	158050	27903	2575.7	5463.0

Sample Name: ICSA Acquired: 7/20/2010 1:10:09 Type: QC
 Method: Accutes1(v172) Mode: CONC Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0039	.0001	.0024	.0007	.0020	.0004	-.0006	-.0043	.0014
Stddev	.0000	.0000	.0000	.0002	.0003	.0000	.0000	.0004	.0000
%RSD	.3017	22.28	1.660	34.12	15.26	7.594	5.076	9.139	2.726
#1	-.0039	.0001	.0023	.0008	.0018	.0004	-.0006	-.0045	.0014
#2	-.0039	.0000	.0024	.0005	.0023	.0004	-.0006	-.0040	.0014

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0009	-.0059	.0000	-.0016	.0019	-.0023	.0016	480.2	372.3
Stddev	.0001	.0002	.001	.0009	.0014	.0034	.0007	1.9	.7
%RSD	16.04	3.802	67120.	59.40	75.74	151.3	44.02	.3951	.1939
#1	-.0010	-.0061	-.0005	-.0022	.0009	.0002	.0021	481.5	371.8
#2	-.0008	-.0058	.0005	-.0009	.0029	-.0047	.0011	478.8	372.8

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	190.1	512.1	.0821	1.163	.0003	.0005	-.0539	-.0010	-.0076
Stddev	1.8	.8	.0188	.013	.0002	.0004	.0003	.0001	.0013
%RSD	.9636	.1648	22.94	1.100	48.60	80.42	.6053	4.962	17.02
#1	191.4	512.7	.0688	1.154	.0002	.0008	-.0541	-.0011	-.0085
#2	188.8	511.5	.0954	1.172	.0004	.0002	-.0537	-.0010	-.0067

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Sample Name: ICSA Acquired: 7/20/2010 1:10:09 Type: QC
 Method: Accutes1(v172) Mode: CONC Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	.0008	.0039	.0355	.0019
Stddev	.0001	.0003	.0007	.0002
%RSD	11.10	7.847	1.858	12.16
#1	.0008	.0037	.0350	.0021
#2	.0009	.0041	.0360	.0018

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	140700	26331	2283.5	4509.1
Stddev	129.	133.	0	7
%RSD	.09180	.50623	.00184	.01594
#1	140610	26237	2283.5	4508.6
#2	140790	26425	2283.5	4509.6

Sample Name: ICSAB Acquired: 7/20/2010 1:16:28 Type: QC
 Method: Accutes1(v172) Mode: CONC Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4979	.4880	1.039	.4681	.4692	.4685	.4877	1.008	1.040
Stddev	.0005	.0005	.002	.0001	.0027	.0003	.0018	.014	.000
%RSD	.1051	.0935	.2049	.0312	.5737	.0742	.3772	1.418	.0304
#1	.4976	.4877	1.041	.4682	.4673	.4682	.4864	1.018	1.040
#2	.4983	.4884	1.038	.4680	.4711	.4687	.4890	.9975	1.040

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 Value Range

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4611	.9149	1.054	1.001	.9916	1.005	1.042	494.1	376.1
Stddev	.0006	.0000	.002	.001	.0040	.006	.003	1.9	1.6
%RSD	.1195	.0033	.1794	.0758	.4074	.6006	.3008	.3778	.4367
#1	.4607	.9148	1.056	1.000	.9888	1.009	1.044	492.8	375.0
#2	.4615	.9149	1.053	1.001	.9945	1.001	1.040	495.5	377.3

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 Value Range

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	185.4	505.0	.1053	1.219	.0101	5046	.5016	.0090	-.0078
Stddev	.3	2.5	.0032	.014	.0002	.0002	.0017	.0006	.0002
%RSD	.1607	.4965	3.022	1.121	2.243	.0367	.3444	6.535	2.540
#1	185.6	503.2	.1075	1.210	.0099	5047	.5003	.0086	-.0077
#2	185.2	506.8	.1030	1.229	.0102	5045	.5028	.0095	-.0079

Check ? Chk Pass Chk Pass None None None Chk Pass Chk Pass None None
 Value Range

Sample Name: ICSAB Acquired: 7/20/2010 1:16:28 Type: QC
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 5 columns: Elem, Sr4077, Ti3349, W_2079, Zr3391. Rows include Units, Avg, Stddev, %RSD, #1, #2.

Check ? Value Range
None None Chk Pass Chk Pass

Table with 5 columns: Int. Std. Units, Y_3600, Y_3710, Y_2243, In2306. Rows include Avg, Stddev, %RSD, #1, #2.

Sample Name: CCV Acquired: 7/20/2010 1:22:45 Type: QC
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 11 columns: Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280. Rows include Units, Avg, Stddev, %RSD, #1, #2.

Check ? Value Range
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Table with 11 columns: Elem, V_2924, Zn2062, As1890, Tl1908, Pb2203, Se1960, Sb2068, Al3961, Ca3179. Rows include Units, Avg, Stddev, %RSD, #1, #2.

Check ? Value Range
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Table with 11 columns: Elem, Fe2599, Mg2790, K_7664, Na5895, B_2089, Mo2020, Pd3404, Si2124, Sn1899. Rows include Units, Avg, Stddev, %RSD, #1, #2.

Check ? Value Range
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Sample Name: CCV Acquired: 7/20/2010 1:22:45 Type: QC
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 5 columns: Elem, Sr4077, Ti3349, W_2079, Zr3391. Rows include Units, Avg, Stddev, %RSD, #1, #2.

Check ? Value Range
Chk Pass Chk Pass Chk Pass Chk Pass

Table with 5 columns: Int. Std. Units, Y_3600, Y_3710, Y_2243, In2306. Rows include Avg, Stddev, %RSD, #1, #2.

Sample Name: CCB Acquired: 7/20/2010 1:28:44 Type: QC
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 11 columns: Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280. Rows include Units, Avg, Stddev, %RSD, #1, #2.

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Table with 11 columns: Elem, V_2924, Zn2062, As1890, Tl1908, Pb2203, Se1960, Sb2068, Al3961, Ca3179. Rows include Units, Avg, Stddev, %RSD, #1, #2.

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Table with 11 columns: Elem, Fe2599, Mg2790, K_7664, Na5895, B_2089, Mo2020, Pd3404, Si2124, Sn1899. Rows include Units, Avg, Stddev, %RSD, #1, #2.

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Fail Chk Pass Chk Pass Chk Pass Chk Pass

Sample Name: CCB Acquired: 7/20/2010 1:28:44 Type: QC
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 5 columns: Elem, Sr4077, Ti3349, W_2079, Zr3391. Rows include Avg, Stddev, %RSD, #1, #2.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Table with 5 columns: Int. Std. Units, Y_3600, Y_3710, Y_2243, In2306. Rows include Avg, Stddev, %RSD, #1, #2.

Table with 5 columns: Int. Std. Units, Y_3600, Y_3710, Y_2243, In2306. Rows include Avg, Stddev, %RSD, #1, #2.

Sample Name: JA50236-1 Acquired: 7/20/2010 1:34:57 Type: Unk
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 10 columns: Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280. Rows include Avg, Stddev, %RSD, #1, #2.

Table with 10 columns: Elem, V_2924, Zn2062, As1890, Ti1908, Pb2203, Se1960, Sb2068, Al3961, Ca3179. Rows include Avg, Stddev, %RSD, #1, #2.

Table with 10 columns: Elem, Fe2599, Mg2790, K_7664, Na5895, B_2089, Mo2020, Pd3404, Si2124, Sn1899. Rows include Avg, Stddev, %RSD, #1, #2.

Table with 5 columns: Elem, Sr4077, Ti3349, W_2079, Zr3391. Rows include Avg, Stddev, %RSD, #1, #2.

Table with 5 columns: Int. Std. Units, Y_3600, Y_3710, Y_2243, In2306. Rows include Avg, Stddev, %RSD, #1, #2.

Table with 5 columns: Int. Std. Units, Y_3600, Y_3710, Y_2243, In2306. Rows include Avg, Stddev, %RSD, #1, #2.

Sample Name: JA50236-2 Acquired: 7/20/2010 1:41:04 Type: Unk
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 10 columns: Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280. Rows include Avg, Stddev, %RSD, #1, #2.

Table with 10 columns: Elem, V_2924, Zn2062, As1890, Ti1908, Pb2203, Se1960, Sb2068, Al3961, Ca3179. Rows include Avg, Stddev, %RSD, #1, #2.

Table with 10 columns: Elem, Fe2599, Mg2790, K_7664, Na5895, B_2089, Mo2020, Pd3404, Si2124, Sn1899. Rows include Avg, Stddev, %RSD, #1, #2.

Table with 5 columns: Elem, Sr4077, Ti3349, W_2079, Zr3391. Rows include Avg, Stddev, %RSD, #1, #2.

Table with 5 columns: Int. Std. Units, Y_3600, Y_3710, Y_2243, In2306. Rows include Avg, Stddev, %RSD, #1, #2.

Table with 5 columns: Int. Std. Units, Y_3600, Y_3710, Y_2243, In2306. Rows include Avg, Stddev, %RSD, #1, #2.

Sample Name: JA50236-3 Acquired: 7/20/2010 1:47:11 Type: Unk
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 10 columns: Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280. Rows include Avg, Stddev, %RSD, #1, #2.

Table with 10 columns: Elem, V_2924, Zn2062, As1890, Ti1908, Pb2203, Se1960, Sb2068, Al3961, Ca3179. Rows include Avg, Stddev, %RSD, #1, #2.

Table with 10 columns: Elem, Fe2599, Mg2790, K_7664, Na5895, B_2089, Mo2020, Pd3404, Si2124, Sn1899. Rows include Avg, Stddev, %RSD, #1, #2.

Table with 5 columns: Elem, Sr4077, Ti3349, W_2079, Zr3391. Rows include Avg, Stddev, %RSD, #1, #2.

Table with 5 columns: Int. Std. Units, Y_3600, Y_3710, Y_2243, In2306. Rows include Avg, Stddev, %RSD, #1, #2.

Table with 5 columns: Int. Std. Units, Y_3600, Y_3710, Y_2243, In2306. Rows include Avg, Stddev, %RSD, #1, #2.

Sample Name: JA50236-4 Acquired: 7/20/2010 1:53:23 Type: Unk Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000 User: admin Custom ID1: Custom ID2: Custom ID3: Comment:

Table with 10 columns (Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and 3 rows per element (Avg, Stdev, %RSD) for multiple elements and standards.

Sample Name: JA50236-5 Acquired: 7/20/2010 1:59:36 Type: Unk Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000 User: admin Custom ID1: Custom ID2: Custom ID3: Comment:

Table with 10 columns (Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and 3 rows per element (Avg, Stdev, %RSD) for multiple elements and standards.

Sample Name: JA50236-6 Acquired: 7/20/2010 2:05:49 Type: Unk Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000 User: admin Custom ID1: Custom ID2: Custom ID3: Comment:

Table with 10 columns (Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and 3 rows per element (Avg, Stdev, %RSD) for multiple elements and standards.

Sample Name: JA50236-7 Acquired: 7/20/2010 2:11:55 Type: Unk Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000 User: admin Custom ID1: Custom ID2: Custom ID3: Comment:

Table with 10 columns (Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and 3 rows per element (Avg, Stdev, %RSD) for multiple elements and standards.

Sample Name: CCV Acquired: 7/20/2010 2:36:24 Type: QC
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	2.103	2.069	1.933	2.017
Stddev	.002	.001	.012	.002
%RSD	.1110	.0314	.6001	.0783
#1	2.102	2.068	1.925	2.015
#2	2.105	2.069	1.941	2.018

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	152770.	27259.	2497.0	5111.8
Stddev	273.	12.	.9	3.7
%RSD	.17860	.04463	.03576	.07201
#1	152960.	27268.	2497.7	5114.4
#2	152580.	27251.	2496.4	5109.2

Sample Name: CCB Acquired: 7/20/2010 2:42:23 Type: QC
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0004	.0002	.0003	.0005	.0003	.0003	.0001	.0001
Stddev	.0001	.0000	.0000	.0002	.0002	.0001	.0000	.0001	.0001
%RSD	47.03	8.991	9.398	83.16	38.22	26.19	2.325	113.9	85.66
#1	.0004	.0004	.0002	.0005	.0006	.0004	.0003	.0001	.0002
#2	.0002	.0003	.0002	.0001	.0003	.0002	.0003	.0000	.0000

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0002	.0013	.0008	.0001	.0019	.0004	.0135	.0160
Stddev	.0002	.0001	.0007	.0006	.0000	.0007	.0010	.0025	.0013
%RSD	58.86	53.60	54.30	71.81	22.16	37.54	216.5	18.69	7.819
#1	.0004	.0003	.0018	.0004	.0001	.0024	-.0002	.0153	.0169
#2	.0002	.0002	.0008	.0012	.0001	.0014	.0011	.0117	.0151

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0094	.0126	.0371	.0344	.0013	.0022	.0003	.0021	-.0002
Stddev	.0006	.0133	.0212	.0016	.0007	.0007	.0000	.0005	.0000
%RSD	6.336	105.6	57.12	4.650	51.73	32.18	1.773	26.57	19.86
#1	.0098	.0032	.0521	.0333	.0018	.0027	.0003	.0024	-.0002
#2	.0090	.0221	.0221	.0355	.0008	.0017	.0003	.0017	-.0003

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Fail Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: CCB Acquired: 7/20/2010 2:42:23 Type: QC
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	.0004	.0005	.0085	.0010
Stddev	.0000	.0002	.0007	.0001
%RSD	8.272	29.75	7.751	11.13
#1	.0004	.0004	.0090	.0009
#2	.0003	.0006	.0080	.0011

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	157770.	27593.	2576.8	5464.9
Stddev	219.	26.	3.2	4.
%RSD	.13863	.09593	.12272	.00760
#1	157930.	27574.	2574.6	5464.6
#2	157620.	27612.	2579.1	5465.2

Sample Name: JA50762-3 Acquired: 7/20/2010 2:48:35 Type: Unk
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3824	.0011	.0009	.0143	.0005	.0336	.2636	.0542	-.0006
Stddev	.0002	.0000	.0000	.0002	.0001	.0002	.0005	.0001	.0000
%RSD	.0476	1.437	3.549	1.141	29.75	6.661	.1820	.1039	3.949
#1	.3823	.0011	.0008	.0142	.0006	.0335	.2632	.0542	-.0006
#2	.3825	.0011	.0009	.0144	.0004	.0338	.2639	.0541	-.0006

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.6362	.0077	.0005	.0106	.0013	.0003	1.632	12.57
Stddev	.0002	.0008	.0002	.0002	.0001	.0002	.0004	.004	.01
%RSD	174.8	.1248	2.048	37.71	.6489	18.40	112.3	.2548	.1094
#1	-.0002	.6368	.0076	.0004	.0107	.0015	.0001	1.635	12.58
#2	.0000	.6357	.0078	.0007	.0106	.0012	.0006	1.629	12.56

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8213	3.068	5.093	45.49	.1878	.0003	.0063	15.84	-.0023
Stddev	.0003	.001	.001	.07	.0003	.0001	.0005	.00	.0003
%RSD	.0380	.0405	.0265	.1647	.1698	41.58	7.596	.0203	11.67
#1	.8211	3.069	5.092	45.55	.1876	.0002	-.0060	15.84	-.0025
#2	.8215	3.067	5.094	45.44	.1880	.0004	-.0067	15.84	-.0021

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Sr4077	Ti3349	W_2079	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	.1625	-.0152	.0226	.0027
Stddev	.0001	.0001	.0002	.0001
%RSD	.0493	.5144	.9157	1.943
#1	.1625	-.0151	.0227	.0027
#2	.1626	-.0152	.0224	.0027

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	172500.	30819.	2816.6	5339.0
Stddev	159.	27.	.2	2.8
%RSD	.09244	.08882	.00711	.05197
#1	172620.	30799.	2816.5	5341.0
#2	172390.	30838.	2816.8	5337.0

Sample Name: JA50921-3F Acquired: 7/20/2010 3:19:13 Type: Unk
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 11 columns (Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and multiple rows for Avg, Stddev, %RSD, and duplicate samples (#1, #2).

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Sample Name: JA50921-4F Acquired: 7/20/2010 3:25:26 Type: Unk
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 11 columns (Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and multiple rows for Avg, Stddev, %RSD, and duplicate samples (#1, #2).

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Sample Name: JA50232-5F Acquired: 7/20/2010 3:31:37 Type: Unk
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 11 columns (Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and multiple rows for Avg, Stddev, %RSD, and duplicate samples (#1, #2).

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Sample Name: JA50237-1 Acquired: 7/20/2010 3:37:45 Type: Unk
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 11 columns (Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and multiple rows for Avg, Stddev, %RSD, and duplicate samples (#1, #2).

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Zoom In Zoom Out

Sample Name: MP53705-MB1CONF Acquired: 7/20/2010 4:21:03 Type: Unk
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 10 columns (Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and 10 rows of data including Avg, Stddev, %RSD, and duplicate rows for each element.

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Zoom In Zoom Out

Sample Name: JA50237-5 Acquired: 7/20/2010 4:27:13 Type: Unk
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 10 columns (Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and 10 rows of data including Avg, Stddev, %RSD, and duplicate rows for each element.

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Zoom In Zoom Out

Sample Name: JA50237-6 Acquired: 7/20/2010 4:33:26 Type: Unk
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 10 columns (Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and 10 rows of data including Avg, Stddev, %RSD, and duplicate rows for each element.

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Zoom In Zoom Out

Sample Name: JA51157-3-2 Acquired: 7/20/2010 4:39:32 Type: Unk
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 10 columns (Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and 10 rows of data including Avg, Stddev, %RSD, and duplicate rows for each element.

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Zoom In

Zoom Out

Sample Name: JA51236-1 Acquired: 7/20/2010 4:45:43 Type:UNK
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 10 columns (Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and 3 rows (Avg, Stddev, %RSD).

Table with 10 columns and 2 rows (#1, #2) for sample analysis.

Table with 10 columns (Elem, V_2924, Zn2062, As1890, Tl1908, Pb2203, Se1960, Sb2068, Al3961, Ca3179) and 3 rows (Avg, Stddev, %RSD).

Table with 10 columns and 2 rows (#1, #2) for sample analysis.

Table with 10 columns (Elem, Fe2599, Mg2790, K_7664, Na5895, B_2089, Mo2020, Pd3404, Si2124, Sn1899) and 3 rows (Avg, Stddev, %RSD).

Table with 10 columns and 2 rows (#1, #2) for sample analysis.

Table with 4 columns (Elem, Sr4077, Ti3349, W_2079, Zr3391) and 3 rows (Avg, Stddev, %RSD).

Table with 4 columns and 2 rows (#1, #2) for sample analysis.

Table with 4 columns (Int. Std, Y_3600, Y_3710, Y_2243, In2306) and 3 rows (Avg, Stddev, %RSD).

Table with 4 columns and 2 rows (#1, #2) for sample analysis.

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Zoom In

Zoom Out

Sample Name: MP53683-MB1CONF Acquired: 7/20/2010 4:51:59 Type:UNK
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 10 columns (Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and 3 rows (Avg, Stddev, %RSD).

Table with 10 columns and 2 rows (#1, #2) for sample analysis.

Table with 10 columns (Elem, V_2924, Zn2062, As1890, Tl1908, Pb2203, Se1960, Sb2068, Al3961, Ca3179) and 3 rows (Avg, Stddev, %RSD).

Table with 10 columns and 2 rows (#1, #2) for sample analysis.

Table with 10 columns (Elem, Fe2599, Mg2790, K_7664, Na5895, B_2089, Mo2020, Pd3404, Si2124, Sn1899) and 3 rows (Avg, Stddev, %RSD).

Table with 10 columns and 2 rows (#1, #2) for sample analysis.

Table with 4 columns (Elem, Sr4077, Ti3349, W_2079, Zr3391) and 3 rows (Avg, Stddev, %RSD).

Table with 4 columns and 2 rows (#1, #2) for sample analysis.

Table with 4 columns (Int. Std, Y_3600, Y_3710, Y_2243, In2306) and 3 rows (Avg, Stddev, %RSD).

Table with 4 columns and 2 rows (#1, #2) for sample analysis.

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6.1 6

Zoom In

Zoom Out

Sample Name: CCV Acquired: 7/20/2010 4:58:11 Type:QC
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 10 columns (Elem Units, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and 3 rows (Avg, Stddev, %RSD).

Table with 10 columns and 2 rows (#1, #2) for sample analysis.

Check ? Value Range: Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Table with 10 columns (Elem Units, V_2924, Zn2062, As1890, Tl1908, Pb2203, Se1960, Sb2068, Al3961, Ca3179) and 3 rows (Avg, Stddev, %RSD).

Table with 10 columns and 2 rows (#1, #2) for sample analysis.

Check ? Value Range: Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Table with 10 columns (Elem Units, Fe2599, Mg2790, K_7664, Na5895, B_2089, Mo2020, Pd3404, Si2124, Sn1899) and 3 rows (Avg, Stddev, %RSD).

Table with 10 columns and 2 rows (#1, #2) for sample analysis.

Check ? Value Range: Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

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Zoom In

Zoom Out

Sample Name: CCV Acquired: 7/20/2010 4:58:11 Type:QC
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 5 columns (Elem Units, Sr4077, Ti3349, W_2079, Zr3391) and 3 rows (Avg, Stddev, %RSD).

Table with 5 columns and 2 rows (#1, #2) for sample analysis.

Check ? Value Range: Chk Pass Chk Pass Chk Pass Chk Pass

Table with 4 columns (Int. Std, Y_3600, Y_3710, Y_2243, In2306) and 3 rows (Avg, Stddev, %RSD).

Table with 4 columns and 2 rows (#1, #2) for sample analysis.

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Sample Name: CCB Acquired: 7/20/2010 5:04:10 Type: QC
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Check ? High Limit Low Limit
Elem Ba4554 Be3130 Cd2288 Co2286 Cr2677 Cu3247 Mn2576 Ni2316 Ag3280
Units ppm ppm ppm ppm ppm ppm ppm ppm ppm
Avg .0005 .0005 .0003 .0004 .0007 .0004 .0005 .0005 .0002 .0002

#1 .0005 .0005 .0003 .0005 .0008 .0005 .0005 .0004 .0004
#2 .0005 .0005 .0003 .0003 .0006 .0003 .0006 .0005 .0000

Check ? High Limit Low Limit
Elem V_2924 Zn2062 As1890 Ti1908 Pb2203 Se1960 Sb2068 Al3961 Ca3179
Units ppm ppm ppm ppm ppm ppm ppm ppm ppm
Avg .0004 .0004 .0014 .0010 .0001 .0016 .0010 .0143 .0210

#1 .0004 .0005 .0014 .0010 .0000 .0012 .0014 .0155 .0202
#2 .0005 .0004 .0013 .0010 .0001 .0019 .0006 .0131 .0219

Check ? High Limit Low Limit
Elem Fe2599 Mg2790 K_7664 Na5895 B_2089 Mo2020 Pd3404 Si2124 Sn1899
Units ppm ppm ppm ppm ppm ppm ppm ppm ppm
Avg F .0136 .0167 .0685 .1733 .0018 F .0027 .0002 .0025 .0001

#1 .0140 .0200 .0749 .1746 .0019 .0031 .0004 .0024 .0002
#2 .0133 .0134 .0622 .1721 .0018 .0023 .0000 .0027 .0000

Sample Name: CCB Acquired: 7/20/2010 5:04:10 Type: QC
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Check ? High Limit Low Limit
Elem Sr4077 Ti3349 W_2079 Zr3391
Units ppm ppm ppm ppm
Avg .0005 .0004 .0094 .0010

#1 .0005 .0007 .0102 .0011
#2 .0006 .0001 .0086 .0010

Check ? High Limit Low Limit
Elem Int. Std. Y_3600 Y_3710 Y_2243 In2306
Units Cts/S Cts/S Cts/S Cts/S
Avg 157970. 27507. 25827. 5464.2

#1 158240. 27517. 2583.0 5468.0
#2 157690. 27496. 2582.3 5460.4

Sample Name: MP53752-MB1 2 Acquired: 7/20/2010 5:10:23 Type: Unk
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem Ba4554 Be3130 Cd2288 Co2286 Cr2677 Cu3247 Mn2576 Ni2316 Ag3280
Units ppm ppm ppm ppm ppm ppm ppm ppm ppm
Avg .0001 .0001 .0001 .0001 .0001 .0001 .0000 .0000 .0001 .0001

#1 .0002 .0001 .0001 .0000 .0003 .0002 .0002 .0003 .0002 .0000
#2 .0001 .0001 .0002 .0002 .0001 .0000 .0001 .0002 .0000 .0000

Elem V_2924 Zn2062 As1890 Ti1908 Pb2203 Se1960 Sb2068 Al3961 Ca3179
Units ppm ppm ppm ppm ppm ppm ppm ppm ppm
Avg .0000 .0011 .0006 .0021 .0001 .0001 .0006 .0164 .0486

#1 .0000 .0011 .0009 .0016 .0003 .0004 .0002 .0133 .0487
#2 .0001 .0010 .0003 .0025 .0004 .0001 .0010 .0194 .0485

Elem Fe2599 Mg2790 K_7664 Na5895 B_2089 Mo2020 Pd3404 Si2124 Sn1899
Units ppm ppm ppm ppm ppm ppm ppm ppm ppm
Avg .0129 .0015 .0231 .0549 .0008 .0004 .0006 .0040 .0018

#1 .0126 .0048 .0204 .0579 .0007 .0004 .0007 .0040 .0021
#2 .0132 .0077 .0257 .0519 .0008 .0004 .0005 .0039 .0016

Elem Sr4077 Ti3349 W_2079 Zr3391
Units ppm ppm ppm ppm
Avg .0004 .0005 .0024 .0000

#1 .0004 .0006 .0023 .0001
#2 .0003 .0004 .0025 .0000

Elem Int. Std. Y_3600 Y_3710 Y_2243 In2306
Units Cts/S Cts/S Cts/S Cts/S
Avg 161230. 28250. 2648.1 5614.2

#1 161420. 28283. 2654.6 5627.2
#2 161030. 28216. 2641.6 5601.2

Sample Name: MP53752-B1 Acquired: 7/20/2010 5:16:34 Type: Unk
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem Ba4554 Be3130 Cd2288 Co2286 Cr2677 Cu3247 Mn2576 Ni2316 Ag3280
Units ppm ppm ppm ppm ppm ppm ppm ppm ppm
Avg 3.925 .1015 .0959 .9868 .4014 .4731 1.034 1.006 .0928

#1 3.925 .1014 .0958 .9862 .4005 .4732 1.034 1.006 .0926
#2 3.925 .1016 .0961 .9873 .4024 .4730 1.035 1.007 .0929

Elem V_2924 Zn2062 As1890 Ti1908 Pb2203 Se1960 Sb2068 Al3961 Ca3179
Units ppm ppm ppm ppm ppm ppm ppm ppm ppm
Avg .9575 1.000 3.858 3.943 .9784 3.775 .9629 51.60 12.36

#1 .9570 .9996 3.855 3.939 .9791 3.772 .9623 51.61 12.37
#2 .9580 1.001 3.860 3.947 .9776 3.778 .9635 51.59 12.35

Elem Fe2599 Mg2790 K_7664 Na5895 B_2089 Mo2020 Pd3404 Si2124 Sn1899
Units ppm ppm ppm ppm ppm ppm ppm ppm ppm
Avg 52.47 11.96 11.79 11.92 9245 1.004 .8264 1.937 1.010

#1 52.48 11.96 11.78 11.93 9237 1.003 .8264 1.933 1.011
#2 52.46 11.95 11.80 11.91 9252 1.005 .8263 1.940 1.009

Elem Sr4077 Ti3349 W_2079 Zr3391
Units ppm ppm ppm ppm
Avg 1.057 1.036 .0690 .0098

#1 1.058 1.036 .0693 .0101
#2 1.056 1.036 .0687 .0095

Elem Int. Std. Y_3600 Y_3710 Y_2243 In2306
Units Cts/S Cts/S Cts/S Cts/S
Avg 156380. 27601. 2534.7 5255.0

#1 156320. 27564. 2534.7 5253.1
#2 156450. 27638. 2534.7 5257.0

Sample Name: MP53752-S1 Acquired: 7/20/2010 5:22:30 Type: Unk
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 10 columns (Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and multiple rows of data including Avg, Stddev, %RSD, and Int. Std. values.

Sample Name: MP53752-S2 Acquired: 7/20/2010 5:28:25 Type: Unk
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 10 columns (Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and multiple rows of data including Avg, Stddev, %RSD, and Int. Std. values.

Sample Name: JA51290-10 Acquired: 7/20/2010 5:34:21 Type: Unk
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 10 columns (Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and multiple rows of data including Avg, Stddev, %RSD, and Int. Std. values.

Sample Name: MP53752-SD1 Acquired: 7/20/2010 5:40:26 Type: Unk
Method: Accutest1(v172) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 10 columns (Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and multiple rows of data including Avg, Stddev, %RSD, and Int. Std. values.

Sample Name: JA49383-10CONF Acquired: 7/20/2010 5:46:33 Type: Unk Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000 User: admin Custom ID1: Custom ID2: Custom ID3: Comment:

Table with 10 columns (Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and 3 rows (Avg, Stddev, %RSD).

Table with 10 columns and 2 rows (#1, #2) for the first set of elements.

Table with 10 columns (Elem, V_2924, Zn2062, As1890, Tl1908, Pb2203, Se1960, Sb2068, Al3961, Ca3179) and 3 rows (Avg, Stddev, %RSD).

Table with 10 columns and 2 rows (#1, #2) for the second set of elements.

Table with 10 columns (Elem, Fe2599, Mg2790, K_7664, Na5895, B_2089, Mo2020, Pd3404, Si2124, Sn1899) and 3 rows (Avg, Stddev, %RSD).

Table with 10 columns and 2 rows (#1, #2) for the third set of elements.

Table with 10 columns (Elem, Sr4077, Tl3349, W_2079, Zr3391) and 3 rows (Avg, Stddev, %RSD).

Table with 10 columns and 2 rows (#1, #2) for the fourth set of elements.

Table with 4 columns (Int. Std., Y_3600, Y_3710, Y_2243, In2306) and 3 rows (Avg, Stddev, %RSD).

Table with 4 columns and 2 rows (#1, #2) for the fifth set of elements.

Sample Name: JA51290-1 Acquired: 7/20/2010 5:52:36 Type: Unk Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000 User: admin Custom ID1: Custom ID2: Custom ID3: Comment:

Table with 10 columns (Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and 3 rows (Avg, Stddev, %RSD).

Table with 10 columns and 2 rows (#1, #2) for the first set of elements.

Table with 10 columns (Elem, V_2924, Zn2062, As1890, Tl1908, Pb2203, Se1960, Sb2068, Al3961, Ca3179) and 3 rows (Avg, Stddev, %RSD).

Table with 10 columns and 2 rows (#1, #2) for the second set of elements.

Table with 10 columns (Elem, Fe2599, Mg2790, K_7664, Na5895, B_2089, Mo2020, Pd3404, Si2124, Sn1899) and 3 rows (Avg, Stddev, %RSD).

Table with 10 columns and 2 rows (#1, #2) for the third set of elements.

Table with 10 columns (Elem, Sr4077, Tl3349, W_2079, Zr3391) and 3 rows (Avg, Stddev, %RSD).

Table with 10 columns and 2 rows (#1, #2) for the fourth set of elements.

Table with 4 columns (Int. Std., Y_3600, Y_3710, Y_2243, In2306) and 3 rows (Avg, Stddev, %RSD).

Table with 4 columns and 2 rows (#1, #2) for the fifth set of elements.

Sample Name: JA51290-2 Acquired: 7/20/2010 5:58:41 Type: Unk Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000 User: admin Custom ID1: Custom ID2: Custom ID3: Comment:

Table with 10 columns (Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and 3 rows (Avg, Stddev, %RSD).

Table with 10 columns and 2 rows (#1, #2) for the first set of elements.

Table with 10 columns (Elem, V_2924, Zn2062, As1890, Tl1908, Pb2203, Se1960, Sb2068, Al3961, Ca3179) and 3 rows (Avg, Stddev, %RSD).

Table with 10 columns and 2 rows (#1, #2) for the second set of elements.

Table with 10 columns (Elem, Fe2599, Mg2790, K_7664, Na5895, B_2089, Mo2020, Pd3404, Si2124, Sn1899) and 3 rows (Avg, Stddev, %RSD).

Table with 10 columns and 2 rows (#1, #2) for the third set of elements.

Table with 10 columns (Elem, Sr4077, Tl3349, W_2079, Zr3391) and 3 rows (Avg, Stddev, %RSD).

Table with 10 columns and 2 rows (#1, #2) for the fourth set of elements.

Table with 4 columns (Int. Std., Y_3600, Y_3710, Y_2243, In2306) and 3 rows (Avg, Stddev, %RSD).

Table with 4 columns and 2 rows (#1, #2) for the fifth set of elements.

Sample Name: JA51290-3 Acquired: 7/20/2010 6:04:46 Type: Unk Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000 User: admin Custom ID1: Custom ID2: Custom ID3: Comment:

Table with 10 columns (Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and 3 rows (Avg, Stddev, %RSD).

Table with 10 columns and 2 rows (#1, #2) for the first set of elements.

Table with 10 columns (Elem, V_2924, Zn2062, As1890, Tl1908, Pb2203, Se1960, Sb2068, Al3961, Ca3179) and 3 rows (Avg, Stddev, %RSD).

Table with 10 columns and 2 rows (#1, #2) for the second set of elements.

Table with 10 columns (Elem, Fe2599, Mg2790, K_7664, Na5895, B_2089, Mo2020, Pd3404, Si2124, Sn1899) and 3 rows (Avg, Stddev, %RSD).

Table with 10 columns and 2 rows (#1, #2) for the third set of elements.

Table with 10 columns (Elem, Sr4077, Tl3349, W_2079, Zr3391) and 3 rows (Avg, Stddev, %RSD).

Table with 10 columns and 2 rows (#1, #2) for the fourth set of elements.

Table with 4 columns (Int. Std., Y_3600, Y_3710, Y_2243, In2306) and 3 rows (Avg, Stddev, %RSD).

Table with 4 columns and 2 rows (#1, #2) for the fifth set of elements.

Sample Name: CCV Acquired: 7/20/2010 6:10:51 Type: QC
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 10 columns: Elem, Units, Avg, Stddev, %RSD for Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280. Includes rows for #1 and #2.

Check ? Value Range Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Table with 10 columns: Elem, Units, Avg, Stddev, %RSD for V_2924, Zn2062, As1890, Tl1908, Pb2203, Se1960, Sb2068, Al3961, Ca3179. Includes rows for #1 and #2.

Check ? Value Range Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Table with 10 columns: Elem, Units, Avg, Stddev, %RSD for Fe2599, Mg2790, K_7664, Na5895, B_2089, Mo2020, Pd3404, Si2124, Sn1899. Includes rows for #1 and #2.

Check ? Value Range Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Sample Name: CCV Acquired: 7/20/2010 6:10:51 Type: QC
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 5 columns: Elem, Units, Avg, Stddev, %RSD for Sr4077, Ti3349, W_2079, Zr3391. Includes rows for #1 and #2.

Check ? Value Range Chk Pass Chk Pass Chk Pass Chk Pass

Table with 4 columns: Int. Std. Units, Avg, Stddev, %RSD for Y_3600, Y_3710, Y_2243, In2306. Includes rows for #1 and #2.

Sample Name: CCB Acquired: 7/20/2010 6:16:50 Type: QC
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 10 columns: Elem, Units, Avg, Stddev, %RSD for Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280. Includes rows for #1 and #2.

Check ? High Limit Low Limit Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Table with 10 columns: Elem, Units, Avg, Stddev, %RSD for V_2924, Zn2062, As1890, Tl1908, Pb2203, Se1960, Sb2068, Al3961, Ca3179. Includes rows for #1 and #2.

Check ? High Limit Low Limit Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Table with 10 columns: Elem, Units, Avg, Stddev, %RSD for Fe2599, Mg2790, K_7664, Na5895, B_2089, Mo2020, Pd3404, Si2124, Sn1899. Includes rows for #1 and #2.

Check ? High Limit Low Limit Chk Fail Chk Pass Chk Pass Chk Pass Chk Pass Chk Fail Chk Pass Chk Pass Chk Pass

Sample Name: CCB Acquired: 7/20/2010 6:16:50 Type: QC
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 5 columns: Elem, Units, Avg, Stddev, %RSD for Sr4077, Ti3349, W_2079, Zr3391. Includes rows for #1 and #2.

Check ? High Limit Low Limit Chk Pass Chk Pass Chk Pass Chk Pass

Table with 4 columns: Int. Std. Units, Avg, Stddev, %RSD for Y_3600, Y_3710, Y_2243, In2306. Includes rows for #1 and #2.

◀ Zoom In ▶
Zoom Out

Sample Name: CCV Acquired: 7/20/2010 8:32:45 Type: QC
 Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	2.144	2.106	1.962	2.035
Stddev	.001	.000	.010	.001
%RSD	.0382	.0150	.5180	.0578
#1	2.143	2.106	1.955	2.036
#2	2.145	2.106	1.969	2.034

Check ? **Chk Pass Chk Pass Chk Pass Chk Pass**
 Value
 Range

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	153690.	27375.	2534.1	5135.6
Stddev	231.	134.	2.7	.6
%RSD	.15034	.48832	.10677	.01135
#1	153530.	27470.	2536.0	5136.0
#2	153850.	27281.	2532.2	5135.2

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◀ Zoom In ▶
Zoom Out

Sample Name: CCB Acquired: 7/20/2010 8:38:44 Type: QC
 Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0002	.0002	.0002	.0010	.0006	.0005	.0001	.0003
Stddev	.0001	.0001	.0002	.0003	.0001	.0003	.0000	.0001	.0002
%RSD	93.43	34.97	123.4	103.6	14.37	41.05	7.186	66.30	57.69
#1	.0000	.0001	.0003	.0004	.0009	.0008	.0005	.0002	.0002
#2	.0002	.0002	.0000	.0001	.0011	.0004	.0004	.0001	.0004

Check ? **Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass**
 High Limit
 Low Limit

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0001	.0015	.0015	-.0004	.0030	-.0004	.0028	.0075
Stddev	.0000	.0001	.0009	.0010	.0008	.0004	.0005	.0042	.0025
%RSD	1.258	51.00	60.71	67.07	190.4	12.86	110.7	149.7	33.15
#1	.0005	.0001	.0021	.0022	.0001	.0027	-.0001	.0058	.0057
#2	.0005	.0001	.0008	.0008	-.0010	.0032	-.0008	-.0002	.0092

Check ? **Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass**
 High Limit
 Low Limit

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0060	.0004	.0186	-.0240	.0016	F .0023	.0006	.0014	.0004
Stddev	.0027	.0044	.0090	.0004	.0004	.0003	.0001	.0003	.0005
%RSD	44.98	1144.	48.33	1.737	21.79	14.99	14.28	22.32	110.3
#1	.0041	.0035	.0122	-.0243	.0019	.0025	.0005	.0016	.0007
#2	.0079	-.0027	.0250	-.0237	.0014	.0020	.0006	.0012	.0001

Check ? **Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Fail Chk Pass Chk Pass Chk Pass**
 High Limit
 Low Limit

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◀ Zoom In ▶
Zoom Out

Sample Name: CCB Acquired: 7/20/2010 8:38:44 Type: QC
 Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	.0002	.0006	.0104	.0010
Stddev	.0002	.0002	.0016	.0000
%RSD	99.10	28.31	15.88	2.760
#1	.0001	.0005	.0115	.0009
#2	.0003	.0008	.0092	.0010

Check ? **Chk Pass Chk Pass Chk Pass Chk Pass**
 High Limit
 Low Limit

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	158490.	27813.	2612.3	5487.1
Stddev	131.	64.	.8	4.4
%RSD	.08278	.22922	.03128	.08086
#1	158580.	27768.	2612.9	5490.2
#2	158390.	27859.	2611.7	5484.0

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◀ Zoom In ▶
Zoom Out

Sample Name: ICESA Acquired: 7/20/2010 8:44:57 Type: QC
 Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0040	.0001	.0023	.0003	.0020	.0004	-.0001	-.0048	.0029
Stddev	.0001	.0000	.0001	.0002	.0001	.0003	.0001	.0003	.0000
%RSD	2.755	22.34	4.762	79.65	6.124	68.37	94.29	6.640	1.080
#1	-.0041	.0001	.0023	.0005	.0021	.0006	-.0002	-.0045	.0029
#2	-.0039	.0001	.0022	.0001	.0019	.0002	.0000	-.0050	.0030

Check ? **Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass**
 High Limit
 Low Limit

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0012	-.0054	.0015	-.0004	.0001	-.0007	.0033	480.6	375.7
Stddev	.0001	.0000	.0016	.0023	.0022	.0021	.0006	5.7	.8
%RSD	9.925	.4012	107.2	530.2	1593.	283.8	17.46	1.190	.2221
#1	-.0013	-.0054	.0026	-.0021	.0017	-.0022	.0029	484.6	376.3
#2	-.0011	-.0054	.0004	.0012	-.0014	.0007	.0037	476.5	375.1

Check ? **Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass**
 High Limit
 Low Limit

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	190.5	523.5	.0324	8803	-.0001	.0010	-.0583	-.0023	-.0070
Stddev	.0	.3	.0028	0.023	.0001	.0002	.0001	.0002	.0004
%RSD	.0146	.0589	8.753	.2626	228.5	20.54	.0974	7.691	6.359
#1	190.5	523.3	.0304	8819	-.0002	.0009	-.0582	-.0022	-.0074
#2	190.5	523.7	.0344	8786	.0000	.0012	-.0583	-.0024	-.0067

Check ? **Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass**
 High Limit
 Low Limit

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Zoom In Zoom Out

Sample Name: ICSA Acquired: 7/20/2010 8:44:57 Type: QC
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 5 columns: Elem, Sr4077, Ti3349, W_2079, Zr3391. Rows include Units, Avg, Stddev, %RSD, #1, and #2.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Table with 5 columns: Int. Std. Units, Y_3600, Y_3710, Y_2243, In2306. Rows include Units, Avg, Stddev, %RSD, #1, and #2.

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Zoom In Zoom Out

Sample Name: ICSAB Acquired: 7/20/2010 8:51:15 Type: QC
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 11 columns: Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280. Rows include Units, Avg, Stddev, %RSD, #1, and #2.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value Range

Table with 11 columns: Elem, V_2924, Zn2062, As1890, Ti1908, Pb2203, Se1960, Sb2068, Al3961, Ca3179. Rows include Units, Avg, Stddev, %RSD, #1, and #2.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value Range

Table with 11 columns: Elem, Fe2599, Mg2790, K_7664, Na5895, B_2089, Mo2020, Pd3404, Si2124, Sn1899. Rows include Units, Avg, Stddev, %RSD, #1, and #2.

Check ? Chk Pass Chk Pass None None None Chk Pass Chk Pass None None
Value Range

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Zoom In Zoom Out

Sample Name: ICSAB Acquired: 7/20/2010 8:51:15 Type: QC
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 5 columns: Elem, Sr4077, Ti3349, W_2079, Zr3391. Rows include Units, Avg, Stddev, %RSD, #1, and #2.

Check ? None None Chk Pass Chk Pass
Value Range

Table with 5 columns: Int. Std. Units, Y_3600, Y_3710, Y_2243, In2306. Rows include Units, Avg, Stddev, %RSD, #1, and #2.

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Zoom In Zoom Out

Sample Name: JA50695-2 Acquired: 7/20/2010 8:57:30 Type: Unk
Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Table with 11 columns: Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280. Rows include Units, Avg, Stddev, %RSD, #1, and #2.

Check ? Value Range

Table with 11 columns: Elem, V_2924, Zn2062, As1890, Ti1908, Pb2203, Se1960, Sb2068, Al3961, Ca3179. Rows include Units, Avg, Stddev, %RSD, #1, and #2.

Check ? Value Range

Table with 5 columns: Elem, Sr4077, Ti3349, W_2079, Zr3391. Rows include Units, Avg, Stddev, %RSD, #1, and #2.

Check ? Value Range

Table with 5 columns: Int. Std. Units, Y_3600, Y_3710, Y_2243, In2306. Rows include Units, Avg, Stddev, %RSD, #1, and #2.

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Sample Name: JA50695-2 Acquired: 7/20/2010 9:04:00 Type: Unk Method: Accutest1(v172) Mode: CONC Corr. Factor: 10.000000 User: admin Custom ID1: Custom ID2: Custom ID3: Comment:

Table with 10 columns (Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and 4 rows of data for each element, including Avg, Stddev, %RSD, and #1/#2 values.

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Sample Name: JA50695-3 Acquired: 7/20/2010 9:10:05 Type: Unk Method: Accutest1(v172) Mode: CONC Corr. Factor: 10.000000 User: admin Custom ID1: Custom ID2: Custom ID3: Comment:

Table with 10 columns (Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and 4 rows of data for each element, including Avg, Stddev, %RSD, and #1/#2 values.

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Sample Name: JA51512-6 Acquired: 7/20/2010 9:16:19 Type: Unk Method: Accutest1(v172) Mode: CONC Corr. Factor: 2.000000 User: admin Custom ID1: Custom ID2: Custom ID3: Comment:

Table with 10 columns (Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and 4 rows of data for each element, including Avg, Stddev, %RSD, and #1/#2 values.

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Sample Name: JA51512-7 Acquired: 7/20/2010 9:22:23 Type: Unk Method: Accutest1(v172) Mode: CONC Corr. Factor: 2.000000 User: admin Custom ID1: Custom ID2: Custom ID3: Comment:

Table with 10 columns (Elem, Ba4554, Be3130, Cd2288, Co2286, Cr2677, Cu3247, Mn2576, Ni2316, Ag3280) and 4 rows of data for each element, including Avg, Stddev, %RSD, and #1/#2 values.

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Sample Name: CCB Acquired: 7/20/2010 9:41:04 Type: QC
 Method: Accutest1(v172) Mode: CONC Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	.0002	.0009	.0124	.0010
Stddev	.0001	.0001	.0016	.0001
%RSD	71.36	8.947	13.08	10.24

#1	.0001	.0008	.0136	.0009
#2	.0002	.0009	.0113	.0011

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	158360.	27969.	2600.8	5474.5
Stddev	174.	5.	1.1	6.5
%RSD	.10960	.01731	.04208	.11959

#1	158240.	27966.	2601.6	5479.1
#2	158490.	27972.	2600.1	5469.8

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Ba 455.403 { 74}	<input checked="" type="checkbox"/>	2	Mg	0.000007	0.000000	No
			Al	0.000002	0.000000	No
Be 313.042 {108}	<input checked="" type="checkbox"/>	10	V	0.002230	0.000000	No
			Mo	-0.000037	0.000000	No
			Ti	-0.000570	0.000000	No
			Mn	-0.000033	0.000000	No
			Ba	0.000015	0.000000	No
			Co	0.000010	0.000000	No
			Ni	0.000004	0.000000	No
			Ca	0.000000	0.000000	No
			Cu	0.000034	0.000000	No
			Zn	-0.000010	0.000000	No
Cd 228.802 {448}	<input checked="" type="checkbox"/>	13	As	0.016600	0.000000	No
			Ni	0.000081	0.000000	No
			Fe	0.000008	0.000000	No
			V	0.000061	0.000000	No
			Ba	-0.000047	0.000000	No
			Co	-0.004947	0.000000	No
			Sr	-0.000006	0.000000	No
			Ca	-0.000003	0.000000	No
			Mn	-0.000021	0.000000	No
			Cr	0.000025	0.000000	No
			Si	-0.000005	0.000000	No
			Cu	-0.000026	0.000000	No
			W	-0.000550	0.000000	No
Co 228.616 {448}	<input checked="" type="checkbox"/>	8	Fe	0.000015	0.000000	No
			Cr	-0.000049	0.000000	No
			Mo	-0.001430	0.000000	No
			Ni	0.000356	0.000000	No
			Ti	0.001862	0.000000	No
			Ba	0.000080	0.000000	No
			W	0.000660	0.000000	No
			Cd	-0.000060	0.000000	No
Cr 267.716 {126}	<input checked="" type="checkbox"/>	13	Mn	0.000202	0.000000	No
			V	-0.000022	0.000000	No
			Mo	0.000018	0.000000	No
			Fe	-0.000011	0.000000	No
			W	0.000253	0.000000	No
			Cd	-0.000050	0.000000	No
			Al	0.000000	0.000000	No
			Ca	-0.000001	0.000000	No
			Mg	0.000000	0.000000	No
			Ti	0.000100	0.000000	No
			Sn	0.000000	0.000000	No
			Ba	-0.000005	0.000000	No
			Cu	0.000100	0.000000	No
Cu 324.754 {104}2	<input checked="" type="checkbox"/>	13	Cr	-0.000171	0.000000	No
			V	-0.000183	0.000000	No
			Mo	0.000744	0.000000	No
			Ti	-0.000182	0.000000	No
			Fe	-0.000102	0.000000	No
			Al	0.000000	0.000000	No
			Sn	0.000203	0.000000	No
			Zn	-0.000004	0.000000	No
			Co	-0.000800	0.000000	No
			Zr	-0.000100	0.000000	No
Si	0.000020	0.000000	No			
Mn	0.000000	0.000000	No			
Se	0.000850	0.000000	No			
Mn 257.610 {131}	<input checked="" type="checkbox"/>	3	Fe	-0.000067	0.000000	No
			Si	0.000050	0.000000	No
			Ba	0.000100	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Ni 231.604 (446)	<input checked="" type="checkbox"/>	15	Fe	0.000040	0.000000	No
			Zn	0.000079	0.000000	No
			Be	-0.000087	0.000000	No
			Co	0.000359	0.000000	No
			Tl	0.000209	0.000000	No
			Mg	0.000004	0.000000	No
			Mo	-0.000150	0.000000	No
			V	-0.000032	0.000000	No
			Cu	-0.000050	0.000000	No
			Se	0.000100	0.000000	No
			Al	-0.000001	0.000000	No
			Cr	0.000006	0.000000	No
			Si	-0.000030	0.000000	No
			Sn	0.000079	0.000000	No
			Ba	0.000000	0.000000	No
Ag 328.068 (103)	<input checked="" type="checkbox"/>	9	Mn	0.000110	0.000000	No
			Mo	0.000023	0.000000	No
			Ti	-0.000100	0.000000	No
			Fe	-0.000165	0.000000	No
			V	-0.000800	0.000000	No
			Zr	0.001542	0.000000	No
			Zn	0.000252	0.000000	No
			W	0.000030	0.000000	No
			Ca	-0.000008	0.000000	No
V 292.402 (115)	<input checked="" type="checkbox"/>	6	Ti	0.000430	0.000000	No
			Mo	-0.009610	0.000000	No
			Fe	0.000034	0.000000	No
			Sr	-0.000100	0.000000	No
			Cr	-0.001944	0.000000	No
			Mn	-0.000200	0.000000	No
Zn 206.200 (464)	<input checked="" type="checkbox"/>	12	Cr	-0.001450	0.000000	No
			Mo	-0.000070	0.000000	No
			Fe	0.000038	0.000000	No
			Al	-0.000005	0.000000	No
			Si	-0.000035	0.000000	No
			Mn	0.000205	0.000000	No
			Ba	-0.000010	0.000000	No
			Na	0.000003	0.000000	No
			Ca	0.000012	0.000000	No
			Sr	-0.000833	0.000000	No
			Sn	0.000255	0.000000	No
			Cu	0.000056	0.000000	No
As 189.042 (478)	<input checked="" type="checkbox"/>	20	Al	0.000013	0.000000	No
			Fe	-0.000010	0.000000	No
			Ca	0.000001	0.000000	No
			Mn	0.000127	0.000000	No
			Mo	0.002300	0.000000	No
			Cr	0.000112	0.000000	No
			V	0.000057	0.000000	No
			Co	-0.001358	0.000000	No
			Ba	0.000033	0.000000	No
			W	0.001590	0.000000	No
			Sn	-0.000037	0.000000	No
			Cd	-0.000228	0.000000	No
			Tl	-0.000110	0.000000	No
			Be	-0.000007	0.000000	No
			Mg	0.000000	0.000000	No
			Si	0.000234	0.000000	No
			Zn	-0.000135	0.000000	No
			Sr	-0.000680	0.000000	No
			Pd	0.035230	0.000000	No
			Zr	0.002000	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Tl 190.856 {477}	<input checked="" type="checkbox"/>	22	Cr	0.000380	0.000000	No
			Mo	-0.004690	0.000000	No
			Al	0.000001	0.000000	No
			Fe	-0.000110	0.000000	No
			V	-0.024440	0.000000	No
			Mn	0.001147	0.000000	No
			Si	0.000006	0.000000	No
			Ca	-0.000003	0.000000	No
			Ti	-0.001911	0.000000	No
			Na	0.000000	0.000000	No
			Mg	-0.000001	0.000000	No
			Co	0.002590	0.000000	No
			Sr	-0.000574	0.000000	No
			B	0.000020	0.000000	No
			Ba	-0.000011	0.000000	No
			Zn	0.000217	0.000000	No
			As	-0.000047	0.000000	No
			W	-0.034400	0.000000	No
			Ni	0.000056	0.000000	No
			Cu	0.000022	0.000000	No
			Zr	-0.002000	0.000000	No
			Pb 220.353 {453}	<input checked="" type="checkbox"/>	22	Pd
Al	-0.000123	0.000000				No
Fe	0.000061	0.000000				No
Ca	0.000000	0.000000				No
Mn	0.000063	0.000000				No
Zn	-0.000036	0.000000				No
Mo	-0.002150	0.000000				No
Ni	0.000082	0.000000				No
Cu	0.000960	0.000000				No
V	-0.000088	0.000000				No
Co	-0.000087	0.000000				No
Ti	-0.000043	0.000000				No
Si	0.000095	0.000000				No
Ba	-0.000030	0.000000				No
Sb	-0.000200	0.000000				No
K	0.000000	0.000000				No
Sr	-0.000060	0.000000				No
W	-0.008650	0.000000				No
Mg	0.000002	0.000000				No
Cd	-0.000018	0.000000				No
Cr	0.000022	0.000000				No
Pd	0.000170	0.000000				No
Zr	-0.000500	0.000000	No			
Se 196.090 {472}	<input checked="" type="checkbox"/>	20	Al	-0.000003	0.000000	No
			Ca	0.000003	0.000000	No
			Mn	0.000523	0.000000	No
			Mo	0.000081	0.000000	No
			Fe	-0.000196	0.000000	No
			Co	0.000114	0.000000	No
			V	0.000007	0.000000	No
			Sr	-0.000125	0.000000	No
			Cu	-0.000007	0.000000	No
			W	0.010290	0.000000	No
			Si	0.000011	0.000000	No
			Tl	0.000204	0.000000	No
			Be	-0.000143	0.000000	No
			Zn	-0.000130	0.000000	No
			B	0.000125	0.000000	No
			Pd	-0.001182	0.000000	No
			Ti	-0.000200	0.000000	No
			Cd	-0.000210	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			Zr	-0.000400	0.000000	No
			Ba	-0.000160	0.000000	No
Sb 206.833 {463}	<input checked="" type="checkbox"/>	13	Fe	-0.000009	0.000000	No
			Al	0.000005	0.000000	No
			Ca	-0.000001	0.000000	No
			Ni	-0.001323	0.000000	No
			Cr	0.010673	0.000000	No
			V	-0.002344	0.000000	No
			Zn	0.000188	0.000000	No
			Mo	-0.001190	0.000000	No
			Ti	0.000220	0.000000	No
			Sn	-0.018000	0.000000	No
			W	-0.006080	0.000000	No
			Mg	-0.000001	0.000000	No
			Zr	-0.001300	0.000000	No
Al 396.152 { 85}	<input checked="" type="checkbox"/>	4	Si	0.000976	0.000000	No
			Ca	-0.000680	0.000000	No
			Mo	0.035910	0.000000	No
			Zr	-0.031182	0.000000	No
Ca 317.933 {106}	<input checked="" type="checkbox"/>	13	Fe	0.000350	0.000000	No
			Ti	0.000560	0.000000	No
			W	0.023000	0.000000	No
			Tl	0.004950	0.000000	No
			Be	-0.003800	0.000000	No
			Ba	-0.003500	0.000000	No
			Cu	0.001200	0.000000	No
			Cd	0.008700	0.000000	No
			Ni	-0.005000	0.000000	No
			Pd	0.097700	0.000000	No
			Mn	0.000000	0.000000	No
			B	0.021790	0.000000	No
			Se	0.017000	0.000000	No
Fe 259.940 {130}	<input checked="" type="checkbox"/>	13	Co	0.000004	0.000000	No
			Si	-0.001181	0.000000	No
			Tl	-0.002602	0.000000	No
			Se	0.000000	0.000000	No
			Cr	-0.000566	0.000000	No
			Mn	0.000000	0.000000	No
			V	-0.000064	0.000000	No
			Cu	0.000953	0.000000	No
			K	-0.001830	0.000000	No
			Zn	0.007900	0.000000	No
			Tl	-0.000631	0.000000	No
			Ca	0.000020	0.000000	No
			Ba	0.001000	0.000000	No
Mg 279.079 {121}	<input checked="" type="checkbox"/>	3	Mo	-0.010250	0.000000	No
			W	-0.006578	0.000000	No
			Mn	-0.005360	0.000000	No
K 766.490 { 44}	<input checked="" type="checkbox"/>	11	Fe	-0.000340	0.000000	No
			Al	-0.000023	0.000000	No
			Ca	0.000179	0.000000	No
			Mn	0.001430	0.000000	No
			Si	-0.003000	0.000000	No
			V	-0.002000	0.000000	No
			Pd	0.004000	0.000000	No
			Sn	-0.004700	0.000000	No
			Na	-0.004000	0.000000	No
			Ba	0.007300	0.000000	No
			Mo	-0.000850	0.000000	No
Na 589.592 { 57}	<input checked="" type="checkbox"/>	4	K	-0.000560	0.000000	No
			Ba	0.000900	0.000000	No
			Ca	-0.001200	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
B 208.959 {462} Mo 202.030 {467}	<input checked="" type="checkbox"/>	1	Al	-0.000800	0.000000	No
			Mo	0.017990	0.000000	No
			Co	0.000600	0.000000	No
			Al	0.000016	0.000000	No
			Fe	-0.000010	0.000000	No
Pd 340.458 { 99}	<input checked="" type="checkbox"/>	7	Mg	-0.000026	0.000000	No
			Ca	0.000028	0.000000	No
			Ti	-0.000339	0.000000	No
			V	0.000132	0.000000	No
			Sn	-0.000006	0.000000	No
			Fe	0.000026	0.000000	No
			Mo	-0.001720	0.000000	No
Si 212.412 {459}	<input checked="" type="checkbox"/>	11	Zr	-0.137300	0.000000	No
			Co	-0.003300	0.000000	No
			Sr	0.000366	0.000000	No
			Ni	0.000106	0.000000	No
			Mo	0.014750	0.000000	No
			V	-0.000260	0.000000	No
			Ti	0.004730	0.000000	No
			Al	-0.000027	0.000000	No
			Cd	0.001043	0.000000	No
			Ba	0.000170	0.000000	No
			Fe	0.000044	0.000000	No
Sn 189.989 {478}	<input checked="" type="checkbox"/>	5	Sn	0.005721	0.000000	No
			Zn	0.000385	0.000000	No
			Ti	-0.000590	0.000000	No
			Mo	0.000071	0.000000	No
			Fe	0.000043	0.000000	No
Sr 407.771 { 83}	<input checked="" type="checkbox"/>	2	Mn	0.000501	0.000000	No
			Si	0.000131	0.000000	No
			Fe	0.000000	0.000000	No
Ti 334.904 {101}	<input checked="" type="checkbox"/>	3	Ca	0.000020	0.000000	No
			Cr	0.000189	0.000000	No
			Mo	0.001417	0.000000	No
Y 360.073 { 94}* Y 371.030 { 91}* Y 224.306 {451}* In 230.606 {446}* W 207.911 {462}	<input checked="" type="checkbox"/>	None	Si	0.000965	0.000000	No
			Al	-0.000018	0.000000	No
			Si	-0.000900	0.000000	No
			Ca	-0.000026	0.000000	No
			Fe	-0.000077	0.000000	No
			As	0.005400	0.000000	No
			Mg	-0.000006	0.000000	No
			Mn	-0.000900	0.000000	No
			Mo	-0.000900	0.000000	No
			Ti	-0.002000	0.000000	No
			Sr	-0.000850	0.000000	No
V 200.430 { 99}	<input checked="" type="checkbox"/>	None	V	-0.001300	0.000000	No
			Cd	-0.000650	0.000000	No
			Cr	-0.000880	0.000000	No
			Zn	0.006121	0.000000	No
			Pd	-0.011600	0.000000	No
			Sn	-0.000500	0.000000	No
			Zr	0.005930	0.000000	No
			B	-0.001000	0.000000	No
			Sb	-0.001000	0.000000	No
			Co	0.001000	0.000000	No
			Ni	-0.001000	0.000000	No
			Be	-0.001000	0.000000	No
			Se	-0.001100	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			Cu	-0.001300	0.000000	No
			Ba	-0.001000	0.000000	No
Zr 339.198 { 99}	<input checked="" type="checkbox"/>	3	Mo	0.000700	0.000000	No
			Ti	-0.000100	0.000000	No
			Fe	-0.000060	0.000000	No

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Aqueous Digestion Log MP Batch ID: MP53708

CP DIGESTION METHOD: SW846 3010A

Digestion Method: Digestion Block

Method Blank ID:	<u>MP53708</u>	Prep Date:	<u>7/14/10</u>
Lab Control/Spike Blank ID:	Start Time: <u>9:00</u>	Start Temp:	<u>92+0-92</u> Thermometer ID #: <u>142</u>
Lab Control Source:	End Time: <u>3:00</u>	End Temp:	<u>95+0=93</u>
DUP 1 Sample ID:	Acceptable temperature Ranges:		
DUP 2 Sample ID:	EPA 200.7	90 to 95 deg. C	
MS 1 Sample ID: <u>1,2 JA50921-2</u>	SW846 3010A, 3020A, 3050B	90 to 95 deg. C	
MS 2 Sample ID: <u>3,4 JA50921-2F</u>			

Note: Serial dilution shown for QC tracking only. Not a separate digestate.

Sample ID	Pres Y/N	Initial Sample Volume	Final Volume in ML	Acids Used		Spikes Used		Comments
				Amount and Name	Added Y or N	Amount and Name	Added Y or N	
VP 53708-MB 1	N	50	50	3.0 ml conc. HNO3	✓			
VP 53708-LC 1	Y	50	50	5.0 ml 1:1 HCL	✓			
VP 53708-S 1,2						0.50 ml SP, 0.50 ml MIN1	✓	
VP 53708-S 3,4						0.50 ml SP, 0.50 ml MIN1	✓	
VP 53708-SD 1,2								
VP -B								
1 JA50236-1								
2 -2								
3 -3								
4 -4								
5 -5								
6 -6								
7 -7								
8 -8								
9 JA50921-1								
10 -2								
11 -3								
12 -4								
13 -1F								
14 -2F								
15 -3F								
16 ✓ -4F								
17 JA50762-1								
18 -2								
19 ✓ -3								
20								

RH 7/14/10

Analyst: Ronnie Han 7/14/10 QC Reviewer: Nancy 7/14/10



General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries
- Instrument Runlogs/QC

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JA50921
Account: HWINJM - Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chromium, Hexavalent	GN39697	0.010	0.0	mg/l	.15	0.15	100.0	90-110%

Associated Samples:

Batch GN39697: JA50921-1, JA50921-1F, JA50921-2, JA50921-2F, JA50921-3, JA50921-3F, JA50921-4, JA50921-4F
(*) Outside of QC limits

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DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JA50921
Account: HWINJM - Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chromium, Hexavalent	GN39697	JA50921-2F	mg/l	0.0	0.0	0.0	0-20%
Chromium, Hexavalent	GN39697	JA50921-2	mg/l	0.0	0.0	0.0	0-20%

Associated Samples:

Batch GN39697: JA50921-1, JA50921-1F, JA50921-2, JA50921-2F, JA50921-3, JA50921-3F, JA50921-4, JA50921-4F
(*) Outside of QC limits

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MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JA50921
Account: HWINJM - Honeywell International Inc.
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chromium, Hexavalent	GN39697	JA50921-2F	mg/l	0.0	.15	0.14	93.3	85-115%
Chromium, Hexavalent	GN39697	JA50921-2	mg/l	0.0	.15	0.12	80.0N(a)	85-115%

Associated Samples:

Batch GN39697: JA50921-1, JA50921-1F, JA50921-2, JA50921-2F, JA50921-3, JA50921-3F, JA50921-4, JA50921-4F

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(a) Spike recovery indicates possible matrix interference. Good pH adjusted post spike recovery (96.7%)

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General Chemistry

Raw Data



Test: Hexavalent Chromium
 Product: XCr
 Method: SW846 7196A (NJDEP mod)

MDL = 0.002 mg/l
 RDL = 0.010 mg/l

GNBatch ID: GN 39697
 Date: 7/8/10

Digestion Batch QC Summary

Units = mg/l

Method Blank ID: NB1 Date: 7/8/10 Result: 0 RDL: 0.010 <RDL: YES
 Spike Blank ID: B1 Date: ↓ Result: 0.147 Spike: 0.150 %Rec.: 98%
 Duplicate ID: (D1) JASDB71-1 Samp. Result: 0 Dup. Result: 0 %RPD: 0
 MS ID: (S1) ↓ Samp. Result: 0 MS Result: 0.149 Spike: 0.150 %Rec.: 99.3%
 Diluted Sample ID: (D2) JASDB80-2 Samp. Result: 1.257 Dil. Result: 1.257 %RPD: 0
 pH adj. PS ID: (S2) ↓ Samp. Result: 1.257 MS Result: 4.237 Spike: 2.600 %Rec.: 114.6%

Analysis Batch QC Summary

Units = mg/l

CCV: 7/8/10 Result: 0.500 TV: 0.500 %Rec.: 100%
 CCV: ↓ Result: 0.500 TV: ↓ %Rec.: ↓
 CCV: ↓ Result: 0.500 TV: ↓ %Rec.: ↓
 CCV: ↓ Result: 0.499 TV: ↓ %Rec.: ↓
 CCV: ↓ Result: 0.499 TV: ↓ %Rec.: ↓
 CCV: ↓ Result: 0.499 TV: ↓ %Rec.: ↓
 CCB: 7/8/10 Result: <0.010 RDL: 0.010 <RDL: YES
 CCB: ↓ Result: ↓ RDL: ↓ <RDL: ↓
 CCB: ↓ Result: ↓ RDL: ↓ <RDL: ↓
 CCB: ↓ Result: ↓ RDL: ↓ <RDL: ↓
 CCB: ↓ Result: ↓ RDL: ↓ <RDL: ↓
 CCB: ↓ Result: ↓ RDL: ↓ <RDL: ↓

Reagent Reference Numbers:

SEE ATTACHED.

Initial Calibration Source:

Continuing Calibration Source:

Analyst: PA Date: 7/8/10

Comments: _____

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Test: Hexavalent Chromium
 Product: XCr
 Method: SW846 7196A (NJDEP mod)

MDL = 0.002 mg/l
 RDL = 0.010 mg/l

GNBatch ID: SN 39697
 Date: 7/8/10

Digestion Batch QC Summary Units = mg/l

Method Blank ID: / Date: / Result: / RDL: 0.010 <RDL: /

Spike Blank ID: / Date: / Result: / Spike: 0.150 %Rec.: /

Duplicate ID: (23) J700781-6 Samp. Result: 0 Dup. Result: 0 %RPD: 0

MS ID: (2) Samp. Result: 0 MS Result: 0.002 Spike: 0.100 %Rec.: 1.33 %

Diluted Sample ID: Samp. Result: 0 Dil. Result: <0.010 %RPD: 0

pH adj. PS ID: Samp. Result: 0 MS Result: 0.014 Spike: 0.100 %Rec.: 9.33 %

Analysis Batch QC Summary Units = mg/l

CCV: Result: TV: 0.500 %Rec.:

CCV: Result: TV: %Rec.:

CCV: Result: TV: %Rec.:

CCV: Result: TV: %Rec.:

CCV: Result: TV: %Rec.:

CCV: Result: TV: %Rec.:

CCB: Result: RDL: 0.010 <RDL:

CCB: Result: RDL: <RDL:

CCB: Result: RDL: <RDL:

CCB: Result: RDL: <RDL:

CCB: Result: RDL: <RDL:

CCB: Result: RDL: <RDL:

Reagent Reference Numbers: SEE ATTACHED.

Initial Calibration Source:

Continuing Calibration Source:

Analyst: RA Date: 7/8/10

Comments:

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 8



Test: Hexavalent Chromium
 Product: XCr
 Method: SW846 7196A (NJDEP mod)

MDL = 0.002 mg/l
 RDL = 0.010 mg/l

GNBatch ID: 54,39,697
 Date: 7/8/10

Digestion Batch QC Summary Units = mg/l

Method Blank ID: / Date: / Result: / RDL: 0.010 <RDL: /

Spike Blank ID: / Date: / Result: / Spike: 0.150 %Rec.: /

Duplicate ID: (D4) JA50921-2E Samp. Result: <0.002 Dup. Result: <0.002 %RPD: 0

MS ID: (S4) ↓ Samp. Result: <0.002 MS Result: 0.143 Spike: 0.150 %Rec.: 95.3%

Diluted Sample ID: / Samp. Result: / Dil. Result: / %RPD: /

pH adj. PS ID: / Samp. Result: / MS Result: / Spike: / %Rec.: /

Analysis Batch QC Summary Units = mg/l

CCV: Result: TV: 0.500 %Rec.:

CCV: Result: TV: %Rec.:

CCV: Result: TV: %Rec.:

CCV: Result: TV: %Rec.:

CCV: Result: TV: %Rec.:

CCV: Result: TV: %Rec.:

CCB: Result: RDL: 0.010 <RDL:

CCB: Result: RDL: <RDL:

CCB: Result: RDL: <RDL:

CCB: Result: RDL: <RDL:

CCB: Result: RDL: <RDL:

CCB: Result: RDL: <RDL:

Reagent Reference Numbers: SEE ATTACHED.

Initial Calibration Source:

Continuing Calibration Source:

Analyst: RA Date: 7/8/10

Comments:

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Test: Hexavalent Chromium
 Product: XCr
 Method: SW846 7196A (NJDEP mod)

MDL = 0.002 mg/l
 RDL = 0.010 mg/l

GNBatch ID: GN 39697
 Date: 7/8/10

Digestion Batch QC Summary Units = mg/l

Method Blank ID: / Date: / Result: / RDL: 0.010 <RDL: /

Spike Blank ID: Date: Result: Spike: 0.150 %Rec.:

Duplicate ID: (25) JAN0921-2 Samp. Result: 0 Dup. Result: 0 %RPD: 0

MS ID: (35) Samp. Result: 0 MS Result: 0.120 Spike: 0.150 %Rec.: 80%

Diluted Sample ID: Samp. Result: 0 Dil. Result: 0 %RPD: 0

pH adj. PS ID: Samp. Result: 0 MS Result: 0.145 Spike: 0.150 %Rec.: 96.7%

Analysis Batch QC Summary Units = mg/l

CCV: Result: TV: 0.500 %Rec.:

CCV: Result: TV: %Rec.:

CCV: Result: TV: %Rec.:

CCV: Result: TV: %Rec.:

CCV: Result: TV: %Rec.:

CCV: Result: TV: %Rec.:

CCB: Result: RDL: 0.010 <RDL:

CCB: Result: RDL: <RDL:

CCB: Result: RDL: <RDL:

CCB: Result: RDL: <RDL:

CCB: Result: RDL: <RDL:

CCB: Result: RDL: <RDL:

Reagent Reference Numbers: SEE ATTACHED.

Initial Calibration Source:

Continuing Calibration Source:

Analyst: PA Date: 7/8/10

Comments:

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Hexavalent Chromium pH Adjustment Log
Method: SW846 7196A (NJDEP mod)

pH adj. start time: 1942
 pH adj. end time: 2009

pH Adjust. Date: 7/8/10
 GN Batch ID: GN39697

Sample ID	Initial Sample Volume (ml)	Final Volume (ml)	pH after H2SO4	bkg pH after H2SO4	Spike Info	Comments
CCV	45	50	1.89	-	5 ML	5 ppm ULTRA
CCV						
CCV						
CCV						
CCB	45	50	1.94	-		
CCB						
CCB						
MS (S1) JAND871-1	45	50	2.06	1.85	1 ML	7.5 ppm ABSOLUTE
DUP (D1) ↓			1.98	1.83		
SB			2.01	1.80	1 ML	7.5 ppm ABSOLUTE
PB			1.94	1.75		
1. JAND871-1			1.95	1.77		
2. (S2) JAND880-2			1.93	1.89	(1:10 DIL)	0.13 ML OF 100 ppm ABSOLUTE
3. (D2) ↓			1.91	1.81		1:5 DIL.
4. JAND880-1			1.87	OVR		
5. ↓ -2			1.89	OVR		
6. ↓ -1			1.92	1.85		1:25 DIL.
7. ↓ -2			1.95	1.91		1:5 DIL.
8. (S3) JAND81-6			1.93	1.92		
9. (D3) ↓			1.99	1.92		
10. JAND81-4			2.12	1.90	TURBID	FILTERED W/ 0.45 μm AFTER H2SO4 pH.
11. ↓ -5			1.90	1.87	TURBID	FILTERED W/ 0.45 μm AFTER H2SO4 pH.
12. ↓ -8			1.95	1.80		
13. JAND81-4			1.96	1.79		1:50 DIL.
14.						
15.						
16.						
17.						
18.						
19.						
20.						
PS JAND81-6	45	50	1.89	1.75	(pH = 8.47) 1 ML	7.5 ppm ABSOLUTE
DIL ↓	45	50	1.93	1.79		1:5
DIL						

Reagent Information: SEE ATTACHED.

Analyst: RA Date: 7/8/10 QC Reviewer: _____ Date: _____

Form: GN-077
 Rev. Date: 2/11/99

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Hexavalent Chromium pH Adjustment Log
Method: SW846 7196A (NJDEP mod)

pH adj. start time: 2/10
 pH adj. end time: 2/31

pH Adjust. Date: 7/8/10
 GN Batch ID: 5N39697

Sample ID	Initial Sample Volume (ml)	Final Volume (ml)	pH after H2SO4	bkg pH after H2SO4	Spike Info	Comments
CCV	YS	JD	1.86	-	5 ML	5 ppm ULTRA
CCV						
CCV						
CCV						
CCB	YS	JD	1.92	-		
CCB						
CCB						
CCB						
MS (S) JAJ0921-2F	YS	JD	1.87	1.82	1 ML	7.5 ppm ABSOLUTE
DUP (D) ↓	↓	↓	1.90	1.80		
SB						
PB			L ⁹			
1. JAJ0921-1F	YS	JD	1.83	1.79		
2. -2F			2.01	1.75		
3. -3F			1.96	1.76		
4. -4F			1.92	1.83		
5. -1			1.93	1.82		
6. -2			1.85	1.84		
7. -3			1.91	1.81		
8. -4			1.92	1.77		
9. (S) JAJ0921-2	↓	↓	1.89	1.79	1 ML	7.5 ppm ABSOLUTE
10. (D) ↓	↓	↓	1.95	1.82		
11.						
12.						
13.						
14.						
15.						
16.						
17.						
18.						
19.						
20.						
PS JAJ0921-2	YS	JD	1.83	1.79	(pH = 8.48) 1 ML	7.5 ppm ABSOLUTE
DIL ↓	YS	JD	1.87	1.80		1.5
DIL						

Reagent Information: SEE ATTACHED.

Analyst: RA Date: 7/8/10 QC Reviewer: _____ Date: _____

Form: GN-077
 Rev. Date: 2/11/99

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Hexavalent Chromium pH Adjustment Log

Method: SW846 7196A (NJDEP mod)

pH adj. start time: 7:06

pH adj. end time: 7:15

pH Adjust. Date: 7/8/10

GN Batch ID: GN 39697

Sample ID	Initial Sample Volume (ml)	Final Volume (ml)	pH after H2SO4	Comments	Spike Info.
Calibration Blank	45	50	2.05		
0.010 mg/l standard	↓	↓	2.01	5 PPM ABSOLUTE	0.10 ml of 5 mg/l to 50 ml FV
0.050 mg/l standard	↓	↓	1.99		0.50 ml of 5 mg/l to 50 mL FV
0.100 mg/l standard	↓	↓	2.11		1.00 ml of 5 mg/l to 50 mL FV
0.300 mg/l standard	↓	↓	1.96		3.00 ml of 5 mg/l to 50 mL FV
0.500 mg/l standard	↓	↓	2.01		5.00 ml of 5 mg/l to 50 mL FV
0.800 mg/l standard	↓	↓	1.93		8.00 ml of 5 mg/l to 50 mL FV
1.00 mg/l standard	↓	↓	2.04		10.0 ml of 5 mg/l to 50 mL FV
2.00 mg/l standard					20.0 ml of 5 mg/l to 50 mL FV

Reagent Information: SEE ATTACHED.

Analyst: RA Date: 7/8/10

Ref: SW 846



GN 39697

Reagent Information Log - XCR - water - 7196A

<u>Reagent</u>	<u>Exp. Date</u>	<u>Reagent # or Manufacturer/Lot</u>
Calibration Source: Hexavalent Chromium, 1000 mg/L Stock	1/20/2013	Absolute Grade Lot# 012010
Calibration Checks: Hexavalent Chromium, 1000 mg/L Stock	7/31/2015	Ultra Scientific Lot# J00509
External Check	N/A	N/A
Spiking Solution Source	1/20/2013	Absolute Grade Lot# 012010
Diphenyl carbazide Solution	8/7/2010	GNE7-25500-XCR
Sulfuric Acid, 10%	12/9/2010	gne6-25226-xcr

Form: GN087A-23
Rev. Date: 10/3/05

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To: Ed Gaven/Vanthuy Lieu, MACTEC Engineering and Consulting, Inc.
 From: Christina Jensen, Validata, LLC
 Re: Honeywell Hudson County Data Validation
 Date: August 15, 2010

This memorandum discusses the results of the data validation of analytical data in Sample Delivery Group (SDG) JA48997 provided by Accutest Laboratory, located in Dayton, New Jersey, for samples collected as part of the Honeywell Hudson County project. No samples were rejected as a result of the data validation process. Appendix A contains the Sample Summary Table, Appendix B contains a list of the State of New Jersey Department of Environmental Protection (NJDEP) data validation footnotes, and Appendix C contains copies of the completed data validation report forms.

The validation for samples in this SDG was performed by Christina Jensen, Validata, LLC. The following table lists the samples that were included in this SDG.

Samples

Table 1-1. *Sample cross-reference list*

Sampling Date	Field Sample ID	Lab Sample ID	Sample Analyses
5/17/2009	079-SB-035-0506A	JA48997-9	E376.1, SM2540G
6/13/2010	079-SB-029-0506A	JA48997-1	E376.1, SM2540G
6/13/2010	079-SB-029-0809A	JA48997-2	E376.1, SM2540G
6/13/2010	079-SB-030-0001A	JA48997-3	E376.1, SM2540G
6/13/2010	079-SB-030-0405A	JA48997-4	E376.1, SM2540G
6/13/2010	079-SB-034-0203A	JA48997-5	E376.1, SM2540G
6/13/2010	079-SB-034-0405A	JA48997-6	E376.1, SM2540G
6/13/2010	079-SB-034-0506A	JA48997-7	E376.1, SM2540G
6/13/2010	079-SB-035-0405A	JA48997-8	E376.1, SM2540G
6/13/2010	079-SB-035-0607A	JA48997-10	E376.1, SM2540G
6/13/2010	079-SB-036-0405A	JA48997-15	ASTM D1498, SM2540G, SW9045
6/13/2010	079-SB-036-0405A	JA48997-15AR	SW7199
6/13/2010	079-SB-036-0506A	JA48997-16	ASTM D1498, SM2540G, SW9045
6/13/2010	079-SB-036-0506A	JA48997-16A	SW7199
6/13/2010	079-SB-036-0607A	JA48997-17	ASTM D1498, SM2540G, SW9045
6/13/2010	079-SB-036-0607A	JA48997-17A	SW7199
6/13/2010	079-SB-036-0708A	JA48997-18	ASTM D1498, SM2540G, SW9045
6/13/2010	079-SB-036-0708A	JA48997-18A	SW7199
6/13/2010	079-SB-036-0809A	JA48997-19	ASTM D1498, SM2540G, SW9045
6/13/2010	079-SB-036-0809A	JA48997-19AR	SW7199
7/13/2009	079-SB-036-0001	JA48997-11	ASTM D1498, SM2540G, SW9045
7/13/2009	079-SB-036-0001	JA48997-11A	SW7199
7/13/2009	079-SB-036-0102	JA48997-12	ASTM D1498, SM2540G, SW9045
7/13/2009	079-SB-036-0102	JA48997-12A	SW7199
7/13/2009	079-SB-036-0203	JA48997-13	ASTM D1498, SM2540G, SW9045
7/13/2009	079-SB-036-0203	JA48997-13A	SW7199
7/13/2009	079-SB-036-0304	JA48997-14	ASTM D1498, SM2540G, SW9045
7/13/2009	079-SB-036-0304	JA48997-14A	SW7199

Validation Level

The level of validation for this SDG is level V for hexavalent chromium. The remaining sulfide was validated to level III.

References

The samples collected for the project were analyzed in accordance with the following methods:

- USEPA 1986. *Test Methods for Evaluating Solid Waste*, SW-846, 3rd Edition, USEPA, Washington, D.C.

The data validation procedures were consistent with those specified in the NJDEP validation guidelines listed below:

-
- NJDEP. 2001. *Standard Operating Procedure for the Completion of the Data Validation Report Forms and the Preparation of the Final Data Validation Report*, SOP No. 5.A.15, Trenton, New Jersey;
- NJDEP. 2005. *Standard Operating Procedure for Analytical Data Validation of Hexavalent Chromium*, SOP No. 5.A.10, Revision 2, Trenton, New Jersey; and
- NJDEP. 2001. *Standard Operating Procedure for the Completion of the Hexavalent Chromium Data Validation Report Forms and the Preparation of the Final Data Validation Report*, SOP No. 5.A.09 Trenton, New Jersey.

Sample Summary Table

The Sample Summary Table provided in Appendix A contains only detected and/or qualified data. Results that were non-detect for an analyte were not included in the table.

Validation Footnotes

Appendix B contains the footnotes used for this project and shall remain consistent throughout the validation. The footnote(s) assigned will not be sequential. Specific footnote(s) used during the validation will be provided in Appendix B.

Chain-of-Custody Documentation

The custody documentation was complete for this SDG.

Major Deficiencies

There were no major deficiencies identified with the data.

Minor Deficiencies and Completeness

Minor deficiencies identified during validation are summarized per analytical method as follows:

Sulfide by E376.1

No qualification to the data was made. Data usability is the number of usable (non-rejected) sample results divided by the total number of sample results for each type of analysis times 100. Data usability has been determined to be 100%.

Hexavalent Chromium by SW7199

Samples in batch gp54481 were qualified as estimated and assigned footnote H8 to indicate laboratory duplicate precision exceedance. Data usability is the number of usable (non-rejected) sample results divided by the total number of sample results for each type of analysis times 100. Data usability has been determined to be 100%.

Data Assessment Summary

Overall, the laboratory performed the analyses in accordance with the requirements set forth in the methods.

Data Usability

Based on the validation of data, it has been determined that 100% of the data are usable as qualified. The analytical data are of sufficient quality to be used for qualitative and quantitative purposes.

APPENDIX A

Sample Summary Table

TARGET AND NON-TARGET ANALYTE SUMMARY

Accutest

Sampling Date 6/13/10

Fraction: Wet Chemistry, Inorganics

SDG: JA48997

NJDEP SRP No.

Matrix: Soil

Fraction	Dilution Factor	Field Sample ID	Laboratory Sample ID	Parameter	Units	Method Blank Result	Lab Concentration & Qualifiers	QA Reported	QA Decision	NJDEP Footnote
E376.1	1	079-SB-029-0506A	JA48997-1	Sulfide, Neutral Extractior	mg/kg	4.0U	11.4	11.4		
SM2540G	1	079-SB-029-0506A	JA48997-1	Solids, Percent	%	NA	51.5	51.5		
SM2540G	1	079-SB-035-0607A	JA48997-10	Solids, Percent	%	NA	38.2	38.2		
ASTM D1498	1	079-SB-036-0001	JA48997-11	Redox Potential Vs H2	mv	NA	459	459		
SM2540G	1	079-SB-036-0001	JA48997-11	Solids, Percent	%	NA	87.7	87.7		
SW9045	1	079-SB-036-0001	JA48997-11	pH	s.u.	NA	8.07	8.07		
SW7199	1	079-SB-036-0001	JA48997-11A	Chromium, Hexavalent	mg/kg	0.088	0.74	0.74		
ASTM D1498	1	079-SB-036-0102	JA48997-12	Redox Potential Vs H2	mv	NA	426	426		
SM2540G	1	079-SB-036-0102	JA48997-12	Solids, Percent	%	NA	72.5	72.5		
SW9045	1	079-SB-036-0102	JA48997-12	pH	s.u.	NA	7.89	7.89		
ASTM D1498	1	079-SB-036-0203	JA48997-13	Redox Potential Vs H2	mv	NA	396	396		
SM2540G	1	079-SB-036-0203	JA48997-13	Solids, Percent	%	NA	87	87		
SW9045	1	079-SB-036-0203	JA48997-13	pH	s.u.	NA	8.02	8.02		
ASTM D1498	1	079-SB-036-0304	JA48997-14	Redox Potential Vs H2	mv	NA	398	398		
SM2540G	1	079-SB-036-0304	JA48997-14	Solids, Percent	%	NA	86.2	86.2		
SW9045	1	079-SB-036-0304	JA48997-14	pH	s.u.	NA	7.44	7.44		
SW7199	1	079-SB-036-0304	JA48997-14A	Chromium, Hexavalent	mg/kg	0.048	1.1	1.1		
ASTM D1498	1	079-SB-036-0405A	JA48997-15	Redox Potential Vs H2	mv	NA	400	400		
SM2540G	1	079-SB-036-0405A	JA48997-15	Solids, Percent	%	NA	80.8	80.8		
SW9045	1	079-SB-036-0405A	JA48997-15	pH	s.u.	NA	7.26	7.26		
SW7199	5	079-SB-036-0405A	JA48997-15AR	Chromium, Hexavalent	mg/kg	0.4 UU	66.5J	66.5J	Qualified	H8
ASTM D1498	1	079-SB-036-0506A	JA48997-16	Redox Potential Vs H2	mv	NA	421	421		
SM2540G	1	079-SB-036-0506A	JA48997-16	Solids, Percent	%	NA	82.1	82.1		
SW9045	1	079-SB-036-0506A	JA48997-16	pH	s.u.	NA	7.73	7.73		
SW7199	1	079-SB-036-0506A	JA48997-16A	Chromium, Hexavalent	mg/kg	0.088	13.5	13.5		
ASTM D1498	1	079-SB-036-0607A	JA48997-17	Redox Potential Vs H2	mv	NA	421	421		
SM2540G	1	079-SB-036-0607A	JA48997-17	Solids, Percent	%	NA	83	83		
SW9045	1	079-SB-036-0607A	JA48997-17	pH	s.u.	NA	7.65	7.65		
SW7199	5	079-SB-036-0607A	JA48997-17A	Chromium, Hexavalent	mg/kg	0.088	65.8	65.8		
ASTM D1498	1	079-SB-036-0708A	JA48997-18	Redox Potential Vs H2	mv	NA	418	418		
SM2540G	1	079-SB-036-0708A	JA48997-18	Solids, Percent	%	NA	81	81		
SW9045	1	079-SB-036-0708A	JA48997-18	pH	s.u.	NA	7.56	7.56		
SW7199	5	079-SB-036-0708A	JA48997-18A	Chromium, Hexavalent	mg/kg	0.088	57.1	57.1		
ASTM D1498	1	079-SB-036-0809A	JA48997-19	Redox Potential Vs H2	mv	NA	416	416		
SM2540G	1	079-SB-036-0809A	JA48997-19	Solids, Percent	%	NA	79.5	79.5		
SW9045	1	079-SB-036-0809A	JA48997-19	pH	s.u.	NA	7.39	7.39		
SW7199	1	079-SB-036-0809A	JA48997-19AR	Chromium, Hexavalent	mg/kg	0.4 UU	16.2J	16.2J	Qualified	H8
SM2540G	1	079-SB-029-0809A	JA48997-2	Solids, Percent	%	NA	81.9	81.9		
SM2540G	1	079-SB-030-0001A	JA48997-3	Solids, Percent	%	NA	89.3	89.3		
SM2540G	1	079-SB-030-0405A	JA48997-4	Solids, Percent	%	NA	89.1	89.1		
SM2540G	1	079-SB-034-0203A	JA48997-5	Solids, Percent	%	NA	86.2	86.2		
SM2540G	1	079-SB-034-0405A	JA48997-6	Solids, Percent	%	NA	59.2	59.2		
SM2540G	1	079-SB-034-0506A	JA48997-7	Solids, Percent	%	NA	84.1	84.1		
SM2540G	1	079-SB-035-0405A	JA48997-8	Solids, Percent	%	NA	72.7	72.7		
SM2540G	1	079-SB-035-0506A	JA48997-9	Solids, Percent	%	NA	64.9	64.9		

APPENDIX B

NJDEP Qualifiers

Reason Code	Description
H8	In the Duplicate Sample Analysis, Hexavalent Chromium fell outside the control limits of + 20 percent or + 2ppm. Therefore, the result was qualified.

APPENDIX C

**NJDEP Validation Forms,
Other Validation Forms.**

DATA DELIVERABLE REQUIREMENTS
for
HEXAVALENT CHROMIUM

SRP No. _____
Site Name Honeywell Hudson County
Location Edison, NJ
Laboratory Name Accutest

SDG JAY8997
Site Manager Ed Gaven/Maria Kaouris

Reviewer Christina Jensen
Date of Review 8/16/10

Lead Division/Bureau NJDEP
Methodology SW3060 7196 (7199)

GENERAL REQUIREMENTS: Circle YES or NO and list the deviations at the bottom:

- | | | | |
|----------------------------|---|----------------------------|---|
| A. Permanently Bound | Yes <input type="radio"/> No <input checked="" type="radio"/> | G. Methodology Review | Yes <input checked="" type="radio"/> No <input type="radio"/> |
| B. Paginated | Yes <input checked="" type="radio"/> No <input type="radio"/> | H. Uninitialed Strikeovers | Yes <input type="radio"/> No <input checked="" type="radio"/> |
| C. Title Page | Yes <input checked="" type="radio"/> No <input type="radio"/> | I. Legible Xerox | Yes <input checked="" type="radio"/> No <input type="radio"/> |
| D. Table of Contents | Yes <input checked="" type="radio"/> No <input type="radio"/> | J. Consistent Dates | Yes <input checked="" type="radio"/> No <input type="radio"/> |
| E. Chain of Custody | Yes <input checked="" type="radio"/> No <input type="radio"/> | | |
| F. Non-conformance Summary | Yes <input checked="" type="radio"/> No <input type="radio"/> | | |

Describe any deviations from the requirements _____

INSTRUMENT CALIBRATION CURVE
and
CALIBRATION CHECK STANDARD (CCS)

ASSOCIATED SAMPLES

all

1. Was the instrument properly standardized?
If no, explain and list action.

Yes

No

2. Was the CCS analyzed at the proper frequency?
If no, explain and list action.

Yes

No

3. Was the same CCS concentration used throughout the analysis?
If no, list action.

Yes

No

4. Does the CCS standard meet the QC requirements of 90-110% recovery?
If no, list the % recovery, and action.

Yes

No

5. Show calculation for the % recovery of Hexavalent Chromium in the CCS standard.

$$.25 / .25 = 1$$

Lab value 1.00

CALIBRATION BLANKS

ASSOCIATED SAMPLES all

1. Was the calibration blank analyzed before the instrument's initial calibration standards?
 Yes No

If no, list action. _____

2. Was a calibration blank analyzed after the calibration check standard?
 Yes No

If no, list associated samples and action. _____

3. Was the value of Hexavalent Chromium for the continuing calibration blank below the MDL?
 Yes No

If no, list associated samples and qualify them. _____

PREPARATION/REAGENT BLANK SUMMARY

Preparation/Reagent Blank ID gpp 54306, gpp 54307 gpp 54481,

Sample matrix: Soil Water
Units: mg/kg ug/L

Does the frequency of the preparation/reagent blank analysis meet method requirements?

Yes No

If no, explain and note action _____

ANALYTE	CONCENTRATION	< MDL	>IDL	COMMENTS / ACTION
<u>0</u>				

ASSOCIATED SAMPLES

all

PREDIGESTION SPIKE ANALYSIS

JAL 18497 - 15A, 15AN 80.8

Spike Analysis performed on sample JAL 18497 - 11A Solids 87.7

Sample matrix: Soil

Units: mg/kg

ASSOCIATED SAMPLES all

1. Was the predigestion spike analysis performed at the correct frequency?

Yes No

If no, note deviations and action _____

2. Was the predigestion spike analysis performed on a field sample?

Yes No

If no, reject all associated samples. _____

3. Was the predigestion spike analysis performed at the proper concentration?

Yes No

If no, qualify the associated samples. _____

4. Did the % recovery for hexavalent chromium meet the criteria of 75-125 % ?

Yes No

If no, list action. see below

5. Show calculation for predigestion spike recovery of Hexavalent Chromium.

Lab value 0

R
15A 0 30
15AN 103.85

or line 11A 95 97.85

$100 - .81 / 50 = 0$

POST VERIFICATION SPIKE ANALYSIS

Solids
80.8
87.7

Post Verification Spike (PVS) performed on sample J448997-18A, 15A, 12

Sample matrix: Soil Water % Solids J448997-11A

Units: mg/kg ug/L

ASSOCIATED SAMPLES all

1. Was PVS analysis performed at the correct frequency and proper concentration?
 Yes No
If no, list action. _____

2. Was PVS analysis performed on a field sample? Yes No
If no, list action _____

3. a. Does the PVS recovery meet the criteria of 85-115%? Yes No
If no, list action _____

b. If the PVS recovery was less than 85%, did the laboratory reanalyze the sample?
 Yes No NA
If no, list action _____

4. Show the calculation for % recovery for PVS.

Lab value 102

$1.02/1 = 1.02$

DUPLICATE ANALYSIS

Solids
80.8
87.7

Duplicate Analysis performed on sample

JAY8497-ISA/ISA
% Solids
JAY8497-11A

Sample matrix:

Soil

Water

Units:

mg/kg

ug/L

ASSOCIATED SAMPLES

all

1. Was the Duplicate analyses performed at the correct frequency? Yes No
If no, list action.

2. Was the duplicate analysis performed on a field sample? Yes No
If no, reject all associated samples.

3. Does the duplicate analysis meet the QC control limits? Yes No
If no, qualify the associated samples.

Batch 97548 JKT, Q178

4. Show the calculation for RPD for Hexavalent Chromium.

Lab value 1.4

$$\frac{.79 - .73}{.74} = .081$$

LABORATORY CONTROL SAMPLE

Sample matrix: Soil Water

Units: mg/kg ug/L

ASSOCIATED SAMPLES

Handwritten scribble

1. Was the laboratory control sample performed at the correct frequency?

Yes No

If no, list action.

2. Does the LCS meet the QC limit of 80-120 %

Yes No

If no, list the % recovery and action. Range Used

3. Show the calculation for the LCS % recovery for hexavalent chromium.

Lab Value *12*

Range =

44.9/40 = 1.12

SAMPLE RESULT VERIFICATION

ASSOCIATED SAMPLES All

1. Were all samples reported within the calibration range? Yes No
If no, list affected samples and action. _____

2. Was the raw data free of any anomalies? Yes No
If no, list affected samples and action. _____

3. Was the data package free of any computational or transcription errors? Yes No
If no, list affected samples and action. _____

4. Were both 3060 & 7196A pH readings provided and within method requirements? Yes No N/A
If no, list affected samples and action. _____
_____ 3060A? yes

5. Were the hotplate temperatures provided and within method requirements? Yes No N/A
If no, list affected samples and action. _____
 $\frac{24.07 - 20.43}{24.86 - 20.43} = \frac{5.64}{6.43} = .87$

6. Show the calculation for % solids for one sample. Yes N/A
 ~~$\frac{27.94 - 23.97}{31.68 - 23.97} = \frac{3.97}{7.71} = .515$~~ Lab value 87.7

7. Show the calculation for a nonaqueous sample. Lab value .74 mg/kg
NA 8997-11A

$$\frac{.816}{2.55} \times 100 = .72$$
$$.74 \times .877$$

PA 376-1M SW 9034M

LEVEL III VALIDATION WORKSHEET

Method: Sulfide Neutral Exh.

Date Reviewed: 8/5/10

Sample Collection Dates: 6/13/10

SDG: JAY8997
 Reviewer: C Jensen

The following data validation areas were reviewed:

Sample Identification	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	JAY8997-1																				
Validation Criteria	2 3 4 5 6 7 8 9 10																				
Completeness of Analyses	A																				
Holding Times	A																				
Initial Calibration	NA																				
Continuing Calibration	NA																				
Method Blanks	A																				
LCS	A																				
Surrogate %R dup	A																				
MS/MSD: JAY8997-4	A																				
Reporting Limits	A																				
Completeness of Analyte List	A																				
Field Duplicate Pair :																					
Equip /Field Blank																					

Note: X = Criteria were evaluated and not met. A = Criteria were evaluated and met. N = Data was not available for review. NA = Not applicable.

Comments:

collected 6/13/10
 run 6/18/10

no flags.

To: Ed Gaven/Vanthuy Lieu, MACTEC Engineering and Consulting, Inc.
 From: Christina Jensen, Validata, LLC
 Re: Honeywell Hudson County Data Validation
 Date: August 27, 2010

This memorandum discusses the results of the data validation of analytical data in Sample Delivery Group (SDG) JA50921 provided by Accutest Laboratory, located in Dayton, New Jersey, for samples collected as part of the Honeywell Hudson County project. No samples were rejected as a result of the data validation process. Appendix A contains the Sample Summary Table, Appendix B contains a list of the State of New Jersey Department of Environmental Protection (NJDEP) data validation footnotes, and Appendix C contains copies of the completed data validation report forms.

The validation for samples in this SDG was performed by Christina Jensen, Validata, LLC. The following table lists the samples that were included in this SDG.

Samples

Table 1-1. *Sample cross-reference list*

Sampling Date	Field Sample ID	Lab Sample ID	Sample Analyses
7/8/2010	079-FB-070810	JA50921-4	SW6010, SW7196
7/8/2010	079-FB-070810F	JA50921-4F	SW6010, SW7196
7/8/2010	079-MW-1	JA50921-2	SW6010, SW7196
7/8/2010	079-MW-1DP	JA50921-3	SW6010, SW7196
7/8/2010	079-MW-1DP-F	JA50921-3F	SW6010, SW7196
7/8/2010	079-MW-1F	JA50921-2F	SW6010, SW7196
7/8/2010	079-MW-2A-070810	JA50921-1	SW6010, SW7196
7/8/2010	079-MW-2A-070810	JA50921-1F	SW6010, SW7196

Validation Level

The level of validation for this SDG is level V for hexavalent chromium and level IV for chromium. The remaining analyses were not validated per the MACTEC project manager.

References

The samples collected for the project were analyzed in accordance with the following methods:

- USEPA 1986. *Test Methods for Evaluating Solid Waste*, SW-846, 3rd Edition, USEPA, Washington, D.C.

The data validation procedures were consistent with those specified in the NJDEP validation guidelines listed below:

- NJDEP. 2002. *Standard Operating Procedure (SOP) entitled Quality Assurance Data Validation of Analytical Deliverables for Inorganics (based on EPA SW-846 Methods)*, SOP No. 5.A.16. Trenton, New Jersey;
- NJDEP. 2001. *Standard Operating Procedure for the Completion of the Data Validation Report Forms and the Preparation of the Final Data Validation Report*, SOP No. 5.A.15, Trenton, New Jersey;
- NJDEP. 2005. *Standard Operating Procedure for Analytical Data Validation of Hexavalent Chromium*, SOP No. 5.A.10, Revision 2, Trenton, New Jersey; and

- NJDEP. 2001. *Standard Operating Procedure for the Completion of the Hexavalent Chromium Data Validation Report Forms and the Preparation of the Final Data Validation Report*, SOP No. 5.A.09
Trenton, New Jersey.

Sample Summary Table

The Sample Summary Table provided in Appendix A contains only detected and/or qualified data. Results that were non-detect for an analyte were not included in the table.

Validation Footnotes

Appendix B contains the footnotes used for this project and shall remain consistent throughout the validation. The footnote(s) assigned will not be sequential. Specific footnote(s) used during the validation will be provided in Appendix B.

Chain-of-Custody Documentation

The custody documentation was complete for this SDG.

Major Deficiencies

There were no major deficiencies identified with the data.

Minor Deficiencies and Completeness

Minor deficiencies identified during validation are summarized per analytical method as follows:

Total Chromium by SW6010

No qualification to the data was made. Data usability is the number of usable (non-rejected) sample results divided by the total number of sample results for each type of analysis times 100. Data usability has been determined to be 100%.

Hexavalent Chromium by SW7196

Samples in batch gn39697 were qualified as estimated and assigned footnote H8 to indicate laboratory duplicate precision exceedance. Data usability is the number of usable (non-rejected) sample results divided by the total number of sample results for each type of analysis times 100. Data usability has been determined to be 100%.

Data Assessment Summary

Overall, the laboratory performed the analyses in accordance with the requirements set forth in the methods.

Data Usability

Based on the validation of data, it has been determined that 100% of the data are usable as qualified. The analytical data are of sufficient quality to be used for qualitative and quantitative purposes.

APPENDIX A

Sample Summary Table

Honeywell Hudson County

Accutest

Sampling Date 7/08/10

Fraction: Wet Chemistry, Inorganics

SDG: JA50921

NJDEP SRP No.

Matrix: Water

TARGET AND NON-TARGET ANALYTE SUMMARY

Fraction	Dilution Factor	Field Sample ID	Laboratory Sample ID	Parameter	Units	Method Blank Result	Lab Concentration & Qualifiers	QA Reported	QA Decision	NJDEP Footnote
SW7196	1	079-MW-2A-070810	JA50921-1	Chromium, Hexavalent	mg/l	0.010U	0.010U	0.010UJ	Qualified	H12
SW6010	1	079-MW-1	JA50921-2	Chromium	ug/l	10U	20.5	20.5		
SW7196	1	079-MW-1	JA50921-2	Chromium, Hexavalent	mg/l	0.010U	0.010U	0.010UJ	Qualified	H12
SW6010	1	079-MW-1DP	JA50921-3	Chromium	ug/l	10U	14.9	14.9		
SW7196	1	079-MW-1DP	JA50921-3	Chromium, Hexavalent	mg/l	0.010U	0.010U	0.010UJ	Qualified	H12
SW7196	1	079-FB-070810	JA50921-4	Chromium, Hexavalent	mg/l	0.010U	0.010U	0.010UJ	Qualified	H12

APPENDIX B

NJDEP Qualifiers

Reason
Code

Description

H12 The non-detected value was qualified (UJ) because the PVS recovery was less than 85 percent.
The possibility of a false negative exists.

APPENDIX C

**NJDEP Validation Forms,
Other Validation Forms.**

DATA DELIVERABLE REQUIREMENTS

Site Name Honeywell Hudson Co. Job Code JA50921
 Location SAS Site 079 Date of Review 8/27/10
 Laboratory Name Accutest Lead Division/Bureau NJDEP
 Reviewer Christina Jensen Methodology Review Cr 200.7
 Site/Case Manager Ed Gaven/Maria Kaouris

GENERAL REQUIREMENTS: Circle YES or NO and list the deviations at the bottom:

- | | | | |
|----------------------------|---|----------------------------|---|
| A. Permanently Bound | Yes <input type="radio"/> No <input checked="" type="radio"/> | G. Methodology Review | <input checked="" type="radio"/> Yes <input type="radio"/> No |
| B. Paginated | <input checked="" type="radio"/> Yes <input type="radio"/> No | H. Uninitialed Strikeovers | Yes <input type="radio"/> <input checked="" type="radio"/> No |
| C. Title Page | <input checked="" type="radio"/> Yes <input type="radio"/> No | I. Legible Photocopies | <input checked="" type="radio"/> Yes <input type="radio"/> No |
| D. Table of Contents | <input checked="" type="radio"/> Yes <input type="radio"/> No | J. Consistent Dates | <input checked="" type="radio"/> Yes <input type="radio"/> No |
| E. Chain of Custody | <input checked="" type="radio"/> Yes <input type="radio"/> No | K. Digestion Log | <input checked="" type="radio"/> Yes <input type="radio"/> No |
| F. Non-conformance Summary | <input checked="" type="radio"/> Yes <input type="radio"/> No | | |

Describe any deviations from the requirements _____

HOLDING TIMES FOR METALS

Matrix: Aqueous () or Nonaqueous ()

SAMPLE ID FIELD or LAB	DATE of SAMPLE COLLECTIO N	ICP ANALYSIS DATE	MERCURY ANALYSIS DATE	FURNACE ANALYSIS DATE	HOLDING TIME EXCEEDED
1 JASD921-1	7/8/10	7/20/10			NO
2 1F					
3 2					
4 2F					
5 3					
6 3F					
7 4					
8 4F					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

COMMENTS

COOLER

TEMP 30C

PRESERVATION

ice; lab stamped " All Samples received

HANDLING TIME

same day.

preserved as applicable

INSTRUMENT CALIBRATION, INITIAL CALIBRATION CHECK (ICC) and INITIAL CALIBRATION VERIFICATION (ICV)

Part 1 of 2

ASSOCIATED SAMPLES all

1. a. Was the ICP instrument (6010B) properly standardized? Yes No N/A

If no, explain and list action. _____

b. Was the AA instrument (7000 Methods) properly standardized? Yes No N/A

If no, explain and list action. _____

c. Was the instrument used for Mercury properly standardized? Yes No N/A

If no, explain and list action. _____

2. Was the ICV/ICC analyzed immediately after the systems were calibrated? Yes No

If no, explain and list action. _____

3. Was the ICV/ICC analyzed for every analyte? Yes No

If no, explain and list action. _____

4. Do all ICV/ICC analytes meet the QC requirements for % recovery? Yes No

If no, list affected analytes, their % recovery, associated samples, and action. _____

5. a. Show calculation for the % recovery of one ICV analyte analyzed by ICP.

Analyte Cu

Lab Value 104

$1040 / 1000 = 1.04$

**INSTRUMENT CALIBRATION, INITIAL CALIBRATION CHECK (ICC) and
INITIAL CALIBRATION VERIFICATION (ICV)**

Part 2 of 2

- b. Show calculation for the % recovery of one ICC analyte analyzed by AA.

Analyte _____

NA

Lab Value _____

- c. Show calculation for the ICV % recovery of Mercury.

NA

Lab Value _____

6. SPECIFIC COMMENTS _____

CONTINUING CALIBRATION VERIFICATION (CCV) and CALIBRATION CHECK STANDARD (CCS)

ASSOCIATED SAMPLES all Part 1 of 2

1. a. Was the CCV/CCS performed at the minimum frequency of 10%? Yes No

If no, list action. _____

b. Was the CCV/CCS performed after ten samples and at the end of sample analysis? Yes No

If no, list action. _____

2. Were the CCV/CCS standards analyzed for all analytes? Yes No

If no, list affected analytes, their associated samples and action.

3. Was the CCV/CCS concentration near the midpoint of the calibration curve? Yes No

If no, list affected analytes, their associated samples and action.

4. Do all CCV/CCS analytes meet the QC requirement for % recovery? Yes No

If no, list affected analytes, their associated samples and action.

CONTINUING CALIBRATION VERIFICATION (CCV) and CALIBRATION CHECK STANDARD (CCS)

Part 2 of 2

5. a. Show calculation for the % recovery of one CCV analyte analyzed by ICP.

Analyte Cr Lab value 18

$2020 / 2005 = 1$

- b. Show calculation for the % recovery of one CCS analyte analyzed by AA.

Analyte _____ Lab value _____

na

- c. Show calculation for the % recovery of one CCV analyte for Mercury.

na

Lab value _____

6. SPECIFIC COMMENTS _____

METHOD BLANK SUMMARY

Method Blank ID MP53708

Sample matrix: Soil Water
 Units: mg/kg ug/L

Did the frequency of the method blank analysis meet method requirements?

Yes No

If no, explain and note action _____

ANALYTE	CONCENTRATION	< MDL	COMMENTS / ACTION
Ø			

ASSOCIATED SAMPLES all

CALIBRATION BLANKS

ASSOCIATED SAMPLES *all*

1. Were the initial calibration blanks analyzed for all analytes and run after the ICV/ICC? Yes No
If no, list affected analytes, and action. _____

2. Was the absolute value for all analytes in the calibration blank below the MDL? Yes No
If no, list affected analytes and qualify them. _____

3. Were the continuing calibration blanks analyzed for all analytes and run after the CCV/CCS? Yes No
If no, list affected analytes, associated samples and action. _____

4. Was the frequency for the continuing calibration blanks correct? Yes No
If no, list affected analytes, associated samples and action. _____

ICP INTERFERENCE CHECK SAMPLE

ASSOCIATED SAMPLES all

1. Was an ICP interference check sample performed at the correct frequency?

If no, note any deviations and action. _____

Yes No

2. Were the analytes interest and interferents for ICS reported?

If no, note deviations. _____

Yes No

3. Did all the required analytes of interest in the ICS meet the QC limit of 80-120%?

If no, list the analytes, the % recovery, associated samples and the action. _____

Yes No

4. Show the calculation for the % recovery for one analyte in the ICS.

Analyte CV

Lab value 91

$458 / 500 = .91$

5. COMMENTS _____

MATRIX SPIKE (MS) and MATRIX SPIKE DUPLICATE (MSD)

Part 1 of 2

Spike Analysis performed on sample J450921-2 JK % Solids NA

Sample matrix: Soil Water
Units: mg/kg all ug/L all

ASSOCIATED SAMPLES _____

1. Was the MS/MSD performed at the correct frequency? Yes No

If no, note deviations and action _____

2. Was the MS/MSD analyses performed on a field sample? Yes No

If no, reject all associated samples. _____

3. a. Were two (2) analytical methods used to obtain reported values for one analyte (i.e., ICP and AA) ? Yes No

If yes, list analytes _____

b. Was MS/MSD analysis performed using both methods for that analyte? Yes No
If no, reject affected sample(s) which did not have spike analysis performed.

MATRIX SPIKE (MS) and MATRIX SPIKE DUPLICATE (MSD)

Part 2 of 2

4. Did the % recovery for all analytes meet the criteria of 75-125 %?

If no, list % recovery in parenthesis next to the analyte out and action.

Yes No

5. Did the Relative Percent Difference (RPD) for all analytes meet the requirement of 20% RPD?

Yes No N/A

If no, list analytes and action. _____

6. a. Show calculation for % recovery for one analyte.

Analyte W

Lab value 102

$$226 - 20.5 / 20021$$

b. Show calculation for % RPD for one analyte.

Analyte W

Lab value 1.3

$$\frac{226 - 229}{226 + 229 / 2} = .013$$

nu

POST-DIGESTION SPIKE ANALYSIS

Post Digestion Spike Analysis performed on sample _____

Sample matrix: Soil Water % Solids _____

Units: mg/kg ug/L

ASSOCIATED SAMPLES _____

1. Was post-digestion spike analysis performed at the correct frequency? Yes No

If no, list the analyte(s) and action.

2. Was post-digestion spike performed on a field sample? Yes No

If no, list analytes and qualify them.

3. List the analyte(s), and their % recovery where post-digestion spike analysis was performed but still did not meet the QC criteria and action. N/A

4. Show the calculation for % recovery for at least one analyte where post-digestion spike analysis was performed.

Analyte _____

Lab value _____

5. Comments: _____

(Handwritten mark)

LABORATORY CONTROL SAMPLE (LCS)

Sample matrix: Soil

Water

Units: mg/kg

ug/L

ASSOCIATED SAMPLES

all

1. Was the laboratory control sample performed at the correct frequency? Yes No
If no, give action. _____

2. Do all analytes meet the QC limits of 80-120 %? Yes No
If no, list analytes, their % recovery and action. _____

3. Show the calculation for % recovery for one analyte.

Analyte CV

Lab Value 103

Soil limits 80-120

$106/100 = 1.03$

4. Comments: _____

SERIAL DILUTION ANALYSIS

Serial Dilution performed on sample DA50921-2 Dilution Factor 5

Sample matrix: Soil Water Units: mg/kg ug/L

ASSOCIATED SAMPLES All

1. Was a serial dilution performed at the correct frequency? Yes No
If no, give action _____

2. Was a field sample used for serial dilution? Yes No
If no, give action _____

3. For all analytes greater than ten times the IDL after dilution for 6010B and 25 times the EDL for 7000A methods, was a serial dilution performed? Yes No
If no, list analytes and reject them. _____

4. For all analytes that needed serial dilution analysis, was the QC limit of 10 % D met? Yes No
If no, list those analytes outside the limits and qualify them. _____

5. Show calculation for % D for one analyte analyzed by ICP.
Analyte Cv Lab value 3.9

$$\frac{20.5 - 21.3}{20.5} = .039$$

na

METHOD OF STANDARD ADDITION (MSA)

ASSOCIATED SAMPLES _____

1. If the post digestion spike recovery for Methods 7000A was outside the QC limit, was the MSA performed? Yes No

If no, explain and list action. _____

2. Was the MSA within the linear range of the instrument? Yes No

If no, explain and list action. _____

3. Was the MSA sample and spikes analyzed consecutively? Yes No

If no, explain and list action. _____

4. Was the slope of the MSA plot less than 20% difference of the slope of the standard curve? Yes No

If no, explain and list action. _____

5. Comments: _____

ASSOCIATED SAMPLES all **SAMPLE RESULT VERIFICATION**

1. Were all sample results reported within the calibration range? Yes No
If no, list affected samples and action. _____

2. _____ Yes No
Was the raw data free of any anomalies?
If no, list affected samples and action. _____

3. Was the data package free of any computational or transcription errors? Yes No
If no, list affected samples and action. _____

4. _____ Yes No N/A
Was the % solids analysis performed for all nonaqueous samples?
If no, list affected samples and action. _____

5. Show the calculation for % solids for one sample. _____
Lab Value N/A

6. Verify that nonaqueous samples were reported on a dry weight basis by recalculating the result for one analyte in a sample. N/A
Sample _____ Analyte _____ Lab value _____

DATA DELIVERABLE REQUIREMENTS
for
HEXAVALENT CHROMIUM

SRP No. _____
Site Name Honeywell Hudson County
Location Edison, NJ
Laboratory Name Accutest
Reviewer Christina Jensen
Date of Review 8/27/10

SDG JASVZ
Site Manager Ed Gaven/Maria Kaouris
Lead Division/Bureau NJDEP
Methodology SW3060 7196 7199

GENERAL REQUIREMENTS: Circle YES or NO and list the deviations at the bottom:

- | | | | |
|----------------------------|---|----------------------------|---|
| A. Permanently Bound | Yes <input type="radio"/> No <input checked="" type="radio"/> | G. Methodology Review | Yes <input checked="" type="radio"/> No <input type="radio"/> |
| B. Paginated | Yes <input checked="" type="radio"/> No <input type="radio"/> | H. Uninitialed Strikeovers | Yes <input type="radio"/> No <input checked="" type="radio"/> |
| C. Title Page | Yes <input checked="" type="radio"/> No <input type="radio"/> | I. Legible Xerox | Yes <input checked="" type="radio"/> No <input type="radio"/> |
| D. Table of Contents | Yes <input checked="" type="radio"/> No <input type="radio"/> | J. Consistent Dates | Yes <input checked="" type="radio"/> No <input type="radio"/> |
| E. Chain of Custody | Yes <input checked="" type="radio"/> No <input type="radio"/> | | |
| F. Non-conformance Summary | Yes <input checked="" type="radio"/> No <input type="radio"/> | | |

Describe any deviations from the requirements _____

HOLDING TIMES

Sample ID Field or Lab	Matrix	Date of Sample Collection	Hex Chrome Analysis Date	Holding Time Exceeded	QA Decision
1 JASD0121-1	W	7/18/10	7/18/10	NO	none
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

List any samples that exceeded the holding time, the number of days exceeded by and QA decision.

INSTRUMENT CALIBRATION CURVE
and
CALIBRATION CHECK STANDARD (CCS)

ASSOCIATED SAMPLES

all

1. Was the instrument properly standardized?
If no, explain and list action.

Yes

No

2. Was the CCS analyzed at the proper frequency?
If no, explain and list action.

Yes

No

3. Was the same CCS concentration used throughout the analysis?
If no, list action.

Yes

No

4. Does the CCS standard meet the QC requirements of 90-110% recovery?
If no, list the % recovery, and action.

Yes

No

5. Show calculation for the % recovery of Hexavalent Chromium in the CCS standard.

Lab value *100*

.51.5%

CALIBRATION BLANKS

ASSOCIATED SAMPLES all

1. Was the calibration blank analyzed before the instrument's initial calibration standards?
 Yes No

If no, list action. _____

2. Was a calibration blank analyzed after the calibration check standard?
 Yes No

If no, list associated samples and action.

3. Was the value of Hexavalent Chromium for the continuing calibration blank below the MDL?
 Yes No

If no, list associated samples and qualify them.

PREPARATION/REAGENT BLANK SUMMARY

Preparation/Reagent Blank ID gm 39697

Sample matrix: Soil ~~Water~~
Units: mg/kg ~~ug/L~~

Does the frequency of the preparation/reagent blank analysis meet method requirements?

Yes No

If no, explain and note action _____

ANALYTE	CONCENTRATION	< MDL	>IDL	COMMENTS / ACTION
Ø				

ASSOCIATED SAMPLES

all

Aqueous - NA

PREDIGESTION SPIKE ANALYSIS

Spike Analysis performed on sample _____ Solids _____

Sample matrix: Soil

Units: mg/kg

ASSOCIATED SAMPLES _____

1. Was the predigestion spike analysis performed at the correct frequency?

Yes No

If no, note deviations and action _____

2. Was the predigestion spike analysis performed on a field sample?

Yes No

If no, reject all associated samples. _____

3. Was the predigestion spike analysis performed at the proper concentration?

Yes No

If no, qualify the associated samples. _____

4. Did the % recovery for hexavalent chromium meet the criteria of 75-125 % ?

Yes No

If no, list action. _____

5. Show calculation for predigestion spike recovery of Hexavalent Chromium.

Lab value _____

POST VERIFICATION SPIKE ANALYSIS

Post Verification Spike (PVS) performed on sample J4 50921-2F, 2

Sample matrix: Soil Water % Solids _____
Units: mg/kg ug/L

ASSOCIATED SAMPLES all

1. Was PVS analysis performed at the correct frequency and proper concentration?
 Yes No
If no, list action. _____

2. Was PVS analysis performed on a field sample? Yes No
If no, list action _____

3. a. Does the PVS recovery meet the criteria of 85-115%? Yes No
If no, list action unfiltered water on 3/6/97 G, J/W, H11 or H12

b. If the PVS recovery was less than 85%, did the laboratory reanalyze the sample?
If no, list action lab ran ^{1/94} adjusted from spike Yes No NA

4. Show the calculation for % recovery for PVS.
Lab value 93
 $.14 / .15 = .93$

DUPLICATE ANALYSIS

Duplicate Analysis performed on sample JAS0921-2-2F %Solids _____

Sample matrix: Soil Water

Units: mg/kg ug/L

ASSOCIATED SAMPLES all

1. Was the Duplicate analyses performed at the correct frequency? Yes No
If no, list action. _____

2. Was the duplicate analysis performed on a field sample? Yes No
If no, reject all associated samples. _____

3. Does the duplicate analysis meet the QC control limits? Yes No
If no, qualify the associated samples. _____

4. Show the calculation for RPD for Hexavalent Chromium.
Lab value φ

$$\phi / \phi = \phi$$

LABORATORY CONTROL SAMPLE

Sample matrix: Soil Water

Units: mg/kg ug/L

ASSOCIATED SAMPLES All

1. Was the laboratory control sample performed at the correct frequency?

Yes No

If no, list action.

2. Does the LCS meet the QC limit of 80-120 %

Yes No

If no, list the % recovery and action. _____ Range Used _____

3. Show the calculation for the LCS % recovery for hexavalent chromium.

Lab Value 100

Range =

$15 / .15 = 1.$

SAMPLE RESULT VERIFICATION

ASSOCIATED SAMPLES all

1. Were all samples reported within the calibration range? Yes No
If no, list affected samples and action. _____

2. Was the raw data free of any anomalies? Yes No
If no, list affected samples and action. _____

3. Was the data package free of any computational or transcription errors? Yes No
If no, list affected samples and action. _____

4. Were both 3060 & 7196A pH readings provided and within method requirements? Yes No N/A
If no, list affected samples and action. _____
_____ 3060A? _____

5. Were the hotplate temperatures provided and within method requirements? Yes No N/A
If no, list affected samples and action. _____

6. Show the calculation for % solids for one sample. N/A
Lab value _____

7. Show the calculation for a nonaqueous sample.
Lab value _____

APPENDIX C
CAPS CERTIFICATE



United States
Environmental Protection
Agency

Prevention, Pesticides
and Toxic Substances
(7508C)

September 30, 2005

Reregistration Eligibility Decision for Inorganic Polysulfides

List D

Case No. 4054

Approved by:

Debra Edwards Date: *9/30/2005*

Debra Edwards, Ph. D. September 30, 2005

Director

Special Review and Reregistration Division

Reregistration Eligibility Decision for

Inorganic Polysulfides

Special Review and Reregistration Division
Office of Pesticide Programs
U.S. Environmental Protection Agency
1801 South Bell Street
Arlington, VA 22202

September 30, 2005

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Background:

The Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) was amended in 1988 to accelerate the reregistration of products with active ingredients registered prior to November 1, 1984. The amended Act calls for the development and submission of data to support the reregistration of an active ingredient, as well as a review of all submitted data to the EPA. Reregistration involves a thorough review of the scientific database underlying a pesticide's registration. The purpose of the Agency's review is to reassess the potential risks arising from the currently registered uses of the pesticide; to determine the need for additional data on health and environmental effects; and to determine whether or not the pesticide meets the "no unreasonable adverse effects" criteria of FIFRA.

EPA has completed its Reregistration Eligibility Decision (RED) document for the inorganic polysulfides case, which includes one chemical, calcium polysulfide. In this document, EPA presents the results of its review of the potential human health effects of dietary, drinking water, occupational/residential exposure to calcium polysulfide, and ecological risks. Based on this assessment, the Agency has determined that products containing calcium polysulfide as the sole active ingredient are eligible for reregistration. Also, as a result of this assessment, one exemption from the requirement for a tolerance has been reassessed.

I. Executive Summary:

Calcium polysulfide is used as an active ingredient primarily in agricultural and residential use fungicides, but some products also have secondary insecticidal activity. There are sixteen products currently registered with calcium polysulfide as an active ingredient, with only three of these also containing other active ingredients. Calcium polysulfide is mildly irritating to the skin and can cause irreversible damage to the eye due to its high pH. The current calcium polysulfide product labels require personal protective equipment for all handlers and a Restricted Entry Interval for all post-application activities of 48 hours in accordance with the Worker Protection Standard. Products containing calcium polysulfide in addition to other active ingredients would need to be assessed separately. The Agency has determined that calcium polysulfide rapidly degrades to calcium hydroxide and sulfur in the environment and in the human body. Therefore, this assessment of calcium polysulfide is based, in part, on the Agency's 2002 Inert Ingredient Focus Group tolerance reassessment decision for calcium, ammonium, potassium, magnesium and sodium hydroxide and on the 1991 reregistration eligibility decision for sulfur. Calcium polysulfide has a tolerance exemption under 40CFR 180.1232. The current exemption from the requirement of a tolerance for calcium polysulfide (lime sulfur) under 40CFR 180.1232 is considered reassessed and meets the reasonable certainty of no harm as defined by FQPA.

Like calcium polysulfide, calcium hydroxide is irritating to skin and eyes. However, calcium hydroxide is a direct food substance affirmed as generally recognized as safe (GRAS) by the Food and Drug Administration (FDA). A 1975 FDA assessment of calcium hydroxide states that the average daily intake of calcium hydroxide is 5 mg/kg for adults and ranges from 15 to 28 mg/kg for infants. Further, the Agency's 2002 TRED states that "Given the widespread occurrence of these hydroxides in the existing food supply, the amounts that can be applied to food as a result of a use in a pesticide product would not be expected to significantly increase the existing amounts in the food supply....EPA concludes that there is a reasonable certainty that no harm will result to the general population, and to infants and children, from aggregate exposure to residues of ammonium, sodium, potassium, calcium, and magnesium hydroxides."

According to the sulfur RED, "The human risks, if any, from both dietary and occupational exposures are considered to be very low because of the general knowledge of the chemical sulfur, its ubiquitous

occurrence, and its low toxicity, as well as its long history of use by humans, including some pharmaceutical applications.” However, sulfur can cause eye and skin irritation and EPA has determined that a hazard exists for workers reentering fields following foliar application of sulfur dust (i.e., eye and skin irritation to people who handle sulfur dust or who come into contact with treated foliage during field work). Thus, a 24-hour restricted entry interval and protective clothing requirements are included on all current labeling of applicable sulfur products.

In the ecological assessment, risks for freshwater fish resulting from spray drift and acute risks for birds and mammals were identified. However, due to the rapid dissociation of calcium polysulfide to components with very low toxicity, no mitigation for freshwater fish, mammals or avian species is warranted at this time. Also, based on the dissociation of calcium polysulfide, as well as the findings in the calcium hydroxide TRED and the sulfur RED, it has been determined that the use of products containing calcium polysulfide as the sole active ingredient would not present a human health hazard to the general public.

II. Use Information:

Calcium Polysulfide

Calcium polysulfide (CAS Number 1344-81-6) has various synonyms, including calcium sulfide and lime sulfur. As mentioned above, calcium polysulfide is used as an active ingredient in insecticides and fungicides (PC Code 076702).

Calcium polysulfide has fungicidal and secondary acaricidal activity, and is used to control powdery mildews, anthracnose, scab, and other diseases, as well as spider mites. Based on current labels, calcium polysulfide is registered for feed and food uses on the following sites: alfalfa, almonds, apples, beef, blackberries, blueberries, boysenberries, caneberries, cherries (sweet), cherries (tart), citrus, clover, currants, dairy cattle, deciduous fruit trees, gooseberries, grapes, hazelnuts (filberts), hogs, nectarines, oranges, peaches, pears, pecans, pistachio nuts, plums, prunes, quinces, raspberries, rye, sheep, stone fruits, tangerines, and walnuts. The non-food/non-feed use sites include the following: cherry (dormant), horses, ornamentals, residential lawns, and sheep. Products are applied as liquid sprays (ground, air blast, and hand-held equipment, with no labels specifically prohibiting aerial). The end use products include soluble concentrates (SL/C) and emulsifiable concentrates (EC) formulation. The Agency database, OPPIN Query, indicates that all of the current products are formulated ranging from 5% to 29% calcium polysulfide as the active ingredient. All but three of the current products list calcium polysulfide as the sole active ingredient, with the others listing aliphatic hydrocarbons (4-166 and 239-2528) or calcium thiosulfate (8660-67) as the additional active ingredients (Table 1).

Registration Number	Registration Name	Percent Calcium Polysulfide	Other Active Ingredients	Formulation Type	Date first registered
33955-420	Acme Lime Sulfur Spray	29%	none	soluble concentrate	2 Feb, 1974
5887-143	Black Leaf Lime Sulfur Spray	29%	none	soluble concentrate	30 July, 1982

Table 1. Registered Products Being Reassessed Containing Calcium Polysulfide					
Registration Number	Registration Name	Percent Calcium Polysulfide	Other Active Ingredients	Formulation Type	Date first registered
4-166	Bonide Oil and Lime Sulfur Spray	5%	80% aliphatic petroleum hydrocarbons	emulsifiable concentrate	7 May, 1971
4-402	Bonide Lime Sulfur Spray	30%	none	soluble concentrate	4 May, 1966
66196-3	BSP Sulforix	27.5%	none	emulsifiable concentrate	29 May, 1953
802-73	Lilly/Miller Polysul Summer & Dormant Spray Concentrate	28.7%	none	soluble concentrate	7 April, 1950
51036-226	Lime-Sulfur	29%	none	soluble concentrate	13 May, 1988
66196-2	Lime-Sulfur Solution	29%	none	soluble concentrate	2 March, 1975
8660-67	Liquid Lime-Sulfur 32 Degrees Baume	28%	2% calcium thiosulfate	soluble concentrate	6 Dec., 1972
239-2391	Ortho Dormant Disease Control	26%	none	soluble concentrate	15 April, 1972
239-2528	Ortho Dormant Insect & Disease Control	16.66%	34.84% aliphatic petroleum hydrocarbons	emulsifiable concentrate	11 July, 1986
239-309	Orthorix Spray	26%	none	emulsifiable concentrate	24 Sept, 1948
11656-51	Poly-Sul Fungicide Insecticide Miticide	29%	none	emulsifiable concentrate	20 Oct, 1976
71096-6	Rex Lime Sulphur Solution	28%	none	soluble concentrate	26 June, 1948
769-558	Suregard Lime Sulphur Solution 32 BE	29%	none	soluble concentrate	17 Nov, 1981
71096-11	Tetrasul 4S5	27%	none	soluble concentrate	15 Aug, 2002

The Biological and Economic Analysis Division (BEAD) Screening Level Usage Analysis (SLUA) in Appendix A indicates that the crops receiving the greatest amounts of pounds ai of total applied calcium polysulfides include grapes and apples, with pears, peaches, and cherries also receiving substantial amounts, on a national basis, followed by blackberries, raspberries, and blueberries. The states where the greatest amounts are used include California, Washington, and Oregon. Based on the information reviewed in the BEAD assessment of current labels, the highest application rates are for blueberries (66.58

lb ai/A) and cherries and grapes (61.48 lb ai/A), although the BEAD Revised Usage assessment indicates that “average” or “typical” rates actually applied to these crops are substantially lower, 17.31, 14.96, and 9.38 lb ai/A to blueberries, cherries, and grapes, respectively.

Calcium polysulfide is produced by reacting lime with sulfur in boiling water. The resultant solution is highly alkaline (pH 11.5-11.8) and corrosive. Upon application to agricultural crops, calcium polysulfides or its dissociation products reach foliage and soils and can enter water bodies via spray drift and later via run-off and erosion. Calcium polysulfide present in moist soils and/or on moist foliage is expected to dissociate rapidly; therefore, run-off and erosion into surface water, as parent calcium polysulfide, should be negligible. Calcium polysulfide dissociates to form calcium cations and sulfur (S), and therefore the fate of this pesticide is dependent on the fate of its dissociation products. The EFED Environmental Science Chapter states two important conclusions regarding fate: 1) the expected change in environmental background levels of calcium cations and elemental sulfur due to application of the pesticide would be expected to be low compared with the relative presence of these chemicals already appearing in the environment; and 2) the fate and transport characteristics of these dissociation products suggest that applications of calcium sulfide to targeted foliage/soils would result in minimal movement to water bodies by drift, likely resulting in low concentrations in these aquatic systems.

Calcium Hydroxide

Calcium hydroxide is used in pesticide products as both an inert ingredient and an active ingredient. As an inert ingredient, it is used primarily as a solid diluent and/or carrier, and has been placed on the Agency’s pesticide inert ingredient list 4B. This classification indicates that the Agency has concluded that calcium hydroxide will not adversely affect the public health or the environment under current use patterns. As an active ingredient, there is currently only one manufacturing use product registered with calcium hydroxide. Calcium hydroxide is listed as an FDA GRAS chemical under 21CFR 184.1205, with no limitations specified as to its use in food except good manufacturing use practice.

The tolerance exemptions reassessed for calcium hydroxide, with the respective citation in the Code of Federal Regulations (CFR), and the use pattern as an inert ingredient are listed in Table 2.

Table 2. Tolerance Exemptions Reassessed in the 2002 Calcium Hydroxide FRD				
Tolerance Exemption Expression	CAS No	40 CFR	PC Code	Use Pattern
calcium hydroxide	1305-62-0	Active Ingredient		
		Not Applicable	075601	Microbiocide/Microbiostat
		Inert Ingredient		
		180.910	875601	solid diluent, carrier

Sulfur

As an active ingredient in pesticides, sulfur is an insecticide and fungicide used on terrestrial food and feed crops, non-food crops, aquatic food crops, greenhouse food and non-food crops, indoor food and non-food, and indoor/outdoor residential premises. Non-pesticidal uses include use as a fertilizer or as a soil amendment for reclaiming alkaline soils.

III. Physical/Chemical Properties:

The physical and chemical properties of calcium polysulfide are provided in Table 3. This information was obtained from the profiles in TOXNET (Hazardous Substances Data Bank (HSDB) and CambridgeSoft (ChemFinder), as well as various MSDS sheets for calcium polysulfide.

		References
Molecular formula	Ca (S _x)	ChemFinder, 2005
Color/Form	Deep orange liquid	HSDB, 2005
Odor	unpleasant smell of hydrogen sulfide; rotten egg odor	HSDB, 2005
Density/Specific Gravity	1.28 @ 15.6°C	HSDB, 2005
pH	10.9-11.2	MSDS, 2005a
	11.5 - 11.9	MSDS, 2005c
	11.8 - 11.9	MSDS, 2005d
Water Solubility	Soluble in water	HSDB, 2005
	"Very soluble"	MSDS, 2005c
	"soluble"	MSDS, 2005d

IV. Hazard Characterization:

A. Toxicity

Tables 4 and 5 list the acute toxicity data for calcium polysulfide and sulfur, respectively.

Study Type	Category	Results	Reference
Acute Oral (LD ₅₀)	III	820 mg/kg (male) 820 mg/kg (female)	MSDS, 2005b
Acute Dermal (LD ₅₀)	III	>2000 mg/kg	
Acute Inhalation (LC ₅₀)	IV	3.9 mg/L (male) 3.1 mg/L (female)	
Primary Eye Irritation	I	Irreversible damage due to high pH	
Primary Skin Irritation	III	Mildly irritating	

Table 5. Acute Toxicity Profile for Sulfur			
Study Type	Category	Value	Reference
Acute Oral (LD ₅₀)	IV	> 5 mg/kg	Sulfur RED
Acute Dermal (LD ₅₀)	III	> 2 mg/kg	
Acute Inhalation (LC ₅₀)	III	> 2.56 mg/L	
Primary Eye Irritation	III	n/a	
Primary Skin Irritation	IV	n/a	

Based on the current product labels for calcium polysulfides, personal protective equipment (PPE) is required for all handlers. This includes coveralls over long-sleeved shirts and long pants, waterproof gloves, chemical resistant footwear plus socks, protective eyewear, chemical resistant headgear for overhead exposure, chemical resistant apron when cleaning equipment, mixing, or loading, and a MSHA/NIOSH approved dust/mist filtering respirator. In addition, the Restricted Entry Interval for all postapplication activities is 48 hours, in accordance with the Worker Protection Standard 40 CFR part 170.

According to the calcium hydroxide TRED (EPA, 2002), acute toxicity studies were obtained from Toxnet for calcium hydroxide; however, these studies were not reviewed by the Agency. An oral LD₅₀ of 7340 mg/kg (rats) was reported for calcium hydroxide. The NIOSH International Chemical Safety Card states that calcium hydroxide irritates the respiratory tract, and is corrosive to the eyes and skin. Repeated or prolonged exposure can cause dermatitis, and may also affect the lungs due to exposure to dust particles (NIOSH, 2005).

From the sulfur RED, chronic exposure at low levels is generally considered safe, with no known risks of oncogenic, teratogenic, or reproductive effects associated with its use. In addition, sulfur has been shown to be non-mutagenic in microorganisms (EPA, 1991).

For calcium polysulfide, the Agency waived the data requirements for acute inhalation and dermal sensitization, because "calcium polysulfide, upon dissolution in water, is converted rapidly to calcium hydroxide and colloidal elemental sulfur" (Tox Branch II, HED, 1991). In addition, the Agency also determined the all the subchronic and chronic toxicity testing requirements to be waived, based on the availability of adequate toxicity data in the literature for the degradation products. Based on that determination, the toxicity of calcium polysulfide is due to the degradation products and "exposure to human[s] is self-limiting and can be regulated through [product] labeling" (Tox Branch I, HED, 1993).

B. Metabolism

The Agency has determined that calcium polysulfide rapidly degrades to calcium hydroxide and sulfur in the human body. Thus, the data requirements for the higher tier toxicity studies have been waived by the Agency, and there are no repeated dose toxicity studies available for calcium polysulfide (Tox Branch I, HED, 1993).

C. Special Considerations for Infants and Children

Based on the toxicity data reviewed in this document for calcium polysulfides, calcium hydroxide, and sulfur, there is no information which indicates increased sensitivity to calcium polysulfide for infants and children. Although calcium polysulfide and its degradates can cause skin and eye irritation, once incorporated into the food supply, there is a low potential for risk to these groups of the population.

V. Exposure Assessment:

The Agency has determined that calcium polysulfide readily breaks down into calcium hydroxide and sulfur in the human body. Since the risks have already been assessed for both of these other chemicals and use patterns are similar, it is not necessary to generate a separate risk assessment for calcium polysulfide. The conclusions of the RED document for sulfur and the TRED document for calcium hydroxide indicate that these chemicals have been determined to not present unacceptable risks to humans.

VI. Dietary Exposure:

Based on the rapid dissociation of calcium polysulfide in the environment, as well as in the human body, to calcium hydroxide and sulfur, the Agency has determined that only a qualitative dietary assessment is needed, based on the results of the RED and TRED for these constituent products. Thus, the Agency has determined that there are no dietary risk concerns, whether from the ingestion of food or water or both, for calcium polysulfide.

VII. Aggregate Assessment:

In examining aggregate exposure, FFDCA section 408 directs EPA to consider available information concerning exposures from the pesticide residue in food and all other non-occupational exposures, including drinking water from ground water or surface water and exposure through pesticide use in gardens, lawns, or buildings (residential and other indoor uses). In developing this assessment document for calcium polysulfide, a qualitative assessment for all pathways of human exposure (food, drinking water, and residential) is deemed appropriate given the lack of human health concerns associated with exposure to this chemical, as well as its constituent products (calcium hydroxide and sulfur). Thus, the Agency has determined that there are no aggregate risk concerns resulting from exposure to calcium polysulfide through food, drinking water and/or residential uses.

VIII. Cumulative Exposure:

Section 408(b)(2)(D)(v) of the FFDCA requires that, when considering whether to establish, modify, or revoke a tolerance, the Agency consider "available information" concerning the cumulative effects of a particular pesticide's residues and "other substances that have a common mechanism of toxicity." If chemicals are structurally related and all are low toxicity chemicals, then the risks either separately or combined should also be low. Unlike other pesticides for which EPA has followed a cumulative risk approach based on a common mechanism of toxicity, EPA has not made a common mechanism of toxicity finding as to calcium polysulfide and any other substances.

For the purposes of this action, EPA has assumed that calcium polysulfide does not share a common mechanism of toxicity with other substances. For information regarding the Agency's efforts to determine which chemicals have a common mechanism of toxicity and to evaluate the cumulative effects of such

chemicals, see the policy statements released by EPA's Office of Pesticide Programs concerning common mechanism determinations and procedures for cumulating effects from substances found to have a common mechanism on EPA's website at <http://www.epa.gov/pesticides/cumulative/>.

IX. Risk Characterization:

As mentioned above, the Agency has determined that calcium polysulfide readily breaks down into calcium hydroxide and sulfur in the environment and in the human body. Assessments performed on both these substituent compounds indicate a reasonable certainty of no harm to human health. Therefore, it has been determined that the use of products containing calcium polysulfide (as the sole active ingredient) also would not present a human health hazard to the general public. Furthermore, the current exemption from the requirement of a tolerance for calcium polysulfide (lime sulfur) under 40CFR 180.1232 is considered reassessed, and meets the reasonable certainty of no harm standard as defined by FQPA.

X. Environmental Fate and Exposure Considerations:

Calcium Polysulfide

Lime sulfur is readily soluble in water, and solutions of lime sulfur have a highly alkaline pH, ranging from 10.9 to 11.9 (Table 3). In an agricultural setting, the end-use products containing this chemical are mixed in water and the solution applied to growing rain-fed and/or irrigated crops. In such environments, it can be assumed that moisture is abundant on/in targeted plants/soils. Calcium polysulfide is expected to rapidly dissociate in the presence of any moisture to form calcium cations (calcium hydroxide) and elemental sulfur. Upon application, most of the applied material reaches targeted crops/soils, while some reaches, as drift, non-targeted plants/soils. It is considered likely that "rapid dissociation" is initiated when water is added to the end-use product within the tank-mix, and much of the "active ingredient" reaching the treated crop is colloidal sulfur.

Any calcium polysulfide reaching targeted crops is expected to be washed off into the soil as parent and/or with time, with the dissociation products consisting mainly of elemental sulfur and calcium. These same dissociation products are expected to form from parent that reaches the soil directly from application. In the soil system, the modest amounts of calcium and sulfur that result from the use of calcium polysulfide are not believed to be significant when compared to their respective natural background levels.

Since calcium polysulfide dissociates quickly in the environment, runoff and/or leaching of the parent into nearby water bodies is assumed to be negligible; thus, aquatic exposure models which consider runoff and/or leaching, such as GENECC2 and PRZM/EXAMS, are not used in this assessment. To estimate exposure of terrestrial organisms (mammals and birds), the terrestrial exposure model T-REX was used to estimate exposures resulting from single spray application of calcium polysulfide. As with the aquatic assessment, due to rapid breakdown, it is unlikely that repeated applications would result in the accumulation of calcium polysulfide on terrestrial forage materials. Accumulations on forage material, if any, would most likely be of sulfur and/or inert ingredients.

Calcium Hydroxide

Calcium hydroxide is commonly found in soil and water, suggesting that low levels would not pose adverse effects to wildlife or water resources. Large releases may cause direct effects, such as exceedances of toxicity thresholds, or indirect effects, such as disruption of ecosystems through altering of pH or increasing availability of algal nutrients. Calcium hydroxide is a medium to strong base, and as such, can cause varying degrees of pH change depending on the amount of material released and the buffering

capacity of the soil or water. Hydroxides are persistent in the environment, but they also tend to dissociate, react with organic and inorganic materials, and form complexes with ionic substances.

Sulfur

All environmental fate data requirements were waived in 1982, based on the fact that sulfur is a natural component of the environment (EPA, 1991). It is possible for sulfur to oxidize to sulfuric acid and acidify soils; however, this is not considered likely to be a deleterious effect. In addition, elemental sulfur added to the environment will become incorporated into the natural sulfur cycle. There is potential for non-target organisms to be exposed to sulfur due to its large annual usage and relatively high application rates. However, the risks associated with exposure to sulfur appear to be low.

XI. Ecotoxicity and Environmental Risk Considerations:

Calcium Polysulfide

Based on an extensive search of environmental toxicity data, the most sensitive aquatic species in each category was selected for detailed environmental risk analysis (Table 6). Note that in some cases, the study report had not clarified that the results were based on the active ingredient present in the test solution, so the EFED Science Chapter has corrected for the percent active ingredient (i.e., lowered the acute toxicity value reported in the study, based on the % ai).

Table 6. Calcium Polysulfide Toxicity Reference Values (mg active ingredient/L) for Aquatic Organisms.

<i>Exposure Scenario</i>	<i>Species</i>	<i>Scientific Name</i>	<i>Exposure Duration</i>	<i>Toxicity Reference Value (mg a.i./L)</i>	<i>Reference (Classification)</i>
Freshwater Fish					
Acute	Rainbow trout	<i>Oncorhynchus mykiss</i>	96 hours	LC ₅₀ = 0.97 mg a.i./L ^a (study value: 3.35 mg/L)	McCann 1976 (Acceptable)
Chronic	No Data Available				
Freshwater Invertebrates					
Acute	Water flea	<i>Daphnia pulex</i>	48 hours	LC ₅₀ = 2.9 mg a.i./L ^a (study value: 10 mg/L)	MRID 40098001 (Acceptable)
Chronic	No Data Available				
Estuarine/Marine Fish					
Acute	No Data Available				
Chronic	No Data Available				
Estuarine/Marine Invertebrates					
Acute	No Data Available				
Chronic	No Data Available				

<i>Exposure Scenario</i>	<i>Species</i>	<i>Scientific Name</i>	<i>Exposure Duration</i>	<i>Toxicity Reference Value (mg a.i./L)</i>	<i>Reference (Classification)</i>
Aquatic Plants					
Algae	green algae	<i>Selenastrum capricornutum</i>	120 hours	EC ₅₀ = 14.1 mg a.i./L ^b EC ₀₅ = 0.5 mg a.i./L ^b	MRID 43960801 (Acceptable)
Macrophytes	No Data Available				

^a The study report did not specify if toxicity endpoints were expressed in terms of mg formulation/L or mg a.i./L. Taking the most conservative approach, it is assumed that toxicity endpoints were reported in terms of mg formulation/L. To calculate toxicity values in terms of mg a.i./L, values were multiplied by the % a.i. in the formulation tested. Details are provided in Appendix E of the EFED Science Chapter.

^b The EC₅₀ was used to assess risk to non-listed aquatic algae; the EC₀₅ value was used to assess risk to listed algae. Also, the statistical methods used in the study were different than those used by EFED; therefore, the numbers used here are slightly different than those reported in the MRID (EC₅₀ = 15 mg a.i./L, EC₀₅ = 1.2 mg a.i./L).

The spray drift model AGDRIFT (SDTF 2001) was used to estimate the fraction of calcium polysulfide that is released indirectly to a water body due to spray drift following a typical aerial or ground based application to a crop. Since calcium polysulfide reacts quickly in the environment, runoff and/or leaching into nearby water bodies were assumed to be negligible. Spray drift from both aerial and ground applications was assessed. Although the BEAD assessment of the calcium polysulfide labels did not identify any labels which indicate instructions for aerial applications, aerial applications were evaluated because none of the labels specifically prohibit aerial use. Initial average deposition to water bodies was reported to be 3.21% for aerial applications, and 0.02 % for ground applications, such as air blast applications to orchards. Thus, based on the maximum label rates, the initial concentrations in the standard pond range from less than 0.0007 ppm for grapes treated via orchard/air blast, to 0.110 ppm for grapes treated by aerial applications. The AgDrift Model was also run with typical use rates, and the resulting in EECs ranged from 0.0169 ppm to 0.0407 ppm, respectively.

Acute Risk Quotients (RQs) were then calculated based on the estimated environmental concentration (EEC) divided by the aquatic toxicity data. The acute RQs for freshwater fish were as high as 0.12 (for blueberries with aerial applications at the maximum label rate), but for typical applications rates, even with aerial applications, the highest RQ was 0.042, which does not exceed the acute endangered species LOCs. In addition, for freshwater invertebrates, all acute RQs are below the LOCs for acute restricted use (LOC 0.1) and acute endangered species (LOC 0.05). In addition, the LOC for acute risk to plants (LOC 1) is not exceeded for non-listed or listed algae under any of the modeled crop scenarios. While there are no data available for estuarine or marine species, this has been identified in the EFED Science Chapter as a data gap. However, there is no information available that would indicate that crops treated with calcium polysulfide are grown directly adjacent to estuarine and/or marine waters.

The terrestrial exposure model T-REX (T-REX Version 1.12, dated December 7, 2004) was used to estimate exposures and risks to avian and mammalian species for single spray applications of calcium polysulfide. Since calcium polysulfide breaks down rapidly, it is unlikely that repeated applications would result in the accumulation of calcium polysulfide on terrestrial forage materials. Accumulations on forage materials, if any, would most likely be of calcium, sulfur, and/or inert ingredients. Therefore, only acute risks from single applications of calcium polysulfide are considered in this assessment. The EECs for

residues on various forage categories (short grass, tall grass, broadleaf plants/small insects, fruits/pods/large insects, and seeds) were obtained from the Tier I model T-REX for five crop uses: blueberries, grapes, almonds, apples, and alfalfa. As with aquatic organisms, these EECs were compared with the available reported toxicity data for the most sensitive species. For birds, acute RQs were derived using dose-based and dietary-based acute toxicity values (but since those LC_{50} values were >5000 mg a.i./kg, no RQ values could be calculated); for mammals, acute RQs were derived using a dose-based acute toxicity value (Table 7).

Table 7. Calcium Polysulfide Toxicity Reference Values (TRVs) for Terrestrial Organisms.

<i>Exposure Scenario</i>	<i>Species</i>	<i>Exposure Duration</i>	<i>Toxicity Reference Value</i>	<i>Reference MRID (Classification)</i>
Mammals				
Acute (Dose-based)	rat	single oral dose	$LD_{50} (_) = 86.63 \text{ mg a.i./body wt.}^a$	00154738 (Acceptable)
Chronic	No Data Available			
Birds				
Acute (Dose-based)	bobwhite quail	single oral dose	$LD_{50} = 560 \text{ mg a.i./kg body wt.}$	43945101 (Acceptable)
Acute (Dietary-based)	bobwhite quail and mallard duck	5-day dietary	$LC_{50} > 5000 \text{ mg a.i./kg diet}$ (for both species)	43945103 quail (Acceptable) 43945104 duck (Acceptable)
Chronic	No Data Available			
Plants	No Data Available			

^a The study report did not specify if toxicity endpoints were expressed in terms of mg formulation/L or mg a.i./L. Taking the most conservative approach, it is assumed that toxicity endpoints were reported in terms of mg formulation/L. To calculate toxicity values in terms of mg a.i./L, values were multiplied by the % a.i. in the formulations tested (16.66%). Details are provided in Appendix E of the EFED Science Chapter.

Thus, dietary-based RQs were calculated using EECs expressed in terms of residue concentration for the various forage categories, and toxicity values (LC_{50}) expressed in units of dietary concentration. Dose-based RQs were calculated using a body weight-adjusted LD_{50} and consumption-weighted equivalent dose sorted by food source and body size. For both birds and mammals, three weight categories (or sizes) were considered (20 g, 100 g, 1000 g for birds, and 15 g, 35 g, 1000 g for mammals). Nearly all dose-based acute RQs for birds exceed the LOCs for acute risk (LOC 0.5), acute restricted use (LOC 0.2), and acute endangered risk (LOC 0.1). For example, the highest RQs for birds were for application to blueberries at the maximum label rate, with dose-based RQs ranging from 0.52 to 45.95, exceeding all acute LOCs for all forage categories, and from 0.13 to 11.95, for typical application rates to blueberries.

Note that these RQs are based on an acute oral toxicity test in bobwhite quail, with an LD_{50} value of 560 mg a.i./kg body weight, which indicates that calcium polysulfide is slightly toxic to avian species on an

acute oral basis. This study was based on gavage dosing. Note also that avian toxicity data are quite different when the acute dietary toxicity of calcium polysulfide is based on feeding studies (not gavage-dosed). The acute dietary toxicity was evaluated in bobwhite quail and mallard ducks, with both studies yielding LC₅₀ values >5,000 mg a.i./kg diet. Based on these results, calcium polysulfide is categorized as practically non-toxic to birds on an acute dietary basis. These LC₅₀ values of >5,000 mg a.i./kg diet were not evaluated to assess dietary-based acute risk of birds to calcium polysulfide.

The risks to terrestrial mammals also used dose-based acute RQs for mammals, specifically gavage-dosed rats. As with avian risks, nearly all dose-based acute RQs for mammals exceed the LOCs for acute risk (LOC 0.5), acute restricted use (LOC 0.2), and acute endangered risk (LOC 0.1). For example, the highest RQs for mammals were also for application to blueberries, with dose-based RQs ranging from 0.45 to 79.73 at the maximum label rate, exceeding all acute LOCs for all forage categories, and from 0.04 to 7.55 for typical application rates to blueberries. [Note that these RQs are based on an acute toxicity value of 86.63 mg a.i./body wt., from the EFED Science Chapter, much lower than the Acute Oral (LD₅₀) value of 820 mg/kg, as reported in Table 4, for the Acute Toxicity Profile for Calcium Polysulfides.]

All RQ values for terrestrial species which exceed LOCs are based on toxicity data from studies in which animals were dosed by gavage. The pH of calcium polysulfide solutions is reported to range from 10.9 to 11.9, suggesting that it is likely that the observed mortality in gavage-dosed rats and birds was due to corrosive effects on the lining of the gastrointestinal tract. When birds are tested with food which has calcium polysulfide incorporated into the diet (the 5-day dietary feeding studies in Table 7), there was essentially no mortality, even at the highest doses. Since almost all products containing calcium polysulfide are mixed with water prior to application, it is likely that significant dissociation occurs within the mix tank. In fact, some labels have language to address the formation of crusts or crystals which may occur in the tank prior to application. These surface solids are very likely comprised of elemental sulfur resulting from product dissociation. Regarding risks for freshwater fish resulting from spray drift, it is expected that calcium polysulfide will dissociate to calcium cations and sulfur upon contact with natural water bodies. Thus, no mitigation for terrestrial species or freshwater fish is warranted at this time.

Endangered Species Considerations

The Agency has developed the Endangered Species Protection Program to carry out its responsibilities under FIFRA in compliance with the Endangered Species Act (ESA). The ESA requires Federal agencies to ensure that their actions are not likely to jeopardize listed species or adversely modify designated critical habitat, and requires Federal agencies to use their authorities to further the purposes of the Act by carrying out programs for the conservation of listed species. To analyze the potential of registered pesticide uses that may affect any particular species, EPA uses basic toxicity and exposure data and considers ecological parameters, pesticide use information, geographic relationship between specific pesticide uses and species locations, and biological requirements and behavioral aspects of the particular species.

In accordance with the agreement between the U.S. EPA Office of Pesticide Programs and the U.S. Fish and Wildlife Service and the National Marine Fisheries Service (Letter of Agreement, <http://endangered.fws.gov/consultations/pesticides/evaluation.pdf>), the Agency has provided in this risk assessment an interpretation of the listed species' LOCs in terms of the chance of an individual effect should organisms be exposed to a media concentration or dose corresponding to 1/10 or 1/20 of the LC₅₀, LD₅₀, or EC₅₀ used as the acute toxicity measurement endpoint for a particular taxonomic group. The Agency has reviewed the data and other information for calcium polysulfide and its degradates and concludes that this fungicide does not warrant action under the Endangered Species Act. Although EPA's

screening-level assessment shows that there are possible “effects” on listed species or their critical habitat (some RQ values were above the level of concern for endangered species), the Agency has determined that mitigation is not warranted at this time, based on the characterizations presented above in the respective sections for exposure scenarios and toxicity data for fish, birds, and mammals. Thus, this determination was derived by the Agency based on the evaluation and characterization of relevant exposure assessments and toxicity tests that were conducted on aquatic and terrestrial animals, as well as aquatic and terrestrial plants.

The Endangered Species Protection Program as described in a Federal Register notice (54 FR 27984-28008, July 3, 1989) is currently being implemented on an interim basis. As part of the interim program, the Agency has developed County Specific Pamphlets that articulate many of the specific measures outlined in the Biological Opinions issued to date. The Pamphlets are available for voluntary use by pesticide applicators on the EPA website at www.epa.gov/espp. A final Endangered Species Protection Program, which may be altered from the interim program, was proposed for public comment in the Federal Register on December 2, 2002.

XII. Drinking Water Considerations:

Since calcium polysulfide dissociates quickly in the environment, runoff and/or leaching into nearby water bodies is assumed to be negligible; thus, aquatic exposure models which consider runoff and/or leaching, such as GENEEC2 and PRZM/EXAMS, are not used in this assessment. In the receiving water systems, the modest amounts of calcium and sulfur that result from the use of calcium polysulfide is not believed to be significant when compared to their respective natural background levels.

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**Appendix 1. BEAD Screening Level Usage Analysis
for Calcium Polysulfide for Agricultural Uses and Other Information**

Screening Level Usage Analysis for

(Inorganic polysulfides (PC code 076702))

2/07/05

What is a Screening Level Usage Analysis (SLUA)?

- Available estimates of pesticide usage data for a particular active ingredient that is used on **agricultural** crops in the United States.

What does it contain?

- Pesticide usage data for a **single** active ingredient only.
- Agricultural use sites (crops) that the pesticide is *reported* to be used on
- Pesticide usage information on the national level for the United States.
- Annual percent of crop treated (**average & maximum**) for each agricultural use site.
- Average annual pounds of the pesticide applied for each agricultural use site.

What assumptions can I make about the data reported?

- **Average pounds of active ingredient applied** - Values are calculated by merging pesticide usage data sources together; averaging by year, averaging across all years, & then rounding. *Note:* If the estimated value is less than 500, then that value is labeled <500. Estimated values between 500 & <1,000,000 are rounded to 1 significant digit. Estimated values of 1,000,000 or greater are rounded to 2 significant digits.)
- **Average percent of crop treated** - Values are calculated by merging data sources together; averaging by year, averaging across all years, & rounding to the nearest multiple of 5. *Note:* If the estimated value is less than 1, then the value is labeled <1.
- **Maximum percent of crop treated** - Value is the single maximum value reported across all data sources, across all years, & rounded up. *Note:* If the estimated value is less than 2.5, then the value is labeled <2.5.

What are the data sources used?

- **USDA-NASS** (United States Department of Agriculture's National Agricultural Statistics Service) – pesticide usage data from 1998 to 2003.
- **NCFAP** (National Center for Food and Agricultural Policy) – pesticide usage data from 1997 & is *only* used if data is not available from the other sources.
- **Private pesticide market research** – pesticide usage data from 1998 to 2003.

What are the limitations to the data?

- Registered/labeled uses may exist but **are not surveyed** by the available data sources.
- Lack of reported usage data for the pesticide on a crop **does not imply** zero usage.
- Usage data on a particular site may be noted in data sources, but **not quantified**. In these instances, no usage would be reported in the SLUA for that use site.

- Non-agricultural use sites (e.g., turf, post-harvest, mosquito control, etc.) are not reported in the SLUA. A separate request must be made to receive these estimates.

Who do I contact for further information and/or questions on this SLUA?

- (Jenna Carter, Botanist, BEAD)
- ((703)308-8370, carter.jenna@epa.gov)

Screening Level Estimates of Agricultural Uses of Inorganic polysulfides
Sorted Alphabetically

OBS	Crop	Lbs. A.I.	Percent Crop Ttd.	
			Avg.	Max.
1	Almonds	6,000	<1	<2.5
2	Apples	700,000	10	15
3	Apricots	10,000	5	10
4	Blackberries	70,000	65	75
5	Blueberries	20,000	5	5
6	Cherries	100,000	5	5
7	Grapefruit	<500	<1	<2.5
8	Grapes	600,000	5	10
9	Hazelnuts (Filberts)	10,000	<1	<2.5
10	Lemons	9,000	<1	5
11	Oranges	30,000	<1	<2.5
12	Peaches	40,000	<1	5
13	Pears	300,000	15	25
14	Prunes & Plums	7,000	<1	<2.5
15	Raspberries	60,000	50	70
16	Walnuts	10,000	<1	<2.5

All numbers rounded.

'<500' indicates less than 500 pounds of active ingredient.

'<2.5' indicates less than 2.5 percent of crop is treated.

(slua003k.sas a005a8n.sas Inorganic polysulfides)



NSF Product and Service Listings

These NSF Official Listings are current as of **Thursday, September 30, 2010** at 12:15 a.m. Eastern Time. Please contact [NSF International](http://www.nsf.org) to confirm the status of any Listing, report errors, or make suggestions.

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<http://www.nsf.org/Certified/PwsChemicals/Listings.asp?Company=3L430&Standard=060&>

NSF/ANSI STANDARD 60 Drinking Water Treatment Chemicals - Health Effects

Tessengerlo Kerley, Inc.

2255 North 44th Street

Suite 300

Phoenix, AZ 85008

United States

602-889-8300

[Visit this company's website](#)

Facility : Eufaula, AL

Calcium Thiosulfate[1]

Trade Designation

CAPTOR®

Product Function

Ozone Reduction

Dechlorination

Max Use

50mg/L

Calcium Thiosulfate

Ozone Reduction

Dechlorination

50mg/L

[1] This product is to be used for the destruction of residual chlorine. It should be applied only to the extent necessary to ensure chlorine removal. Actual chlorine concentration in the water should be used to calculate the necessary dose of calcium thiosulfate.

Facility : Fresno, CA

Calcium Polysulfide[1]

Trade Designation

Calmet

Product Function

Other

Precipitation Agent

Max Use

NA

[1] This product is used to treat heavy metals in wells used as drinking water sources. It should be applied according to the manufacturer's dosage chart.

Calcium Thiosulfate[2]

Trade Designation

CAPTOR®

Product Function

Dechlorination

Ozone Reduction

Max Use

50mg/L

[2] This product is to used for the destruction of residual chlorine. It should be applied only to the extent necessary to ensure chlorine removal. Actual chlorine concentration in the water should be used to calculate the necessary dose of calcium thiosulfate.

Facility : Kennewick, WA

Calcium Polysulfide[1]

Trade Designation

Calmet

Product Function

Other

Precipitation Agent

Max Use

NA

[1] This product is to be used to treat heavy metals in wells used as drinking water sources. Product should be applied according to the manufacturer's dosage chart.

Calcium Thiosulfate[2]

Trade Designation

CAPTOR®

Product Function

Dechlorination

Ozone Reduction

Max Use

50mg/L

[2] This product is to be used for the destruction of residual chlorine. It should be applied only to the extent necessary to ensure chlorine removal. Actual chlorine concentration in the water should be used to calculate the necessary dose of calcium thiosulfate.

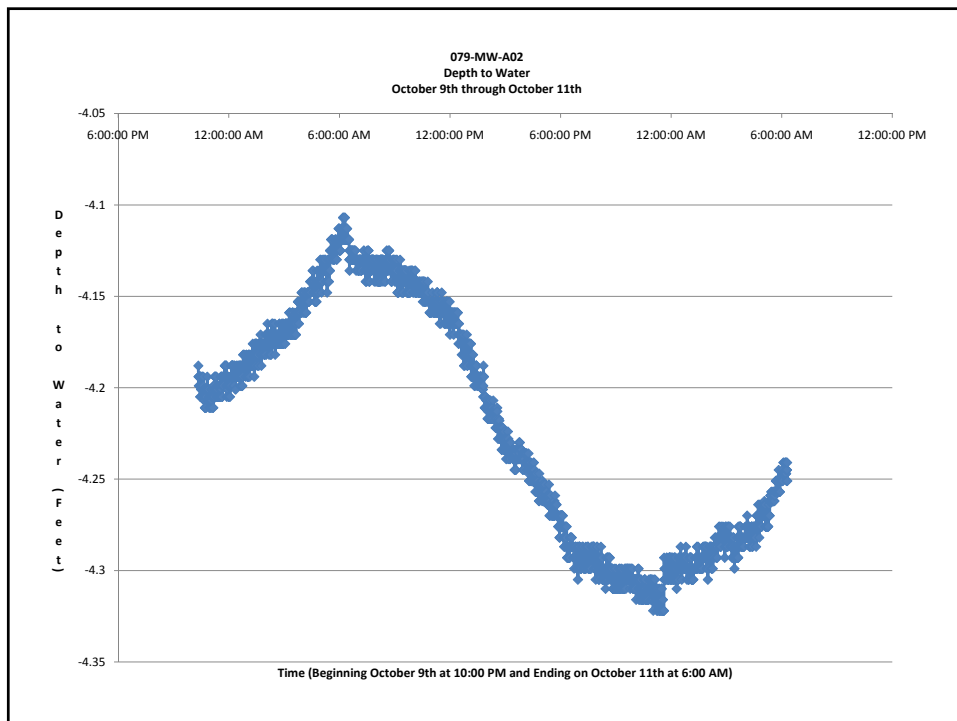
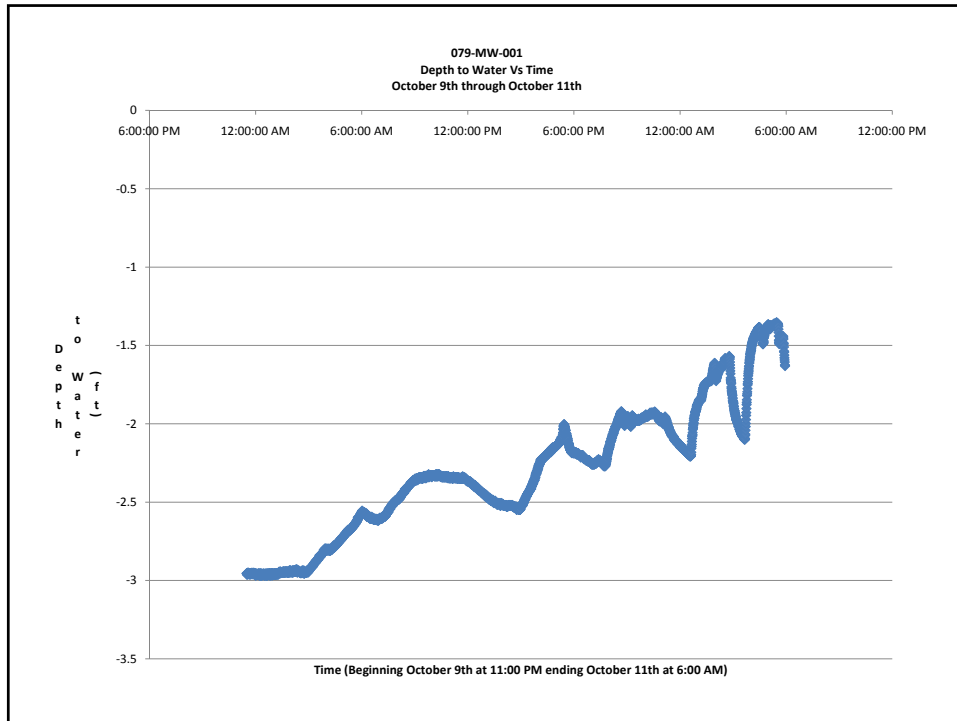
Number of matching Manufacturers is 1

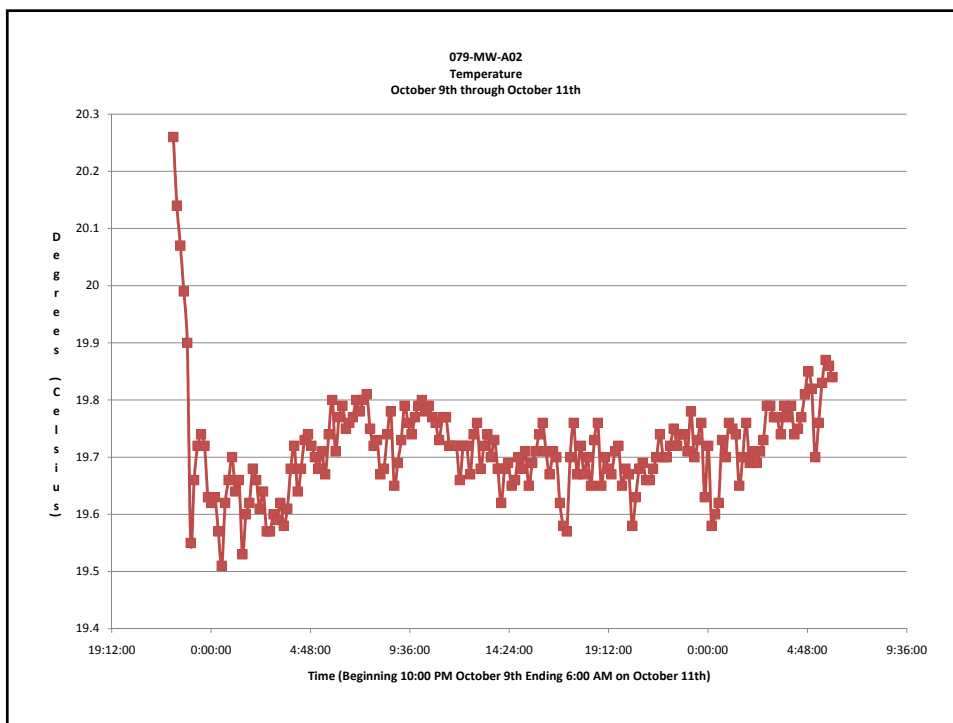
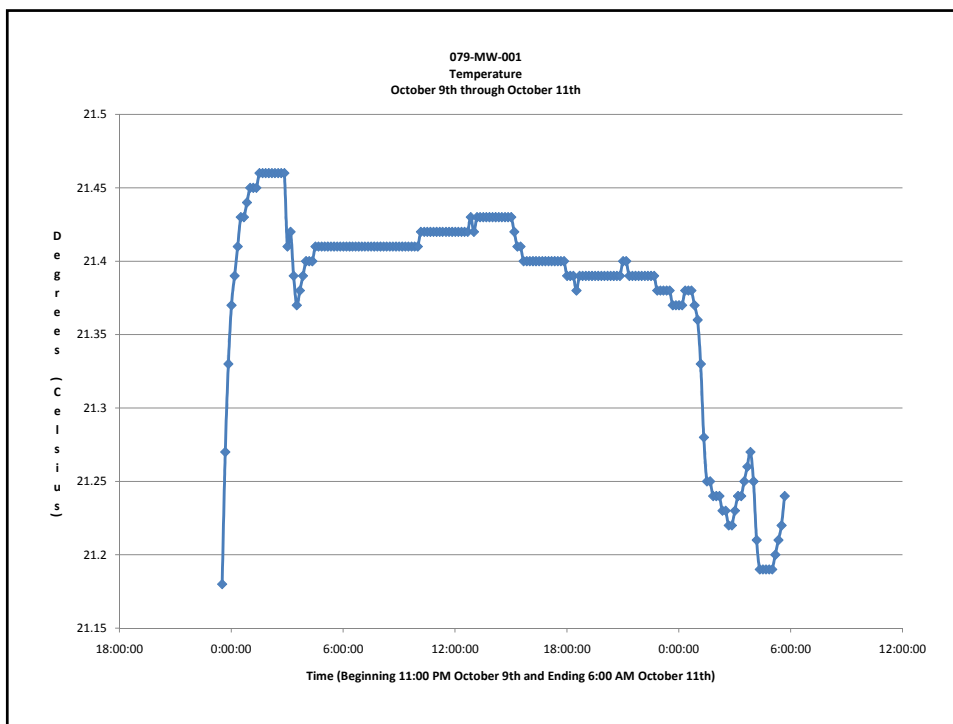
Number of matching Products is 6

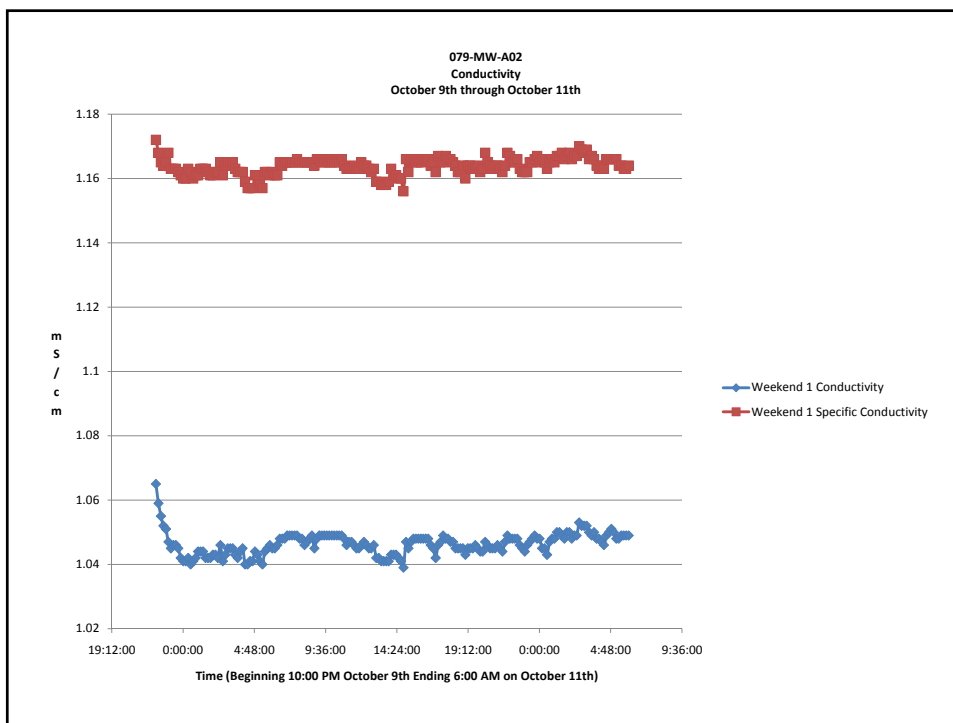
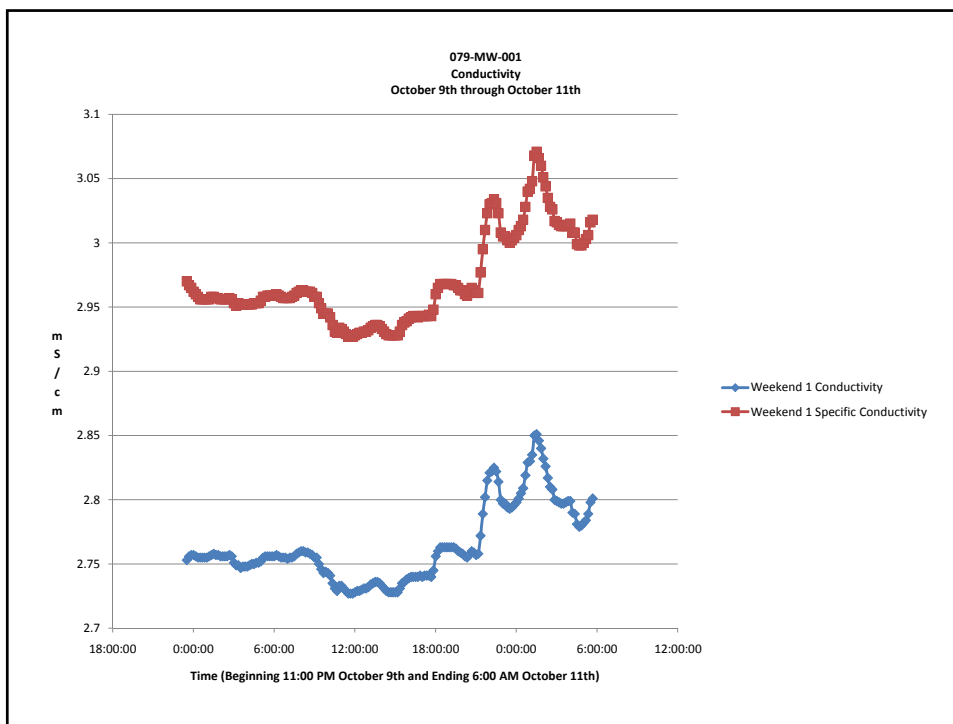
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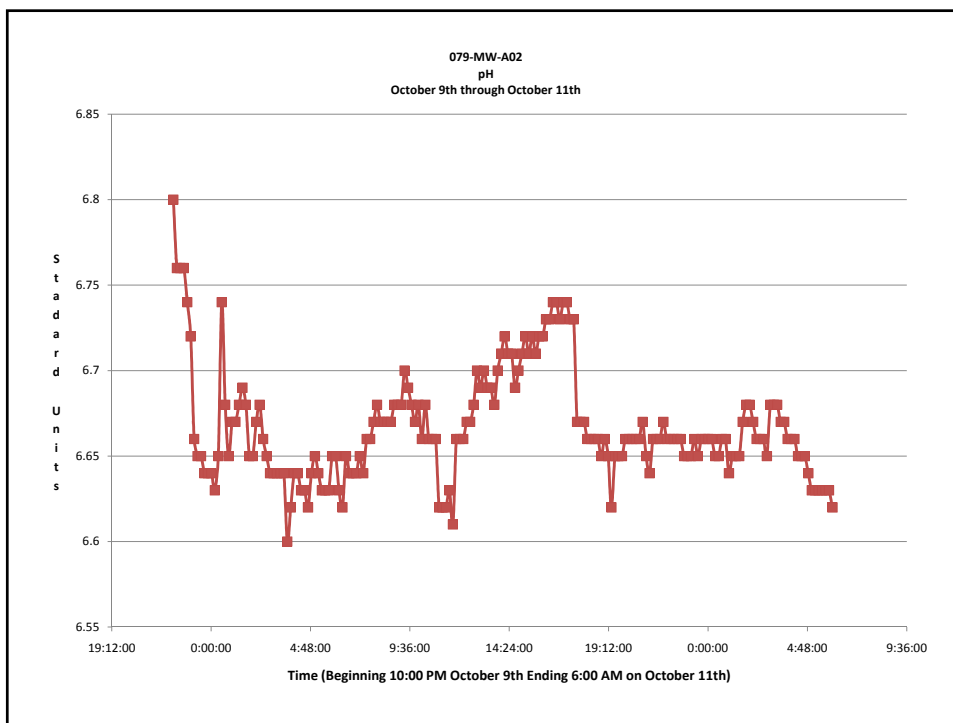
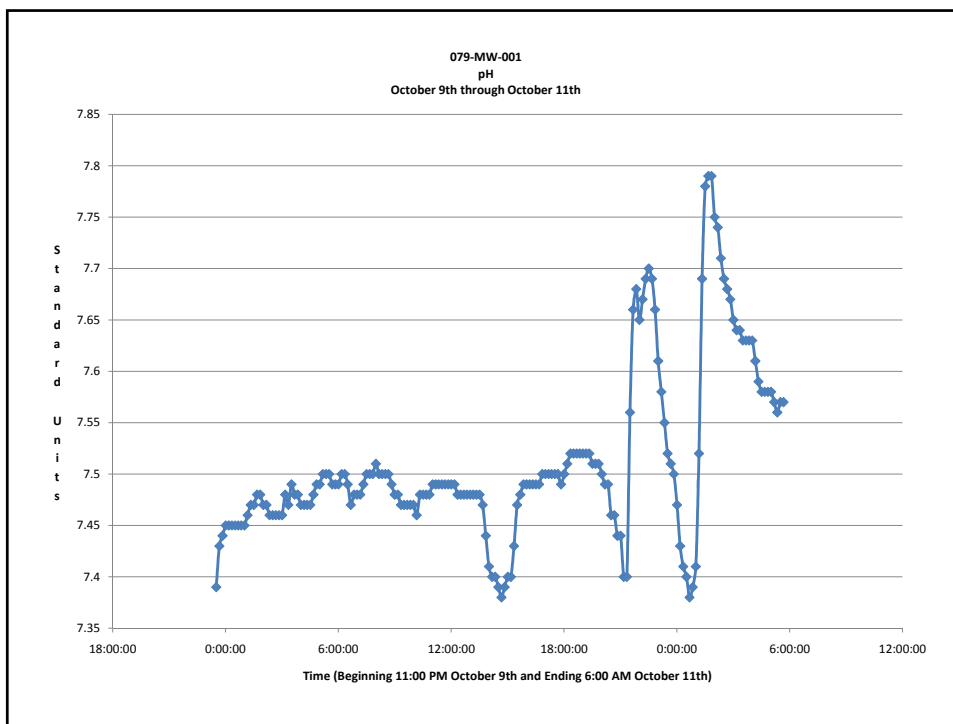
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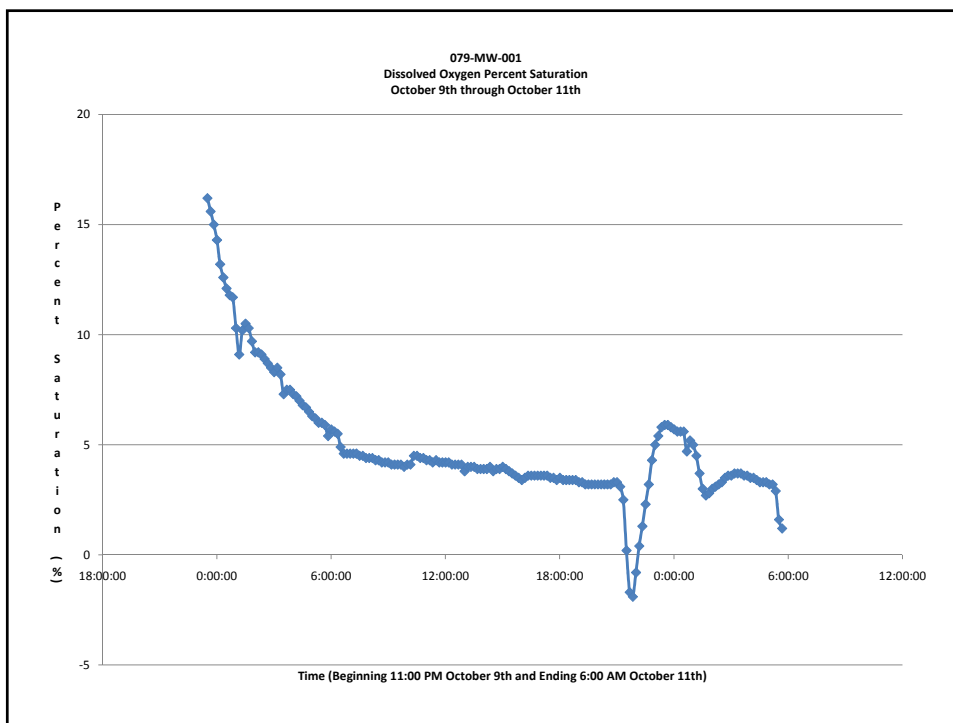
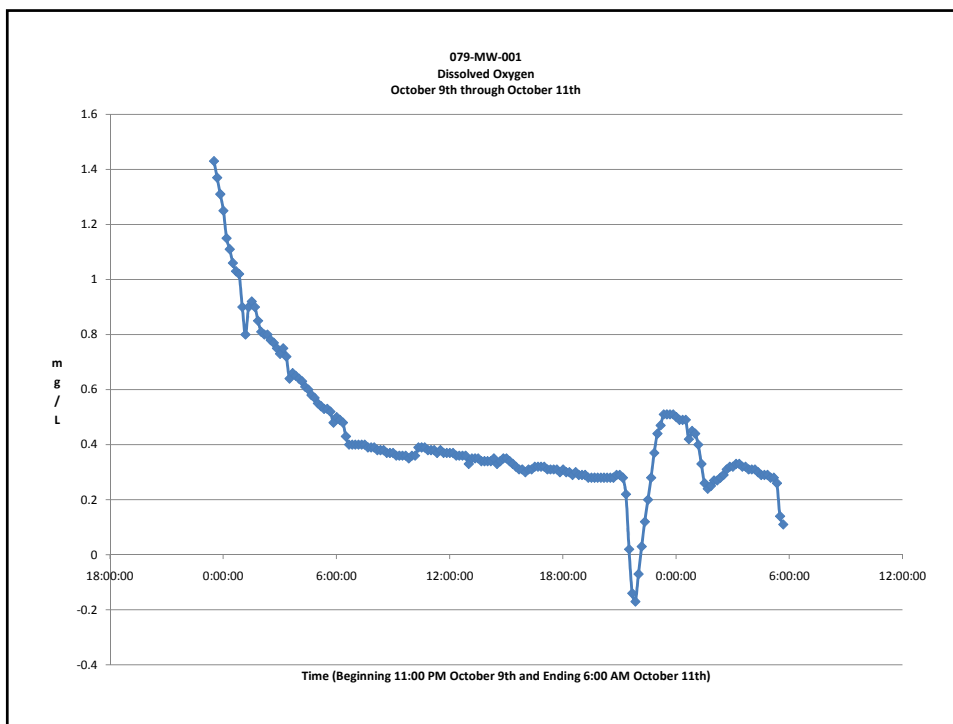
APPENDIX D
DATA LOGGER RECORDS AND FIELD MEASUREMENT TABLES

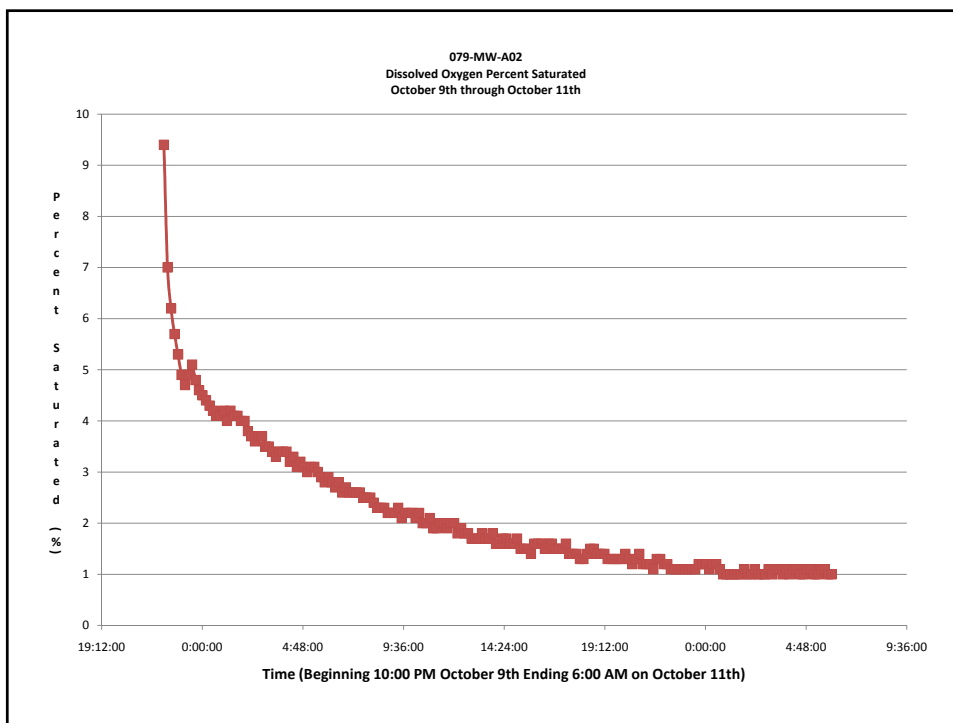
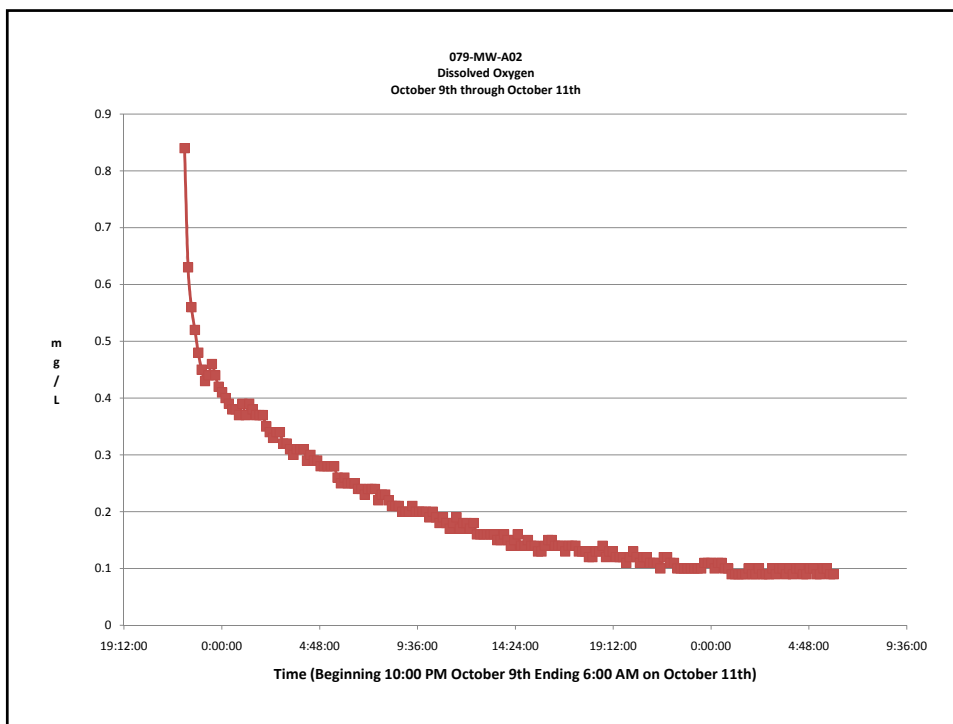


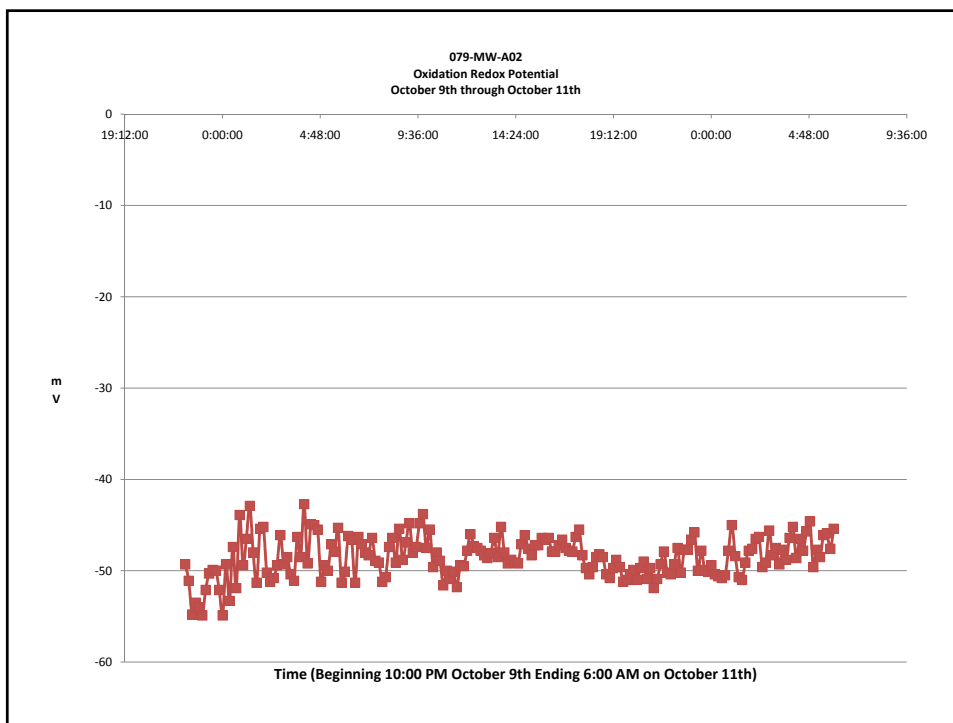
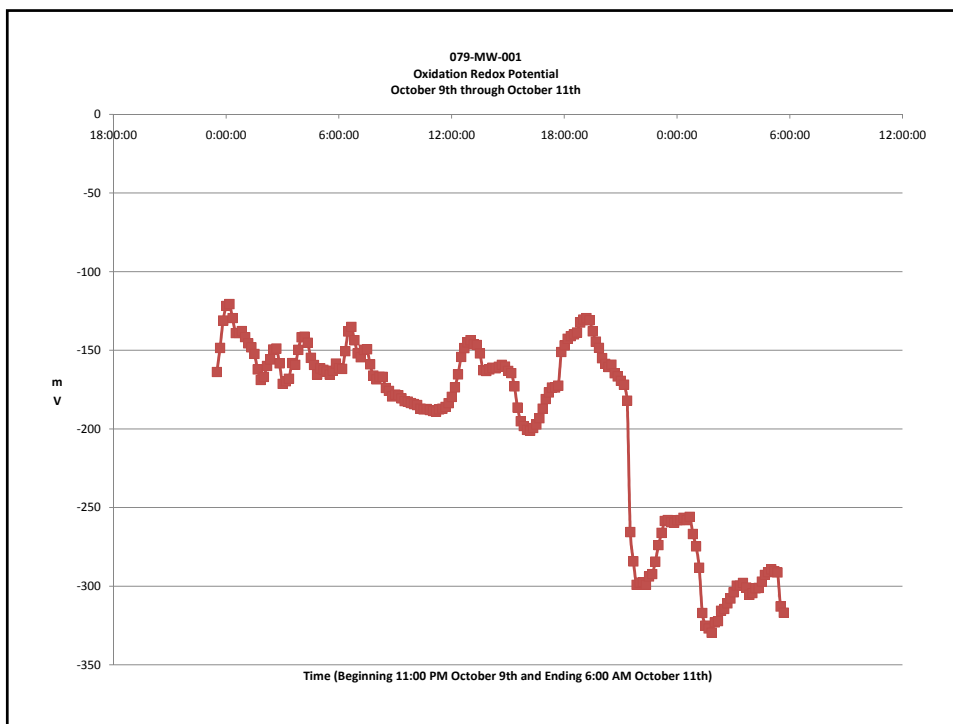


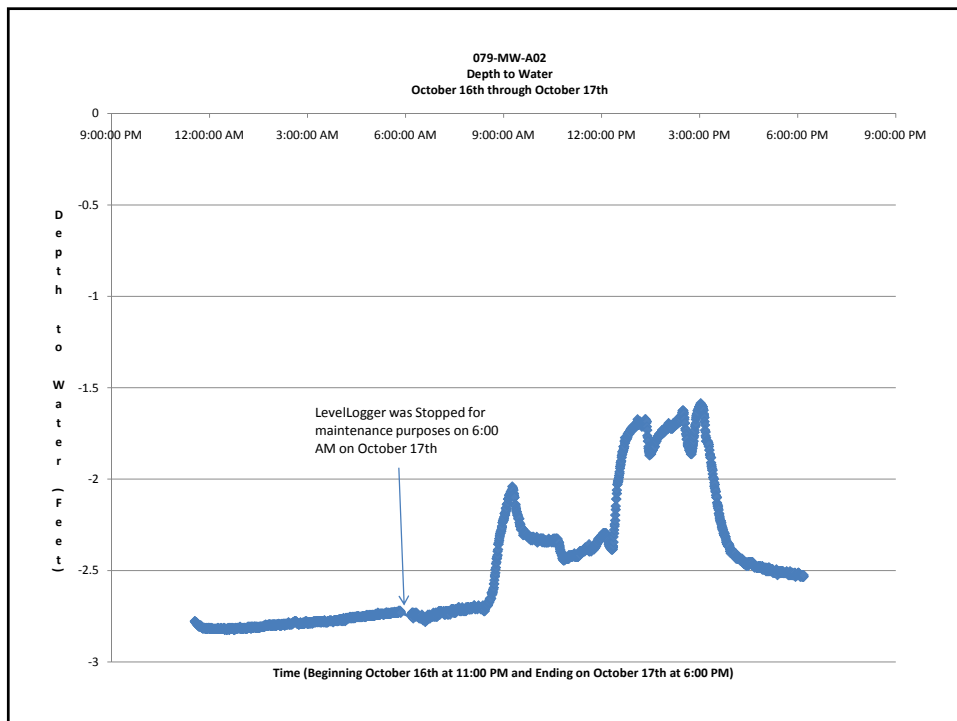
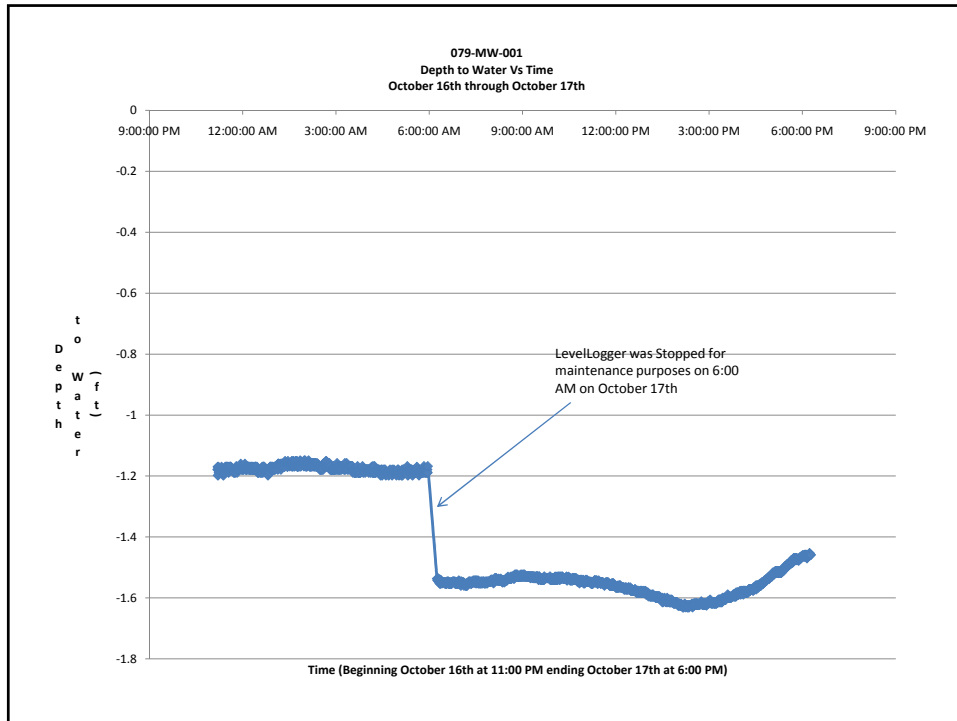


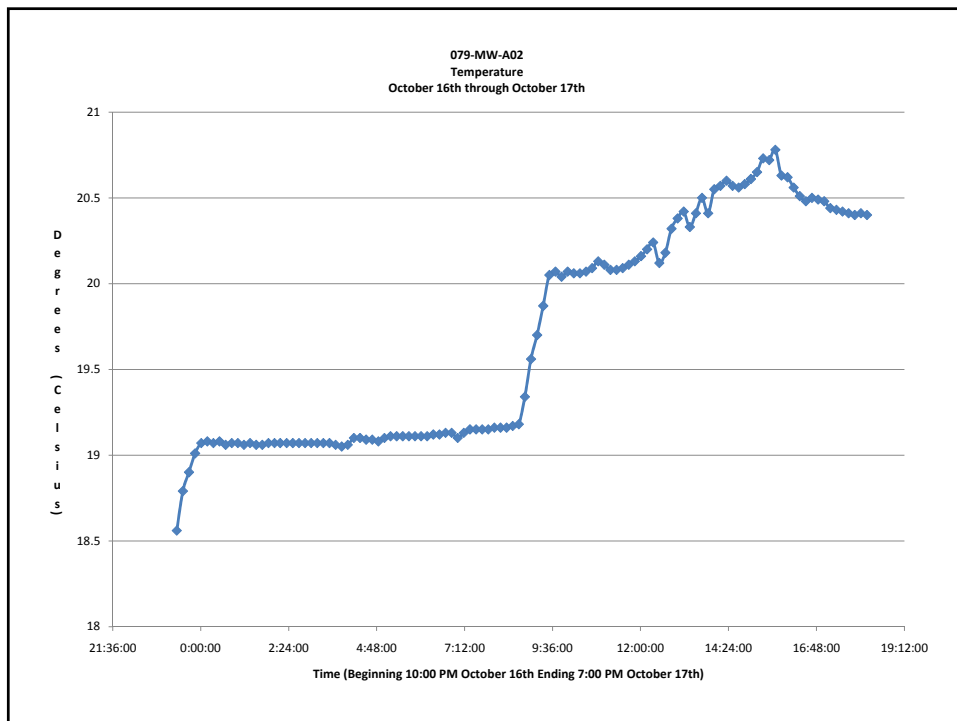
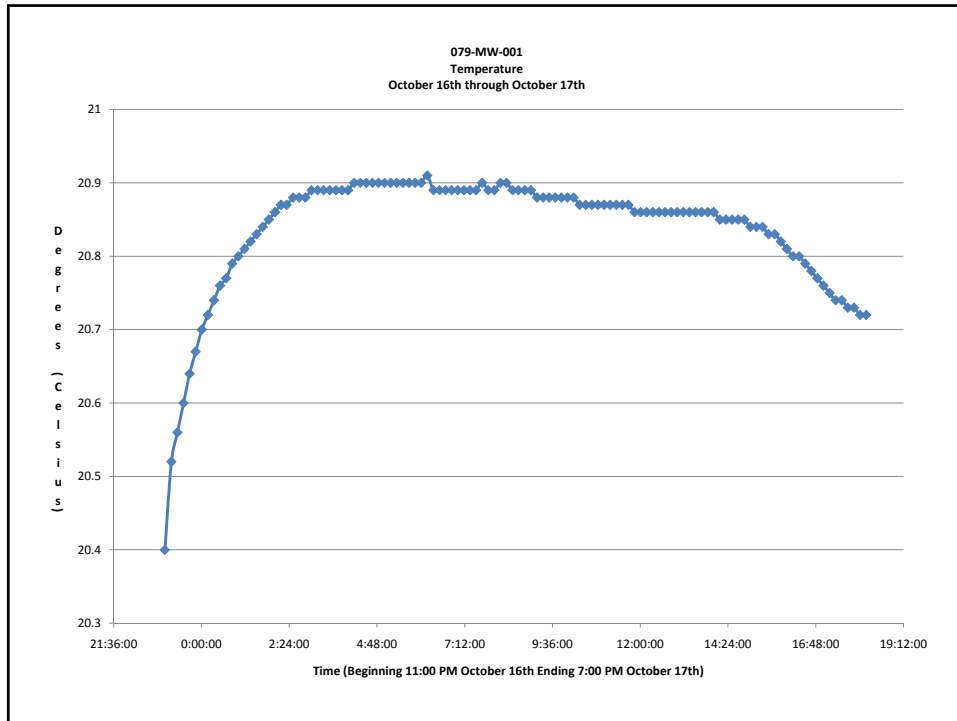


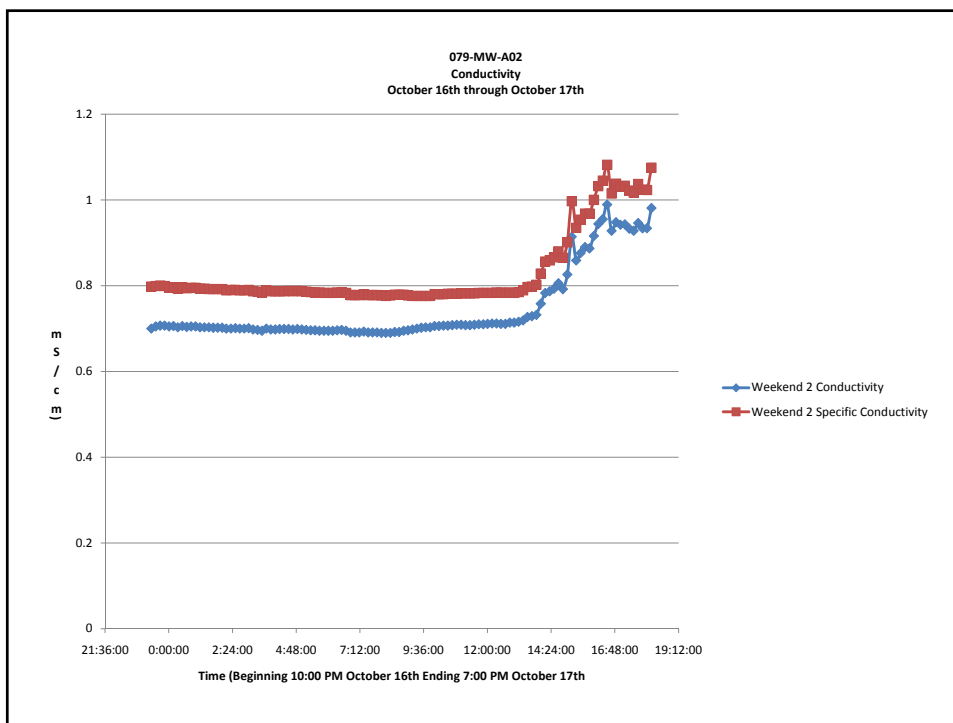
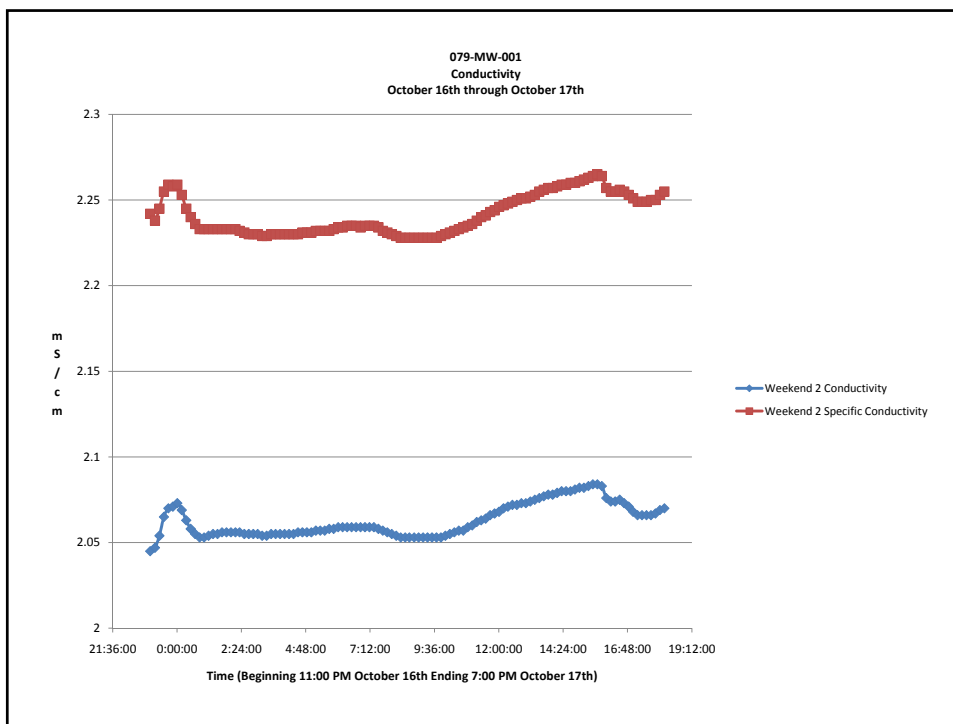


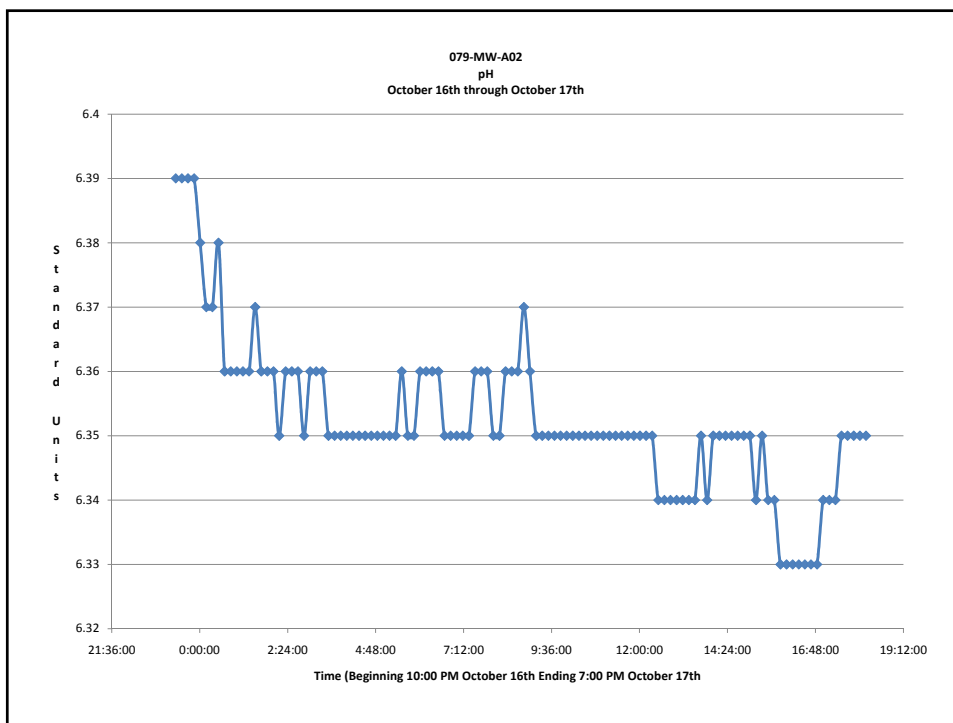
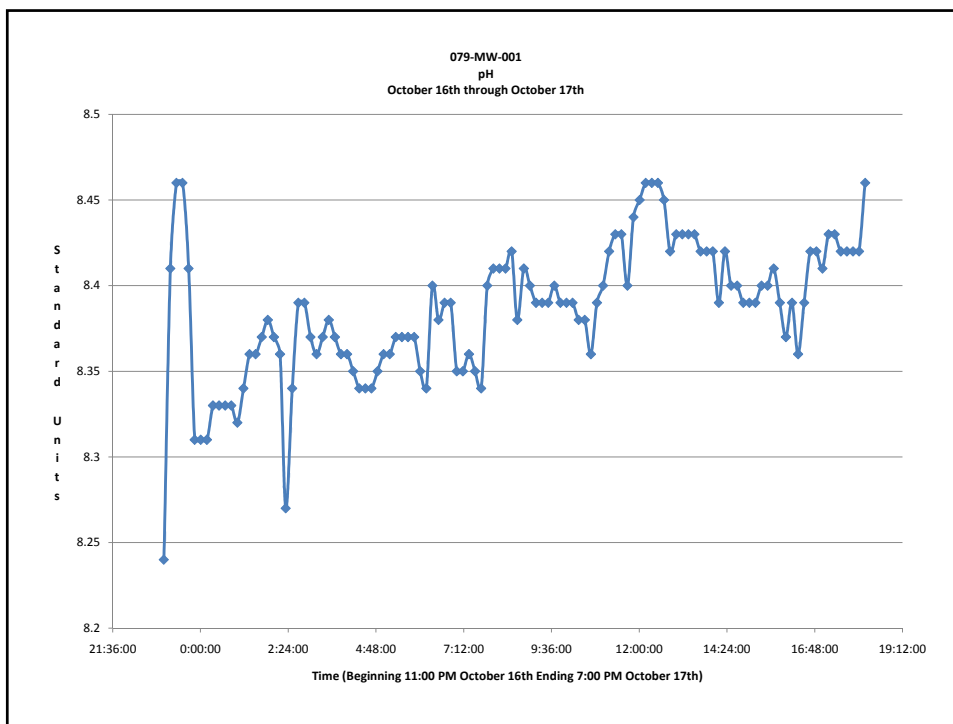


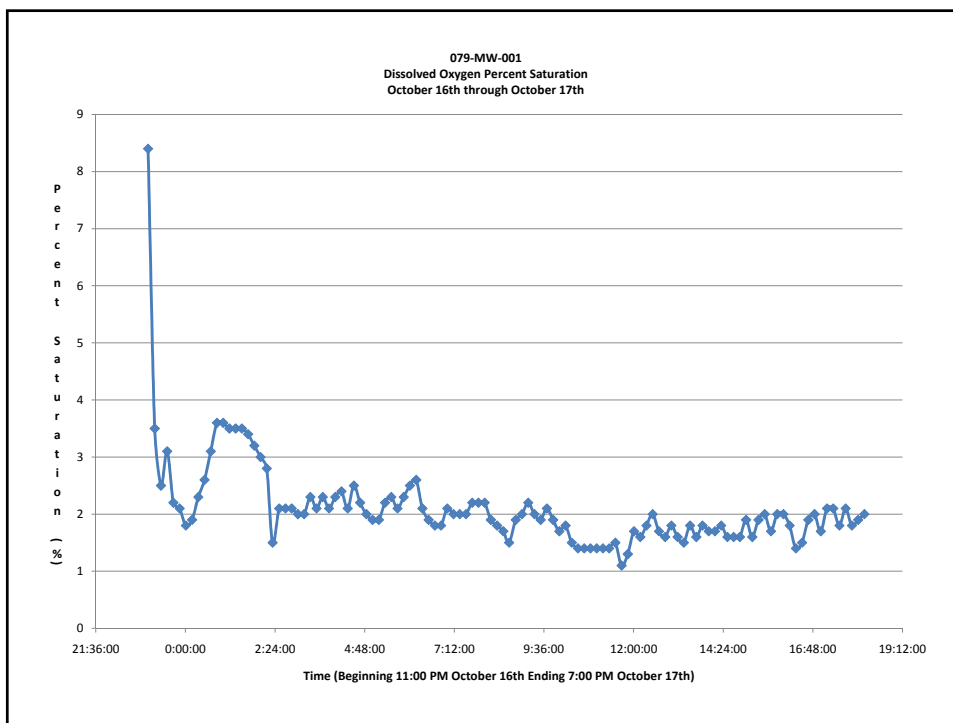
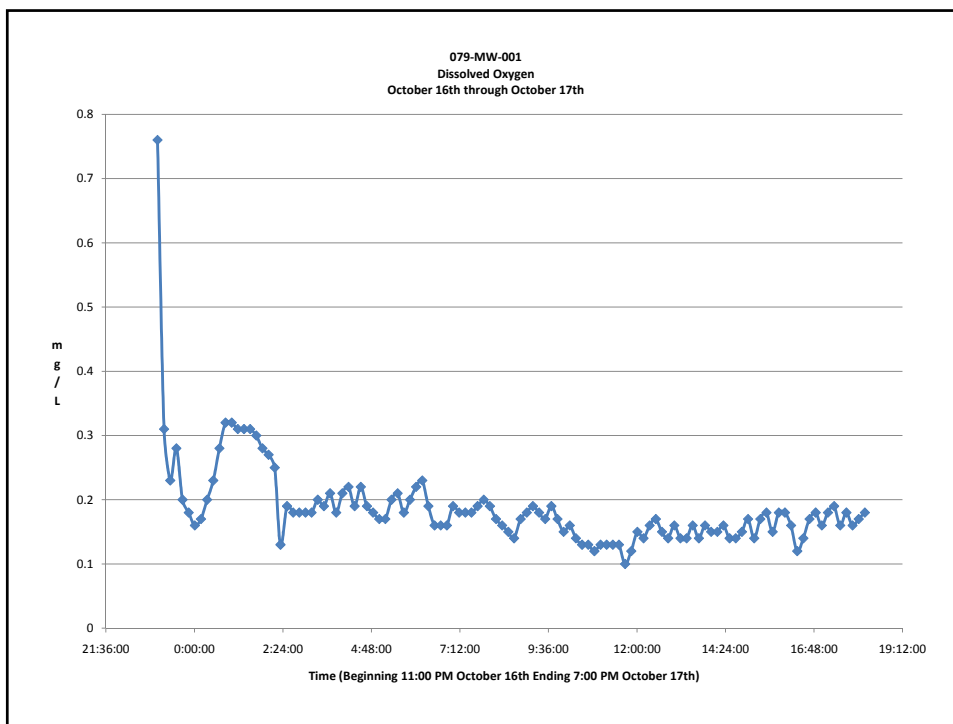


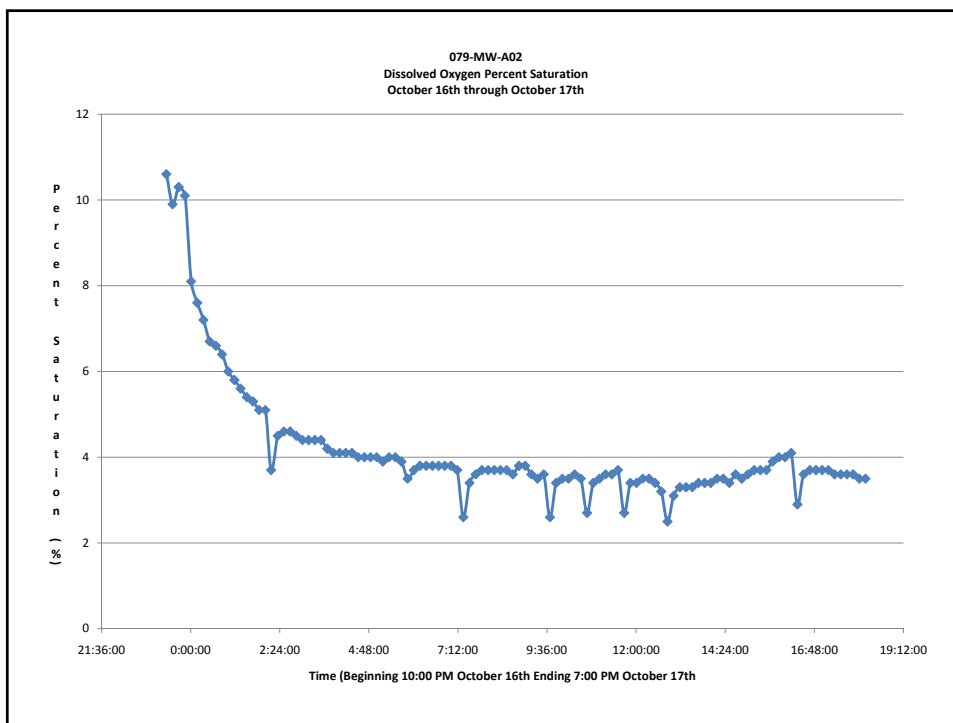
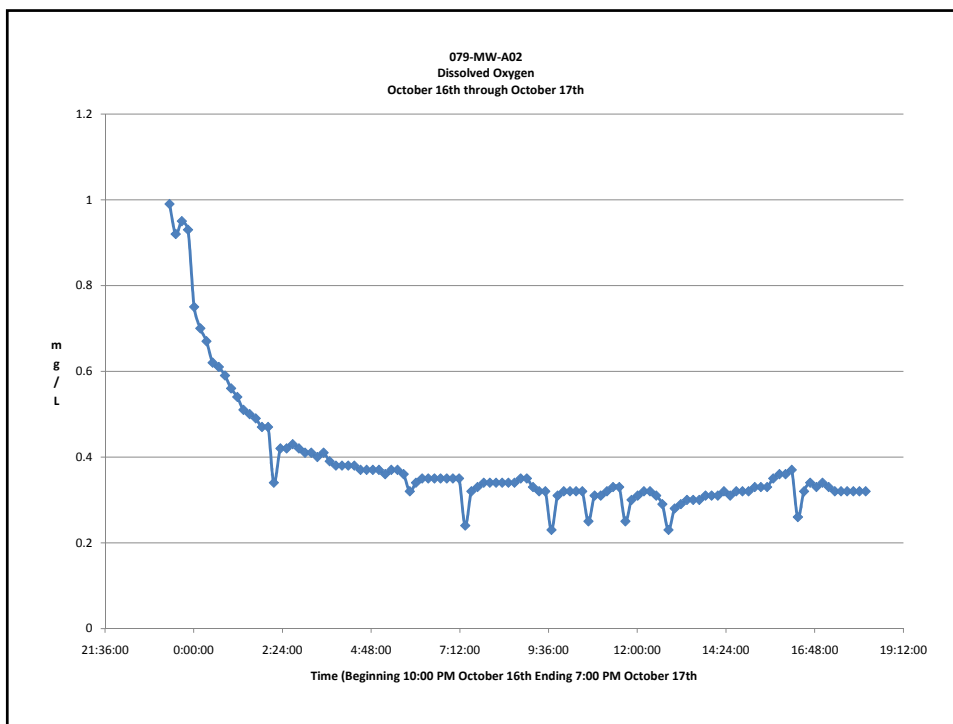


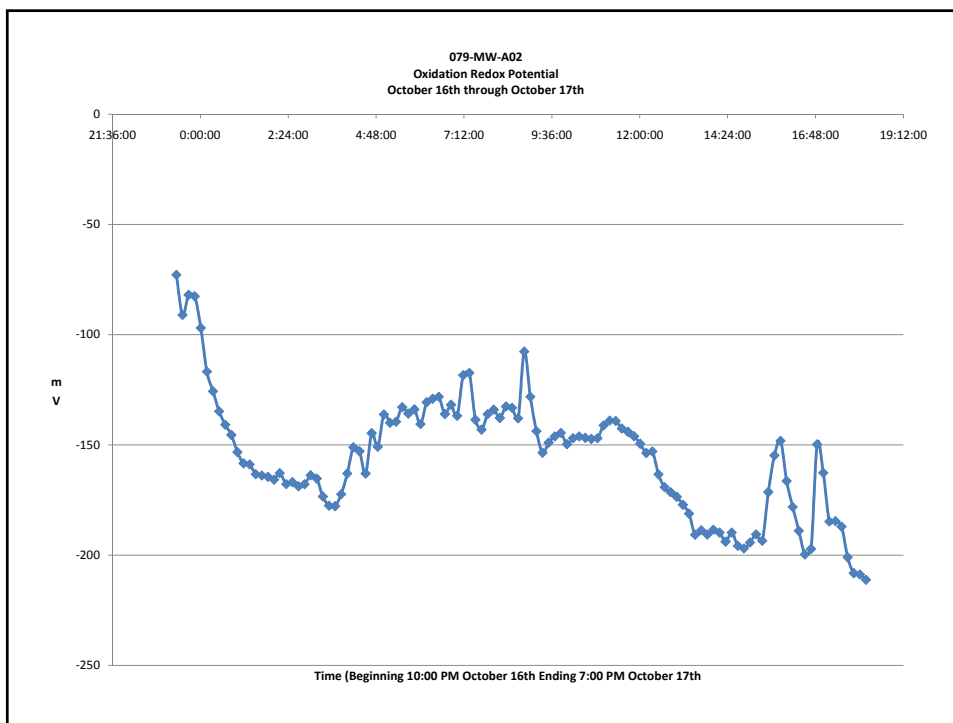
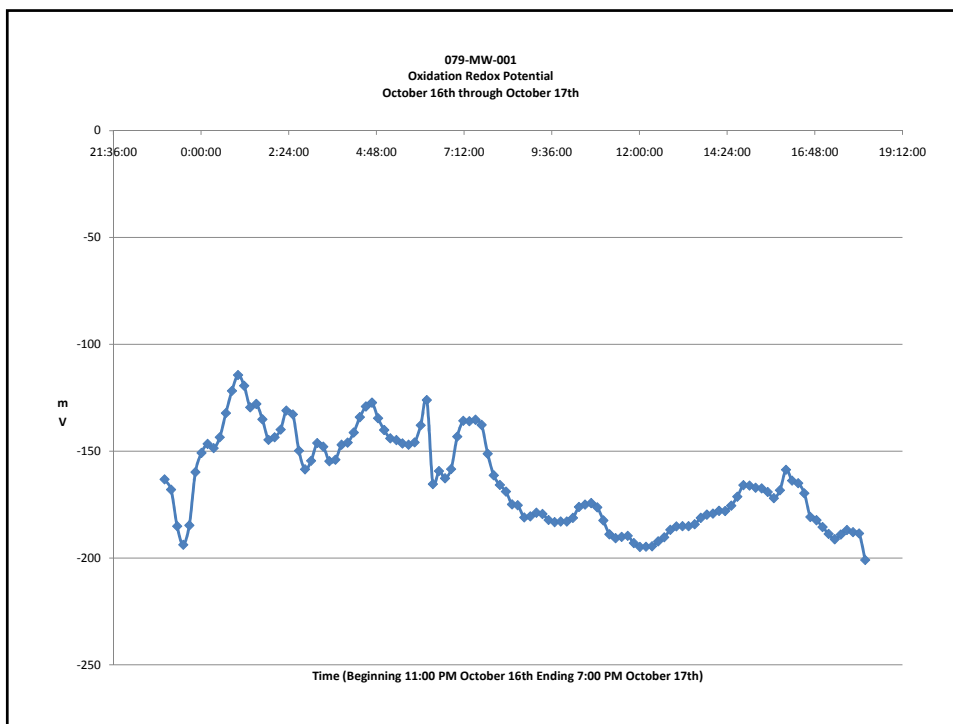












Data file for DataLogger.

=====

COMPANY : <Company name>

COMP.STATUS: Do

DATE : 11/10/2010

TIME : 14:04:29

FILENAME : C:\Documents and Settings\jfrady\My Documents\DiverOffice\10-11-10\CSV\15826_101011140428_G1819.CSV

CREATED BY : SWS Diver-Office 3.2.0.0

===== BEGINNING OF DATA =====

[Logger settings]

Instrument type =Micro-Diver=15

Status =Started =0

Serial number =.00-G1819 215.

Instrument number =
=0

Location =15826

Sample period =S30

Sample method =T

Number of channels =2

[Channel 1]

Identification =PRESSURE

Reference level =13.123 ft

Range =57.415 ft

Master level =0 m

Altitude =0 ft

[Channel 2]

Identification =TEMPERATURE

Reference level =-4.00 °F

Range =180.00 °F

[Series settings]

Serial number =.00-G1819 215.

Instrument number =

Location =15826

Sample period =00 00:00:30 0
Sample method =T
Start date / time =29:29:23 09/10/10
End date / time =59:55:05 11/10/10

[Channel 1 from data header]

Identification =PRESSURE
Reference level =13.123 ft
Range =57.415 ft
Master level =0 m
Altitude =0 ft

[Channel 2 from data header]

Identification =TEMPERATURE
Reference level =-4.00 °F
Range =180.00 °F

[Data]

3654

Date/time	Pressure[ft	Temperature[°F]
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10/9/2010 23:30	35.827	70.31
10/9/2010 23:30	35.835	70.35
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10/9/2010 23:31	35.835	70.41
10/9/2010 23:32	35.827	70.43
10/9/2010 23:32	35.835	70.45
10/9/2010 23:33	35.835	70.47
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10/9/2010 23:34	35.84	70.5
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10/10/2010 1:04	35.827	70.72

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10/10/2010 1:09	35.835	70.72
10/10/2010 1:10	35.835	70.72
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10/10/2010 1:14	35.835	70.72
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END OF DATA FILE OF DATALOGGER FOR WINDOWS

Data file for DataLogger.

=====

COMPANY : <Company name>

COMP.STATUS: Do

DATE : 18/10/2010

TIME : 10:07:01

FILENAME : C:\Documents and Settings\JDillon\My Documents\DiverOffice\SA-5 site 079\CSV\15117_101018100701_D6241.CSV

CREATED BY : SWS Diver-Office 3.2.0.0

===== BEGINNING OF DATA =====

[Logger settings]

Instrument type =Micro-Diver=15

Status =Started =0

Serial number =.00-D6241 215.

Instrument number =
=0

Location =15117

Sample period =S30

Sample method =T

Number of channels =2

[Channel 1]

Identification =PRESSURE

Reference level =13.123 ft

Range =57.415 ft

Master level =0 m

Altitude =0 ft

[Channel 2]

Identification =TEMPERATURE

Reference level =-20.00 °C

Range =100.00 °C

[Series settings]

Serial number =.00-D6241 215.

Instrument number =

Location =15117

Sample period =00 00:00:30 0
Sample method =T
Start date / time =14:11:23 16/10/10
End date / time =14:57:05 17/10/10

[Channel 1 from data header]

Identification =PRESSURE
Reference level =13.123 ft
Range =57.415 ft
Master level =0 m
Altitude =0 ft

[Channel 2 from data header]

Identification =TEMPERATURE
Reference level =-20.00 °C
Range =100.00 °C

[Data]

813

Date/time	Pressure[ft]	Temperature[°C]
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10/16/2010 23:11	37.62	20.39
10/16/2010 23:12	37.592	20.41
10/16/2010 23:12	37.611	20.42
10/16/2010 23:13	37.62	20.43
10/16/2010 23:13	37.601	20.44
10/16/2010 23:14	37.611	20.45
10/16/2010 23:14	37.611	20.46
10/16/2010 23:15	37.611	20.46
10/16/2010 23:15	37.611	20.48
10/16/2010 23:16	37.611	20.48
10/16/2010 23:16	37.611	20.48
10/16/2010 23:17	37.611	20.49
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10/16/2010 23:18	37.601	20.49
10/16/2010 23:18	37.611	20.49

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10/17/2010 0:01	37.62	20.56
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10/17/2010 0:05	37.611	20.56
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10/17/2010 0:07	37.611	20.56
10/17/2010 0:08	37.611	20.56
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10/17/2010 0:10	37.62	20.56
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10/17/2010 0:12	37.62	20.56
10/17/2010 0:12	37.611	20.56
10/17/2010 0:13	37.62	20.56
10/17/2010 0:13	37.611	20.56
10/17/2010 0:14	37.611	20.56
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10/17/2010 5:57	37.622	20.58

END OF DATA FILE OF DATALOGGER FOR WINDOWS

Data file for DataLogger.

=====

COMPANY : <Company name>

COMP.STATUS: Do

DATE : 18/10/2010

TIME : 13:16:46

FILENAME : C:\Documents and Settings\JDillon\My Documents\DiverOffice\SA-5 site 079\CSV\14534_101018131646_C3122.CSV

CREATED BY : SWS Diver-Office 3.2.0.0

===== BEGINNING OF DATA =====

[Logger settings]

Instrument type =Micro-Diver=15

Status =Started =0

Serial number =.00-C3122 215.

Instrument number =
=0

Location =14534

Sample period =S30

Sample method =T

Number of channels =2

[Channel 1]

Identification =PRESSURE

Reference level =13.123 ft

Range =57.415 ft

Master level =0 m

Altitude =0 ft

[Channel 2]

Identification =TEMPERATURE

Reference level =-20.00 °C

Range =100.00 °C

[Series settings]

Serial number =.00-C3122 215.

Instrument number =

Location =14534

Sample period =00 00:00:30 0
Sample method =T
Start date / time =33:15:06 17/10/10
End date / time =33:13:10 18/10/10

[Channel 1 from data header]

Identification =PRESSURE
Reference level =13.123 ft
Range =57.415 ft
Master level =0 m
Altitude =0 ft

[Channel 2 from data header]

Identification =TEMPERATURE
Reference level =-20.00 °C
Range =100.00 °C

[Data]

3357

Date/time	Pressure[ft]	Temperature[°C]
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10/17/2010 6:16	37.247	19.03
10/17/2010 6:16	37.247	19.43
10/17/2010 6:17	37.253	19.74
10/17/2010 6:17	37.253	19.98
10/17/2010 6:18	37.253	20.17
10/17/2010 6:18	37.249	20.31
10/17/2010 6:19	37.247	20.43
10/17/2010 6:19	37.241	20.52
10/17/2010 6:20	37.238	20.6
10/17/2010 6:20	37.247	20.65
10/17/2010 6:21	37.249	20.71
10/17/2010 6:21	37.236	20.74
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10/17/2010 15:32	37.19	20.93
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10/17/2010 15:41	37.19	20.93
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10/17/2010 16:00	37.213	20.92

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10/17/2010 16:02	37.207	20.93
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10/17/2010 16:03	37.213	20.92
10/17/2010 16:04	37.207	20.93
10/17/2010 16:04	37.213	20.93
10/17/2010 16:05	37.207	20.92
10/17/2010 16:05	37.207	20.92
10/17/2010 16:06	37.201	20.92
10/17/2010 16:06	37.213	20.92
10/17/2010 16:07	37.213	20.92
10/17/2010 16:07	37.213	20.92
10/17/2010 16:08	37.213	20.92
10/17/2010 16:08	37.207	20.92
10/17/2010 16:09	37.207	20.92
10/17/2010 16:09	37.213	20.92
10/17/2010 16:10	37.207	20.92
10/17/2010 16:10	37.213	20.92
10/17/2010 16:11	37.207	20.92
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10/17/2010 16:13	37.213	20.92
10/17/2010 16:14	37.213	20.92
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10/17/2010 16:15	37.207	20.92
10/17/2010 16:16	37.213	20.92
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10/17/2010 16:17	37.218	20.91
10/17/2010 16:17	37.218	20.92
10/17/2010 16:18	37.213	20.92

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10/17/2010 16:19	37.213	20.91
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10/17/2010 16:22	37.218	20.91
10/17/2010 16:22	37.218	20.91
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10/17/2010 16:23	37.218	20.91
10/17/2010 16:24	37.218	20.91
10/17/2010 16:24	37.218	20.91
10/17/2010 16:25	37.218	20.91
10/17/2010 16:25	37.213	20.91
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10/17/2010 16:38	37.236	20.91
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10/17/2010 17:03	37.272	20.89
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10/17/2010 17:09	37.278	20.89
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10/17/2010 17:10	37.278	20.89

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10/17/2010 17:39	37.314	20.87
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10/17/2010 17:40	37.314	20.87
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10/17/2010 17:42	37.312	20.88
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10/17/2010 17:43	37.32	20.87
10/17/2010 17:43	37.314	20.87
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10/17/2010 17:45	37.32	20.87

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10/17/2010 17:49	37.32	20.87
10/17/2010 17:49	37.314	20.87
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10/17/2010 17:50	37.318	20.88
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10/17/2010 17:59	37.324	20.88
10/17/2010 17:59	37.326	20.89
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10/17/2010 18:00	37.324	20.88
10/17/2010 18:01	37.329	20.88
10/17/2010 18:01	37.329	20.88
10/17/2010 18:02	37.329	20.88
10/17/2010 18:02	37.329	20.88
10/17/2010 18:03	37.326	20.89

10/17/2010 18:03	37.326	20.89
10/17/2010 18:04	37.326	20.89
10/17/2010 18:04	37.326	20.89
10/17/2010 18:05	37.331	20.89
10/17/2010 18:05	37.331	20.89
10/17/2010 18:06	37.326	20.89
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10/17/2010 18:07	37.326	20.89
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10/17/2010 18:08	37.326	20.89
10/17/2010 18:08	37.331	20.89
10/17/2010 18:09	37.32	20.89
10/17/2010 18:09	37.326	20.89
10/17/2010 18:10	37.326	20.89
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10/17/2010 18:12	37.331	20.89
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10/17/2010 18:13	37.331	20.89
10/17/2010 18:14	37.331	20.89
10/17/2010 18:14	37.337	20.89
10/17/2010 18:15	37.331	20.89
10/17/2010 18:15	37.331	20.89
10/17/2010 18:16	37.331	20.89
10/17/2010 18:16	37.331	20.89

END OF DATA FILE OF DATALOGGER FOR WINDOWS

Date m/d/y	Time hh:mm:ss	Temp C	SpCond mS/cm	Cond mS/cm	DOsat %	DO mg/L	DOchrg	pH	pH mV	Orp mV	Battery volts
10/9/2010	23:30:40	21.18	2.97	2.753	16.2	1.43	35.7	7.39	-42.1	-163.8	6.5
10/9/2010	23:40:40	21.27	2.967	2.756	15.6	1.37	35.7	7.43	-44.3	-148.5	6.5
10/9/2010	23:50:40	21.33	2.965	2.757	15	1.31	36.9	7.44	-44.9	-131.1	6.4
10/10/2010	0:00:40	21.37	2.962	2.757	14.3	1.25	36.9	7.45	-45.2	-121.8	6.4
10/10/2010	0:10:40	21.39	2.96	2.756	13.2	1.15	36.9	7.45	-45.2	-120.6	6.4
10/10/2010	0:20:40	21.41	2.958	2.755	12.6	1.11	35.7	7.45	-45.3	-129.5	6.4
10/10/2010	0:30:40	21.43	2.956	2.755	12.1	1.06	35.7	7.45	-45.2	-139.1	6.4
10/10/2010	0:40:40	21.43	2.956	2.755	11.8	1.03	35.7	7.45	-45.1	-139	6.4
10/10/2010	0:50:23	21.44	2.956	2.755	11.7	1.02	35.7	7.45	-45.3	-137.8	12.3
10/10/2010	1:00:40	21.45	2.956	2.755	10.3	0.9	35.7	7.45	-45.4	-141.6	6.4
10/10/2010	1:10:40	21.45	2.956	2.756	9.1	0.8	36.9	7.46	-45.7	-145.6	6.4
10/10/2010	1:20:40	21.45	2.958	2.757	10.2	0.9	35.7	7.47	-46.1	-148.1	6.4
10/10/2010	1:30:40	21.46	2.958	2.758	10.5	0.92	35.7	7.47	-46.4	-152.3	6.4
10/10/2010	1:40:40	21.46	2.957	2.757	10.3	0.9	35.7	7.48	-46.6	-162.2	6.4
10/10/2010	1:50:40	21.46	2.957	2.757	9.7	0.85	36.9	7.48	-46.7	-168.9	6.3
10/10/2010	2:00:40	21.46	2.956	2.756	9.2	0.81	36.9	7.47	-46.4	-166.9	6.4
10/10/2010	2:10:40	21.46	2.956	2.756	9.2	0.8	35.7	7.47	-46.2	-159.9	6.3
10/10/2010	2:20:40	21.46	2.956	2.756	9.1	0.8	35.7	7.46	-46.1	-155.8	6.4
10/10/2010	2:30:40	21.46	2.956	2.756	8.9	0.78	35.7	7.46	-45.9	-149.5	6.3
10/10/2010	2:40:40	21.46	2.957	2.757	8.7	0.77	35.7	7.46	-45.7	-148.9	6.4
10/10/2010	2:50:40	21.46	2.956	2.756	8.5	0.75	35.7	7.46	-45.7	-158.3	6.3
10/10/2010	3:00:40	21.41	2.953	2.751	8.3	0.73	35.7	7.46	-46	-171.3	6.3
10/10/2010	3:10:40	21.42	2.951	2.749	8.5	0.75	34.6	7.48	-46.7	-169.7	6.3
10/10/2010	3:20:40	21.39	2.953	2.749	8.2	0.72	34.6	7.47	-46.4	-168.1	6.3
10/10/2010	3:30:40	21.37	2.952	2.747	7.3	0.64	35.7	7.49	-47.1	-158.1	6.3
10/10/2010	3:40:40	21.38	2.952	2.748	7.5	0.66	34.6	7.48	-47	-159.2	6.3
10/10/2010	3:50:40	21.39	2.952	2.748	7.5	0.65	33.4	7.48	-46.6	-149.7	6.3
10/10/2010	4:00:40	21.4	2.952	2.748	7.3	0.64	35.7	7.47	-46.3	-141.7	6.3
10/10/2010	4:10:40	21.4	2.952	2.749	7.2	0.63	34.6	7.47	-46.1	-141.3	6.3
10/10/2010	4:20:40	21.4	2.952	2.75	7	0.61	35.7	7.47	-46.3	-145.2	6.3
10/10/2010	4:30:40	21.41	2.953	2.75	6.8	0.6	35.7	7.47	-46.4	-154.8	6.3
10/10/2010	4:40:40	21.41	2.953	2.751	6.7	0.58	33.4	7.48	-46.8	-159.3	6.3
10/10/2010	4:50:40	21.41	2.953	2.751	6.5	0.57	34.6	7.49	-47.1	-165.4	6.3

10/10/2010	5:00:40	21.41	2.955	2.752	6.3	0.55	34.6	7.49	-47.2	-161.5	6.3
10/10/2010	5:10:40	21.41	2.958	2.755	6.2	0.54	34.6	7.5	-47.8	-162.4	6.3
10/10/2010	5:20:40	21.41	2.958	2.756	6	0.53	34.6	7.5	-47.7	-163.5	6.3
10/10/2010	5:30:40	21.41	2.959	2.756	6	0.53	34.6	7.5	-47.7	-165.4	6.3
10/10/2010	5:40:40	21.41	2.959	2.756	5.9	0.52	34.6	7.49	-47.5	-163	6.3
10/10/2010	5:50:40	21.41	2.959	2.756	5.4	0.48	33.4	7.49	-47.4	-158.4	6.3
10/10/2010	6:00:40	21.41	2.959	2.756	5.7	0.5	33.4	7.49	-47.5	-161.4	6.3
10/10/2010	6:10:40	21.41	2.96	2.757	5.6	0.49	34.6	7.5	-47.7	-161.8	6.3
10/10/2010	6:20:40	21.41	2.959	2.756	5.5	0.48	34.6	7.5	-47.8	-150.6	6.3
10/10/2010	6:30:00	21.41	2.958	2.755	4.9	0.43	34.6	7.49	-47.1	-138	12.3
10/10/2010	6:40:00	21.41	2.957	2.755	4.6	0.4	35.7	7.47	-46.6	-135.1	12.3
10/10/2010	6:50:00	21.41	2.957	2.755	4.6	0.4	34.6	7.48	-46.6	-143.6	12.3
10/10/2010	7:00:00	21.41	2.957	2.754	4.6	0.4	34.6	7.48	-46.7	-152	12.3
10/10/2010	7:10:00	21.41	2.957	2.755	4.6	0.4	34.6	7.48	-47	-154.4	12.3
10/10/2010	7:20:00	21.41	2.958	2.755	4.6	0.4	34.6	7.49	-47.4	-149.7	12.3
10/10/2010	7:30:00	21.41	2.959	2.756	4.5	0.4	34.6	7.5	-47.6	-149.3	12.3
10/10/2010	7:40:00	21.41	2.961	2.758	4.5	0.39	33.4	7.5	-47.9	-158.9	12.3
10/10/2010	7:50:00	21.41	2.962	2.759	4.4	0.39	33.4	7.5	-48	-166.1	12.3
10/10/2010	8:00:00	21.41	2.963	2.76	4.4	0.39	34.6	7.51	-48.1	-168.5	12.3
10/10/2010	8:10:00	21.41	2.963	2.76	4.4	0.38	34.6	7.5	-48	-166.9	12.4
10/10/2010	8:20:00	21.41	2.962	2.759	4.3	0.38	34.6	7.5	-47.9	-166.9	12.3
10/10/2010	8:30:00	21.41	2.962	2.759	4.3	0.38	34.6	7.5	-47.9	-174	12.3
10/10/2010	8:40:00	21.41	2.962	2.758	4.2	0.37	34.6	7.5	-47.7	-175.8	12.3
10/10/2010	8:50:00	21.41	2.961	2.757	4.2	0.37	33.4	7.49	-47.2	-179.3	12.3
10/10/2010	9:00:00	21.41	2.958	2.755	4.2	0.37	34.6	7.48	-46.8	-178.2	12.3
10/10/2010	9:10:00	21.41	2.958	2.755	4.1	0.36	34.6	7.48	-46.7	-178.6	12.4
10/10/2010	9:20:00	21.41	2.953	2.75	4.1	0.36	34.6	7.47	-46.5	-180.6	12.3
10/10/2010	9:30:00	21.41	2.949	2.746	4.1	0.36	34.6	7.47	-46.4	-182.3	12.4
10/10/2010	9:40:00	21.41	2.945	2.743	4.1	0.36	34.6	7.47	-46.4	-182.6	12.4
10/10/2010	9:50:00	21.41	2.945	2.744	4	0.35	33.4	7.47	-46.3	-183.5	12.3
10/10/2010	10:00:00	21.41	2.945	2.743	4.1	0.36	34.6	7.47	-46.2	-184.2	12.4
10/10/2010	10:10:00	21.42	2.942	2.741	4.1	0.36	33.4	7.46	-46.1	-184.8	6.3
10/10/2010	10:20:40	21.42	2.936	2.735	4.5	0.39	33.4	7.48	-47	-187.1	6.3
10/10/2010	10:30:40	21.42	2.931	2.731	4.5	0.39	32.8	7.48	-47.1	-187.6	6.3
10/10/2010	10:40:40	21.42	2.93	2.729	4.4	0.39	34.6	7.48	-47	-187.3	6.3
10/10/2010	10:50:40	21.42	2.934	2.733	4.4	0.38	33.4	7.48	-47	-188	6.3
10/10/2010	11:00:40	21.42	2.933	2.733	4.3	0.38	33.4	7.49	-47.2	-188.6	6.3

10/10/2010	11:10:40	21.42	2.931	2.731	4.3	0.38	33.4	7.49	-47.3	-188.9	6.3
10/10/2010	11:20:00	21.42	2.929	2.729	4.2	0.37	33.4	7.49	-47.2	-187.6	12.3
10/10/2010	11:30:40	21.42	2.927	2.727	4.3	0.38	33.4	7.49	-47.4	-187.1	6.3
10/10/2010	11:40:40	21.42	2.927	2.727	4.2	0.37	33.4	7.49	-47.5	-186	6.3
10/10/2010	11:50:40	21.42	2.927	2.727	4.2	0.37	33.4	7.49	-47.4	-183.6	6.3
10/10/2010	12:00:40	21.42	2.928	2.728	4.2	0.37	33.4	7.49	-47.2	-179.6	6.3
10/10/2010	12:10:40	21.42	2.929	2.729	4.2	0.37	32.8	7.49	-47.1	-173.5	6.3
10/10/2010	12:20:40	21.42	2.93	2.729	4.1	0.36	32.8	7.48	-46.9	-165.3	6.2
10/10/2010	12:30:40	21.42	2.93	2.73	4.1	0.36	32.8	7.48	-46.8	-154.2	6.3
10/10/2010	12:40:40	21.42	2.931	2.731	4.1	0.36	33.4	7.48	-46.8	-148.6	6.2
10/10/2010	12:50:40	21.43	2.931	2.731	4.1	0.36	32.8	7.48	-46.8	-145	6.2
10/10/2010	13:00:40	21.42	2.932	2.732	3.8	0.33	32.8	7.48	-46.6	-143.6	6.2
10/10/2010	13:10:40	21.43	2.934	2.734	4	0.35	33.4	7.48	-46.8	-146.2	6.2
10/10/2010	13:20:40	21.43	2.935	2.735	4	0.35	33.4	7.48	-46.8	-146.6	6.2
10/10/2010	13:30:40	21.43	2.936	2.736	4	0.35	33.4	7.48	-46.7	-152	6.2
10/10/2010	13:40:40	21.43	2.936	2.736	3.9	0.34	33.4	7.47	-46.6	-162.7	6.2
10/10/2010	13:50:40	21.43	2.935	2.735	3.9	0.34	33.4	7.44	-44.9	-163.2	6.2
10/10/2010	14:00:40	21.43	2.933	2.733	3.9	0.34	33.4	7.41	-43.6	-162.1	6.2
10/10/2010	14:10:40	21.43	2.931	2.731	3.9	0.34	32.8	7.4	-43	-161.1	6.2
10/10/2010	14:20:40	21.43	2.929	2.729	4	0.35	32.8	7.4	-42.8	-161.4	6.3
10/10/2010	14:30:40	21.43	2.928	2.728	3.8	0.33	32.8	7.39	-42.1	-160.5	6.2
10/10/2010	14:40:40	21.43	2.928	2.728	3.9	0.34	33.4	7.38	-42.1	-159.2	6.2
10/10/2010	14:50:40	21.43	2.928	2.728	3.9	0.35	32.8	7.39	-42.4	-160.4	6.2
10/10/2010	15:00:40	21.43	2.928	2.728	4	0.35	32.8	7.4	-42.7	-163.1	6.2
10/10/2010	15:10:40	21.42	2.928	2.728	3.9	0.34	33.4	7.4	-42.7	-164.5	6.2
10/10/2010	15:20:40	21.41	2.931	2.731	3.8	0.33	32.8	7.43	-44.5	-172.9	6.2
10/10/2010	15:30:40	21.41	2.936	2.735	3.7	0.32	32.8	7.47	-46.3	-186.4	6.2
10/10/2010	15:40:40	21.4	2.938	2.736	3.6	0.31	32.8	7.48	-46.9	-195.1	6.2
10/10/2010	15:50:40	21.4	2.939	2.738	3.5	0.31	32.8	7.49	-47.1	-198.2	6.2
10/10/2010	16:00:40	21.4	2.941	2.739	3.4	0.3	32.8	7.49	-47.2	-200.6	6.2
10/10/2010	16:10:40	21.4	2.942	2.74	3.5	0.31	33.4	7.49	-47.2	-201.1	6.2
10/10/2010	16:20:26	21.4	2.943	2.74	3.6	0.31	33.4	7.49	-47.3	-199.4	6.2
10/10/2010	16:30:40	21.4	2.943	2.74	3.6	0.32	32.8	7.49	-47.4	-197.1	6.1
10/10/2010	16:40:40	21.4	2.942	2.74	3.6	0.32	32.8	7.49	-47.5	-193.2	6.2
10/10/2010	16:50:40	21.4	2.943	2.741	3.6	0.32	32.8	7.5	-47.6	-187.1	6.1
10/10/2010	17:00:40	21.4	2.943	2.74	3.6	0.32	32.8	7.5	-47.7	-181	6.2
10/10/2010	17:10:40	21.4	2.943	2.741	3.6	0.31	33.4	7.5	-47.7	-176.8	6.1

10/10/2010	17:20:40	21.4	2.943	2.741	3.6	0.31	33.4	7.5	-47.7	-173.7	6.2
10/10/2010	17:30:40	21.4	2.944	2.741	3.5	0.31	33.4	7.5	-47.7	-173.6	6.1
10/10/2010	17:40:40	21.4	2.943	2.74	3.5	0.31	32.8	7.5	-47.7	-172.5	6.1
10/10/2010	17:50:40	21.4	2.948	2.745	3.4	0.3	33.4	7.49	-47.4	-151.1	6.1
10/10/2010	18:00:40	21.39	2.96	2.756	3.5	0.31	33.4	7.5	-48	-146.9	6.1
10/10/2010	18:10:40	21.39	2.965	2.76	3.4	0.3	32.8	7.51	-48.2	-142.7	6.1
10/10/2010	18:20:40	21.39	2.968	2.763	3.4	0.3	34.6	7.52	-48.5	-141	6.1
10/10/2010	18:30:40	21.38	2.968	2.763	3.4	0.29	34.6	7.52	-48.8	-139.9	6.1
10/10/2010	18:40:40	21.39	2.968	2.763	3.4	0.3	32.8	7.52	-48.9	-138.7	6.1
10/10/2010	18:50:40	21.39	2.968	2.763	3.4	0.29	32.8	7.52	-49	-132.3	6.1
10/10/2010	19:00:40	21.39	2.968	2.763	3.3	0.29	32.8	7.52	-49	-130.4	6.1
10/10/2010	19:10:40	21.39	2.968	2.763	3.3	0.29	32.8	7.52	-48.9	-129.5	6.1
10/10/2010	19:20:40	21.39	2.967	2.763	3.2	0.28	32.8	7.52	-48.7	-130.9	6.1
10/10/2010	19:30:40	21.39	2.967	2.762	3.2	0.28	33.4	7.51	-48.5	-137.9	6.1
10/10/2010	19:40:40	21.39	2.965	2.76	3.2	0.28	32.8	7.51	-48.4	-144.5	6.1
10/10/2010	19:50:40	21.39	2.963	2.759	3.2	0.28	33.4	7.51	-48.2	-148.4	6.1
10/10/2010	20:00:40	21.39	2.963	2.758	3.2	0.28	33.4	7.5	-47.9	-155	6.1
10/10/2010	20:10:40	21.39	2.96	2.756	3.2	0.28	34.6	7.49	-47.5	-158.6	6.1
10/10/2010	20:20:40	21.39	2.959	2.755	3.2	0.28	33.4	7.49	-47.2	-160.6	6.1
10/10/2010	20:30:40	21.39	2.962	2.757	3.2	0.28	32.8	7.46	-46	-159.1	6.1
10/10/2010	20:40:40	21.39	2.965	2.76	3.2	0.28	33.4	7.46	-45.8	-164.6	6.1
10/10/2010	20:50:40	21.39	2.963	2.759	3.3	0.29	32.8	7.44	-44.9	-166.6	6.1
10/10/2010	21:00:40	21.4	2.961	2.757	3.3	0.29	32.8	7.44	-44.6	-169.4	6.1
10/10/2010	21:10:40	21.4	2.961	2.758	3.1	0.28	34.6	7.4	-42.9	-171.9	6.1
10/10/2010	21:20:40	21.39	2.977	2.772	2.5	0.22	33.4	7.4	-42.8	-182	6.1
10/10/2010	21:30:40	21.39	2.995	2.789	0.2	0.02	32.8	7.56	-50.8	-265.6	6
10/10/2010	21:40:40	21.39	3.01	2.802	-1.7	-0.14	32.8	7.66	-55.9	-284.2	6.1
10/10/2010	21:50:40	21.39	3.023	2.815	-1.9	-0.17	32.8	7.68	-56.9	-299.1	6
10/10/2010	22:00:40	21.39	3.03	2.821	-0.8	-0.07	32.8	7.65	-55.2	-297.8	6
10/10/2010	22:10:40	21.39	3.031	2.822	0.4	0.03	31.6	7.67	-56.2	-297.5	6.1
10/10/2010	22:20:40	21.39	3.034	2.825	1.3	0.12	31.6	7.69	-57	-299.1	6.1
10/10/2010	22:30:40	21.39	3.031	2.822	2.3	0.2	32.8	7.7	-57.8	-293.8	6.1
10/10/2010	22:40:40	21.39	3.023	2.814	3.2	0.28	31.6	7.69	-57.1	-292.3	6.1
10/10/2010	22:50:40	21.38	3.008	2.8	4.3	0.37	32.8	7.66	-55.7	-284.4	6.1
10/10/2010	23:00:40	21.38	3.005	2.797	5	0.44	31.6	7.61	-53.2	-273.9	6.1
10/10/2010	23:10:40	21.38	3.005	2.797	5.4	0.47	33.4	7.58	-51.8	-266.1	6
10/10/2010	23:20:40	21.38	3.002	2.794	5.8	0.51	31.6	7.55	-50.4	-258.5	6

10/10/2010	23:30:40	21.38	3	2.793	5.9	0.51	32.8	7.52	-48.8	-257.9	6.1
10/10/2010	23:40:40	21.37	3.002	2.794	5.9	0.51	32.8	7.51	-48.5	-259.3	6.1
10/10/2010	23:50:40	21.37	3.004	2.796	5.8	0.51	32.8	7.5	-47.8	-259.6	6.1
10/11/2010	0:00:40	21.37	3.006	2.798	5.7	0.5	32.8	7.47	-46.2	-258.1	6.1
10/11/2010	0:10:40	21.37	3.01	2.801	5.6	0.49	32.8	7.43	-44.4	-257.9	6.1
10/11/2010	0:20:40	21.38	3.013	2.805	5.6	0.49	33.4	7.41	-43.6	-256.5	6
10/11/2010	0:30:40	21.38	3.018	2.809	5.6	0.49	33.4	7.4	-43.1	-258	6.1
10/11/2010	0:40:40	21.38	3.028	2.819	4.7	0.42	33.4	7.38	-41.6	-255.9	6
10/11/2010	0:50:40	21.37	3.04	2.829	5.2	0.45	34.6	7.39	-42.5	-266.8	6
10/11/2010	1:00:40	21.36	3.042	2.83	5	0.44	34.6	7.41	-43.1	-274.7	6
10/11/2010	1:10:40	21.33	3.048	2.835	4.5	0.4	34.6	7.52	-48.8	-288.2	6
10/11/2010	1:20:40	21.28	3.068	2.85	3.7	0.33	34.6	7.69	-57.1	-317	6
10/11/2010	1:30:40	21.25	3.071	2.851	3	0.26	34.6	7.78	-61.7	-325.1	6
10/11/2010	1:40:40	21.25	3.066	2.846	2.7	0.24	34.6	7.79	-62.2	-326.9	6
10/11/2010	1:50:40	21.24	3.06	2.84	2.8	0.25	34.6	7.79	-62.2	-329.5	6
10/11/2010	2:00:40	21.24	3.051	2.832	3	0.27	33.4	7.75	-60.2	-323	6
10/11/2010	2:10:40	21.24	3.044	2.826	3.1	0.27	34.6	7.74	-59.5	-322.2	6
10/11/2010	2:20:40	21.23	3.035	2.817	3.2	0.28	33.4	7.71	-58.2	-315.6	6
10/11/2010	2:30:40	21.23	3.028	2.81	3.3	0.29	34.6	7.69	-57.4	-314.5	6
10/11/2010	2:40:40	21.22	3.026	2.808	3.5	0.31	33.4	7.68	-56.6	-310.9	6
10/11/2010	2:50:40	21.22	3.017	2.8	3.6	0.32	33.4	7.67	-56	-307.8	6
10/11/2010	3:00:40	21.23	3.016	2.799	3.6	0.32	33.4	7.65	-55.2	-303.9	6
10/11/2010	3:10:40	21.24	3.014	2.798	3.7	0.33	34.6	7.64	-54.8	-299.6	6
10/11/2010	3:20:40	21.24	3.013	2.797	3.7	0.33	34.6	7.64	-54.5	-299.6	6
10/11/2010	3:30:40	21.25	3.013	2.797	3.7	0.32	33.4	7.63	-54.4	-297.9	6
10/11/2010	3:40:40	21.26	3.013	2.798	3.6	0.32	34.6	7.63	-54.3	-300.9	6
10/11/2010	3:50:40	21.27	3.014	2.799	3.6	0.31	34.6	7.63	-54	-305.5	6
10/11/2010	4:00:40	21.25	3.015	2.799	3.5	0.31	35.7	7.63	-54.3	-304.4	6
10/11/2010	4:10:40	21.21	3.008	2.79	3.5	0.31	34.6	7.61	-53	-301.3	6
10/11/2010	4:20:40	21.19	3.008	2.789	3.4	0.3	35.7	7.59	-52.2	-301.1	6
10/11/2010	4:30:40	21.19	2.999	2.781	3.3	0.29	34.6	7.58	-51.7	-297.1	6
10/11/2010	4:40:40	21.19	2.998	2.779	3.3	0.29	35.7	7.58	-51.8	-292.8	6
10/11/2010	4:50:40	21.19	2.998	2.78	3.3	0.29	34.6	7.58	-51.8	-291.1	6
10/11/2010	5:00:40	21.19	3	2.782	3.2	0.28	34.6	7.58	-51.8	-289.3	6
10/11/2010	5:10:40	21.2	3.003	2.784	3.2	0.28	34.6	7.57	-51.5	-290.5	6
10/11/2010	5:20:40	21.21	3.006	2.789	2.9	0.26	34.6	7.56	-50.8	-291.3	6
10/11/2010	5:30:40	21.22	3.016	2.798	1.6	0.14	34.6	7.57	-51.1	-312.9	6

10/11/2010	5:40:40	21.24	3.018	2.801	1.2	0.11	34.6	7.57	-51.4	-316.8	6
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Date m/d/y	Time hh:mm:ss	Temp C	SpCond mS/cm	Cond mS/cm	DOsat %	DO mg/L	DOchrg	pH	pH mV	Orp mV	Battery volts
10/16/2010	23:20:40	18.56	0.798	0.7	10.6	0.99	41.6	6.39	24	-72.9	6.3
10/16/2010	23:30:40	18.79	0.799	0.705	9.9	0.92	41.6	6.39	24	-91.1	6.3
10/16/2010	23:40:40	18.9	0.8	0.707	10.3	0.95	41	6.39	24	-82	6.3
10/16/2010	23:50:40	19.01	0.799	0.707	10.1	0.93	41	6.39	24	-82.6	6.3
10/17/2010	0:00:40	19.07	0.795	0.705	8.1	0.75	39.8	6.38	24.4	-97	6.3
10/17/2010	0:10:40	19.08	0.796	0.706	7.6	0.7	39.8	6.37	24.8	-116.8	6.3
10/17/2010	0:20:40	19.07	0.793	0.703	7.2	0.67	39.8	6.37	24.7	-125.7	6.3
10/17/2010	0:30:40	19.08	0.796	0.706	6.7	0.62	39.8	6.38	24.5	-134.8	6.3
10/17/2010	0:40:40	19.06	0.794	0.704	6.6	0.61	39.8	6.36	25.4	-140.9	6.3
10/17/2010	0:50:40	19.07	0.795	0.705	6.4	0.59	39.8	6.36	25.2	-145.5	6.3
10/17/2010	1:00:40	19.07	0.795	0.705	6	0.56	39.8	6.36	25.2	-153.3	6.3
10/17/2010	1:10:40	19.06	0.793	0.703	5.8	0.54	39.8	6.36	25.1	-158.4	6.3
10/17/2010	1:20:40	19.07	0.793	0.703	5.6	0.51	38.7	6.36	25.3	-158.9	6.3
10/17/2010	1:30:40	19.06	0.792	0.703	5.4	0.5	38.7	6.37	25.1	-163.3	6.3
10/17/2010	1:40:40	19.06	0.792	0.702	5.3	0.49	38.7	6.36	25.5	-163.9	6.3
10/17/2010	1:50:40	19.07	0.792	0.702	5.1	0.47	38.7	6.36	25.3	-164.5	6.3
10/17/2010	2:00:40	19.07	0.792	0.702	5.1	0.47	38.7	6.36	25.3	-165.8	6.3
10/17/2010	2:10:00	19.07	0.789	0.7	3.7	0.34	38.7	6.35	25.7	-162.8	12.1
10/17/2010	2:20:40	19.07	0.79	0.7	4.5	0.42	37.5	6.36	25.3	-167.8	6.3
10/17/2010	2:30:40	19.07	0.79	0.701	4.6	0.42	37.5	6.36	25.1	-166.9	6.3
10/17/2010	2:40:40	19.07	0.789	0.7	4.6	0.43	38.7	6.36	25.5	-168.8	6.3
10/17/2010	2:50:40	19.07	0.789	0.7	4.5	0.42	37.5	6.35	25.8	-167.9	6.3
10/17/2010	3:00:40	19.07	0.79	0.701	4.4	0.41	38.7	6.36	25.3	-163.8	6.3
10/17/2010	3:10:40	19.07	0.787	0.698	4.4	0.41	37.5	6.36	25.5	-165.3	6.3
10/17/2010	3:20:40	19.07	0.786	0.697	4.4	0.4	37.5	6.36	25.6	-173.4	6.3
10/17/2010	3:30:40	19.07	0.784	0.695	4.4	0.41	37.5	6.35	25.9	-177.6	6.3
10/17/2010	3:40:40	19.06	0.789	0.7	4.2	0.39	37.5	6.35	25.8	-177.8	6.3
10/17/2010	3:50:40	19.05	0.787	0.698	4.1	0.38	37.5	6.35	25.8	-172.4	6.3
10/17/2010	4:00:40	19.06	0.787	0.698	4.1	0.38	36.9	6.35	25.8	-163	6.3
10/17/2010	4:10:40	19.1	0.787	0.699	4.1	0.38	37.5	6.35	25.8	-151.1	6.3
10/17/2010	4:20:40	19.1	0.787	0.699	4.1	0.38	37.5	6.35	25.7	-152.9	6.3
10/17/2010	4:30:40	19.09	0.788	0.699	4	0.37	37.5	6.35	25.9	-163	6.3
10/17/2010	4:40:40	19.09	0.787	0.698	4	0.37	36.9	6.35	26.1	-144.7	6.3

10/17/2010	4:50:40	19.08	0.788	0.699	4	0.37	36.9	6.35	25.9	-150.9	6.3
10/17/2010	5:00:40	19.1	0.787	0.698	4	0.37	37.5	6.35	25.9	-136.2	6.3
10/17/2010	5:10:40	19.11	0.786	0.697	3.9	0.36	37.5	6.35	26	-140	6.3
10/17/2010	5:20:40	19.11	0.785	0.696	4	0.37	37.5	6.35	25.9	-139.5	6.3
10/17/2010	5:30:40	19.11	0.784	0.696	4	0.37	36.9	6.36	25.7	-132.9	6.3
10/17/2010	5:40:40	19.11	0.784	0.695	3.9	0.36	37.5	6.35	25.8	-135.8	6.3
10/17/2010	5:50:40	19.11	0.783	0.695	3.5	0.32	36.9	6.35	25.9	-133.9	6.3
10/17/2010	6:00:40	19.11	0.783	0.695	3.7	0.34	37.5	6.36	25.7	-140.6	6.3
10/17/2010	6:10:40	19.11	0.783	0.695	3.8	0.35	37.5	6.36	25.5	-130.7	6.3
10/17/2010	6:20:40	19.12	0.784	0.696	3.8	0.35	37.5	6.36	25.6	-129.1	6.3
10/17/2010	6:30:40	19.12	0.785	0.697	3.8	0.35	36.9	6.36	25.6	-128.2	6.3
10/17/2010	6:40:40	19.13	0.783	0.695	3.8	0.35	37.5	6.35	25.8	-136	6.3
10/17/2010	6:50:40	19.13	0.778	0.691	3.8	0.35	36.9	6.35	25.8	-131.8	6.3
10/17/2010	7:00:40	19.1	0.778	0.691	3.8	0.35	37.5	6.35	26.2	-136.8	6.3
10/17/2010	7:10:40	19.13	0.778	0.691	3.7	0.35	37.5	6.35	26.2	-118.4	6.3
10/17/2010	7:20:40	19.15	0.78	0.693	2.6	0.24	36.9	6.35	26.1	-117.4	6.3
10/17/2010	7:30:40	19.15	0.778	0.691	3.4	0.32	36.9	6.36	25.7	-138.6	6.3
10/17/2010	7:40:40	19.15	0.778	0.691	3.6	0.33	36.9	6.36	25.7	-143.1	6.3
10/17/2010	7:50:40	19.15	0.778	0.691	3.7	0.34	36.9	6.36	25.6	-136.1	6.3
10/17/2010	8:00:40	19.16	0.777	0.69	3.7	0.34	36.9	6.35	26	-134	6.3
10/17/2010	8:10:40	19.16	0.776	0.69	3.7	0.34	36.9	6.35	25.7	-137.8	6.3
10/17/2010	8:20:40	19.16	0.777	0.69	3.7	0.34	36.9	6.36	25.5	-132.6	6.3
10/17/2010	8:30:40	19.17	0.779	0.692	3.7	0.34	36.9	6.36	25.5	-133.2	6.3
10/17/2010	8:40:40	19.18	0.779	0.692	3.6	0.34	37.5	6.36	25.5	-138	6.3
10/17/2010	8:50:40	19.34	0.779	0.695	3.8	0.35	36.9	6.37	25.1	-107.7	6.3
10/17/2010	9:00:40	19.56	0.777	0.696	3.8	0.35	36.9	6.36	25.6	-128.2	6.2
10/17/2010	9:10:40	19.7	0.776	0.698	3.6	0.33	36.9	6.35	25.9	-143.8	6.3
10/17/2010	9:20:40	19.87	0.776	0.7	3.5	0.32	36.9	6.35	26.1	-153.6	6.3
10/17/2010	9:30:40	20.05	0.776	0.702	3.6	0.32	37.5	6.35	26.1	-149	6.2
10/17/2010	9:40:40	20.07	0.776	0.703	2.6	0.23	37.5	6.35	26.2	-146.2	6.2
10/17/2010	9:50:40	20.04	0.776	0.703	3.4	0.31	36.9	6.35	26.1	-144.6	6.2
10/17/2010	10:00:40	20.07	0.78	0.706	3.5	0.32	36.9	6.35	26.2	-149.7	6.2
10/17/2010	10:10:40	20.06	0.78	0.706	3.5	0.32	37.5	6.35	26.2	-147	6.3
10/17/2010	10:20:40	20.06	0.78	0.707	3.6	0.32	36.9	6.35	26.2	-146.2	6.2
10/17/2010	10:30:40	20.07	0.781	0.707	3.5	0.32	37.5	6.35	26.2	-146.8	6.2
10/17/2010	10:40:40	20.09	0.781	0.708	2.7	0.25	35.7	6.35	26.2	-147.3	6.3
10/17/2010	10:50:40	20.13	0.781	0.709	3.4	0.31	37.5	6.35	26.2	-147	6.2

10/17/2010	11:00:40	20.11	0.782	0.709	3.5	0.31	36.9	6.35	26.2	-141.2	6.2
10/17/2010	11:10:40	20.08	0.782	0.708	3.6	0.32	37.5	6.35	26.2	-139	6.2
10/17/2010	11:20:40	20.08	0.782	0.708	3.6	0.33	36.9	6.35	26.2	-139.2	6.2
10/17/2010	11:30:40	20.09	0.782	0.709	3.7	0.33	36.9	6.35	26.2	-142.6	6.2
10/17/2010	11:40:40	20.11	0.783	0.71	2.7	0.25	36.9	6.35	26.3	-144.1	6.2
10/17/2010	11:50:40	20.13	0.783	0.71	3.4	0.3	36.9	6.35	26.2	-146.1	6.2
10/17/2010	12:00:40	20.16	0.783	0.711	3.4	0.31	36.9	6.35	26.3	-149.5	6.2
10/17/2010	12:10:40	20.2	0.783	0.712	3.5	0.32	36.9	6.35	26.3	-153.7	6.2
10/17/2010	12:20:40	20.24	0.784	0.712	3.5	0.32	36.9	6.35	26.3	-153	6.2
10/17/2010	12:30:40	20.12	0.784	0.711	3.4	0.31	35.7	6.34	26.5	-163.4	6.2
10/17/2010	12:40:40	20.18	0.783	0.711	3.2	0.29	35.7	6.34	26.6	-169.2	6.2
10/17/2010	12:50:40	20.32	0.784	0.714	2.5	0.23	35.7	6.34	26.7	-171.5	6.2
10/17/2010	13:00:40	20.38	0.783	0.714	3.1	0.28	35.7	6.34	26.7	-173.6	6.2
10/17/2010	13:10:40	20.42	0.785	0.716	3.3	0.29	36.9	6.34	26.6	-177.2	6.2
10/17/2010	13:20:40	20.33	0.789	0.719	3.3	0.3	35.7	6.34	26.6	-181.2	6.2
10/17/2010	13:30:40	20.41	0.797	0.727	3.3	0.3	36.9	6.34	26.5	-190.8	6.2
10/17/2010	13:40:40	20.5	0.798	0.729	3.4	0.3	35.7	6.35	26.4	-188.7	6.2
10/17/2010	13:50:40	20.41	0.802	0.732	3.4	0.31	36.9	6.34	26.5	-190.7	6.2
10/17/2010	14:00:40	20.55	0.828	0.758	3.4	0.31	35.7	6.35	26.4	-188.5	6.2
10/17/2010	14:10:40	20.57	0.856	0.783	3.5	0.31	36.9	6.35	26.2	-189.8	6.2
10/17/2010	14:20:40	20.6	0.859	0.787	3.5	0.32	36.9	6.35	26.3	-193.9	12.1
10/17/2010	14:30:40	20.57	0.866	0.793	3.4	0.31	35.7	6.35	26.4	-189.8	6.2
10/17/2010	14:40:40	20.56	0.88	0.806	3.6	0.32	36.9	6.35	25.9	-195.8	6.2
10/17/2010	14:50:40	20.58	0.865	0.792	3.5	0.32	35.7	6.35	26.2	-197	6.2
10/17/2010	15:00:40	20.61	0.901	0.826	3.6	0.32	36.9	6.35	26.4	-194.3	6.2
10/17/2010	15:10:40	20.65	0.997	0.914	3.7	0.33	36.9	6.34	26.6	-190.6	6.2
10/17/2010	15:20:40	20.73	0.935	0.859	3.7	0.33	35.7	6.35	26.3	-193.5	6.2
10/17/2010	15:30:40	20.72	0.954	0.876	3.7	0.33	35.7	6.34	26.6	-171.4	6.2
10/17/2010	15:40:40	20.78	0.968	0.89	3.9	0.35	35.7	6.34	26.7	-154.8	6.2
10/17/2010	15:50:40	20.63	0.968	0.887	4	0.36	35.7	6.33	27	-148.2	6.2
10/17/2010	16:00:40	20.62	1	0.916	4	0.36	36.9	6.33	27.1	-166.4	6.2
10/17/2010	16:10:40	20.56	1.032	0.944	4.1	0.37	36.9	6.33	27.2	-178.2	6.2
10/17/2010	16:20:40	20.51	1.045	0.955	2.9	0.26	36.9	6.33	27.2	-189	6.2
10/17/2010	16:30:40	20.48	1.082	0.989	3.6	0.32	36.9	6.33	27	-199.7	6.2
10/17/2010	16:40:40	20.5	1.015	0.928	3.7	0.34	36.9	6.33	27.1	-197.2	6.2
10/17/2010	16:50:40	20.49	1.038	0.948	3.7	0.33	35.7	6.33	27.1	-149.8	6.2
10/17/2010	17:00:40	20.48	1.031	0.942	3.7	0.34	35.7	6.34	26.5	-162.7	6.2

10/17/2010	17:10:40	20.44	1.033	0.943	3.7	0.33	35.7	6.34	26.6	-184.8	6.2
10/17/2010	17:20:40	20.43	1.022	0.933	3.6	0.32	35.7	6.34	26.4	-184.6	6.2
10/17/2010	17:30:40	20.42	1.017	0.928	3.6	0.32	35.7	6.35	26.3	-187.1	6.2
10/17/2010	17:40:40	20.41	1.037	0.946	3.6	0.32	36.9	6.35	26.2	-201	6.2
10/17/2010	17:50:40	20.4	1.024	0.934	3.6	0.32	35.7	6.35	26.2	-208.2	6.2
10/17/2010	18:00:40	20.41	1.023	0.934	3.5	0.32	35.7	6.35	26	-208.8	6.2
10/17/2010	18:10:40	20.4	1.075	0.981	3.5	0.32	35.7	6.35	25.9	-211.2	6.2
10/17/2010	18:20:40	16.74	0.001	0.001	96.6	9.38	42.8	6.82	0.5	54.2	6.2
10/17/2010	18:30:40	17.64	0.001	0.001	96.7	9.22	42.8	7.28	-24.8	-5.1	6.2
10/17/2010	18:40:40	17.86	0.001	0.001	96.8	9.2	43.9	7.45	-34	-1.4	6.2
10/17/2010	18:50:40	17.97	0.001	0.001	96.7	9.16	42.8	7.53	-37.9	4.3	6.2
10/17/2010	19:00:40	18.04	0.001	0.001	96.6	9.14	42.8	7.52	-37.9	9.1	6.2
10/17/2010	19:10:40	18.09	0.001	0.001	96.5	9.12	42.8	7.49	-35.9	12.1	6.1
10/17/2010	19:20:40	18.08	0.001	0.001	96.5	9.12	42.8	7.46	-34.2	14.6	6.2
10/17/2010	19:30:40	18.03	0.001	0.001	96.7	9.15	42.8	7.38	-30.3	17.2	6.2
10/17/2010	19:40:40	17.97	0.001	0.001	96.7	9.16	42.8	7.32	-26.7	19.5	6.2
10/17/2010	19:50:40	17.92	0.001	0.001	96.8	9.18	42.8	7.26	-23.6	21.5	6.1
10/17/2010	20:00:40	17.86	0.001	0.001	96.8	9.19	42.8	7.22	-21.5	23.4	6.2
10/17/2010	20:10:40	17.79	0.001	0.001	96.8	9.21	42.8	7.2	-20.3	25.3	6.2
10/17/2010	20:20:40	17.71	0.001	0.001	96.6	9.21	42.8	7.18	-19.3	27.2	6.2
10/17/2010	20:30:40	17.62	0.001	0.001	96.6	9.22	42.8	7.17	-18.8	29.2	6.1
10/17/2010	20:40:40	17.53	0.001	0.001	96.6	9.24	42.8	7.17	-18.5	31.1	6.2
10/17/2010	20:50:40	17.44	0.001	0.001	96.6	9.25	42.8	7.17	-18.5	32.9	6.1
10/17/2010	21:00:40	17.34	0.001	0.001	96.8	9.29	42.8	7.17	-18.7	34.7	6.1
10/17/2010	21:10:40	17.24	0.001	0.001	96.9	9.32	42.8	7.16	-18.1	36.7	6.1
10/17/2010	21:20:40	17.11	0.001	0.001	97	9.35	42.8	7.13	-16.4	39.2	6.1
10/17/2010	21:30:40	16.99	0.001	0.001	97	9.38	42.8	7.1	-14.8	41.3	6.1
10/17/2010	21:40:40	16.86	0.001	0.001	97.1	9.41	42.8	7.09	-14.3	42.9	6.1
10/17/2010	21:50:40	16.71	0.001	0.001	97.1	9.45	42.8	7.08	-13.9	44.4	6.2
10/17/2010	22:00:40	16.56	0.001	0.001	97	9.46	42.8	7.08	-13.5	45.9	6.1
10/17/2010	22:10:40	16.41	0.001	0.001	96.9	9.49	42.8	7.06	-12.9	47.3	6.2
10/17/2010	22:20:40	16.25	0.001	0.001	96.9	9.52	41.6	7.03	-11	49.1	6.1
10/17/2010	22:30:40	16.08	0.001	0.001	97	9.55	42.8	7	-9.6	49.7	6.2
10/17/2010	22:40:40	15.91	0.001	0.001	97	9.59	41.6	6.98	-8.4	50.2	6.1
10/17/2010	22:50:40	15.74	0.001	0.001	97.2	9.65	42.8	6.95	-6.9	50.8	6.1
10/17/2010	23:00:40	15.55	0.001	0.001	97.2	9.69	41.6	6.92	-4.9	51.6	6.1
10/17/2010	23:10:40	15.35	0.001	0.001	97.3	9.74	42.8	6.87	-2.6	52.3	6.1

10/17/2010	23:20:40	15.18	0.001	0.001	97.6	9.8	41.6	6.83	-0.1	53	6.1
10/17/2010	23:30:40	15.07	0.001	0.001	97.4	9.81	42.8	6.79	2.1	53.6	6.1
10/17/2010	23:40:40	14.92	0.001	0.001	97.6	9.86	42.8	6.75	4.2	54.6	6.1
10/17/2010	23:50:40	14.76	0.001	0.001	97.7	9.9	41.6	6.7	6.7	55.8	6.1
10/18/2010	0:00:40	14.61	0.001	0.001	97.7	9.94	41.6	6.64	9.7	57.1	6.1
10/18/2010	0:10:40	14.45	0.001	0.001	97.8	9.98	42.8	6.56	14.2	58.6	6.1
10/18/2010	0:20:40	14.3	0.001	0.001	97.8	10.01	41.6	6.52	16.4	60.5	6.1
10/18/2010	0:30:40	14.15	0.001	0.001	97.8	10.05	41.6	6.5	17.2	62.7	6.1
10/18/2010	0:40:40	13.99	0.001	0.001	97.8	10.08	42.8	6.49	17.7	64.9	6.1
10/18/2010	0:50:40	13.82	0.001	0	97.8	10.12	42.8	6.48	18.2	66.9	6.1
10/18/2010	1:00:40	13.66	0.001	0	97.8	10.15	42.8	6.47	19.1	69.5	6.1
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10/18/2010	1:20:40	13.35	0.001	0	97.5	10.19	41.6	6.41	22	75.9	6.1
10/18/2010	1:30:40	13.2	0.001	0	97.4	10.21	42.8	6.4	22.6	78	6.1
10/18/2010	1:40:40	13.06	0.001	0	97.5	10.26	41.6	6.39	22.9	80	6.1
10/18/2010	1:50:40	12.93	0.001	0	97.3	10.27	41.6	6.39	23.3	82	6.1
10/18/2010	2:00:40	12.79	0.001	0	97.5	10.32	41.6	6.37	24.1	83.8	6.1
10/18/2010	2:10:40	12.66	0.001	0	97.5	10.35	41.6	6.33	26.4	85.6	6.1
10/18/2010	2:20:40	12.53	0.001	0	97.5	10.38	41.6	6.29	28.4	87.6	6.1
10/18/2010	2:30:40	12.41	0.001	0	97.4	10.4	41.6	6.28	28.9	88.6	6.1
10/18/2010	2:40:40	12.31	0.001	0	97.4	10.42	41.6	6.29	28.5	89.4	6.1
10/18/2010	2:50:40	12.23	0.001	0	97.1	10.41	41.6	6.3	28	90.3	6.1
10/18/2010	3:00:40	12.16	0.001	0	97.2	10.44	41.6	6.3	27.6	91.2	6.1
10/18/2010	3:10:40	12.1	0.001	0	97.2	10.45	41.6	6.31	27.3	92.3	6.1
10/18/2010	3:20:40	12.05	0.001	0	97.2	10.46	41.6	6.31	27.3	93.6	6.1
10/18/2010	3:30:40	11.99	0.001	0	97.2	10.48	41.6	6.31	27.5	95.2	6.1
10/18/2010	3:40:40	11.92	0.001	0	96.9	10.47	42.8	6.3	27.6	97	6.1
10/18/2010	3:50:40	11.85	0.001	0	96.8	10.47	41.6	6.3	27.8	98.9	6.1
10/18/2010	4:00:40	11.76	0.001	0	97	10.51	41.6	6.29	28.2	100.8	6.1
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10/18/2010	4:20:40	11.56	0.001	0	96.8	10.54	41.6	6.28	29	104	6
10/18/2010	4:30:40	11.45	0.001	0	97	10.58	41.6	6.27	29.4	105.3	6.1
10/18/2010	4:40:40	11.32	0.001	0	96.8	10.6	41.6	6.27	29.5	106.3	6
10/18/2010	4:50:40	11.2	0.001	0	96.9	10.64	41.6	6.27	29.4	107.1	6
10/18/2010	5:00:40	11.1	0.001	0	97	10.67	41.6	6.27	29.3	107.7	6.1
10/18/2010	5:10:40	11.01	0.001	0	96.8	10.67	41	6.27	29.2	108.2	6.1
10/18/2010	5:20:40	10.92	0.001	0	96.9	10.71	41.6	6.27	29.1	108.7	6.1

10/18/2010	5:30:40	10.84	0.001	0	96.7	10.71	41	6.27	29	109.3	6
10/18/2010	5:40:40	10.77	0.001	0	96.6	10.72	41.6	6.28	28.8	109.7	6.1
10/18/2010	5:50:40	10.7	0.001	0	96.6	10.72	41.6	6.28	28.9	110.3	6.1
10/18/2010	6:00:40	10.64	0	0	96.6	10.74	41.6	6.27	29	111	6.1
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10/18/2010	6:20:40	10.5	0	0	97.2	10.84	41.6	6.26	29.5	112.5	6.1
10/18/2010	6:30:40	10.43	0	0	97.2	10.86	41.6	6.26	29.6	113.1	6.1
10/18/2010	6:40:40	10.36	0	0	97	10.86	41.6	6.26	29.4	113.5	6.1
10/18/2010	6:50:40	10.31	0	0	97.1	10.89	41.6	6.28	28.9	113.6	6.1
10/18/2010	7:00:40	10.27	0.001	0	97.2	10.91	41.6	6.29	27.9	113	6.1
10/18/2010	7:10:40	10.24	0.001	0	97	10.89	41	6.3	27.3	112.4	6
10/18/2010	7:20:40	10.21	0.001	0	97.2	10.92	41.6	6.31	27.1	112.2	6.1
10/18/2010	7:30:40	10.19	0.001	0	97	10.9	41.6	6.32	26.6	112.2	6.1
10/18/2010	7:40:40	10.18	0.001	0	96.9	10.89	41.6	6.28	28.6	119.2	6.1
10/18/2010	7:50:40	10.18	0.001	0	97.1	10.92	41.6	6.27	29.2	122.8	6.1
10/18/2010	8:00:40	10.19	0.001	0	97.2	10.92	41.6	6.26	29.5	124.3	6.1
10/18/2010	8:10:40	10.22	0.001	0	97	10.89	41.6	6.26	29.5	125.2	6.1
10/18/2010	8:20:40	10.82	0.001	0	101.1	11.2	41.6	6.79	1.5	110.5	6
10/18/2010	8:30:40	11.26	0.001	0	101.5	11.12	41.6	7.01	-10.2	102.2	6.1
10/18/2010	8:40:40	11.56	0.001	0	101.7	11.08	42.8	7.1	-14.6	97.8	6.1
10/18/2010	8:50:40	11.84	0.001	0	101.9	11.03	41.6	7.19	-19.5	95.2	6.1
10/18/2010	9:00:40	12.23	0.001	0	102.1	10.94	41.6	7.27	-24	92.3	6.1
10/18/2010	9:10:40	12.59	0.001	0	102	10.84	42.8	7.26	-23.5	90.9	6
10/18/2010	9:20:40	12.82	0	0	102	10.79	42.8	7.29	-24.7	90.9	6.1
10/18/2010	9:30:40	12.97	0	0	102	10.75	42.8	7.24	-22	90.3	6.1
10/18/2010	9:40:40	13.1	0	0	102	10.73	42.8	7.25	-22.6	90	6.1
10/18/2010	9:50:40	13.23	0	0	102.3	10.73	42.8	7.21	-20.4	89.9	6

Data file for DataLogger.

=====

COMPANY : <Company name>

COMP.STATUS: Do

DATE : 11/10/2010

TIME : 14:05:07

FILENAME : C:\Documents and Settings\jfrady\My Documents\DiverOffice\10-11-10\CSV\15171_101011140507_C9722.CSV

CREATED BY : SWS Diver-Office 3.2.0.0

===== BEGINNING OF DATA =====

[Logger settings]

Instrument type =Micro-Diver=15

Status =Started =0

Serial number =..00-C9722 215.

Instrument number =
=0

Location =15171

Sample period =S30

Sample method =T

Number of channels =2

[Channel 1]

Identification =PRESSURE

Reference level =13.123 ft

Range =57.415 ft

Master level =0 m

Altitude =0 ft

[Channel 2]

Identification =TEMPERATURE

Reference level =-4.00 °F

Range =180.00 °F

[Series settings]

Serial number =..00-C9722 215.

Instrument number =

Location =15171
Sample period =00 00:00:30 0
Sample method =T
Start date / time =01:21:22 09/10/10
End date / time =01:18:06 11/10/10

[Channel 1 from data header]

Identification =PRESSURE
Reference level =13.123 ft
Range =57.415 ft
Master level =0 m
Altitude =0 ft

[Channel 2 from data header]

Identification =TEMPERATURE
Reference level =-4.00 °F
Range =180.00 °F

[Data]

3835

Date/time	Pressure[ft	Temperature[°F]
10/9/2010 22:21	34.602	70.82
10/9/2010 22:21	34.596	70.84
10/9/2010 22:22	34.596	70.84
10/9/2010 22:22	34.591	70.86
10/9/2010 22:23	34.596	70.86
10/9/2010 22:23	34.596	70.87
10/9/2010 22:24	34.596	70.87
10/9/2010 22:24	34.596	70.88
10/9/2010 22:25	34.596	70.89
10/9/2010 22:25	34.596	70.89
10/9/2010 22:26	34.596	70.9
10/9/2010 22:26	34.591	70.92
10/9/2010 22:27	34.585	70.92
10/9/2010 22:27	34.596	70.9

10/9/2010 22:28	34.596	70.9
10/9/2010 22:28	34.585	70.92
10/9/2010 22:29	34.596	70.93
10/9/2010 22:29	34.591	70.95
10/9/2010 22:30	34.589	70.93
10/9/2010 22:30	34.589	70.93
10/9/2010 22:31	34.591	70.95
10/9/2010 22:31	34.585	70.96
10/9/2010 22:32	34.585	70.96
10/9/2010 22:32	34.589	70.97
10/9/2010 22:33	34.589	70.97
10/9/2010 22:33	34.596	70.98
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10/9/2010 22:34	34.596	70.99
10/9/2010 22:35	34.589	70.99
10/9/2010 22:35	34.589	70.99
10/9/2010 22:36	34.589	70.99
10/9/2010 22:36	34.591	71.01
10/9/2010 22:37	34.596	71.03
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10/9/2010 22:39	34.589	71.03
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10/11/2010 6:04	34.543	70.93
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10/11/2010 6:05	34.549	70.93
10/11/2010 6:05	34.543	70.93
10/11/2010 6:06	34.543	70.93
10/11/2010 6:06	34.543	70.93
10/11/2010 6:07	34.549	70.93
10/11/2010 6:07	34.543	70.93
10/11/2010 6:08	34.543	70.93
10/11/2010 6:08	34.543	70.93
10/11/2010 6:09	34.543	70.93
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10/11/2010 6:11	34.549	70.93

10/11/2010 6:12	34.543	70.93
10/11/2010 6:12	34.549	70.93
10/11/2010 6:13	34.543	70.93
10/11/2010 6:13	34.543	71.07
10/11/2010 6:14	34.549	71.07
10/11/2010 6:14	34.543	70.99
10/11/2010 6:15	34.549	70.97
10/11/2010 6:15	34.539	70.96
10/11/2010 6:16	34.545	70.96
10/11/2010 6:16	34.545	70.96
10/11/2010 6:17	34.545	70.96
10/11/2010 6:17	34.549	70.98
10/11/2010 6:18	34.539	71.14

END OF DATA FILE OF DATALOGGER FOR WINDOWS

Data file for DataLogger.

=====

COMPANY : <Company name>

COMP.STATUS: Do

DATE : 18/10/2010

TIME : 10:07:19

FILENAME : C:\Documents and Settings\JDillon\My Documents\DiverOffice\SA-5 site 079\CSV\14534_101018100719_C3122.CSV

CREATED BY : SWS Diver-Office 3.2.0.0

===== BEGINNING OF DATA =====

[Logger settings]

Instrument type =Micro-Diver=15

Status =Started =0

Serial number =.00-C3122 215.

Instrument number =
=0

Location =14534

Sample period =S30

Sample method =T

Number of channels =2

[Channel 1]

Identification =PRESSURE

Reference level =13.123 ft

Range =57.415 ft

Master level =0 m

Altitude =0 ft

[Channel 2]

Identification =TEMPERATURE

Reference level =-20.00 °C

Range =100.00 °C

[Series settings]

Serial number =.00-C3122 215.

Instrument number =

Location =14534

Sample period =00 00:00:30 0
Sample method =T
Start date / time =08:33:23 16/10/10
End date / time =38:51:05 17/10/10

[Channel 1 from data header]

Identification =PRESSURE
Reference level =13.123 ft
Range =57.415 ft
Master level =0 m
Altitude =0 ft

[Channel 2 from data header]

Identification =TEMPERATURE
Reference level =-20.00 °C
Range =100.00 °C

[Data]

758

Date/time	Pressure[ft]	Temperature[°C]
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10/16/2010 23:33	36.013	20.37
10/16/2010 23:34	36.007	20.38
10/16/2010 23:34	36.007	20.4
10/16/2010 23:35	36.007	20.41
10/16/2010 23:35	36.007	20.42
10/16/2010 23:36	36.007	20.43
10/16/2010 23:36	35.999	20.44
10/16/2010 23:37	35.999	20.45
10/16/2010 23:37	35.994	20.46
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10/17/2010 5:50	36.07	20.62
10/17/2010 5:51	36.064	20.63
10/17/2010 5:51	36.059	20.63

END OF DATA FILE OF DATALOGGER FOR WINDOWS

Data file for DataLogger.

=====

COMPANY : <Company name>

COMP.STATUS: Do

DATE : 18/10/2010

TIME : 13:16:38

FILENAME : C:\Documents and Settings\JDillon\My Documents\DiverOffice\SA-5 site 079\CSV\15117_101018131638_D6241.CSV

CREATED BY : SWS Diver-Office 3.2.0.0

===== BEGINNING OF DATA =====

[Logger settings]

Instrument type =Micro-Diver=15

Status =Started=0

Serial number =.00-D6241 215.

Instrument number =
=0

Location =15117

Sample period =S30

Sample method =T

Number of channels =2

[Channel 1]

Identification =PRESSURE

Reference level =13.123 ft

Range =57.415 ft

Master level =0 m

Altitude =0 ft

[Channel 2]

Identification =TEMPERATURE

Reference level =-20.00 °C

Range =100.00 °C

[Series settings]

Serial number =.00-D6241 215.

Instrument number =

Location =15117

Sample period =00 00:00:30 0
Sample method =T
Start date / time =00:11:06 17/10/10
End date / time =00:10:13 18/10/10

[Channel 1 from data header]

Identification =PRESSURE
Reference level =13.123 ft
Range =57.415 ft
Master level =0 m
Altitude =0 ft

[Channel 2 from data header]

Identification =TEMPERATURE
Reference level =-20.00 °C
Range =100.00 °C

[Data]

3719

Date/time	Pressure[ft]	Temperature[°C]
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10/17/2010 6:11	36.049	20.27
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10/17/2010 6:12	36.059	20.28
10/17/2010 6:13	36.059	20.28
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10/17/2010 6:14	36.028	20.29
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10/17/2010 7:08	36.059	20.39
10/17/2010 7:09	36.059	20.39
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10/17/2010 14:43	36.939	20.93
10/17/2010 14:43	36.939	20.93
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10/17/2010 14:44	36.927	20.93
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10/17/2010 14:46	36.939	20.93

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10/17/2010 14:47	36.968	20.93
10/17/2010 14:48	36.977	20.93
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10/17/2010 14:59	37.174	20.93
10/17/2010 14:59	37.186	20.93
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10/17/2010 15:00	37.186	20.92
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10/17/2010 15:02	37.186	20.93
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10/17/2010 16:13	36.355	21.01

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10/17/2010 18:04	36.265	20.93
10/17/2010 18:04	36.265	20.93
10/17/2010 18:05	36.256	20.93
10/17/2010 18:05	36.265	20.93
10/17/2010 18:06	36.265	20.93
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10/17/2010 18:07	36.265	20.93
10/17/2010 18:07	36.265	20.93
10/17/2010 18:08	36.256	20.93
10/17/2010 18:08	36.265	20.93
10/17/2010 18:09	36.265	20.93
10/17/2010 18:09	36.265	20.93
10/17/2010 18:10	36.256	20.93
10/17/2010 18:10	36.256	20.93
10/17/2010 18:11	36.256	20.93
10/17/2010 18:11	36.265	20.93

END OF DATA FILE OF DATALOGGER FOR WINDOWS

Date m/d/y	Time hh:mm:ss	Temp C	SpCond mS/cm	Cond mS/cm	DOsat %	DO mg/L	DOchrg	pH	pH mV	Orp mV	Battery volts
10/9/2010	22:10:20	20.26	1.172	1.065	9.4	0.84	48.6	6.8	-16.3	-49.3	12
10/9/2010	22:20:40	20.14	1.168	1.059	7	0.63	48	6.76	-14	-51.1	6.4
10/9/2010	22:30:40	20.07	1.165	1.055	6.2	0.56	48	6.76	-14.2	-54.8	6.4
10/9/2010	22:40:40	19.99	1.164	1.052	5.7	0.52	48	6.76	-13.9	-53.5	6.4
10/9/2010	22:50:40	19.9	1.165	1.051	5.3	0.48	48	6.74	-13.2	-54	6.4
10/9/2010	23:00:40	19.55	1.168	1.047	4.9	0.45	48	6.72	-11.9	-54.9	6.3
10/9/2010	23:10:40	19.66	1.163	1.045	4.7	0.43	48	6.66	-9	-52.1	6.4
10/9/2010	23:20:40	19.72	1.163	1.046	4.9	0.44	48	6.65	-8.5	-50.3	6.3
10/9/2010	23:30:40	19.74	1.163	1.046	5.1	0.46	48	6.65	-8.1	-49.9	6.4
10/9/2010	23:40:40	19.72	1.162	1.045	4.8	0.44	48	6.64	-7.6	-50	6.3
10/9/2010	23:50:40	19.63	1.161	1.042	4.6	0.42	48	6.64	-7.7	-52.1	6.3
10/10/2010	0:00:40	19.62	1.16	1.041	4.5	0.41	46.9	6.64	-7.8	-54.9	6.3
10/10/2010	0:10:40	19.63	1.16	1.041	4.4	0.4	48	6.63	-7.1	-49.3	6.4
10/10/2010	0:20:40	19.57	1.163	1.042	4.3	0.39	46.9	6.65	-8.1	-53.3	6.3
10/10/2010	0:30:40	19.51	1.162	1.04	4.2	0.38	46.9	6.74	-13	-47.4	6.3
10/10/2010	0:40:40	19.62	1.16	1.041	4.1	0.38	48	6.68	-10.1	-51.9	6.3
10/10/2010	0:50:40	19.66	1.161	1.042	4.1	0.37	46.9	6.65	-8.3	-43.9	6.3
10/10/2010	1:00:40	19.7	1.161	1.044	4.2	0.39	46.9	6.67	-9.5	-49.4	6.3
10/10/2010	1:10:27	19.64	1.163	1.044	4	0.37	46.9	6.67	-9.6	-46.5	12
10/10/2010	1:20:40	19.66	1.163	1.044	4.2	0.39	46.9	6.68	-9.9	-42.9	6.3
10/10/2010	1:30:40	19.53	1.163	1.042	4.1	0.38	46.9	6.69	-10.5	-48	6.3
10/10/2010	1:40:40	19.6	1.162	1.042	4.1	0.37	46.9	6.68	-9.9	-51.3	6.3
10/10/2010	1:50:40	19.62	1.161	1.042	4	0.37	46.9	6.65	-8.4	-45.4	6.3
10/10/2010	2:00:40	19.68	1.161	1.043	4	0.37	46.9	6.65	-8.3	-45.2	6.3
10/10/2010	2:10:40	19.66	1.162	1.043	3.8	0.35	46.9	6.67	-9.6	-50.2	6.3
10/10/2010	2:20:40	19.61	1.162	1.042	3.7	0.34	46.9	6.68	-9.7	-51.2	6.3
10/10/2010	2:30:40	19.64	1.165	1.046	3.6	0.33	46.9	6.66	-8.7	-50.8	6.3
10/10/2010	2:40:40	19.57	1.161	1.041	3.7	0.34	46.9	6.65	-8.4	-49.4	6.3
10/10/2010	2:50:40	19.57	1.164	1.043	3.7	0.34	46.9	6.64	-7.9	-46.1	6.3
10/10/2010	3:00:40	19.6	1.165	1.045	3.5	0.32	48	6.64	-7.6	-49.3	6.3
10/10/2010	3:10:40	19.59	1.165	1.045	3.5	0.32	46.9	6.64	-7.8	-48.5	6.3
10/10/2010	3:20:40	19.62	1.165	1.045	3.4	0.31	46.9	6.64	-7.9	-50.4	6.3
10/10/2010	3:30:40	19.58	1.163	1.043	3.3	0.3	46.9	6.64	-7.9	-51.1	6.3

10/10/2010	3:40:40	19.61	1.162	1.042	3.4	0.31	46.9	6.6	-5.9	-46.3	6.3
10/10/2010	3:50:40	19.68	1.162	1.044	3.4	0.31	46.9	6.62	-6.7	-48.5	6.3
10/10/2010	4:00:40	19.72	1.162	1.045	3.4	0.31	46.9	6.64	-7.8	-42.7	6.3
10/10/2010	4:10:40	19.64	1.159	1.04	3.2	0.29	46.9	6.64	-8	-49.2	6.3
10/10/2010	4:20:40	19.68	1.157	1.04	3.3	0.3	46.9	6.63	-7.5	-44.9	6.3
10/10/2010	4:30:40	19.73	1.157	1.041	3.1	0.29	48	6.63	-7.3	-45	6.3
10/10/2010	4:40:40	19.74	1.157	1.041	3.2	0.29	46.9	6.62	-6.8	-45.5	6.3
10/10/2010	4:50:40	19.72	1.161	1.044	3.1	0.28	46.9	6.64	-7.9	-51.2	6.3
10/10/2010	5:00:40	19.7	1.161	1.043	3	0.28	46.9	6.65	-8.2	-49.4	6.3
10/10/2010	5:10:40	19.68	1.158	1.041	3.1	0.28	48	6.64	-7.9	-50	6.3
10/10/2010	5:20:40	19.71	1.157	1.04	3.1	0.28	46.9	6.63	-7.1	-47.1	6.3
10/10/2010	5:30:40	19.67	1.162	1.044	3	0.28	48	6.63	-7.5	-47.9	6.3
10/10/2010	5:40:40	19.74	1.162	1.045	2.9	0.26	46.9	6.63	-7.3	-45.3	6.3
10/10/2010	5:50:40	19.8	1.161	1.046	2.8	0.25	48	6.65	-8.3	-51.3	6.3
10/10/2010	6:00:40	19.71	1.162	1.045	2.9	0.26	46.9	6.65	-8.4	-50.1	6.3
10/10/2010	6:10:40	19.77	1.161	1.045	2.8	0.25	46.9	6.63	-7.1	-46.2	6.3
10/10/2010	6:20:40	19.79	1.161	1.046	2.7	0.25	48	6.62	-7	-46.6	6.3
10/10/2010	6:30:40	19.75	1.165	1.048	2.8	0.25	48	6.65	-8.5	-51.3	6.3
10/10/2010	6:40:40	19.76	1.164	1.048	2.6	0.24	48	6.64	-7.6	-46.3	6.3
10/10/2010	6:50:40	19.77	1.165	1.048	2.7	0.24	48	6.64	-7.8	-47.1	6.3
10/10/2010	7:00:40	19.8	1.165	1.049	2.6	0.23	48	6.64	-7.9	-48	6.3
10/10/2010	7:10:40	19.78	1.165	1.049	2.6	0.24	46.9	6.65	-8.2	-48.3	6.3
10/10/2010	7:20:40	19.8	1.165	1.049	2.6	0.24	48	6.64	-7.9	-46.4	6.3
10/10/2010	7:30:40	19.81	1.165	1.049	2.6	0.24	48	6.66	-8.7	-48.9	6.3
10/10/2010	7:40:40	19.75	1.166	1.049	2.5	0.22	46.9	6.66	-8.6	-49.1	6.3
10/10/2010	7:50:40	19.72	1.165	1.048	2.5	0.23	48	6.67	-9.2	-51.2	6.3
10/10/2010	8:00:40	19.73	1.165	1.048	2.5	0.23	48	6.68	-9.9	-50.7	6.3
10/10/2010	8:10:40	19.67	1.165	1.046	2.4	0.22	48	6.67	-9.2	-47.4	6.3
10/10/2010	8:20:40	19.68	1.165	1.047	2.3	0.21	48	6.67	-9.3	-46.4	6.3
10/10/2010	8:30:40	19.74	1.165	1.048	2.3	0.21	48	6.67	-9.5	-49.1	6.3
10/10/2010	8:40:40	19.78	1.165	1.049	2.3	0.21	48	6.67	-9.2	-45.4	6.3
10/10/2010	8:50:40	19.65	1.164	1.045	2.2	0.2	48	6.68	-10	-48.8	6.3
10/10/2010	9:00:40	19.69	1.166	1.048	2.2	0.2	48	6.68	-9.7	-46.9	6.3
10/10/2010	9:10:40	19.73	1.166	1.049	2.2	0.2	48	6.68	-9.8	-44.8	6.3
10/10/2010	9:20:40	19.79	1.165	1.049	2.3	0.21	48	6.7	-10.8	-48	6.3
10/10/2010	9:30:40	19.76	1.165	1.049	2.1	0.2	48	6.69	-10.4	-47.4	6.3
10/10/2010	9:40:40	19.74	1.166	1.049	2.2	0.2	48	6.68	-9.9	-44.8	6.3

10/10/2010	9:50:40	19.77	1.165	1.049	2.2	0.2	48	6.67	-9.3	-43.8	6.3
10/10/2010	10:00:40	19.79	1.165	1.049	2.2	0.2	48	6.68	-10	-47.5	6.3
10/10/2010	10:10:40	19.8	1.165	1.049	2.1	0.19	48	6.66	-8.9	-45.5	6.3
10/10/2010	10:20:40	19.78	1.166	1.049	2.2	0.2	48	6.68	-9.9	-49.6	6.3
10/10/2010	10:30:40	19.79	1.165	1.049	2	0.19	48	6.66	-8.6	-48	6.3
10/10/2010	10:40:40	19.77	1.166	1.049	2	0.18	48	6.66	-8.9	-48.9	6.3
10/10/2010	10:50:40	19.76	1.164	1.048	2.1	0.19	48	6.66	-8.7	-51.6	6.3
10/10/2010	11:00:40	19.73	1.163	1.046	1.9	0.18	48	6.62	-6.8	-50	6.3
10/10/2010	11:10:40	19.77	1.163	1.047	1.9	0.17	48	6.62	-7	-50.9	6.3
10/10/2010	11:20:40	19.77	1.163	1.047	2	0.18	48	6.62	-6.8	-50.1	6.3
10/10/2010	11:30:40	19.72	1.164	1.046	2	0.19	48	6.63	-7.3	-51.8	6.3
10/10/2010	11:40:40	19.72	1.163	1.045	1.9	0.17	48	6.61	-6.3	-49.4	6.3
10/10/2010	11:50:40	19.72	1.163	1.045	2	0.18	48	6.66	-9	-49.5	6.3
10/10/2010	12:00:40	19.66	1.165	1.046	2	0.18	48	6.66	-8.7	-47.8	6.2
10/10/2010	12:10:40	19.72	1.164	1.047	1.8	0.17	48	6.66	-8.7	-46	6.3
10/10/2010	12:20:40	19.72	1.164	1.046	1.9	0.18	48	6.67	-9.3	-47.3	6.2
10/10/2010	12:30:40	19.67	1.163	1.045	1.8	0.16	48	6.67	-9.5	-47.5	6.2
10/10/2010	12:40:40	19.74	1.162	1.045	1.8	0.16	48	6.68	-9.8	-47.8	6.2
10/10/2010	12:50:40	19.76	1.163	1.046	1.7	0.16	48	6.7	-11.1	-48.3	6.2
10/10/2010	13:00:40	19.68	1.159	1.042	1.7	0.16	48	6.69	-10.7	-48.6	6.3
10/10/2010	13:10:40	19.72	1.159	1.042	1.7	0.16	48	6.7	-11.1	-48.1	6.2
10/10/2010	13:20:40	19.74	1.158	1.041	1.8	0.16	48	6.69	-10.4	-46.4	6.2
10/10/2010	13:30:40	19.7	1.158	1.041	1.7	0.15	48	6.69	-10.6	-48.5	6.2
10/10/2010	13:40:40	19.73	1.158	1.041	1.7	0.15	48	6.68	-10.1	-45.2	6.2
10/10/2010	13:50:40	19.68	1.159	1.041	1.8	0.16	48	6.7	-11.2	-48	6.2
10/10/2010	14:00:40	19.62	1.163	1.043	1.6	0.15	48	6.71	-11.5	-49.2	6.2
10/10/2010	14:10:40	19.68	1.161	1.043	1.6	0.14	48	6.72	-11.8	-48.8	6.3
10/10/2010	14:20:40	19.69	1.161	1.043	1.7	0.15	48	6.71	-11.7	-49.1	6.2
10/10/2010	14:30:40	19.65	1.16	1.042	1.7	0.16	48	6.71	-11.6	-49.2	6.2
10/10/2010	14:40:40	19.66	1.16	1.041	1.6	0.14	48	6.69	-10.6	-47.1	6.2
10/10/2010	14:50:40	19.7	1.156	1.039	1.6	0.14	48	6.7	-11	-46.1	6.2
10/10/2010	15:00:40	19.68	1.166	1.047	1.7	0.15	48	6.71	-11.4	-47.6	6.2
10/10/2010	15:10:40	19.71	1.162	1.045	1.5	0.14	48	6.72	-11.8	-48.3	6.2
10/10/2010	15:20:40	19.65	1.166	1.047	1.5	0.14	48	6.71	-11.6	-47.2	6.2
10/10/2010	15:30:40	19.69	1.166	1.048	1.5	0.13	48	6.72	-11.9	-47.2	6.2
10/10/2010	15:40:40	19.71	1.165	1.048	1.4	0.13	48	6.71	-11.3	-46.4	6.2
10/10/2010	15:50:40	19.74	1.165	1.048	1.6	0.14	48	6.72	-12	-46.6	6.2

10/10/2010	16:00:40	19.76	1.165	1.048	1.6	0.15	48	6.72	-11.9	-46.4	6.2
10/10/2010	16:10:40	19.71	1.166	1.048	1.6	0.15	48	6.73	-12.8	-47.9	6.2
10/10/2010	16:20:40	19.67	1.166	1.048	1.5	0.14	48	6.73	-12.3	-47.9	6.2
10/10/2010	16:30:40	19.71	1.166	1.048	1.6	0.14	48	6.74	-12.9	-47.2	6.2
10/10/2010	16:40:40	19.7	1.164	1.046	1.6	0.14	48	6.74	-13	-46.6	6.2
10/10/2010	16:50:40	19.62	1.165	1.045	1.5	0.13	48	6.73	-12.7	-47.5	6.2
10/10/2010	17:00:40	19.58	1.162	1.042	1.5	0.14	48	6.74	-12.9	-47.8	6.2
10/10/2010	17:10:40	19.57	1.167	1.046	1.5	0.14	48	6.74	-13.1	-47.9	6.2
10/10/2010	17:20:40	19.7	1.165	1.047	1.6	0.14	48	6.73	-12.8	-46.3	6.2
10/10/2010	17:30:40	19.76	1.165	1.049	1.4	0.13	48	6.73	-12.8	-45.5	6.2
10/10/2010	17:40:40	19.67	1.167	1.048	1.4	0.13	48	6.67	-9.3	-48.3	6.2
10/10/2010	17:50:40	19.72	1.166	1.048	1.4	0.13	48	6.67	-9.2	-49.7	6.2
10/10/2010	18:00:40	19.67	1.166	1.047	1.3	0.12	48	6.67	-9.2	-50.4	6.2
10/10/2010	18:10:40	19.7	1.165	1.047	1.3	0.12	48	6.66	-9	-49.6	6.2
10/10/2010	18:20:40	19.65	1.164	1.045	1.4	0.13	48	6.66	-8.8	-48.5	6.2
10/10/2010	18:30:40	19.73	1.162	1.045	1.5	0.13	48	6.66	-8.7	-48.2	6.2
10/10/2010	18:40:40	19.76	1.162	1.045	1.5	0.14	48	6.66	-8.7	-48.5	6.2
10/10/2010	18:50:40	19.65	1.164	1.045	1.4	0.12	48	6.65	-8.6	-50.4	6.2
10/10/2010	19:00:40	19.7	1.16	1.043	1.4	0.13	48.6	6.66	-8.6	-50.8	6.2
10/10/2010	19:10:40	19.68	1.164	1.045	1.4	0.13	48.6	6.65	-8.5	-49.7	6.2
10/10/2010	19:20:00	19.67	1.164	1.045	1.3	0.12	48	6.62	-7	-48.8	12
10/10/2010	19:30:40	19.71	1.163	1.045	1.3	0.12	48	6.65	-8.3	-49.6	6.2
10/10/2010	19:40:40	19.72	1.163	1.046	1.3	0.12	48	6.65	-8.5	-51.2	6.2
10/10/2010	19:50:40	19.65	1.164	1.045	1.3	0.11	48	6.65	-8.5	-51	6.2
10/10/2010	20:00:40	19.68	1.162	1.044	1.3	0.12	48	6.66	-8.6	-50.4	6.2
10/10/2010	20:10:40	19.67	1.163	1.044	1.4	0.13	48	6.66	-8.7	-49.9	6.2
10/10/2010	20:20:40	19.58	1.168	1.047	1.3	0.12	48	6.66	-8.8	-51	6.2
10/10/2010	20:30:40	19.63	1.165	1.046	1.2	0.11	48	6.66	-8.7	-49.7	6.2
10/10/2010	20:40:40	19.68	1.164	1.045	1.3	0.12	48	6.66	-8.9	-49	6.2
10/10/2010	20:50:40	19.69	1.163	1.045	1.4	0.12	48	6.67	-9.3	-50.9	6.2
10/10/2010	21:00:40	19.66	1.164	1.045	1.2	0.11	48	6.65	-8.1	-49.7	6.2
10/10/2010	21:10:40	19.66	1.164	1.046	1.2	0.11	48	6.64	-7.8	-51.9	6.2
10/10/2010	21:20:40	19.68	1.163	1.045	1.2	0.11	48	6.66	-8.7	-50.9	6.1
10/10/2010	21:30:40	19.7	1.162	1.044	1.1	0.1	48	6.66	-8.7	-49.3	6.2
10/10/2010	21:40:40	19.74	1.164	1.047	1.3	0.12	48	6.66	-8.8	-47.9	6.2
10/10/2010	21:50:40	19.7	1.168	1.049	1.3	0.12	48	6.67	-9.2	-50.2	6.2
10/10/2010	22:00:40	19.7	1.167	1.048	1.2	0.11	48	6.66	-9.1	-50.4	6.1

10/10/2010	22:10:40	19.72	1.165	1.048	1.2	0.11	48	6.66	-9	-49.3	6.1
10/10/2010	22:20:40	19.75	1.165	1.048	1.1	0.1	48	6.66	-8.9	-47.5	6.1
10/10/2010	22:30:40	19.72	1.166	1.048	1.1	0.1	48	6.66	-9.1	-50.2	6.1
10/10/2010	22:40:40	19.74	1.163	1.046	1.1	0.1	48	6.66	-8.6	-47.7	6.1
10/10/2010	22:50:40	19.74	1.162	1.045	1.1	0.1	48	6.65	-8.6	-47.7	6.1
10/10/2010	23:00:40	19.71	1.162	1.044	1.1	0.1	48	6.65	-8.5	-46.6	6.1
10/10/2010	23:10:40	19.78	1.162	1.046	1.1	0.1	48.6	6.65	-8.4	-45.8	6.1
10/10/2010	23:20:40	19.7	1.165	1.047	1.1	0.1	48	6.66	-8.7	-50	6.1
10/10/2010	23:30:40	19.73	1.165	1.048	1.1	0.1	48.6	6.65	-8.5	-47.8	6.1
10/10/2010	23:40:40	19.76	1.166	1.049	1.2	0.11	48	6.66	-8.9	-49.9	6.2
10/10/2010	23:50:40	19.63	1.167	1.048	1.2	0.11	48	6.66	-8.7	-50.1	6.1
10/11/2010	0:00:40	19.72	1.165	1.048	1.2	0.11	48	6.66	-8.8	-49.4	6.1
10/11/2010	0:10:40	19.58	1.166	1.045	1.1	0.1	48	6.66	-8.8	-50.4	6.2
10/11/2010	0:20:40	19.6	1.165	1.045	1.2	0.11	48	6.65	-8.6	-50.6	6.2
10/11/2010	0:30:40	19.62	1.163	1.043	1.2	0.11	48	6.65	-8.5	-50.8	6.1
10/11/2010	0:40:40	19.73	1.165	1.047	1.1	0.1	48.6	6.66	-8.9	-50.5	6.1
10/11/2010	0:50:40	19.7	1.166	1.048	1	0.1	48	6.66	-8.7	-47.8	6.1
10/11/2010	1:00:40	19.76	1.165	1.048	1	0.09	48	6.64	-8.1	-45	6.1
10/11/2010	1:10:40	19.75	1.167	1.05	1	0.09	48	6.65	-8.3	-48.4	6.1
10/11/2010	1:20:40	19.74	1.167	1.05	1	0.09	48	6.65	-8.4	-50.7	6.1
10/11/2010	1:30:40	19.65	1.168	1.049	1	0.09	48	6.65	-8.3	-51	6.1
10/11/2010	1:40:40	19.7	1.166	1.048	1	0.09	48	6.67	-9.4	-49.1	6.1
10/11/2010	1:50:40	19.76	1.167	1.05	1.1	0.1	48	6.68	-9.7	-47.8	6.1
10/11/2010	2:00:40	19.69	1.168	1.05	1	0.09	48	6.68	-9.9	-47.6	6.1
10/11/2010	2:10:40	19.71	1.166	1.048	1	0.09	48	6.67	-9.4	-46.5	6.1
10/11/2010	2:20:40	19.69	1.167	1.049	1.1	0.1	48	6.66	-8.9	-46.3	6.1
10/11/2010	2:30:40	19.71	1.167	1.049	1	0.09	48.6	6.66	-8.9	-49.6	6.1
10/11/2010	2:40:40	19.73	1.17	1.053	1	0.09	48	6.66	-8.8	-49.1	6.1
10/11/2010	2:50:40	19.79	1.169	1.052	1	0.09	48	6.65	-8.5	-45.6	6.1
10/11/2010	3:00:40	19.79	1.168	1.052	1.1	0.1	48	6.68	-9.8	-48.3	6.1
10/11/2010	3:10:40	19.77	1.169	1.052	1	0.09	48.6	6.68	-9.8	-47.5	6.1
10/11/2010	3:20:40	19.77	1.166	1.05	1.1	0.1	48	6.68	-9.7	-49.3	6.1
10/11/2010	3:30:40	19.74	1.167	1.049	1.1	0.1	48	6.67	-9.5	-47.7	6.1
10/11/2010	3:40:40	19.79	1.166	1.05	1	0.09	48	6.67	-9.3	-48.8	6.1
10/11/2010	3:50:40	19.77	1.164	1.048	1.1	0.1	48	6.66	-9	-46.4	6.1
10/11/2010	4:00:40	19.79	1.163	1.048	1	0.09	48	6.66	-8.7	-45.2	6.1
10/11/2010	4:10:40	19.74	1.164	1.047	1.1	0.1	48	6.66	-8.9	-48.6	6.1

10/11/2010	4:20:40	19.75	1.163	1.046	1.1	0.1	48	6.65	-8.5	-46.5	6.1
10/11/2010	4:30:40	19.77	1.166	1.049	1	0.09	48	6.65	-8.4	-47.8	6.1
10/11/2010	4:40:40	19.81	1.166	1.05	1	0.09	48	6.65	-8.1	-45.7	6.1
10/11/2010	4:50:40	19.85	1.166	1.051	1.1	0.1	48	6.64	-7.6	-44.6	6.1
10/11/2010	5:00:40	19.82	1.166	1.05	1.1	0.1	48	6.63	-7.4	-49.6	6.1
10/11/2010	5:10:40	19.7	1.166	1.048	1	0.09	48	6.63	-7.1	-47.7	6.1
10/11/2010	5:20:40	19.76	1.164	1.048	1	0.09	48	6.63	-7.4	-48.5	6.1
10/11/2010	5:30:40	19.83	1.164	1.049	1.1	0.1	48	6.63	-7.1	-46.1	6.1
10/11/2010	5:40:40	19.87	1.163	1.049	1.1	0.1	48	6.63	-7.2	-45.9	6.1
10/11/2010	5:50:40	19.86	1.163	1.049	1	0.09	48	6.63	-7.1	-47.6	6.1
10/11/2010	6:00:40	19.84	1.164	1.049	1	0.09	48	6.62	-6.8	-45.4	6.1

Air Monitoring
Site 079 Route 440 Vehicle Corp
Route 440, Jersey City, New Jersey

Location	Date	Time	CO	VOC	H2S	LEL	OXY
079-MW-A02	10/16/2010	21:57	0	3.1	0	6	19.8
079-MW-001	10/16/2010	22:01	0	0.4	0	0	20.6
Southern Manhole	10/16/2010	23:41	0	2.4	0	0	20.9
079-MW-A02	10/17/2010	2:30	0	0.1	0	0	20.9
079-MW-001	10/17/2010	2:33	0	0	0	0	20.9
Storm Sewer	10/17/2010	3:55	0	0	0	0	20.9
079-MW-001	10/17/2010	5:15	0	0	0	0	20.9
079-MW-001	10/17/2010	7:25	0	0	0	0	20.9
079-MW-A02	10/17/2010	7:32	0	0.3	0	0	20.9
Southern Manhole	10/17/2010	7:30	0	0.5	0	0	20.9
Southern Manhole	10/17/2010	8:15	0	0.9	0	0	20.9
079-MW-A02	10/17/2010	8:20	0	1.2	0	0	20.9
079-MW-001	10/17/2010	8:25	0	0	0	0	20.9
079-MW-001	10/17/2010	9:02	0	1.1	0	0	20.9
079-MW-A02	10/17/2010	9:04	0	1.2	0	0	20.9
Southern Manhole	10/17/2010	9:08	0	0.2	0	0	20.9
079-MW-001	10/17/2010	10:20	0	1.3	0	0	20.9
079-MW-A02	10/17/2010	10:22	0	0.9	0	0	20.9
Southern Manhole	10/17/2010	11:24	0	0	0	0	20.9
Southern Manhole	10/17/2010	12:40	1	0	0	0	20.9
079-MW-A02	10/17/2010	12:45	0	0	0	0	20.9
079-MW-001	10/17/2010	12:48	0	0	0	0	20.9
Southern Manhole	10/17/2010	13:00	0	0	0	0	20.9
079-MW-001	10/17/2010	13:02	0	0	0	0	20.9
Southern Manhole	10/17/2010	12:58	0	0	0	0	20.9
079-MW-001	10/17/2010	14:08	0	0	0	0	20.9
079-MW-A02	10/17/2010	14:10	0	0	0	9	20.9
Southern Manhole	10/17/2010	14:12	0	0	0	0	20.9
079-MW-001	10/17/2010	14:47	0	0	0	0	20.9

079-MW-A02	10/17/2010	14:48	0	0	0	9	20.9
Southern Manhole	10/17/2010	14:49	0	0	0	0	20.9
Northern Manhole	10/17/2010	14:50	0	0	0	0	20.9
079-MW-A02	10/17/2010	15:24	0	0	0	5	20.9
079-MW-001	10/17/2010	15:25	0	0	0	0	20.9
Southern Manhole	10/17/2010	15:26	0	0	0	0	20.9
Northern Manhole	10/17/2010	15:27	0	0	0	0	20.9
079-MW-001	10/17/2010	16:16	0	0	0	0	20.9
Northern Manhole	10/17/2010	16:17	0	0	0	0	20.9
Southern Manhole	10/17/2010	16:18	0	0	0	4	20.9
079-MW-A02	10/17/2010	16:19	0	0	0	0	20.9
Southern Manhole	10/17/2010	16:45	1	0	0	4	20.9
Northern Manhole	10/17/2010	16:46	0	0	0	0	20.9
079-MW-A02	10/17/2010	16:47	0	0	0	0	20.9
079-MW-001	10/17/2010	16:48	0	0	0	0	20.9

079-MW-A02
10/16/2010-10/17/2010
Site 079 Route 440 Vehicle Corp Injections

Date	Time	Depth To water
10/16/2010	21:50	4.99
10/16/2010	23:13	4.99
10/17/2010	1:07	4.99
10/17/2010	1:42	4.99
10/17/2010	2:01	4.98
10/17/2010	2:55	4.95
10/17/2010	3:25	4.94
10/17/2010	4:04	4.93
10/17/2010	5:08	4.9
10/17/2010	6:02	4.87
10/17/2010	7:15	4.83
10/17/2010	8:30	4.78
10/17/2010	9:35	4.4
10/17/2010	10:35	4.4
10/17/2010	11:36	4.44
10/17/2010	12:41	3.80
10/17/2010	13:25	3.80
10/17/2010	14:20	3.60
10/17/2010	15:30	4.05
10/17/2010	16:16	4.40

079-MW-001
10/16/2010-10/17/2010
Site 079 Route 440 Vehicle Corp Injections

Date	Time	Depth To water	
10/16/2010	22:00	5.03	
10/16/2010	22:50	5.03	
10/17/2010	1:09	5.03	
10/17/2010	3:27	5.03	
10/17/2010	4:06	5.03	
10/17/2010	5:11	5.03	
10/17/2010	7:35	5.03	
10/17/2010	8:40	5.01	
10/17/2010	9:40	5.02	
10/17/2010	10:38	4.98	
10/17/2010	11:37	4.98	
10/17/2010	12:45	4.98	
10/17/2010	14:25	4.91	
10/17/2010	16:18	4.98	

**Site 079 Route 440 Vehicle
Injection Pilot Study
Temporary Well Point 4
10-16-2010-10-17-2010**

Date	Time	pH	Conductivity	Turbidity	Dissolved Oxygen	Temperature	ORP	Depth to Water
10/16/2010	22:15	6.37	2.56	870	3.62	20.3	-26	7.12
10/17/2010	1:21	7.28	2.58	6.02	2.84	19.19	-87	7.11
10/17/2010	2:44	7:58	2.51	361	4.91	19.04	-104	7.11
10/17/2010	4:12	7.13	2.46	253	8.13	18.32	-102	7.10
10/17/2010	6:40	6.90	2.62	347	2.00	16.88	-91	7.06
10/17/2010	7:56	7.56	2.67	>999	9.93	17.05	-129	7.05
10/17/2010	9:00	7.51	2.44	>999	2.54	20.15	-129	7.05
10/17/2010	10:00	7.82	2.46	>999	1.05	22.14	-143	7.02
10/17/2010	11:03	7.71	2.40	>999	8.53	21.68	-141	7.03
10/17/2010	12:07	7.84	2.45	>999	8.11	24.10	-150	7.03
10/17/2010	13:30	7.66	2.49	832	8.90	22.77	-135	7.03
10/17/2010	15:02	7.94	2.48	757	5.77	22.96	-170	7.03
10/17/2010	16:25	8.13	2.51	866	4.84	22.48	-169	7.05
10/17/2010	18:05	7.97	2.51	>999	1.02	22.17	-184	7.04

**Site 079 Route 440 Vehicle
Injection Pilot Study
Temporary Well Point 5
10-16-2010-10-17-2010**

Date	Time	pH	Conductivity	Turbidity	Dissolved		ORP	Depth to
					Oxygen	Temperature		Water
10/16/2010	22:20	7.04	2.37	401	4.41	21.68	-107	6.59
10/17/2010	1:29	7.53	2.44	138	2.93	20.18	-130	6.58
10/17/2010	2:48	7.53	2.45	123	2.27	21.21	-137	6.58
10/17/2010	4:16	7.71	2.42	213	3.76	20.02	-139	6.55
10/17/2010	6:48	7.48	2.45	443	0.86	19.82	-142	6.54
10/17/2010	8:04	7.52	2.45	7.07	0.48	20.22	-142	6.54
10/17/2010	9:07	7.40	2.41	907.00	0.50	20.20	-139	6.52
10/17/2010	10:05	7.69	2.40	744.00	0.49	21.87	-156	6.52
10/17/2010	11:09	7.60	2.42	647.00	2.95	21.77	-149	6.52
10/17/2010	12:12	7.54	2.42	4.91	0.81	21.87	-137	6.51
10/17/2010	13:37	7.57	2.39	321.00	1.06	22.14	-139	6.51
10/17/2010	15:06	7.77	2.39	308.00	2.21	22.37	-161	6.51
10/17/2010	16:30	7.90	2.33	380.00	2.85	22.17	-149	6.50
10/17/2010	18:00	8.30	2.38	312.00	2.27	21.53	-235	6.50

**Site 079 Route 440 Vehicle
Injection Pilot Study
Temporary Well Point 6
10-16-2010-10-17-2010**

Date	Time	pH	Conductivity	Turbidity	Dissolved		ORP	Depth to		GW Color	
					Oxygen	Temperature		Water			
10/16/2010	22:25	7.25	2.47	701	6.23	21.41	-130	6.61			
10/17/2010	7:59	7.59	2.46	144	3.01	20.63	-153	6.60			
10/17/2010	2:52	7.68	2.48	304	0.6	19.35	-152	6.58			
10/17/2010	4:18	7.69	2.45	280	5.51	20.10	-148	6.57			
10/17/2010	6:53	7.80	2.44	>999	0.55	19.08	-224	6.52			
10/17/2010	8:06	8.88	2.63	852	2.37	19.79	-352	6.52		Yellow color	
10/17/2010	9:15	9.07	3.65	>999	0	20.01	-428	6.52			
10/17/2010	10:11	9.10	4.29	Sulfur Odors	0	19.78	-442	6.53			
10/17/2010	11:11	Stopped Monitoring Due to Sulfur Odors									Olive Green
10/17/2010	12:19							6.53			
10/17/2010	13:45	9.25	5.50	>999	0.42	21.95	-439	6.53			
10/17/2010	15:09	9.10	3.86	>999	0	21.86	-431	6.51			
10/17/2010	16:39	8.83	2.72	898	2.65	21.73	-360	6.51			
10/17/2010	17:57	8.82	2.62	>999	6.33	21.79	-387	6.51			

**Site 079 Route 440 Vehicle
Injection Pilot Study
Temporary Well Point 7
10-16-2010-10-17-2010**

Date	Time	pH	Conductivity	Turbidity	Dissolved		ORP	Depth to
					Oxygen	Temperature		Water
10/16/2010	22:30	7.27	2.39	787	7.11	21.83	-140	6.48
10/17/2010	1:37	7.53	2.39	362	5.82	20.93	-158	6.47
10/17/2010	2:59	7.65	4.41	204	4.60	20.35	-159	6.46
10/17/2010	4:23	7.62	2.37	168	5.36	20.89	-16	6.44
10/17/2010	7:02	7.50	2.39	334	0.89	18.41	-169	6.51
10/17/2010	8:14	7.71	2.41	384	0.78	19.23	-202	6.40
10/17/2010	9:17	8.15	2.31	243	1.26	19.95	-229	6.40
10/17/2010	10:16	8.47	2.30	147	1.17	21.20	-237	6.41
10/17/2010	11:16	8.60	2.28	523	0.00	21.30	-320	6.41
10/17/2010	12:20	8.85	2.53	>999	8.29	21.83	-371	6.40
10/17/2010	13:52	9.12	2.58	>999	0.00	23.33	-407	6.41
10/17/2010	15:12	9.10	2.73	819	0.00	22.33	-403	6.40
10/17/2010	16:39	8.91	2.56	>999	0.00	21.79	-372	6.40
10/17/2010	17:51	8.76	2.50	>999	0.00	21.93	-364	6.41

**Site 079 Route 440 Vehicle
Injection Pilot Study
Temporary Well Point 8
10-16-2010-10-17-2010**

Date	Time	pH	Conductivity	Turbidity	Dissolved		ORP	Depth to
					Oxygen	Temperature		Water
10/16/2010	22:35	7.89	2.27	629	4.35	23.11	-65	6.33
10/17/2010	1:42	8.02	2.30	281	3.35	21.70	-87	6.32
10/17/2010	3:00	8.04	2.28	123	4.75	20.62	-78	6.32
10/17/2010	4:30	8.29	2.33	91.8	383	19.77	-64	6.31
10/17/2010	7:08	8.04	2.26	675	2.15	20.01	-111	6.30
10/17/2010	8:18	8.08	2.25	637	0.77	20.06	-160	6.28
10/17/2010	9:21	8.37	2.26	437	1.31	21.49	-197	6.27
10/17/2010	10:20	8.49	2.26	358	2.40	21.89	-198	6.25
10/17/2010	11:20	8.50	2.23	183	0.49	22.58	-199	6.25
10/17/2010	12:27	8.71	2.21	165	0.98	21.87	-228	6.25
10/17/2010	14:00	8.88	2.22	85.7	2.87	22.70	-244	6.30
10/17/2010	15:18	8.73	2.16	181	2.61	22.54	-234	6.26
10/17/2010	16:43	8.79	2.13	202	2.35	21.79	-230	6.26
10/17/2010	17:50	8.38	2.17	186	3.46	22.40	-118	6.26

**Site 079 Route 440 Vehicle
Injection Pilot Study
Temporary Well Point 9
10-16-2010-10-17-2010**

Date	Time	pH	Conductivity	Turbidity	Dissolved Oxygen	Temperature	ORP	Depth to Water
10/16/2010	22:40	8.04	2.25	399	3.93	21.82	43	6.13
10/17/2010	1:44	8.21	2.36	219	5.86	19.97	64	6.11
10/17/2010	3:06	8.14	2.35	98.7	5.18	20.89	19	6.11
10/17/2010	4:34	8.25	2.40	46.4	4.67	21.21	10	6.11
10/17/2010	7:11	7.98	2.42	160	1.53	20.12	-114	6.10
10/17/2010	8:25	8.13	2.40	229	1.47	20.43	-158	6.10
10/17/2010	9:26	8.35	2.39	135	1.02	2.42	-182	6.06
10/17/2010	10:25	8.35	2.35	124	5.35	21.68	-175	6.05
10/17/2010	11:25	8.35	2.37	155	1.90	22.08	-171	6.06
10/17/2010	12:32	8.39	2.38	157	1.70	22.98	-192	6.03
10/17/2010	14:05	8.56	2.19	64.8	3.24	24.44	-197	6.04
10/17/2010	15:23	8.40	2.25	91.4	4.02	22.93	-204	6.10
10/17/2010	16:49	8.33	2.30	97.4	8.85	22.53	-186	6.05
10/17/2010	17:46	8.33	2.35	173	9.23	22.00	-118	6.05

**Site 079 Route 440 Vehicle
Injection Pilot Study
Temporary Well Point 1
10-09-2010 thru 10-11-2010**

Date	Time	pH	Conductivity	Turbidity	Dissolved		ORP	Depth to
					Oxygen	Temperature		Water
10/10/2010	12:38	7.55	2.06	517	2.31	21.31	-88	6.91
10/10/2010	4:12	7.56	2.19	321	2.21	21.14	-112	6.91
10/10/2010	5:36	7.54	2.33	130	2.90	19.38	-91	6.91
10/10/2010	6:30	7.55	2.27	144	1.63	18.77	-51	6.91
10/10/2010	7:30	7.53	2.20	236	1.55	17.21	-103	6.91
10/10/2010	8:30	7.67	2.29	>999	2.07	19.25	47	6.91 Very turbid
10/10/2010	9:30	7.34	2.17	>999	2.34	19.78	-73	6.90
10/10/2010	10:45	7.53	2.20	240	1.45	20.50	-104	6.86
10/10/2010	12:00	7.63	2.13	225	1.52	22.10	-96	6.87
10/10/2010	12:57	7.60	2.19	145	1.58	23.26	-103	6.85
10/10/2010	14:30	7.37	2.22	64.3	1.75	24.15	-111	6.85
10/10/2010	15:30	7.70	2.12	154	1.74	24.11	-111	6.85
10/10/2010	16:27	7.60	2.18	66.6	1.97	23.70	-38	6.85
10/10/2010	16:50	7.60	2.24	289	2.01	22.20	-93	6.85
10/10/2010	17:30	7.62	2.36	172	4.57	22.48	-53	6.85
10/10/2010	18:26	7.42	2.21	9.22	1.32	22.28	-101	6.84
10/10/2010	19:47	7.58	2.06	94.7	4.21	21.40	-69	6.83
10/10/2010	20:45	7.54	2.31	85.7	3.01	21.80	-75	6.84
10/10/2010	22:15	7.29	2.25	60.5	4.31	22.13	-114	6.80
10/10/2010	23:14	7.31	2.12	48.5	4.78	21.13	-95	6.87
10/11/2010	0:30	7.61	2.27	125	4.60	22.57	-109	6.78
10/11/2010	1:35	7.45	2020.00	91.8	3.81	21.98	-89	6.78
10/11/2010	2:39	7.47	2.17	154	4.38	20.11	-113	6.78
10/11/2010	4:01	7.49	2.30	58.6	4.10	21.70	-123	6.79
10/11/2010	4:45	7.70	2.25	91.7	5.15	19.75	-121	6.79

**Site 079 Route 440 Vehicle
Injection Pilot Study
Temporary Well Point 2
10-9-2010 thru 10-11-2010**

Date	Time	pH	Conductivity	Turbidity	Dissolved		ORP	Depth to
					Oxygen	Temperature		Water
10/10/2010	12:15	6.96	2.58	559	2.03	21.56	-77	6.03
10/10/2010	4:09	7.47	2.63	404	1.13	20.87	-115	6.03
10/10/2010	5:24	7.48	2.63	520	0.94	20.86	-125	6.03
10/10/2010	6:36	7.44	2.57	678	1.24	20.53	-120	6.03
10/10/2010	7:36	7.36	2.5	788	1.03	17.92	-116	6.00
10/10/2010	8:37	7.37	2.47	301	0.94	18.8	-93	6.00
10/10/2010	9:48	7.35	2.55	454	2.02	19.26	-106	5.98
10/10/2010	10:55	7.36	2.53	396	1.59	20.85	-109	5.96
10/10/2010	12:05	7.36	2.51	243	1.60	22.25	-113	5.96
10/10/2010	13:05	7.42	2.54	177	2.03	21.95	-110	5.98
10/10/2010	14:42	7.35	2.55	375	1.53	22.62	-108	5.97
10/10/2010	15:37	7.63	2.61	347	2.03	22.62	-117	5.98
10/10/2010	16:36	7.54	2.58	214	1.82	22.12	-117	5.95
10/10/2010	17:34	7.48	2.46	259	2.40	21.99	-109	5.93
10/10/2010	18:32	7.40	2.57	149	0.80	21.82	-114	5.95
10/10/2010	19:53	7.48	2.52	208	2.25	21.85	-101	5.95
10/10/2010	20:50	7.53	2.5	95.1	0.93	21.79	-105	5.94
10/10/2010	22:09	7.19	5.54	167	3.91	21.99	-125	5.92
10/10/2010	23:18	7.33	2.57	185	5.16	21.47	-168	5.91
10/11/2010	0:23	7.51	2.69	212	5.10	21.91	-167	5.91
10/11/2010	1:39	7.40	2.71	151	3.87	20.89	-159	5.91
10/11/2010	2:47	7.47	2.65	217	3.45	20.59	-154	5.89
10/11/2010	3:58	7.52	2.65	137	3.64	20.82	-175	5.9
10/11/2010	4:47	7.41	2.63	180	2.65	21.20	-174.00	5.91

**Site 079 Route 440 Vehicle
Injection Pilot Study
Temporary Well Point 3
10-9-2010 thru 10-11-2010**

Date	Time	pH	Conductivity	Turbidity	Dissolved		ORP	Depth to
					Oxygen	Temperature		Water
10/9/2010	11:58	6.31	2.70	>999	2.49	20.95	-9	5.98
10/10/2010	4:05	7.20	2.68	358	1.23	20.15	-128	5.98
10/10/2010	5:18	7.36	2.69	278	1.19	19.27	-115	5.94
10/10/2010	7:00	7.22	2.61	>999	2.95	17.20	-107	5.92
10/10/2010	7:50	7.24	2.66	454	0.83	18.62	-101	5.93
10/10/2010	8:42	7.36	2.69	>999	0.66	19.46	-108	5.93
10/10/2010	9:52	7.25	2.67	888	0.93	21.42	-109	5.91
10/10/2010	11:03	7.25	2.62	782	0.50	22.20	-112	5.90
10/10/2010	12:13	7.24	2.64	285	1.62	22.07	-110	5.91
10/10/2010	13:10	7.45	2.65	423	1.83	22.53	-111	5.93
10/10/2010	14:50	7.07	2.67	239	1.05	23.06	-99	5.91
10/10/2010	15:42	7.44	2.62	809	1.71	22.56	-116	5.89
10/10/2010	16:45	7.46	2.64	599	1.47	22.64	-125	5.91
10/10/2010	17:39	7.48	2.58	289	2.48	21.61	-100	5.91
10/10/2010	18:35	7.37	2.63	553	0.42	22.33	-117	5.86
10/10/2010	19:58	7.53	2.60	674	0.52	22.50	-123	5.87
10/10/2010	20:55	7.29	2.53	483	2.65	22.81	-104	5.87
10/10/2010	22:04	7.21	2.61	469	3.27	21.23	-114	5.84
10/10/2010	23:23	7.42	2.62	391	4.61	22.25	-138	5.83
10/11/2010	0:21	7.30	2.65	413	2.45	20.95	-127	5.83
10/11/2010	1:40	7.38	2.60	501	3.08	21.85	-113	5.83
10/11/2010	2:49	7.62	2.60	244	3.01	21.81	-151	5.83
10/11/2010	3:55	7.45	2.63	341	4.83	19.85	-140	5.83
10/11/2010	4:51	7.50	2.64	269	3.35	20.42	-137	5.83

**Site 079 Route 440 Vehicle
Injection Pilot Study
Southern Sanitary Sewer
10-9-2010 thru 10-11-2010**

Date	Time	pH	Conductivity	Turbidity	Dissolved		ORP
					Oxygen	Temperature	
10/10/2010	3:50	7.55	1.43	4.20	17.8	5.08	-10
10/10/2010	5:04	7.63	1.41	4.00	17.82	8.19	-21
10/10/2010	6:44	7.68	1.42	6.60	18.38	9.12	-48
10/10/2010	7:47	7.66	1.42	6.80	18.3	5.98	-53
10/10/2010	8:54	7.59	1.42	8.30	18.48	6.16	-46
10/10/2010	10:04	7.61	1.43	6.10	18.69	5.25	-43
10/10/2010	11:05	7.69	1.47	11.90	18.83	7.96	-48
10/10/2010	12:20	7.71	1.41	13.10	20.26	6.07	-54
10/10/2010	13:05	7.69	1.46	6.30	20.44	7.05	-72
10/10/2010	14:55	7.73	1.44	12.20	20.56	5.50	-41
10/10/2010	15:52	7.69	1.40	11.50	20.87	5.71	-74
10/10/2010	16:48	7.67	1.38	15.20	20.66	8.20	-81
10/10/2010	17:42	7.68	1.38	13.10	20.37	7.19	-79
10/10/2010	18:41	7.46	1.42	21.10	19.57	6.24	-71
10/10/2010	20:03	7.67	1.43	18.70	21.18	5.35	-67
10/10/2010	21:14	7.05	1.48	1.60	19.8	5.92	-35
10/10/2010	23:28	7.43	1.48	5.70	20.7	6.47	-60
10/11/2010	1:10	7.54	1.41	3.90	19.82	5.41	-66
10/11/2010	2:15	7.52	1.40	2.50	19.31	6.34	-78
10/11/2010	4:29	7.89	1.58	4.38	19.05	4.21	-151

079-MW-A02
10/09/2010 thru 10/11/2010
Site 079 Route 440 Vehicle Corp Injections

Date	Time	Depth To water	
10/9/2010	21:45	4.91	
10/10/2010	3:30	4.91	
10/10/2010	19:30	4.91	
10/10/2010	20:43	4.89	
10/10/2010	21:26	4.91	
10/10/2010	22:40	4.87	
10/10/2010	23:34	4.87	
10/11/2010	0:33	4.86	
10/11/2010	1:00	4.87	
10/11/2010	1:41	4.87	
10/11/2010	1:52	4.87	
10/11/2010	2:10	4.87	
10/11/2010	2:33	4.86	
10/11/2010	4:05	4.87	
10/11/2010	5:34	4.91	

Note: No manual readings from (9:45 on 10/9/2010 until 3:30 on 10/10/2010 due to monitoring well being under car

079-MW-001
10/9/2010-10/11/2010
Site 079 Route 440 Vehicle Corp Injections

Date	Time	Depth to Water
10/9/2010	23:13	5.31
10/10/2010	2:57	5.31
10/10/2010	3:17	5.25
10/10/2010	3:34	5.19
10/10/2010	4:24	5.14
10/10/2010	4:46	5.08
10/10/2010	4:59	5.07
10/10/2010	5:38	4.96
10/10/2010	6:10	4.93
10/10/2010	7:08	4.95
10/10/2010	7:55	4.95
10/10/2010	8:30	4.95
10/10/2010	8:57	4.70
10/10/2010	9:50	4.71
10/10/2010	10:50	4.65
10/10/2010	11:30	4.64
10/10/2010	11:49	4.62
10/10/2010	12:45	4.68
10/10/2010	14:20	4.65
10/10/2010	15:09	4.62
10/10/2010	15:52	4.40
10/10/2010	16:17	4.30
10/10/2010	16:50	4.02
10/10/2010	17:20	4.05
10/10/2010	17:50	4.22
10/10/2010	18:23	4.30
10/10/2010	18:40	4.30
10/10/2010	19:34	4.31
10/10/2010	20:20	4.07

10/10/2010	20:42	3.98
10/10/2010	21:20	4.03
10/10/2010	21:55	4.02
10/10/2010	22:36	3.99
10/10/2010	23:11	4.03
10/11/2010	0:16	4.22
10/11/2010	1:00	3.92
10/11/2010	1:31	3.79
10/11/2010	1:54	3.67
10/11/2010	2:22	3.67
10/11/2010	2:53	3.87
10/11/2010	4:38	3.57
10/11/2010	5:18	3.47
10/11/2010	5:32	3.57

**Site 079 Route 440 Vehicle
Injection Pilot Study
Southern Manhole
10-16-2010 thru 10-17-2010**

Date	Time	pH	Conductivity	Turbidity	Dissolved		ORP
					Oxygen	Temperature	
10/16/2010	23:50	8.05	1.25	14.6	6.72	16.95	-31
10/17/2010	1:55	8.44	1.29	15.7	6.47	18.31	-43
10/17/2010	3:35	8.62	1.30	82.1	5.04	17.69	-163
10/17/2010	4:38	9.12	1.36	437	8.67	18.23	-215
10/17/2010	7:20	9.02	1.37	408	3.11	16.82	-213
10/17/2010	8:30	9.07	1.32	403	9.03	17.20	-215
10/17/2010	9:32	9.33	1.48	753	0	18.95	-288
10/17/2010	10:32	9.08	1.34	360	6.90	19.27	-233
10/17/2010	11:31	9.44	1.48	>999	9.10	19.62	-305
10/17/2010	12:38	9.40	1.46	7.00	0.71	20.57	-265
10/17/2010	13:25	9.02	1.22	417	3.29	21.51	-182
10/17/2010	14:16	9.33	1.28	728	2.25	20.56	-250
10/17/2010	14:51	9.58	1.55	>999	0	20.66	-374
10/17/2010	16:05	9.38	1.44	841	1.15	21.38	-283

Date m/d/y	Time hh:mm:ss	Temp C	SpCond mS/cm	Cond mS/cm	DOsat %	DO mg/L	DOchrg	pH	pH mV	Orp mV	Battery volts
10/16/2000	23:00:00	20.4	2.242	2.045	8.4	0.76	49.8	8.24	-58.2	-163.2	6.3
10/16/2000	23:10:40	20.52	2.238	2.047	3.5	0.31	48.6	8.41	-66.7	-168	6.3
10/16/2000	23:20:40	20.56	2.245	2.054	2.5	0.23	48.6	8.46	-69	-185.1	6.4
10/16/2000	23:30:40	20.6	2.255	2.065	3.1	0.28	48.6	8.46	-68.9	-193.8	6.4
10/16/2000	23:40:40	20.64	2.259	2.07	2.2	0.2	48.6	8.41	-66.8	-184.7	6.4
10/16/2000	23:50:40	20.67	2.258	2.071	2.1	0.18	49.8	8.31	-61.7	-159.8	6.3
10/17/2000	0:00:40	20.7	2.259	2.073	1.8	0.16	51	8.31	-61.4	-150.8	6.3
10/17/2000	0:10:40	20.72	2.253	2.069	1.9	0.17	52.7	8.31	-61.5	-146.6	6.3
10/17/2000	0:20:40	20.74	2.245	2.063	2.3	0.2	55.1	8.33	-62.8	-148.6	6.3
10/17/2000	0:30:40	20.76	2.24	2.058	2.6	0.23	56.8	8.33	-62.6	-143.5	6.3
10/17/2000	0:40:40	20.77	2.236	2.055	3.1	0.28	60.4	8.33	-62.5	-132.2	6.3
10/17/2000	0:50:40	20.79	2.233	2.053	3.6	0.32	60.9	8.33	-62.4	-121.8	6.4
10/17/2000	1:00:40	20.8	2.233	2.053	3.6	0.32	60.9	8.32	-62.1	-114.4	6.3
10/17/2000	1:10:40	20.81	2.233	2.054	3.5	0.31	60.9	8.34	-63.1	-119.4	6.3
10/17/2000	1:20:40	20.82	2.233	2.055	3.5	0.31	60.9	8.36	-64.1	-129.5	6.3
10/17/2000	1:30:40	20.83	2.233	2.055	3.5	0.31	60.9	8.36	-64.3	-127.9	6.3
10/17/2000	1:40:40	20.84	2.233	2.056	3.4	0.3	60.4	8.37	-64.6	-135.1	6.3
10/17/2000	1:50:40	20.85	2.233	2.056	3.2	0.28	59.2	8.38	-64.9	-144.7	6.3
10/17/2000	2:00:40	20.86	2.233	2.056	3	0.27	58	8.37	-64.4	-143.5	6.3
10/17/2000	2:10:40	20.87	2.233	2.056	2.8	0.25	56.8	8.36	-63.9	-139.9	6.3
10/17/2000	2:20:00	20.87	2.232	2.056	1.5	0.13	51	8.27	-59.4	-131	6.3
10/17/2000	2:30:40	20.88	2.231	2.055	2.1	0.19	52.7	8.34	-63.1	-132.8	6.3
10/17/2000	2:40:40	20.88	2.23	2.055	2.1	0.18	52.7	8.39	-65.5	-149.8	6.3
10/17/2000	2:50:40	20.88	2.23	2.055	2.1	0.18	52.7	8.39	-65.5	-158.5	6.3
10/17/2000	3:00:40	20.89	2.23	2.055	2	0.18	52.7	8.37	-64.8	-154.5	6.3
10/17/2000	3:10:40	20.89	2.229	2.054	2	0.18	52.7	8.36	-64	-146.2	6.3
10/17/2000	3:20:40	20.89	2.229	2.054	2.3	0.2	55.1	8.37	-64.6	-147.9	6.3
10/17/2000	3:30:40	20.89	2.23	2.055	2.1	0.19	53.9	8.38	-65.1	-154.7	6.3
10/17/2000	3:40:40	20.89	2.23	2.055	2.3	0.21	55.1	8.37	-64.8	-154	6.3
10/17/2000	3:50:40	20.89	2.23	2.055	2.1	0.18	53.9	8.36	-64	-147	6.3
10/17/2000	4:00:40	20.89	2.23	2.055	2.3	0.21	55.1	8.36	-64	-146	6.3
10/17/2000	4:10:40	20.9	2.23	2.055	2.4	0.22	55.1	8.35	-63.8	-141.3	6.3
10/17/2000	4:20:40	20.9	2.23	2.055	2.1	0.19	53.9	8.34	-63.1	-134.1	6.3

10/17/2000	4:30:40	20.9	2.23	2.056	2.5	0.22	53.9	8.34	-63	-129.1	6.3
10/17/2000	4:40:40	20.9	2.231	2.056	2.2	0.19	52.7	8.34	-62.9	-127.3	6.3
10/17/2000	4:50:40	20.9	2.231	2.056	2	0.18	52.1	8.35	-63.8	-134.6	6.3
10/17/2000	5:00:40	20.9	2.231	2.056	1.9	0.17	51	8.36	-64	-140.1	6.3
10/17/2000	5:10:40	20.9	2.232	2.057	1.9	0.17	51	8.36	-64.3	-144	6.3
10/17/2000	5:20:40	20.9	2.232	2.057	2.2	0.2	52.1	8.37	-64.4	-144.8	6.3
10/17/2000	5:30:40	20.9	2.232	2.057	2.3	0.21	52.1	8.37	-64.8	-146.4	6.3
10/17/2000	5:40:40	20.9	2.232	2.058	2.1	0.18	51	8.37	-64.8	-147	6.3
10/17/2000	5:50:40	20.9	2.233	2.058	2.3	0.2	52.1	8.37	-64.8	-145.9	6.3
10/17/2000	6:00:40	20.9	2.234	2.059	2.5	0.22	52.1	8.35	-63.4	-137.9	6.3
10/17/2000	6:10:40	20.91	2.234	2.059	2.6	0.23	51	8.34	-63.2	-126.1	6.3
10/17/2000	6:20:40	20.89	2.235	2.059	2.1	0.19	51	8.4	-66.2	-165.4	6.3
10/17/2000	6:30:40	20.89	2.235	2.059	1.9	0.16	51	8.38	-65	-159.3	6.3
10/17/2000	6:40:40	20.89	2.235	2.059	1.8	0.16	51	8.39	-65.9	-162.7	6.3
10/17/2000	6:50:40	20.89	2.234	2.059	1.8	0.16	49.8	8.39	-65.8	-158.4	6.3
10/17/2000	7:00:40	20.89	2.235	2.059	2.1	0.19	51	8.35	-63.8	-143.2	6.3
10/17/2000	7:10:40	20.89	2.235	2.059	2	0.18	49.8	8.35	-63.5	-135.8	6.3
10/17/2000	7:20:40	20.89	2.235	2.059	2	0.18	49.8	8.36	-63.9	-136	6.3
10/17/2000	7:30:40	20.89	2.234	2.058	2	0.18	49.8	8.35	-63.7	-135.3	6.3
10/17/2000	7:40:40	20.9	2.232	2.057	2.2	0.19	49.8	8.34	-63.1	-137.7	6.3
10/17/2000	7:50:40	20.89	2.231	2.056	2.2	0.2	49.8	8.4	-65.9	-151.2	6.3
10/17/2000	8:00:40	20.89	2.23	2.055	2.2	0.19	51	8.41	-66.7	-161.3	6.3
10/17/2000	8:10:40	20.9	2.229	2.054	1.9	0.17	49.8	8.41	-66.6	-165.8	6.3
10/17/2000	8:20:40	20.9	2.228	2.053	1.8	0.16	49.8	8.41	-66.4	-168.9	6.3
10/17/2000	8:30:40	20.89	2.228	2.053	1.7	0.15	48.6	8.42	-67.1	-174.9	6.3
10/17/2000	8:40:00	20.89	2.228	2.053	1.5	0.14	48.6	8.38	-65.1	-175.3	6.3
10/17/2000	8:50:40	20.89	2.228	2.053	1.9	0.17	48.6	8.41	-66.5	-181	6.3
10/17/2000	9:00:40	20.89	2.228	2.053	2	0.18	49.8	8.4	-66	-180.5	6.3
10/17/2000	9:10:40	20.88	2.228	2.053	2.2	0.19	51	8.39	-65.6	-178.8	6.3
10/17/2000	9:20:40	20.88	2.228	2.053	2	0.18	48.6	8.39	-65.6	-179.4	6.3
10/17/2000	9:30:40	20.88	2.228	2.053	1.9	0.17	49.8	8.39	-65.9	-182.2	6.3
10/17/2000	9:40:40	20.88	2.228	2.053	2.1	0.19	49.8	8.4	-66	-183.2	12.3
10/17/2000	9:50:40	20.88	2.229	2.053	1.9	0.17	48	8.39	-65.6	-182.9	6.3
10/17/2000	10:00:40	20.88	2.23	2.054	1.7	0.15	48	8.39	-65.7	-182.9	6.3
10/17/2000	10:10:40	20.88	2.231	2.055	1.8	0.16	48	8.39	-65.6	-181.2	6.3
10/17/2000	10:20:40	20.87	2.232	2.056	1.5	0.14	48.6	8.38	-64.9	-176.1	6.3
10/17/2000	10:30:40	20.87	2.233	2.057	1.4	0.13	48.6	8.38	-65.1	-175	6.3

10/17/2000	10:40:40	20.87	2.234	2.057	1.4	0.13	46.9	8.36	-64.3	-174.3	6.3
10/17/2000	10:50:40	20.87	2.235	2.059	1.4	0.12	48	8.39	-65.4	-176.3	6.2
10/17/2000	11:00:40	20.87	2.236	2.06	1.4	0.13	48	8.4	-66.3	-182.4	6.3
10/17/2000	11:10:40	20.87	2.238	2.062	1.4	0.13	48.6	8.42	-67.1	-188.9	6.3
10/17/2000	11:20:40	20.87	2.24	2.063	1.4	0.13	48.6	8.43	-67.4	-190.7	6.3
10/17/2000	11:30:40	20.87	2.241	2.064	1.5	0.13	48.6	8.43	-67.6	-190.1	6.3
10/17/2000	11:40:40	20.87	2.243	2.066	1.1	0.1	45.7	8.4	-66.3	-189.6	6.2
10/17/2000	11:50:40	20.86	2.244	2.067	1.3	0.12	48	8.44	-68	-193	6.3
10/17/2000	12:00:40	20.86	2.246	2.068	1.7	0.15	48	8.45	-68.8	-194.8	6.2
10/17/2000	12:10:40	20.86	2.247	2.07	1.6	0.14	48.6	8.46	-69.2	-194.7	6.3
10/17/2000	12:20:40	20.86	2.248	2.071	1.8	0.16	48.6	8.46	-69.2	-194.5	6.2
10/17/2000	12:30:40	20.86	2.249	2.072	2	0.17	49.8	8.46	-69	-192.2	6.2
10/17/2000	12:40:40	20.86	2.25	2.072	1.7	0.15	48.6	8.45	-68.5	-190.3	6.2
10/17/2000	12:50:40	20.86	2.251	2.073	1.6	0.14	46.9	8.42	-67.3	-186.8	6.3
10/17/2000	13:00:40	20.86	2.251	2.073	1.8	0.16	48	8.43	-67.7	-185.2	6.2
10/17/2000	13:10:40	20.86	2.252	2.074	1.6	0.14	48.6	8.43	-67.7	-185.1	6.2
10/17/2000	13:20:40	20.86	2.253	2.075	1.5	0.14	48.6	8.43	-67.7	-185.1	6.2
10/17/2000	13:30:40	20.86	2.255	2.076	1.8	0.16	48.6	8.43	-67.6	-184.2	6.2
10/17/2000	13:40:40	20.86	2.256	2.077	1.6	0.14	48.6	8.42	-67.1	-181.2	6.2
10/17/2000	13:50:40	20.86	2.257	2.078	1.8	0.16	49.8	8.42	-67	-179.7	6.2
10/17/2000	14:00:40	20.86	2.257	2.078	1.7	0.15	49.8	8.42	-67	-179.2	6.2
10/17/2000	14:10:40	20.85	2.258	2.079	1.7	0.15	48.6	8.39	-65.7	-177.9	6.2
10/17/2000	14:20:40	20.85	2.259	2.08	1.8	0.16	49.8	8.42	-66.9	-178	6.2
10/17/2000	14:30:40	20.85	2.259	2.08	1.6	0.14	46.9	8.4	-65.9	-175.5	6.2
10/17/2000	14:40:40	20.85	2.26	2.08	1.6	0.14	48	8.4	-65.9	-171.3	6.2
10/17/2000	14:50:40	20.85	2.26	2.081	1.6	0.15	48	8.39	-65.4	-165.9	6.2
10/17/2000	15:00:40	20.84	2.261	2.082	1.9	0.17	48.6	8.39	-65.7	-166.1	6.2
10/17/2000	15:10:40	20.84	2.262	2.082	1.6	0.14	48.6	8.39	-65.8	-167.1	6.2
10/17/2000	15:20:40	20.84	2.263	2.083	1.9	0.17	48.6	8.4	-65.9	-167.4	6.2
10/17/2000	15:30:40	20.83	2.264	2.084	2	0.18	49.8	8.4	-66.3	-169.1	6.2
10/17/2000	15:40:40	20.83	2.265	2.084	1.7	0.15	48.6	8.41	-66.5	-172	6.2
10/17/2000	15:50:40	20.82	2.264	2.083	2	0.18	49.8	8.39	-65.8	-168.3	6.2
10/17/2000	16:00:40	20.81	2.257	2.076	2	0.18	49.8	8.37	-64.6	-158.7	6.2
10/17/2000	16:10:40	20.8	2.255	2.074	1.8	0.16	49.8	8.39	-65.4	-163.8	6.2
10/17/2000	16:20:40	20.8	2.255	2.074	1.4	0.12	46.9	8.36	-64	-165	6.2
10/17/2000	16:30:40	20.79	2.256	2.075	1.5	0.14	46.9	8.39	-65.7	-169.7	6.2
10/17/2000	16:40:40	20.78	2.255	2.073	1.9	0.17	48.6	8.42	-66.9	-180.8	6.2

10/17/2000	16:50:40	20.77	2.253	2.071	2	0.18	48.6	8.42	-66.9	-182.3	6.2
10/17/2000	17:00:40	20.76	2.251	2.068	1.7	0.16	48.6	8.41	-66.8	-185.5	6.2
10/17/2000	17:10:40	20.75	2.249	2.066	2.1	0.18	48.6	8.43	-67.3	-188.7	6.2
10/17/2000	17:20:40	20.74	2.249	2.066	2.1	0.19	48.6	8.43	-67.7	-191.2	6.2
10/17/2000	17:30:40	20.74	2.249	2.066	1.8	0.16	48.6	8.42	-67.1	-189	6.2
10/17/2000	17:40:40	20.73	2.25	2.066	2.1	0.18	48.6	8.42	-67.1	-186.9	6.2
10/17/2000	17:50:40	20.73	2.25	2.067	1.8	0.16	48.6	8.42	-67.3	-187.9	6.2
10/17/2000	18:00:40	20.72	2.253	2.069	1.9	0.17	49.8	8.42	-67.3	-188.5	6.2
10/17/2000	18:10:40	20.72	2.255	2.07	2	0.18	49.8	8.46	-69.2	-200.9	6.2
10/17/2000	18:20:40	14.52	0.021	0.017	92.6	9.44	55.1	8.16	-52.6	-86.4	6.2
10/17/2000	18:30:40	14.85	0.017	0.013	92.7	9.37	52.7	8.52	-70.4	-79.3	6.2
10/17/2000	18:40:40	15.98	0.015	0.013	93.1	9.2	52.1	8.83	-86.2	-68.8	6.2
10/17/2000	18:50:40	16.26	0.013	0.011	93.9	9.22	52.1	8.83	-86.1	-54.6	6.2
10/17/2000	19:00:40	16.74	0.012	0.01	94.4	9.17	51	8.9	-89.8	-49	6.2
10/17/2000	19:10:40	16.94	0.011	0.009	94.9	9.19	49.8	8.96	-93.1	-45.6	6.2
10/17/2000	19:20:40	17.03	0.01	0.009	95.6	9.24	49.8	9.06	-97.7	-44.6	6.2
10/17/2000	19:30:40	17.1	0.01	0.009	96	9.26	49.8	9.13	-101.5	-43.5	6.2
10/17/2000	19:40:40	17.12	0.01	0.008	96.5	9.3	49.8	9.13	-101.4	-42.2	6.2
10/17/2000	19:50:40	17.07	0.01	0.008	97	9.36	51	9.11	-100.4	-42.1	6.2
10/17/2000	20:00:40	16.94	0.009	0.008	97.3	9.41	52.1	9.18	-103.7	-36.1	6.1
10/17/2000	20:10:40	16.85	0.009	0.007	97.6	9.46	52.1	9.2	-104.9	-33.1	6.2
10/17/2000	20:20:40	16.55	0.008	0.007	98	9.56	52.7	9.16	-102.5	-28.9	6.1
10/17/2000	20:30:40	16.2	0.008	0.007	98.4	9.67	53.9	9.08	-98.5	-26.7	6.1
10/17/2000	20:40:40	15.79	0.008	0.007	98.8	9.8	53.9	8.91	-90.3	-26.2	6.1
10/17/2000	20:50:40	15.67	0.008	0.007	98.9	9.84	55.1	8.87	-87.8	-26.2	6.2
10/17/2000	21:00:40	15.56	0.008	0.006	99.1	9.87	56.3	8.85	-87	-25.9	6.2
10/17/2000	21:10:40	15.37	0.008	0.006	99.3	9.94	56.8	8.83	-85.9	-25.9	6.2
10/17/2000	21:20:40	15.23	0.007	0.006	99.4	9.98	56.8	8.81	-85	-25.3	6.1
10/17/2000	21:30:40	15.25	0.007	0.006	99.4	9.97	56.8	8.81	-84.8	-25	6.1
10/17/2000	21:40:40	15.62	0.007	0.006	99	9.85	58	8.81	-85	-24.8	6.1
10/17/2000	21:50:40	15.47	0.007	0.006	99.1	9.9	58	8.78	-83.6	-24.4	6.1
10/17/2000	22:00:40	15.33	0.007	0.006	99.1	9.93	59.2	8.76	-82.6	-23.4	6.2
10/17/2000	22:10:40	15.16	0.007	0.006	99.2	9.97	59.2	8.74	-81.7	-22.8	6.2
10/17/2000	22:20:40	15.02	0.007	0.006	99.1	9.99	59.2	8.73	-80.9	-22.2	6.1
10/17/2000	22:30:40	14.85	0.007	0.006	99	10.02	59.2	8.72	-80.7	-22.1	6.1
10/17/2000	22:40:40	14.66	0.007	0.006	99	10.06	60.4	8.66	-77.6	-21.4	6.1
10/17/2000	22:50:40	14.41	0.007	0.006	98.9	10.11	60.4	8.59	-73.7	-20.6	6.1

10/17/2000	23:00:40	14.17	0.007	0.006	99	10.16	60.4	8.5	-69.3	-19.5	6.1
10/17/2000	23:10:40	13.99	0.007	0.006	98.8	10.19	60.4	8.42	-65.5	-18.6	6.1
10/17/2000	23:20:40	13.82	0.007	0.006	98.8	10.22	60.4	8.26	-57.8	-17.5	6.1
10/17/2000	23:30:40	13.63	0.007	0.005	98.8	10.27	60.4	7.99	-44.4	-17.3	6.1
10/17/2000	23:40:40	13.43	0.007	0.005	98.6	10.29	60.4	7.97	-43.4	-18.6	6.1
10/17/2000	23:50:40	13.3	0.007	0.005	98.6	10.32	60.4	7.96	-42.6	-18.7	6.1
10/18/2000	0:00:40	13.2	0.007	0.005	98.5	10.34	60.9	7.93	-41.4	-18.9	6.1
10/18/2000	0:10:40	13.13	0.007	0.005	98.5	10.35	60.4	7.93	-41	-18.7	6.1
10/18/2000	0:20:40	13	0.007	0.005	98.5	10.38	60.4	7.87	-38	-19.2	6.1
10/18/2000	0:30:40	12.81	0.007	0.005	98.5	10.42	60.9	7.87	-38.1	-18.9	6.1
10/18/2000	0:40:40	12.62	0.006	0.005	98.4	10.45	60.9	7.86	-37.6	-18.7	6.1
10/18/2000	0:50:40	12.39	0.006	0.005	98.3	10.5	60.9	7.85	-37.2	-18.8	6.1
10/18/2000	1:00:40	12.18	0.005	0.004	98.2	10.54	60.4	7.85	-37.2	-18.2	6.1
10/18/2000	1:10:40	12.05	0.005	0.004	98.1	10.56	60.9	7.89	-39	-17.7	6.1
10/18/2000	1:20:40	11.95	0.005	0.004	98.1	10.58	60.4	7.88	-38.6	-17.4	6.1
10/18/2000	1:30:40	11.84	0.005	0.004	98	10.6	60.9	7.88	-38.4	-17.3	6.1
10/18/2000	1:40:40	11.71	0.005	0.004	98	10.63	60.9	7.9	-39.4	-17.5	6.1
10/18/2000	1:50:40	11.56	0.005	0.004	98	10.67	60.9	7.9	-39.4	-17.3	6.1
10/18/2000	2:00:40	11.4	0.005	0.004	98	10.71	60.9	7.89	-39.2	-17.3	6.1
10/18/2000	2:10:40	11.27	0.005	0.003	98	10.74	60.9	7.9	-39.3	-16.7	6.1
10/18/2000	2:20:40	11.14	0.004	0.003	97.9	10.76	60.9	7.88	-38.6	-16.5	6.1
10/18/2000	2:30:40	11.1	0.003	0.002	97.9	10.77	60.9	7.89	-39.1	-16.3	6.1
10/18/2000	2:40:40	11.13	0.002	0.002	97.9	10.76	60.4	7.89	-38.8	-16.1	6.1
10/18/2000	2:50:40	11.19	0.002	0.001	97.9	10.75	60.9	7.89	-39	-15.7	6.1
10/18/2000	3:00:40	11.3	0.001	0.001	97.8	10.71	60.9	7.87	-38	-15.6	6.1
10/18/2000	3:10:40	11.35	0.001	0.001	97.7	10.69	60.9	7.82	-35.8	-15.8	6.1
10/18/2000	3:20:40	11.35	0.001	0	97.7	10.69	60.9	7.81	-35	-15.7	6.1
10/18/2000	3:30:40	11.32	0	0	97.7	10.69	60.9	7.81	-34.9	-15.8	6.1
10/18/2000	3:40:40	11.27	0	0	97.7	10.7	60.9	7.8	-34.6	-15.5	6.1
10/18/2000	3:50:40	11.16	0	0	97.7	10.73	60.9	7.8	-34.8	-15.5	6.1
10/18/2000	4:00:40	11.04	0	0	97.6	10.75	60.9	7.77	-33	-15.3	6.1
10/18/2000	4:10:40	10.88	0	0	97.5	10.79	60.9	7.8	-34.4	-15.5	6.1
10/18/2000	4:20:40	10.65	0	0	97.5	10.84	60.9	7.8	-34.4	-16.4	6.1
10/18/2000	4:30:40	10.43	0	0	97.4	10.89	60.9	7.82	-35.3	-16.5	6.1
10/18/2000	4:40:40	10.25	0	0	97.4	10.93	60.9	7.8	-34.6	-16.1	6.1
10/18/2000	4:50:40	10.21	0	0	97.4	10.94	60.9	7.8	-34.3	-16	6.1
10/18/2000	5:00:40	10.2	0	0	97.5	10.95	60.4	7.86	-37.3	-17.2	6.1

10/18/2000	5:10:40	10.2	0	0	97.4	10.94	60.9	7.89	-38.9	-18.1	6.1
10/18/2000	5:20:40	10.21	0	0	97.4	10.94	60.9	7.87	-38	-17.9	6.1
10/18/2000	5:30:40	10.19	0	0	97.4	10.94	60.9	7.87	-37.7	-17.9	6.1
10/18/2000	5:40:40	10.18	0	0	97.4	10.95	60.9	7.89	-38.6	-17.8	6.1
10/18/2000	5:50:40	10.14	0	0	97.4	10.96	60.9	7.87	-38	-17.8	6.1
10/18/2000	6:00:40	10.09	0	0	97.4	10.97	60.4	7.85	-36.7	-18.1	6.1
10/18/2000	6:10:40	10.04	0	0	97.4	10.98	60.9	7.88	-38.3	-18.1	6.1
10/18/2000	6:20:40	10	0	0	97.4	10.99	60.9	7.89	-38.6	-17.9	6.1
10/18/2000	6:30:40	9.97	0	0	97.4	11	60.9	7.88	-38.1	-18.1	6.1
10/18/2000	6:40:40	9.93	0	0	97.4	11.02	60.4	7.89	-38.8	-17.6	6.1
10/18/2000	6:50:40	9.9	0	0	97.5	11.03	60.9	7.88	-38.5	-17.3	6.1
10/18/2000	7:00:40	9.88	0	0	97.5	11.04	60.9	7.88	-38.1	-17.4	6.1
10/18/2000	7:10:40	9.85	0	0	97.4	11.04	60.9	7.88	-38	-16.9	6.1
10/18/2000	7:20:40	9.83	0	0	97.5	11.05	60.9	7.85	-36.6	-17.2	6.1
10/18/2000	7:30:40	9.83	0	0	97.5	11.05	60.9	7.86	-37.3	-17.2	6.1
10/18/2000	7:40:40	9.84	0	0	97.4	11.04	60.9	7.89	-39	-16.8	6.1
10/18/2000	7:50:40	9.86	0	0	97.3	11.03	60.9	7.88	-38.5	-16.7	6.1
10/18/2000	8:00:40	9.9	0	0	97.3	11.01	60.9	7.86	-37.5	-17	6.1
10/18/2000	8:10:40	9.94	0	0	97.3	10.99	60.9	7.89	-39	-16.9	6.1
10/18/2000	8:20:40	10.35	0	0	97.3	10.89	60.9	7.98	-43.1	-15.6	6.1
10/18/2000	8:30:40	10.29	0	0	97.3	10.91	60.9	8.08	-48.2	-16.5	6.1
10/18/2000	8:40:40	10.3	0	0	97.3	10.91	60.9	8.12	-49.8	-16.1	6.1
10/18/2000	8:50:40	10.38	0	0	97.3	10.89	60.9	8.17	-52.2	-16	6.1
10/18/2000	9:00:40	10.86	0	0	97.2	10.75	60.9	8.01	-44.9	-15.7	6.1
10/18/2000	9:10:40	11.26	0	0	97.3	10.66	62.1	7.97	-43.1	-15.1	6.1
10/18/2000	9:20:40	11.53	0	0	97.2	10.59	60.9	7.91	-40	-15.7	6.1
10/18/2000	9:30:40	11.7	0	0	97.1	10.53	62.1	7.9	-39.6	-15.4	6.1
10/18/2000	9:40:40	11.77	0	0	97.1	10.52	60.9	7.91	-40	-15.5	6.1
10/18/2000	9:50:40	11.81	0	0	97.2	10.52	62.1	7.99	-44.2	-15	6.1

APPENDIX E
INJECTION LOG

**Table 1. Treatment Program
Injection Volume/Flow Rate Summary
MACTEC/ Honeywell Facility
540 Route 440
Jersey City, New Jersey
ISOTEC Project #801548**

Injection Point ID	Injection Date	Injection Depth (feet BGS)	Injection Start Time	Injection Stop Time	CAPS Injection Concentration	CAPS Injection Time (mins)	CAPS Injection Volume (gallons)	Stock Solution Volume (~29% CAPS) (gallons)	CAPS Injection Flow Rate (gals/min)	IP Pressure Range (psi)	Notes
IP-1	17-Oct-10	3.0-8.5	1:09 AM	2:12 AM	9.5-10.0%	63	135	45	2.14	0-2	No problems noted while injecting.
IP-1	17-Oct-10	3.0-8.5	2:12 AM	3:12 AM	9.5-10.0%	60	121	40	2.02	0-2	
IP-1	17-Oct-10	3.0-8.5	3:12 AM	4:03 AM	9.5-10.0%	51	126	42	2.47	0-2	
IP-1	17-Oct-10	3.0-8.5	4:03 AM	5:13 AM	9.5-10.0%	70	147	49	2.10	0-2	
IP-1	17-Oct-10	3.0-8.5	5:13 AM	6:27 AM	9.5-10.0%	74	137	46	1.85	0-2	
IP-1	17-Oct-10	3.0-8.5	6:27 AM	6:55 AM	9.5-10.0%	28	64	21	2.29	0-2	
							730.0	243.3			
IP-2	17-Oct-10	3.0-8.5	1:09 AM	2:12 AM	9.5-10.0%	63	116	39	1.84	0-2	No problems noted while injecting.
IP-2	17-Oct-10	3.0-8.5	2:12 AM	3:12 AM	9.5-10.0%	60	122	41	2.03	0-2	
IP-2	17-Oct-10	3.0-8.5	3:12 AM	4:03 AM	9.5-10.0%	51	130	43	2.55	0-2	
IP-2	17-Oct-10	3.0-8.5	4:13 AM	5:13 AM	9.5-10.0%	60	129	43	2.15	0-2	
IP-2	17-Oct-10	3.0-8.5	5:13 AM	6:27 AM	9.5-10.0%	74	123	41	1.66	0-2	
IP-2	17-Oct-10	3.0-8.5	6:27 AM	7:18 AM	9.5-10.0%	51	110	37	2.16	0-2	
							730.0	243.3			
IP-3	17-Oct-10	3.0-8.5									This IP location was attempted 5 separate times with refusal occurring on every attempt.
IP-4	17-Oct-10	3.0-9.5	4:26 AM	5:13 AM	9.5-10.0%	47	69	23	1.47	0-2	No problems noted while injecting.
IP-4	17-Oct-10	3.0-9.5	5:13 AM	6:27 AM	9.5-10.0%	74	113	38	1.53	0-2	
IP-4	17-Oct-10	3.0-9.5	6:27 AM	7:27 AM	9.5-10.0%	60	123	41	2.05	0-2	
IP-4	17-Oct-10	3.0-9.5	7:35 AM	8:29 AM	9.5-10.0%	54	166	55	3.07	0-2	
IP-4	17-Oct-10	3.0-9.5	8:32 AM	9:24 AM	9.5-10.0%	52	143	48	2.75	0-2	
IP-4	17-Oct-10	3.0-9.5	9:24 AM	10:19 AM	9.5-10.0%	55	116	39	2.11	0-2	
							730.0	243.3			
IP-5			This IP Location was eliminated by MACTEC due to vicinity to power line								
IP-6	11-Oct-10	3.0-8.5	2:28 AM	3:08 AM	14-14.5%	40	145	73	3.63	0-2	No problems noted while injecting.
IP-6	11-Oct-10	3.0-8.5	3:40 AM	6:00 AM	14-14.5%	140	345	173	2.46	0-2	
							490.0	245.0			
IP-7	17-Oct-10	3.0-8.5	7:11 AM	7:27 AM	9.5-10.0%	16	22	7	1.38	0-2	Flow rates >1 gal/min caused the
IP-7	17-Oct-10	3.0-8.5	7:35 AM	8:29 AM	9.5-10.0%	54	23	8	0.43	0-2	IP to daylight from the annulus.
IP-7	17-Oct-10	3.0-8.5	8:32 AM	9:24 AM	9.5-10.0%	52	43	14	0.83	0-2	Flow rates <0.5-1 gal/min did not cause
IP-7	17-Oct-10	3.0-8.5	9:24 AM	10:34 AM	9.5-10.0%	70	43	14	0.61	0-2	daylighting
IP-7	17-Oct-10	3.0-8.5	10:44 AM	12:01 PM	9.5-10.0%	77	53	18	0.69	0-2	
IP-7	17-Oct-10	3.0-8.5	12:18 PM	1:15 PM	14-14.5%	57	43	22	0.75	0-2	
IP-7	17-Oct-10	3.0-8.5	1:21 PM	2:25 PM	14-14.5%	64	38	19	0.59	0-2	
IP-7	17-Oct-10	3.0-8.5	2:25 PM	3:55 PM	14-14.5%	90	50	25	0.56	0-2	
IP-7	17-Oct-10	3.0-8.5	3:57 PM	4:14 PM	14-14.5%	17	4	2	0.24	0-2	
IP-7	17-Oct-10	3.0-8.5	4:14 PM	5:05 PM	14-14.5%	51	41	21	0.80	0-2	
							360.0	149.3			
IP-7A	17-Oct-10	3.0-8.5	4:14 PM	5:05 PM	14-14.5%	51	36	18	0.71	0-8	No problems noted while injecting. IP installed within 6 feet of IP-7
							36.0	18.0			
IP-8	17-Oct-10	3.0-9.0	1:09 AM	2:12 AM	9.5-10.0%	63	91	30	1.44	0-2	
IP-8	17-Oct-10	3.0-9.0	2:12 AM	3:12 AM	9.5-10.0%	60	127	42	2.12	0-2	Injections terminated when CAPS was
IP-8	17-Oct-10	3.0-9.0	3:12 AM	3:48 AM	9.5-10.0%	36	97	32	2.69	0-2	observed seeping into nearby catch basin.
							315.0	105.0			
IP-9	17-Oct-10	3.0-9.5	12:15 PM	12:20 PM	14-14.5%	5	8	4	1.60	0-2	
IP-9	17-Oct-10	3.0-9.5	1:14 PM	1:15 PM	14-14.5%	1	1	1	1.00	0-2	
IP-9	17-Oct-10	3.0-9.5	1:21 PM	2:25 PM	14-14.5%	64	81	41	1.27	0-2	Injections were terminated when
IP-9	17-Oct-10	3.0-9.5	2:25 PM	3:29 PM	14-14.5%	64	115	58	1.80	0-2	CAPS was observed in PZTW7.
							205.0	102.5			
IP-10			Piezometer location.								
IP-11	17-Oct-10	3.0-8.5	1:09 AM	2:12 AM	9.5-10.0%	63	111	37	1.76	0-2	
IP-11	17-Oct-10	3.0-8.5	2:12 AM	3:12 AM	9.5-10.0%	60	124	41	2.07	0-2	
IP-11	17-Oct-10	3.0-8.5	3:12 AM	4:03 AM	9.5-10.0%	51	124	41	2.43	0-2	Injections were terminated when CAPS
IP-11	17-Oct-10	3.0-8.5	4:03 AM	4:44 AM	9.5-10.0%	41	70	23	1.71	0-2	was observed seeping into nearby manhole.
							429.0	143.0			

**Table 1. Treatment Program
Injection Volume/Flow Rate Summary
MACTEC/ Honeywell Facility
540 Route 440
Jersey City, New Jersey
ISOTEC Project #801548**

Injection Point ID	Injection Date	Injection Depth (feet BGS)	Injection Start Time	Injection Stop Time	CAPS Injection Concentration	CAPS Injection Time (mins)	CAPS Injection Volume (gallons)	Stock Solution Volume (~29% CAPS) (gallons)	CAPS Injection Flow Rate (gals/min)	IP Pressure Range (psi)	Notes	
IP-12	17-Oct-10	3.0-9.5	12:15 PM	1:15 PM	14-14.5%	60	94	47	1.57	0-2		
IP-12	17-Oct-10	3.0-9.5	1:21 PM	2:25 PM	14-14.5%	64	85	43	1.33	0-2	Injections were terminated when	
IP-12	17-Oct-10	3.0-9.5	2:25 PM	2:38 PM	14-14.5%	13	13	7	1.00	0-2	CAPS was observed in PZTW7.	
							192.0	96.0				
IP-13	17-Oct-10	3.0-9.5	1:09 AM	2:12 AM	9.5-10.0%	63	113	38	1.79	0-2		
IP-13	17-Oct-10	3.0-9.5	2:12 AM	3:12 AM	9.5-10.0%	60	113	38	1.88	0-2		
IP-13	17-Oct-10	3.0-9.5	3:12 AM	4:03 AM	9.5-10.0%	51	121	40	2.37	0-2	Injections terminated when CAPS was	
IP-13	17-Oct-10	3.0-9.5	4:03 AM	4:35 AM	9.5-10.0%	32	55	18	1.72	0-2	observed seeping into nearby catch basin.	
							402.0	134.0				
IP-14	11-Oct-10	3.0-9.0	1:58 AM	2:48 AM	14-14.5%	50	146	73	2.92	0-2	No problems noted while injecting.	
IP-14	11-Oct-10	3.0-9.0	3:40 AM	6:00 AM	14-14.5%	140	344	172	2.46	0-2		
							490.0	245.0				
IP-15	17-Oct-10	3.0-9.0	1:09 AM	2:12 AM	9.5-10.0%	63	122	41	1.94	0-2	No problems noted while injecting.	
IP-15	17-Oct-10	3.0-9.0	2:12 AM	3:12 AM	9.5-10.0%	60	104	35	1.73	0-2		
IP-15	17-Oct-10	3.0-9.0	3:12 AM	4:03 AM	9.5-10.0%	51	111	37	2.18	0-2		
IP-15	17-Oct-10	3.0-9.0	4:03 AM	5:13 AM	9.5-10.0%	70	117	39	1.67	0-2		
IP-15	17-Oct-10	3.0-9.0	5:13 AM	6:27 AM	9.5-10.0%	74	111	37	1.50	0-2		
IP-15	17-Oct-10	3.0-9.0	6:27 AM	7:27 AM	9.5-10.0%	60	114	38	1.90	0-2		
IP-15	17-Oct-10	3.0-9.0	7:35 AM	7:55 AM	9.5-10.0%	20	51	17	2.55	0-2		
							730.0	243.3				
IP-16	17-Oct-10	3.0-8.5	4:49 AM	5:13 AM	9.5-10.0%	24	51	17	2.13	0-2	No problems noted while injecting.	
IP-16	17-Oct-10	3.0-8.5	5:13 AM	6:27 AM	9.5-10.0%	74	128	43	1.73	0-2		
IP-16	17-Oct-10	3.0-8.5	6:27 AM	7:27 AM	9.5-10.0%	60	135	45	2.25	0-2		
IP-16	17-Oct-10	3.0-8.5	7:35 AM	8:29 AM	9.5-10.0%	54	166	55	3.07	0-2		
IP-16	17-Oct-10	3.0-8.5	8:32 AM	9:24 AM	9.5-10.0%	52	151	50	2.90	0-2		
IP-16	17-Oct-10	3.0-8.5	9:24 AM	10:20 PM	9.5-10.0%	776	99	33	0.13	0-2		
							730.0	243.3				
IP-17							Piezometer location.					
IP-18	11-Oct-10	3.0-9.0	1:34 AM	1:58 AM	14-14.5%	24	35	18	1.46	0-2	No problems noted while injecting.	
IP-18	11-Oct-10	3.0-9.0	1:58 AM	2:48 AM	14-14.5%	50	136	68	2.72	0-2		
IP-18	11-Oct-10	3.0-9.0	3:40 AM	6:00 AM	14-14.5%	140	319	160	2.28	0-2		
							490.0	245.0				
IP-19	17-Oct-10	3.0-8.5	8:30 AM	9:13 AM	9.5-10.0%	43	98	33	2.28	0-2	Injections were terminated as precaution	
IP-19	17-Oct-10	3.0-8.5	12:15 PM	1:15 PM	14-14.5%	60	159	80	2.65	0-2	when CAPS was observed seeping into	
IP-19	17-Oct-10	3.0-8.5	1:21 PM	2:25 PM	14-14.5%	64	139	70	2.17	0-2	nearby sewer	
IP-19	17-Oct-10	3.0-8.5	2:25 PM	3:01 PM	14-14.5%	36	94	47	2.61	0-2		
							490.0	228.7				
IP-20	17-Oct-10	3.0-8.5	1:09 AM	2:12 AM	9.5-10.0%	63	75	25	1.19	0-2		
IP-20	17-Oct-10	3.0-8.5	2:12 AM	3:12 AM	9.5-10.0%	60	85	28	1.42	0-2		
IP-20	17-Oct-10	3.0-8.5	3:12 AM	4:03 AM	9.5-10.0%	51	101	34	1.98	0-2		
IP-20	17-Oct-10	3.0-8.5	4:03 AM	5:13 AM	9.5-10.0%	70	103	34	1.47	0-2		
IP-20	17-Oct-10	3.0-8.5	5:13 AM	6:27 AM	9.5-10.0%	74	98	33	1.32	0-2		
IP-20	17-Oct-10	3.0-8.5	6:27 AM	7:27 AM	9.5-10.0%	60	109	36	1.82	0-2	Injections were terminated	
IP-20	17-Oct-10	3.0-8.5	7:35 AM	8:05 AM	9.5-10.0%	30	81	27	2.70	0-2	when CAPS was observed in PZTW6.	
							652.0	217.3				
IP-21							Piezometer location.					
IP-22	17-Oct-10	3.0-8.5	8:25 AM	8:29 AM	9.5-10.0%	4	13	4	3.25	0-2	No problems noted while injecting.	
IP-22	17-Oct-10	3.0-8.5	8:32 AM	9:24 AM	9.5-10.0%	52	122	41	2.35	0-2		
IP-22	17-Oct-10	3.0-8.5	9:24 AM	10:34 AM	9.5-10.0%	70	126	42	1.80	0-2		
IP-22	17-Oct-10	3.0-8.5	10:44 AM	12:01 PM	9.5-10.0%	77	128	43	1.66	0-2		
IP-22	17-Oct-10	3.0-8.5	12:01 PM	1:15 PM	14-14.5%	74	132	66	1.78	0-2		
IP-22	17-Oct-10	3.0-8.5	1:21 PM	2:18 PM	14-14.5%	57	99	50	1.74	0-2		
							620.0	245.2				

**Table 1. Treatment Program
Injection Volume/Flow Rate Summary
MACTEC/ Honeywell Facility
540 Route 440
Jersey City, New Jersey
ISOTEC Project #801548**

Injection Point ID	Injection Date	Injection Depth (feet BGS)	Injection Start Time	Injection Stop Time	CAPS Injection Concentration	CAPS Injection Time (mins)	CAPS Injection Volume (gallons)	Stock Solution Volume (~29% CAPS) (gallons)	CAPS Injection Flow Rate (gals/min)	IP Pressure Range (psi)	Notes
IP-23	17-Oct-10	3.0-8.5	4:40 AM	5:13 AM	9.5-10.0%	33	55	18	1.67	0-2	No problems noted while injecting.
IP-23	17-Oct-10	3.0-8.5	5:13 AM	6:27 AM	9.5-10.0%	74	107	36	1.45	0-2	
IP-23	17-Oct-10	3.0-8.5	6:27 AM	7:27 AM	9.5-10.0%	60	111	37	1.85	0-2	
IP-23	17-Oct-10	3.0-8.5	7:35 AM	8:29 AM	9.5-10.0%	54	139	46	2.57	0-2	
IP-23	17-Oct-10	3.0-8.5	8:32 AM	9:24 AM	9.5-10.0%	52	121	40	2.33	0-2	
IP-23	17-Oct-10	3.0-8.5	9:24 AM	10:34 AM	9.5-10.0%	70	143	48	2.04	0-2	
IP-23	17-Oct-10	3.0-8.5	10:44 AM	11:08 AM	9.5-10.0%	24	54	18	2.25	0-2	
							730.0	243.3			
IP-24	Piezometer location.										
IP-25	10-Oct-10	3.0-10.0	6:01 PM	7:10 PM	14-14.5%	69	141	71	2.04	0-2	No problems noted while injecting.
IP-25	10-Oct-10	3.0-10.0	7:10 PM	8:23 PM	14-14.5%	73	150	75	2.05	0-2	
IP-25	10-Oct-10	3.0-10.0	8:23 PM	9:34 PM	14-14.5%	71	119	60	1.68	0-2	
IP-25	10-Oct-10	3.0-10.0	9:34 PM	10:10 PM	14-14.5%	36	83	42	2.31	0-2	
							493.0	246.5			
IP-26	10-Oct-10	3.0-9.5	6:27 AM	7:10 AM	9.5-10.0%	43	110	37	2.56	0-2	No problems noted while injecting.
IP-26	10-Oct-10	3.0-9.5	7:14 AM	8:15 AM	9.5-10.0%	61	120	40	1.97	0-2	
IP-26	10-Oct-10	3.0-9.5	8:15 AM	9:19 AM	9.5-10.0%	64	161	54	2.52	0-2	
IP-26	10-Oct-10	3.0-9.5	9:19 AM	10:27 AM	9.5-10.0%	68	158	53	2.32	0-2	
IP-26	10-Oct-10	3.0-9.5	10:29 AM	11:37 AM	9.5-10.0%	68	182	61	2.68	0-2	
							731.0	243.7			
IP-27	10-Oct-10	3.0-9.5	3:07 AM	4:00 AM	9.5-10.0%	53	50	17	0.94	0-2	No problems noted while injecting.
IP-27	10-Oct-10	3.0-9.5	4:10 AM	5:15 AM	9.5-10.0%	65	111.5	37	1.72	0-2	
IP-27	10-Oct-10	3.0-9.5	5:16 AM	6:00 AM	9.5-10.0%	44	133.5	45	3.03	0-2	
IP-27	10-Oct-10	3.0-9.5	4:48 PM	7:50 PM	14-14.5%	182	235	118	1.29	0-2	
IP-27	10-Oct-10	3.0-9.5	7:50 PM	8:21 PM	14-14.5%	31	55	28	1.77	0-2	
							585.0	243.3			
IP-28	10-Oct-10	3.0-9.5	7:08 PM	7:45 PM	14.50%	37	68	34	1.84	0-2	Surfacing/Daylighting of CAPS occurred.
							68.0	34.0			
IP-28/29	17-Oct-10	3.0-9.5	8:07 AM	8:29 AM	9.5-10.0%	22	65	22	2.95	0-2	No problems noted while injecting.
IP-28/29	17-Oct-10	3.0-9.5	8:32 AM	9:24 AM	9.5-10.0%	52	133	44	2.56	0-2	Injection point was installed in between
IP-28/29	17-Oct-10	3.0-9.5	9:24 AM	10:34 AM	9.5-10.0%	70	141	47	2.01	0-2	IP-28 and IP-29
IP-28/29	17-Oct-10	3.0-9.5	10:44 AM	12:01 PM	9.5-10.0%	77	187	62	2.43	0-2	
IP-28/29	17-Oct-10	3.0-9.5	12:15 PM	1:15 PM	14-14.5%	60	116	58	1.93	0-2	
IP-28/29	17-Oct-10	3.0-9.5	1:21 PM	2:25 PM	14-14.5%	64	103	52	1.61	0-2	
IP-28/29	17-Oct-10	3.0-9.5	2:25 PM	3:10 PM	14-14.5%	45	102	51	2.27	0-2	
							847.0	335.8			
IP-29	10-Oct-10	3.0-9.5	6:01 PM	6:37 PM	14.50%	36	55	28	1.53	0-2	Surfacing/Daylighting of CAPS occurred.
							55.0	27.5			
IP-30	10-Oct-10	3.0-8.5	3:07 AM	4:00 AM	9.5-10.0%	53	71	24	1.34	0-2	No problems noted while injecting.
IP-30	10-Oct-10	3.0-8.5	4:10 AM	5:15 AM	9.5-10.0%	65	111	37	1.71	0-2	
IP-30	10-Oct-10	3.0-8.5	5:16 AM	6:00 AM	9.5-10.0%	44	98	33	2.23	0-2	
IP-30	10-Oct-10	3.0-8.5	2:00 PM	2:18 PM	9.5-10.0%	18	30	10	1.67	0-2	
IP-30	10-Oct-10	3.0-8.5	2:53 PM	5:49 PM	14-14.5%	176	280	140	1.59	0-2	
							590.0	243.3			
IP-31	17-Oct-10	3.0-8.5	1:09 AM	2:12 AM	9.5-10.0%	63	123	41	1.95	0-2	No problems noted while injecting.
IP-31	17-Oct-10	3.0-8.5	2:12 AM	3:12 AM	9.5-10.0%	60	115	38	1.92	0-2	
IP-31	17-Oct-10	3.0-8.5	3:12 AM	4:03 AM	9.5-10.0%	51	119	40	2.33	0-2	
IP-31	17-Oct-10	3.0-8.5	4:03 AM	5:13 AM	9.5-10.0%	70	119	40	1.70	0-2	
IP-31	17-Oct-10	3.0-8.5	5:13 AM	6:27 AM	9.5-10.0%	74	111	37	1.50	0-2	
IP-31	17-Oct-10	3.0-8.5	6:27 AM	7:27 AM	9.5-10.0%	60	117	39	1.95	0-2	
IP-31	17-Oct-10	3.0-8.5	7:35 AM	7:40 AM	9.5-10.0%	5	26	9	5.20	0-2	
							730.0	243.3			
IP-32	Piezometer location.										

**Table 1. Treatment Program
Injection Volume/Flow Rate Summary
MACTEC/ Honeywell Facility
540 Route 440
Jersey City, New Jersey
ISOTEC Project #801548**

Injection Point ID	Injection Date	Injection Depth (feet BGS)	Injection Start Time	Injection Stop Time	CAPS Injection Concentration	CAPS Injection Time (mins)	CAPS Injection Volume (gallons)	Stock Solution Volume (~29% CAPS) (gallons)	CAPS Injection Flow Rate (gals/min)	IP Pressure Range (psi)	Notes	
IP-33	10-Oct-10	3.0-9.5	3:07 AM	4:00 AM	9.5-10.0%	53	98	33	1.85	0-2	No problems noted while injecting.	
IP-33	10-Oct-10	3.0-9.5	4:10 AM	5:15 AM	9.5-10.0%	65	124	41	1.91	0-2		
IP-33	10-Oct-10	3.0-9.5	5:16 AM	6:00 AM	9.5-10.0%	44	136	45	3.09	0-2		
IP-33	10-Oct-10	3.0-9.5	3:56 PM	7:50 PM	14-14.5%	234	271	136	1.16	0-2		
							629.0	254.8				
IP-34	10-Oct-10	3.0-9.5	6:27 AM	7:10 AM	9.5-10.0%	43	67	22	1.56	0-2	No problems noted while injecting.	
IP-34	10-Oct-10	3.0-9.5	7:14 AM	8:15 AM	9.5-10.0%	61	65	22	1.07	0-2		
IP-34	10-Oct-10	3.0-9.5	8:15 AM	9:19 AM	9.5-10.0%	64	106	35	1.66	0-2		
IP-34	10-Oct-10	3.0-9.5	9:19 AM	10:27 AM	9.5-10.0%	68	122	41	1.79	0-2		
IP-34	10-Oct-10	3.0-9.5	10:29 AM	11:37 AM	9.5-10.0%	68	119	40	1.75	0-2		
IP-34	10-Oct-10	3.0-9.5	1:05 PM	2:18 PM	9.5-10.0%	73	51	17	0.70	0-2		
IP-34	10-Oct-10	3.0-9.5	2:53 PM	4:39 PM	14-14.5%	106	134	67	1.26	0-2		
							664.0	243.7				
IP-35	11-Oct-10	3.0-9.5	12:20 AM	1:11 AM	14-14.5%	51	131	66	2.57	0-2	No problems noted while injecting.	
IP-35	11-Oct-10	3.0-9.5	1:11 AM	1:58 AM	14-14.5%	47	148	74	3.15	0-2		
IP-35	11-Oct-10	3.0-9.5	1:58 AM	2:48 AM	14-14.5%	50	211	106	4.22	0-2		
							490.0	245.0				
IP-35A	17-Oct-10	3.0-9.5	12:52 PM	1:10 PM	14-14.5%	18	48	24	2.67	0-2	No problems noted while injecting.	
IP-35A	17-Oct-10	3.0-9.5	2:20 PM	2:25 PM	14-14.5%	5	11	6	2.20	0-2		
IP-35A	17-Oct-10	3.0-9.5	2:25 PM	3:55 PM	14-14.5%	90	211	106	2.34	0-2		
IP-35A	17-Oct-10	3.0-9.5	3:57 PM	5:05 PM	14-14.5%	68	183	92	2.69	0-2		
							453.0	226.5				
IP-36	10-Oct-10	3.0-8.5	8:39 PM	8:43 PM	14-14.5%	4	7	4	1.75	0-2	No problems noted while injecting.	
IP-36	10-Oct-10	3.0-8.5	8:43 PM	9:34 PM	14-14.5%	51	129	65	2.53	0-2		
IP-36	10-Oct-10	3.0-8.5	9:34 PM	10:20 PM	14-14.5%	46	113	57	2.46	0-2		
IP-36	10-Oct-10	3.0-8.5	10:20 PM	11:14 PM	14-14.5%	54	108	54	2.00	0-2		
IP-36	10-Oct-10	3.0-8.5	11:14 PM	12:03 AM	14-14.5%	49	109	55	2.22	0-2		
IP-36	11-Oct-10	3.0-8.5	12:20 AM	12:29 AM	14-14.5%	9	24	12	2.67	0-2		
							490.0	245.0				
IP-36A	17-Oct-10	3.0-8.5	3:52 PM	3:55 PM	14-14.5%	3	8	4	2.67	0-2	No problems noted while injecting.	
IP-36A	17-Oct-10	3.0-8.5	3:57 PM	5:05 PM	14-14.5%	68	114	57	1.68	0-2		
							122.0	61.0				
IP-37							Piezometer location.					
IP-38	10-Oct-10	3.0-9.0	10:15 PM	10:20 PM	14-14.5%	5	11	6	2.20	0-2	No problems noted while injecting.	
IP-38	10-Oct-10	3.0-9.0	10:20 PM	11:14 PM	14-14.5%	54	89	45	1.65	0-2		
IP-38	10-Oct-10	3.0-9.0	11:14 PM	12:03 AM	14-14.5%	49	101	51	2.06	0-2		
IP-38	11-Oct-10	3.0-9.0	12:20 AM	1:11 AM	14-14.5%	51	99	50	1.94	0-2		
IP-38	11-Oct-10	3.0-9.0	1:11 AM	1:58 AM	14-14.5%	47	125	63	2.66	0-2		
IP-38	11-Oct-10	3.0-9.0	1:58 AM	2:27 AM	14-14.5%	29	67	34	2.31	0-2		
							492.0	246.0				
IP-38A	17-Oct-10	3.0-9.0	12:37 PM	1:15 PM	14-14.5%	38	103	52	2.71	0-2		
IP-38A	17-Oct-10	3.0-9.0	1:21 PM	2:25 PM	14-14.5%	64	175	88	2.73	0-2		
IP-38A	17-Oct-10	3.0-9.0	2:25 PM	2:38 PM	14-14.5%	13	25	13	1.92	0-2		
							303.0	151.5				
IP-39	10-Oct-10	3.0-9.0	8:55 PM	9:34 PM	14-14.5%	39	130	65	3.33	0-2	No problems noted while injecting.	
IP-39	10-Oct-10	3.0-9.0	9:34 PM	10:20 PM	14-14.5%	46	134	67	2.91	0-2		
IP-39	10-Oct-10	3.0-9.0	10:20 PM	11:14 PM	14-14.5%	54	131	66	2.43	0-2		
IP-39	10-Oct-10	3.0-9.0	11:14 PM	11:50 PM	14-14.5%	36	95	48	2.64	0-2		
							490.0	245.0				
IP-39A	17-Oct-10	3.0-9.0	3:22 PM	3:55 PM	14-14.5%	33	66	33	2.00	0-2	No problems noted while injecting.	
IP-39A	17-Oct-10	3.0-9.0	3:57 PM	5:05 PM	14-14.5%	68	162	81	2.38	0-2		
							228.0	114.0				

**Table 1. Treatment Program
Injection Volume/Flow Rate Summary
MACTEC/ Honeywell Facility
540 Route 440
Jersey City, New Jersey
ISOTEC Project #801548**

Injection Point ID	Injection Date	Injection Depth (feet BGS)	Injection Start Time	Injection Stop Time	CAPS Injection Concentration	CAPS Injection Time (mins)	CAPS Injection Volume (gallons)	Stock Solution Volume (~29% CAPS) (gallons)	CAPS Injection Flow Rate (gals/min)	IP Pressure Range (psi)	Notes
IP-40	10-Oct-10	3.0-9.0	3:07 AM	4:00 AM	9.5-10.0%	53	107	36	2.02	0-2	No problems noted while injecting.
IP-40	10-Oct-10	3.0-9.0	4:10 AM	5:15 AM	9.5-10.0%	65	127.5	43	1.96	0-2	
IP-40	10-Oct-10	3.0-9.0	5:16 AM	6:00 AM	9.5-10.0%	44	124.5	42	2.83	0-2	
IP-40	10-Oct-10	3.0-9.0	1:05 PM	2:18 PM	9.5-10.0%	73	170	57	2.33	0-2	
IP-40	10-Oct-10	3.0-9.0	2:53 PM	5:26 PM	14-14.5%	153	305	153	1.99	0-2	
							834.0	328.8			
IP-41	10-Oct-10	3.0-9.0	6:27 AM	7:10 AM	9.5-10.0%	43	109	36	2.53	0-2	No problems noted while injecting.
IP-41	10-Oct-10	3.0-9.0	7:14 AM	8:15 AM	9.5-10.0%	61	135	45	2.21	0-2	
IP-41	10-Oct-10	3.0-9.0	8:15 AM	9:19 AM	9.5-10.0%	64	124	41	1.94	0-2	
IP-41	10-Oct-10	3.0-9.0	9:19 AM	10:27 AM	9.5-10.0%	68	119	40	1.75	0-2	
IP-41	10-Oct-10	3.0-9.0	10:29 AM	11:37 AM	9.5-10.0%	68	118	39	1.74	0-2	
IP-41	10-Oct-10	3.0-9.0	1:05 PM	1:45 PM	9.5-10.0%	40	125	42	3.13	0-2	
							730.0	243.3			
IP-42	This IP Location was eliminated by MACTEC due to vicinity to power line										
IP-43	17-Oct-10	3.0-9.0	7:35 AM	8:29 AM	9.5-10.0%	54	178	59	3.30	0-2	No problems noted while injecting.
IP-43	17-Oct-10	3.0-9.0	8:32 AM	9:24 AM	9.5-10.0%	52	166	55	3.19	0-2	
IP-43	17-Oct-10	3.0-9.0	9:24 AM	10:34 AM	9.5-10.0%	70	183	61	2.61	0-2	
IP-43	17-Oct-10	3.0-9.0	10:44 AM	11:40 AM	9.5-10.0%	56	206	69	3.68	0-2	
							733.0	244.3			
IP-44	10-Oct-10	3.0-9.0	6:25 AM	7:10 AM	9.5-10.0%	45	118	39	2.62	0-2	No problems noted while injecting.
IP-44	10-Oct-10	3.0-9.0	7:14 AM	8:15 AM	9.5-10.0%	61	110	37	1.80	0-2	
IP-44	10-Oct-10	3.0-9.0	8:15 AM	9:19 AM	9.5-10.0%	64	135	45	2.11	0-2	
IP-44	10-Oct-10	3.0-9.0	9:19 AM	10:27 AM	9.5-10.0%	68	118	39	1.74	0-2	
IP-44	10-Oct-10	3.0-9.0	10:29 AM	11:37 AM	9.5-10.0%	68	120	40	1.76	0-2	
IP-44	10-Oct-10	3.0-9.0	1:05 PM	2:12 PM	9.5-10.0%	67	129	43	1.93	0-2	
							730.0	243.3			
IP-45	10-Oct-10	3.0-9.0	8:35 PM	8:43 PM	14-14.5%	8	20	10	2.50	0-2	Surfacing/Daylighting of CAPS occurred.
IP-45	10-Oct-10	3.0-9.0	8:43 PM	9:34 PM	14-14.5%	51	134	67	2.63	0-2	
IP-45	10-Oct-10	3.0-9.0	9:34 PM	10:20 PM	14-14.5%	46	67	34	1.46	0-2	
IP-45	10-Oct-10	3.0-9.0	10:20 PM	11:14 PM	14-14.5%	54	93	47	1.72	0-2	
IP-45	10-Oct-10	3.0-9.0	11:14 PM	11:53 PM	14-14.5%	39	78	39	2.00	0-2	
IP-45	11-Oct-10	3.0-9.0	12:20 AM	1:11 AM	14-14.5%	51	93	47	1.82	0-2	
IP-45	11-Oct-10	3.0-9.0	1:11 AM	1:14 AM	14-14.5%	3	5	3	1.67	0-2	
							490.0	245.0			
IP-46	10-Oct-10	3.0-9.0	8:55 PM	9:34 PM	14-14.5%	39	135	68	3.46	0-2	No problems noted while injecting.
IP-46	10-Oct-10	3.0-9.0	9:34 PM	10:20 PM	14-14.5%	46	152	76	3.30	0-2	
IP-46	10-Oct-10	3.0-9.0	10:20 PM	11:14 PM	14-14.5%	54	161	81	2.98	0-2	
IP-46	10-Oct-10	3.0-9.0	11:14 PM	11:29 PM	14-14.5%	15	53	27	3.53	0-2	
							501.0	250.5			
IP-47	Piezometer location.										
IP-48	10-Oct-10	3.0-9.0	2:46 AM	4:00 AM	9.5-10.0%	74	148	49	2.00	0-2	No problems noted while injecting.
IP-48	10-Oct-10	3.0-9.0	4:10 AM	5:15 AM	9.5-10.0%	65	97	32	1.49	0-2	
IP-48	10-Oct-10	3.0-9.0	5:16 AM	6:00 AM	9.5-10.0%	44	93	31	2.11	0-2	
IP-48	10-Oct-10	3.0-9.0	2:53 PM	5:16 PM	14-14.5%	143	283	142	1.98	0-2	
							621.0	254.2			
IP-49	10-Oct-10	3.0-9.0	6:25 AM	7:10 AM	9.5-10.0%	45	125	42	2.78	0-2	No problems noted while injecting.
IP-49	10-Oct-10	3.0-9.0	7:14 AM	8:15 AM	9.5-10.0%	61	49	16	0.80	0-2	
IP-49	10-Oct-10	3.0-9.0	8:15 AM	9:19 AM	9.5-10.0%	64	62	21	0.97	0-2	
IP-49	10-Oct-10	3.0-9.0	9:19 AM	10:27 AM	9.5-10.0%	68	93	31	1.37	0-2	
IP-49	10-Oct-10	3.0-9.0	10:29 AM	11:37 AM	9.5-10.0%	68	110	37	1.62	0-2	
IP-49	10-Oct-10	3.0-9.0	1:05 PM	2:18 PM	9.5-10.0%	73	150	50	2.05	0-2	
IP-49	10-Oct-10	3.0-9.0	2:53 PM	3:44 PM	14-14.5%	51	98	49	1.92	0-2	
							687.0	245.3			
IP-50	10-Oct-10	3.0-9.0	11:34 PM	11:50 PM	14-14.5%	16	50	25	3.13	0-2	No problems noted but injections were terminated as precaution due to vicinity to power line
							50.0	25.0			

**Table 1. Treatment Program
Injection Volume/Flow Rate Summary
MACTEC/ Honeywell Facility
540 Route 440
Jersey City, New Jersey
ISOTEC Project #801548**

Injection Point ID	Injection Date	Injection Depth (feet BGS)	Injection Start Time	Injection Stop Time	CAPS Injection Concentration	CAPS Injection Time (mins)	CAPS Injection Volume (gallons)	Stock Solution Volume (~29% CAPS) (gallons)	CAPS Injection Flow Rate (gals/min)	IP Pressure Range (psi)	Notes
IP-51	10-Oct-10	3.0-9.0	6:27 AM	7:10 AM	9.5-10.0%	43	124	41	2.88	0-2	No problems noted while injecting.
IP-51	10-Oct-10	3.0-9.0	7:14 AM	8:15 AM	9.5-10.0%	61	151	50	2.48	0-2	
IP-51	10-Oct-10	3.0-9.0	8:15 AM	9:19 AM	9.5-10.0%	64	127	42	1.98	0-2	
IP-51	10-Oct-10	3.0-9.0	9:19 AM	10:27 AM	9.5-10.0%	68	141	47	2.07	0-2	
IP-51	10-Oct-10	3.0-9.0	10:29 AM	11:37 AM	9.5-10.0%	68	140	47	2.06	0-2	
IP-51	10-Oct-10	3.0-9.0	1:05 PM	1:27 PM	9.5-10.0%	22	43	14	1.95	0-2	
							726.0	242.0			
IP-52	11-Oct-10	3.0-9.0	12:33 AM	1:11 AM	14-14.5%	38	69	35	1.82	0-2	No problems noted while injecting.
IP-52	11-Oct-10	3.0-9.0	1:11 AM	1:58 AM	14-14.5%	47	115	58	2.45	0-2	
IP-52	11-Oct-10	3.0-9.0	1:58 AM	2:48 AM	14-14.5%	50	122	61	2.44	0-2	
IP-52	11-Oct-10	3.0-9.0	3:40 AM	6:00 AM	14-14.5%	140	184	92	1.31	0-2	
							490.0	245.0			
IP-53	10-Oct-10	3.0-9.5	5:01 PM	5:54 PM	14-14.5%	53	60	30	1.13	0-2	No problems noted while injecting.
IP-53	10-Oct-10	3.0-9.5	5:54 PM	7:57 PM	14-14.5%	123	202	101	1.64	0-2	
IP-53	10-Oct-10	3.0-9.5	7:57 PM	8:43 PM	14-14.5%	46	194	97	4.22	0-2	
IP-53	10-Oct-10	3.0-9.5	8:43 PM	9:02 PM	14-14.5%	19	40	20	2.11	0-2	
							496.0	248.0			
IP-54	10-Oct-10	3.0-9.5	2:46 AM	4:00 AM	9.5-10.0%	74	152	51	2.05	0-2	Surfacing/Daylighting of CAPS occurred.
IP-54	10-Oct-10	3.0-9.5	4:10 AM	5:15 AM	9.5-10.0%	65	106	35	1.63	0-2	
IP-54	10-Oct-10	3.0-9.5	5:16 AM	6:00 AM	9.5-10.0%	44	53	18	1.20	0-2	
IP-54	10-Oct-10	3.0-9.5	3:53 PM	7:50 PM	14-14.5%	237	232	116	0.98	0-2	
							543.0	219.7			
IP-55	10-Oct-10	3.0-9.5	6:25 AM	7:10 AM	9.5-10.0%	45	124	41	2.76	0-2	No problems noted while injecting.
IP-55	10-Oct-10	3.0-9.5	7:14 AM	8:15 AM	9.5-10.0%	61	190	63	3.11	0-2	
IP-55	10-Oct-10	3.0-9.5	8:15 AM	9:19 AM	9.5-10.0%	64	119	40	1.86	0-2	
IP-55	10-Oct-10	3.0-9.5	9:19 AM	10:27 AM	9.5-10.0%	68	81	27	1.19	0-2	
IP-55	10-Oct-10	3.0-9.5	10:29 AM	11:37 AM	9.5-10.0%	68	82	27	1.21	0-2	
IP-55	10-Oct-10	3.0-9.5	1:05 PM	2:18 PM	9.5-10.0%	73	70	23	0.96	0-2	
IP-55	10-Oct-10	3.0-9.5	2:53 PM	3:38 PM	14-14.5%	45	43	22	0.96	0-2	
							709.0	243.5			
IP-56	10-Oct-10	3.0-9.5	11:54 PM	12:03 AM	14-14.5%	9	26	13	2.89	0-2	No problems noted while injecting.
IP-56	11-Oct-10	3.0-9.5	12:20 AM	1:11 AM	14-14.5%	49	165	83	3.37	0-2	
IP-56	11-Oct-10	3.0-9.5	1:11 AM	1:58 AM	14-14.5%	47	157	79	3.34	0-2	
IP-56	11-Oct-10	3.0-9.5	1:58 AM	2:37 AM	14-14.5%	39	144	72	3.69	0-2	
							492.0	246.0			
IP-57	10-Oct-10	3.0-9.0	11:03 PM	11:14 PM	14-14.5%	9	41	21	4.56	0-2	No problems noted while injecting.
IP-57	10-Oct-10	3.0-9.0	11:14 PM	12:03 AM	14-14.5%	49	155	78	3.16	0-2	
IP-57	11-Oct-10	3.0-9.0	12:20 AM	1:11 AM	14-14.5%	51	169	85	3.31	0-2	
IP-57	11-Oct-10	3.0-9.0	1:11 AM	1:48 AM	14-14.5%	37	126	63	3.41	0-2	
							491.0	245.5			
IP-57A	17-Oct-10	3.0-9.0	12:58 PM	1:15 PM	14-14.5%	17	54	27	3.18	0-2	No problems noted while injecting.
IP-57A	17-Oct-10	3.0-9.0	1:21 PM	2:25 PM	14-14.5%	64	188	94	2.94	0-2	
IP-57A	17-Oct-10	3.0-9.0	2:38 PM	3:18 PM	14-14.5%	40	58	29	1.45	0-2	
							300.0	150.0			
IP-58	10-Oct-10	3.0-9.5	5:19 PM	5:54 PM	14-14.5%	35	30	15	0.86	0-2	No problems noted while injecting.
IP-58	10-Oct-10	3.0-9.5	5:54 PM	7:56 PM	14-14.5%	122	107	54	0.88	0-2	
IP-58	10-Oct-10	3.0-9.5	7:56 PM	8:35 PM	14-14.5%	39	51	26	1.31	0-2	
IP-58	10-Oct-10	3.0-9.5	9:20 PM	9:34 PM	14-14.5%	14	50	25	3.57	0-2	
IP-58	10-Oct-10	3.0-9.5	9:34 PM	10:10 PM	14-14.5%	36	134	67	3.72	0-2	
IP-58	10-Oct-10	3.0-9.5	10:10 PM	10:55 PM	14-14.5%	45	69	35	1.53	0-2	
							441.0	220.5			
IP-58A	17-Oct-10	3.0-9.5	2:56 PM	3:55 PM	14-14.5%	59	150	75	2.54	0-2	No problems noted while injecting.
IP-58A	17-Oct-10	3.0-9.5	3:57 PM	5:05 PM	14-14.5%	68	124	62	1.82	0-2	
							274.0	137.0			

**Table 1. Treatment Program
Injection Volume/Flow Rate Summary
MACTEC/ Honeywell Facility
540 Route 440
Jersey City, New Jersey
ISOTEC Project #801548**

Injection Point ID	Injection Date	Injection Depth (feet BGS)	Injection Start Time	Injection Stop Time	CAPS Injection Concentration	CAPS Injection Time (mins)	CAPS Injection Volume (gallons)	Stock Solution Volume (~29% CAPS) (gallons)	CAPS Injection Flow Rate (gals/min)	IP Pressure Range (psi)	Notes	
IP-59	10-Oct-10	3.0-9.5	2:46 AM	4:00 AM	9.5-10.0%	74	150	50	2.03	0-2	No problems noted while injecting.	
IP-59	10-Oct-10	3.0-9.5	4:10 AM	5:15 AM	9.5-10.0%	65	100.5	34	1.55	0-2		
IP-59	10-Oct-10	3.0-9.5	5:16 AM	6:00 AM	9.5-10.0%	44	122.5	41	2.78	0-2		
IP-59	10-Oct-10	3.0-9.5	1:51 PM	2:18 PM	9.5-10.0%	27	48	16	1.78	0-2		
IP-59	10-Oct-10	3.0-9.5	2:53 PM	4:56 PM	14-14.5%	123	206	103	1.67	0-2		
							627.0	243.3				
IP-60	10-Oct-10	3.0-10.0	7:06 PM	7:31 PM	14-14.5%	25	69	35	2.76	0-2	No problems noted while injecting.	
IP-60	10-Oct-10	3.0-10.0	7:31 PM	8:42 PM	14-14.5%	71	197	99	2.77	0-2		
IP-60	10-Oct-10	3.0-10.0	8:42 PM	9:34 PM	14-14.5%	52	132	66	2.54	0-2		
IP-60	10-Oct-10	3.0-10.0	9:34 PM	10:10 PM	14-14.5%	36	93	47	2.58	0-2		
							491.0	245.5				
IP-61	10-Oct-10	3.0-10.0	11:25 PM	12:03 AM	14-14.5%	38	126	63	3.32	0-2	No problems noted while injecting.	
IP-61	11-Oct-10	3.0-10.0	12:20 AM	1:58 AM	14-14.5%	98	288	144	2.94	0-2		
IP-61	11-Oct-10	3.0-10.0	1:58 AM	2:20 AM	14-14.5%	22	76	38	3.45	0-2		
							490.0	245.0				
IP-62	10-Oct-10	3.0-9.5	8:02 PM	8:43 PM	14-14.5%	41	138	69	3.37	0-2	No problems noted while injecting.	
IP-62	10-Oct-10	3.0-9.5	8:43 PM	9:34 PM	14-14.5%	51	114	57	2.24	0-2		
IP-62	10-Oct-10	3.0-9.5	9:34 PM	10:10 PM	14-14.5%	36	107	54	2.97	0-2		
IP-62	10-Oct-10	3.0-9.5	10:10 PM	11:14 PM	14-14.5%	64	112	56	1.75	0-2		
IP-62	10-Oct-10	3.0-9.5	11:14 PM	11:24 PM	14-14.5%	10	19	10	1.90	0-2		
							490.0	245.0				
IP-62A	17-Oct-10	3.0-9.5	3:20 PM	3:55 PM	14-14.5%	35	90	45	2.57	0-2	No problems noted while injecting.	
IP-62A	17-Oct-10	3.0-9.5	3:57 PM	5:05 PM	14-14.5%	68	221	111	3.25	0-2		
							311.0	155.5				
IP-63	10-Oct-10	3.0-10.0	6:25 AM	7:10 AM	9.5-10.0%	45	148	49	3.29	0-2	No problems noted while injecting.	
IP-63	10-Oct-10	3.0-10.0	7:14 AM	8:15 AM	9.5-10.0%	61	119	40	1.95	0-2		
IP-63	10-Oct-10	3.0-10.0	8:15 AM	9:19 AM	9.5-10.0%	64	108	36	1.69	0-2		
IP-63	10-Oct-10	3.0-10.0	9:19 AM	10:27 AM	9.5-10.0%	68	106	35	1.56	0-2		
IP-63	10-Oct-10	3.0-10.0	10:29 AM	11:37 AM	9.5-10.0%	68	114	38	1.68	0-2		
IP-63	10-Oct-10	3.0-10.0	1:05 PM	2:17 PM	9.5-10.0%	72	110	37	1.53	0-2		
IP-63	10-Oct-10	3.0-10.0	2:53 PM	3:04 PM	14-14.5%	11	17	9	1.55	0-2		
							722.0	243.5				
IP-64	10-Oct-10	3.0-10.0	2:46 AM	4:00 AM	9.5-10.0%	74	124	41	1.68	0-2	No problems noted while injecting.	
IP-64	10-Oct-10	3.0-10.0	4:10 AM	5:15 AM	9.5-10.0%	65	148	49	2.28	0-2		
IP-64	10-Oct-10	3.0-10.0	5:16 AM	6:00 AM	9.5-10.0%	44	167	56	3.80	0-2		
IP-64	10-Oct-10	3.0-10.0	3:32 PM	6:15 PM	14-14.5%	163	202	101	1.24	0-2		
							641.0	247.3				
IP-65	10-Oct-10	3.0-9.0	10:21 PM	11:14 PM	14-14.5%	53	88	44	1.66	0-2	No problems noted while injecting.	
IP-65	10-Oct-10	3.0-9.0	11:14 PM	12:03 AM	14-14.5%	49	102	51	2.08	0-2		
IP-65	11-Oct-10	3.0-9.0	12:20 AM	1:11 AM	14-14.5%	51	92	46	1.80	0-2		
IP-65	11-Oct-10	3.0-9.0	1:11 AM	1:58 AM	14-14.5%	47	101	51	2.15	0-2		
IP-65	11-Oct-10	3.0-9.0	1:58 AM	2:39 AM	14-14.5%	41	107	54	2.61	0-2		
							490.0	245.0				
IP-65A	17-Oct-10	3.0-9.0	10:44 AM	12:01 PM	9.5-10.0%	77	286	95	3.71	0-2	No problems noted while injecting.	
IP-65A	17-Oct-10	3.0-9.0	12:15 PM	12:53 PM	14-14.5%	38	145	73	3.82	0-2		
							431.0	167.8				
TOTAL VOLUME (Gallons)/ AVERAGE FLOW RATE (Gals/Min)							33,042	13,599	2.13			

BGS = Below Ground Surface
Gals = Gallons
Min = Minutes
Gals/Min = Gallons per minute

IP = Injection Point
psi = pound per square inch
CAPS = Calcium Polysulfide

APPENDIX F
MANIFESTS

1001

OFFICE & LANDFILL CLOSED 9/6/10



New Jersey Meadowlands Commission Billing Agent

Landfill # 201-998-4020 Main Office # 201-460-8161

STATEMENT OF SERVICES RENDERED

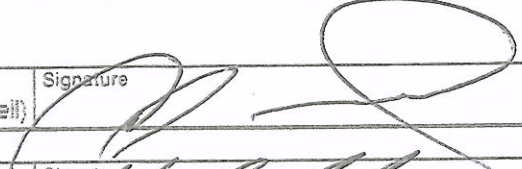

SCALE IN/OUT: 2^ / 2^ TICKET: 239259 NO AUTHORIZATION TO DUMP
 VIC DECAL: 17737 LICENSE: AM765D
 CARRIER DEP: 17737 ESCROW BALANCE: 0002674.55
 TRUCK ID: 07955 DATE/TIME: 08/19/2010 09:26:43 - 09:46:09
 ACCOUNT NO: 83421 / Honeywell/ SA-5

COMMENT:

ORIGIN	WASTE TYPE	TONNAGE	TIPPING FEE	SURCHARGE	TOTAL CHARGE
0906	27H	26.76	2121.00	204.45	2325.45

IN OPERATOR: CT OUT OPERATOR: PJU (27506) TOTAL 2325.45

Case type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. NJ 141		Document No. CH 0101		2. Page 1 of 1									
3. Generator's Name and Mailing Address HONEYWELL 101 COLUMBIA ROAD MORRISTOWN NJ 07962						A. Non-hazardous Manifest Document Number NHZ020 102769									
4. Generator's Phone (973) 455-3302						B. State Generator's ID Site 079, Fisk St. & Monticello Way JERSEY CITY NJ 07305									
5. Transporter 1 Company Name REBCO CONTRACTING COR.				6. US EPA ID Number		C. State Trans. ID									
7. Transporter 2 Company Name				8. US EPA ID Number		D. Transporter's Phone (973) 472-6087									
9. Designated Facility Name and Site Address 15 LANDFILL 189 BAKER BLVD. NORTH ARLINGTON NJ 07061				10. US EPA ID Number NSMC KEELAN LANDFILL 437 BERGEN AVE. KEARNY N.J.		E. State Trans. ID									
						F. Transporter's Phone ()									
						G. State Facility's ID									
						H. Facility's Phone (201) 480-4378									
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers		13. Total		14. Unit		15. Waste No.			
						No.		Type		Quantity		Wt/Vol		L	
GENERATOR		a. Non-regulated material		001		DT 48000		F				N O N E			
		b.													
		c.													
		d.													
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above									
ID-27															
a.						c.									
b.						d.									
15. Special Handling Instructions and Additional Information															
Emergency Contact: 809-915-7328 TRX#: 98 MAN DOC: CH001 RED DECAL#: 07955 ACCOUNT NO: 83421															
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. I hereby certify that the above-named material is not hazardous waste as defined by 40 CFR Part 261, 264 and 279 or any applicable state law.															
Printed/Typed Name Chris Mundays (as agent on behalf of Honeywell)						Signature 				Month Day Year 10/11/10					
TRANSPORTER		17. Transporter 1 Acknowledgement of Receipt of Materials													
		Printed/Typed Name Hector Castaneda						Signature 				Month Day Year 10/11/10			
FACILITY		18. Transporter 2 Acknowledgement of Receipt of Materials													
		Printed/Typed Name						Signature				Month Day Year			
19. Discrepancy Indication Space															
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest except as noted in Item 19.															
Printed/Typed Name						Signature				Month Day Year					

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.		Document No.		2. Page 1 of 1	
3. Generator's Name and Mailing Address HONEYWELL 101 COLUMBIA ROAD MORRISTOWN, NJ 07962				A. Non-hazardous Manifest Document Number NHZ020 132769			
4. Generator's Phone (973) 455-3307				B. State Generator's ID Site 079, First St. & Mortorano Way JERSEY CITY, NJ 07308			
5. Transporter 1 Company Name REBCO CONTRACTING COR		6. US EPA ID Number		C. State Trans. ID			
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone (973) 472-8087			
9. Designated Facility Name and Site Address I-E LANDFILL 100 GALER BLVD NORTH ARLINGTON, NJ 07061		10. US EPA ID Number		E. State Trans. ID			
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)				12. Containers		13. Total	
				No. Type		Quantity	
a. Non-regulated material				001 01 49900 P		14. Unit Wt/Vol	
						L Waste No.	
						NONE	
J. Additional Descriptions for Materials Listed Above				K. Handling Codes for Wastes Listed Above			
10-27							
a.				a.			
b.				b.			
c.				c.			
d.				d.			
15. Special Handling Instructions and Additional Information							
Emergency Contact: 609-913-7998 TRF#: 98 MAN DOC. CH001 RED DECAL#: 07955 ACCOUNT NO: 99421							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. I hereby certify that the above-named material is not hazardous waste as defined by 40 CFR Part 261, 264 and 279 or any applicable state law.							
Printed/Typed Name C. H. ... (as agent on behalf of Honeywell)				Signature 		Month Day Year 1981 12 11	
17. Transporter 1 Acknowledgement of Receipt of Materials							
Printed/Typed Name Robert ...				Signature 		Month Day Year 1981 12 11	
18. Transporter 2 Acknowledgement of Receipt of Materials							
Printed/Typed Name				Signature		Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest except as noted in Item 19.							
Printed/Typed Name GAT 13357				Signature 		Month Day Year 1981 12 11	

GENERATOR

TRANSPORTER

FACILITY



New Jersey Meadowlands Commission Billing Agent

Landfill # 201-998-4020 Main Office # 201-460-8161

ESCROW PAYMENT RECEIPT

RECEIPT #: 248803
CUSTOMER: 83421 / Honeywell/ SA-5
CHECK NUMBER: 271744
DATE: 08/06/2010
TIME: 10:12:58
DESCRIPTION: ESCROW PAYMENT

OLD BALANCE:	0.00
AMOUNT:	5,000.00
NEW BALANCE:	5,000.00

Honeywell

Honeywell International, Inc.
P.O. Box 981793
El Paso TX 79998-1793

271744

PAGE: 1 of 1

DATE: August 2, 2010
CHECK NUMBER: 271744
AMOUNT PAID: \$5,000.00
ACCOUNT NUMBER: 601872450

02433 CKS ZA 10214 - 0000271744 NNNN 2145100003005 X37914 C
NEW JERSEY MEADOWLANDS COMMISSION
1 DEKORTE PARK PL
LYNDHURST NJ 07071



VENDOR NO: 363548

VENDOR: NEW JERSEY MEADOWLANDS COMMISSION

DATE	INVOICE NUMBER	PO CONTRACT NUMBER	REFERENCE #/DESCRIPTION	GROSS	DISCOUNT	NET
07/23/10	072310		Overnight, UPS # 063208, ZIP # 07962	\$5,000.00	\$0.00	\$5,000.00
			ESCROW ACCOUNT FOR SA 5			
			TOTALS	\$5,000.00	\$0.00	\$5,000.00

INQUIRIES 480-598-9071 OPT #4 OR EMAIL-- ACCOUNTS.PAYABLE.CORPORATE@HONEYWELL.COM

PLEASE DETACH BEFORE DEPOSITING CHECK

Honeywell

Honeywell International, Inc.
P.O. Box 981793
El Paso TX 79998-1793

CHECK NUMBER 271744

50-937
213

August 2, 2010

*** VOID AFTER 180 DAYS ***

PAY TO THE ORDER OF: NEW JERSEY MEADOWLANDS COMMISSION
1 DEKORTE PARK PL
LYNDHURST, NJ 07071

CHECK AMOUNT
\$5,000.00

EXACTLY *****5,000 DOLLARS AND 00 CENTS

2010 Chase Bank, N.A.
yr



[Handwritten Signature]
Authorized Signature

⑈ 271744⑈ ⑆021309379⑆

601872450⑈

Honeywell
 Honeywell International, Inc.
 P.O. Box 981793
 El Paso TX 79998-1793

02433 CKS ZA 10234 - 000271744 MNN 2145100003005 X19744 C
 NEW JERSEY MEADOWLANDS COMMISSION
 1 DEKORTE PARK PL
 LYNTHURST NJ 07071



VENDOR: NEW JERSEY MEADOWLANDS COMMISSION

VENDOR NO: 363548

DATE	INVOICE NUMBER	PO CONTRACT NUMBER	REFERENCE #/DESCRIPTION	GROSS	DISCOUNT	NET
07/23/10	072310		Overnight, UPS # 063208, ZIP # 07962 ESCROW ACCOUNT FOR SA 5	\$5,000.00	\$0.00	\$5,000.00
			TOTALS	\$5,000.00	\$0.00	\$5,000.00

INQUIRIES 480-598-9071 OPT #4 OR EMAIL-- ACCOUNTS.PAYABLE.CORPORATE@HONEYWELL.COM

PLEASE DETACH BEFORE DEPOSITING CHECK

271744
 PAGE: 1 of 1
 DATE: August 2, 2010
 CHECK NUMBER: 271744
 AMOUNT PAID: \$5,000.00
 ACCOUNT NUMBER: 601872450



GENERATOR'S WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

Service Agreement on File? Yes No Profile Number: WMI
Renewal Date: _____

A. Waste Generator Information

- 1. Generator Name: HONEYWELL INTERNATIONAL? BIC Code: N/A
- 3. Facility Street Address: SITE 079/FISK ST Phone: 973-455-3302
- 5. Facility City: JERSEY CITY MONTECATINI 6. State/Province: NEW JERSEY
- 7. Zip/Postal Code: 07305 8. Generator USEPA/Federal ID #: N/A
- 9. County: HUDSON 10. State/Province ID #: 99 NEW JERSEY
- 11. Customer Name: HONEYWELL INTERNATIONAL 12. Customer Phone: 973-455-3302
- 13. Customer Contact: MARIA KADURIS 14. Customer Fax: 973-455-3082

B. Waste Stream Information

- 1. Name of Waste: ID-27 NON HAZARDOUS SOIL 2. State Waste Code: N/A
 - 3. Process Generating Waste: MATERIAL BEING EXCAVATED AS PART AS AN APPROVED NJDEP REMEDIAL ACTION WORK PLAN.
 - 4. Estimated Annual Volume: 40 Tons Yards Other (specify) _____
 - 5. Personal Protective Equipment Requirements _____
 - 6. Transporter/Transfer Station TO BE DETERMINED
 - 7. Is this a US Department of Transportation (USDOT) Hazardous Material? (If no, skip 8, 9 & 10) Yes No
 - 8. Reportable Quantity (lbs.;kgs.): -NA- 9. Hazardous Class/ID #: -NA-
 - 10. USDOT Shipping Name: NON REGULATED MATERIAL
- Check if additional information is attached. Indicate the number of attached pages: _____

C. Generator's Certification (Please check appropriate responses, sign, and date below.)

- 1. Is the waste represented by this waste profile sheet a "Hazardous Waste," as defined by USEPA, Canadian, Mexican and/or state/province regulation, in the location where generated or ultimately managed? Yes No
- 2. Does the waste represented by this waste profile sheet contain regulated radioactive material or regulated concentrations of Polychlorinated Biphenyls (PCBs)? Yes No
- 3. Does this waste profile sheet and all attachments contain true and accurate descriptions of the waste material? Yes No
- 4. Has all relevant information within the possession of the Generator regarding known or suspected hazards pertaining to the waste been disclosed to the Contractor? Yes No
- 5. Is the analytical data attached hereto derived from testing a representative sample in accordance with 40 CFR 261.20 (c) or equivalent rules? N/A Yes No
- 6. Will all changes that occur in the character of the waste be identified by the Generator and disclosed to the Contractor prior to providing the waste to the Contractor? Yes No

Certification Signature & Date: Maria Kaduris Title: REMEDATION MANAGER
Name (Type or Print): MARIA KADURIS Customer Name: HONEYWELL INTERNATIONAL

D. WMI Management's Decision

- 1. Management Method: Landfill Solidify Bioremediation Other (specify) _____
 - 2. Proposed Ultimate Management Facility: _____ 3. Hours of Acceptance: _____ N/A
 - 4. Supplemental Information: _____
 - 5. Precautions, Special Handling Procedures, or Limitations on Approval: _____
- Special Waste Decision: Approved Disapproved
- Salesperson's Signature: _____ Date: _____
Division Approval Signature (Optional): _____ Date: _____
Special Waste Approvals Person Signature: _____ Date: _____

GENERATOR'S WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

Service Agreement on File? Yes No Profile Number: WMI
Renewal Date: _____

A. Waste Generator Information

1. Generator Name: HONEYWELL INTERNATIONAL 2. SIC Code: N/A
 3. Facility Street Address: SITE 079 / FISK ST / Phone: 973-455-3302
MONTERANO WAY
 5. Facility City: JERSEY CITY 6. State/Province: NEW JERSEY
 7. Zip/Postal Code: 07305 8. Generator USEPA/Federal ID #: N/A
 9. County: HUDSON 10. State/Province ID #: 97 NEW JERSEY
 11. Customer Name: Honeywell International 12. Customer Phone: 973-455-3302
 13. Customer Contact: MARIA KAOURIS 14. Customer Fax: 973-455-3082

B. Waste Stream Information

1. Name of Waste: ID-27 NON HAZARDOUS SOIL 2. State Waste Code: N/A
 3. Process Generating Waste: MATERIAL BEING EXCAVATED AS PART AS AN
APPROVED NJDEP REMEDIAL ACTION WORK
 PLAN.
 4. Estimated Annual Volume: 40 Tons Yards Other (specify) _____
 5. Personal Protective Equipment Requirements _____
 6. Transporter/Transfer Station TO BE DETERMINED
 7. Is this a US Department of Transportation (USDOT) Hazardous Material? (If no, skip 8, 9 & 10) Yes No
 8. Reportable Quantity (lbs.;kgs.): -NA- 9. Hazardous Class/ID #: -NA-
 10. USDOT Shipping Name: NON REGULATED MATERIAL
 Check if additional information is attached. Indicate the number of attached pages: _____

C. Generator's Certification (Please check appropriate responses, sign, and date below.)

1. Is the waste represented by this waste profile sheet a "Hazardous Waste," as defined by USEPA, Canadian, Mexican and/or state/province regulation, in the location where generated or ultimately managed? Yes No
 2. Does the waste represented by this waste profile sheet contain regulated radioactive material or regulated concentrations of Polychlorinated Biphenyls (PCBs)? Yes No
 3. Does this waste profile sheet and all attachments contain true and accurate descriptions of the waste material? Yes No
 4. Has all relevant information within the possession of the Generator regarding known or suspected hazards pertaining to the waste been disclosed to the Contractor? Yes No
 5. Is the analytical data attached hereto derived from testing a representative sample in accordance with 40 CFR 261.20 (c) or equivalent rules? N/A Yes No
 6. Will all changes that occur in the character of the waste be identified by the Generator and disclosed to the Contractor prior to providing the waste to the Contractor? Yes No

Certification Signature & Date _____ Title: REMEDIATION MANAGER
 Name (Type or Print): MARIA KAOURIS Customer Name: HONEYWELL INTERNATIONAL

D. WMI Management's Decision

1. Management Method: Landfill Solidify Bioremediation Other (specify) _____
 2. Proposed Ultimate Management Facility: _____ 3. Hours of Acceptance: _____ N/A
 4. Supplemental Information: _____
 5. Precautions, Special Handling Procedures, or Limitations on Approval: _____
 Official Waste Decision: Approved Disapproved
 Salesperson's Signature: _____ Date: _____
 Division Approval Signature (Optional): _____ Date: _____
 Special Waste Approvals Person Signature _____ Date: _____

Honeywell
P.O. Box 1057
Morristown, NJ 07962-1057

INDEMNIFICATION
(SITE 079)

Date: **July 20, 2010**

Honeywell International warrants that each load delivered to the NJMC 1E-Landfill or Keegan Landfill include only **ID-27 Non Hazardous Soil**. Information on all these wastes has been provided to the NJMC and these wastes are non-hazardous as defined by the New Jersey Department of Environmental Protection under NJAC 7:26-2.13(g)(1)vii and classified as ID27 wastes that are generated at **Honeywell International, Site 079, Jersey City New Jersey 07305**.

Honeywell International further agrees to indemnify the New Jersey Meadowlands Commission and the Keegan Landfill operator against any and all claims, losses, or damages caused in whole or in part by breach of this warranty. **Honeywell International** understands that should the Commission or the landfill operator's personnel deem any or all of this material unacceptable at any time it will be rejected.

CERTIFICATION SIGNATURE:- Maria Kaouris TITLE: **Remediation Manager**

NAME (PRINT): **Maria Kaouris** COMPANY NAME: **Honeywell International**

SITE 079 INSITU SAMPLING
WASTE CHARACTERIZATION RESULT LIST

Sample ID	Method Id	Date Collected	Parameter	Result	RL	Units
SAMPLE ID: 079-WC-001-042310						
079-WC-001-042310	1020A	4/23/2010	Ignitability	>200		deg F
079-WC-001-042310	3060A/7199	4/23/2010	Hexavalent Chromium	4.4	0.98	mg/Kg
079-WC-001-042310	3050B	4/23/2010	Chromium	293	1.2	mg/Kg
079-WC-001-042310	6010B	4/23/2010	Silver	<0.010	0.01	mg/l
079-WC-001-042310	6010B	4/23/2010	Arsenic	<0.50	0.5	mg/l
079-WC-001-042310	6010B	4/23/2010	Barium	1.1	1	mg/l
079-WC-001-042310	6010B	4/23/2010	Cadmium	0.015	0.005	mg/l
079-WC-001-042310	6010B	4/23/2010	Lead	0.53	0.5	mg/l
079-WC-001-042310	6010B	4/23/2010	Selenium	<0.50	0.5	mg/l
079-WC-001-042310	6010B	4/23/2010	Chromium	<0.010	0.01	mg/l
079-WC-001-042310	7470A	4/23/2010	Mercury	<0.00020	0.0002	mg/l
079-WC-001-042310	8081A	4/23/2010	gamma-BHC (Lindane)	ND	0.0002	mg/l
079-WC-001-042310	8081A	4/23/2010	Chlordane	ND	0.005	mg/l
079-WC-001-042310	8081A	4/23/2010	Endrin	ND	0.0002	mg/l
079-WC-001-042310	8081A	4/23/2010	Heptachlor	ND	0.0002	mg/l
079-WC-001-042310	8081A	4/23/2010	Heptachlor epoxide	ND	0.0002	mg/l
079-WC-001-042310	8081A	4/23/2010	Methoxychlor	ND	0.0002	mg/l
079-WC-001-042310	8081A	4/23/2010	Toxaphene	ND	0.0025	mg/l
079-WC-001-042310	SW846 8082	4/23/2010	Aroclor-1016	ND	36	ug/kg
079-WC-001-042310	SW846 8082	4/23/2010	Aroclor-1221	ND	36	ug/kg
079-WC-001-042310	SW846 8082	4/23/2010	Aroclor-1232	ND	36	ug/kg
079-WC-001-042310	SW846 8082	4/23/2010	Aroclor-1242	ND	36	ug/kg
079-WC-001-042310	SW846 8082	4/23/2010	Aroclor-1248	ND	36	ug/kg
079-WC-001-042310	SW846 8082	4/23/2010	Aroclor-1254	ND	36	ug/kg
079-WC-001-042310	SW846 8082	4/23/2010	Aroclor-1260	99.2	36	ug/kg
079-WC-001-042310	8151A	4/23/2010	2,4-D	ND	0.005	mg/l
079-WC-001-042310	8151A	4/23/2010	2,4,5-TP (Silvex)	ND	0.0015	mg/l
079-WC-001-042310	8260B	4/23/2010	Vinyl Chloride	ND	0.025	mg/l
079-WC-001-042310	8260B	4/23/2010	1,1-Dichloroethene	ND	0.005	mg/l
079-WC-001-042310	8260B	4/23/2010	Chloroform	ND	0.005	mg/l
079-WC-001-042310	8260B	4/23/2010	1,2-Dichloroethane	ND	0.005	mg/l
079-WC-001-042310	8260B	4/23/2010	Methyl Ethyl Ketone	ND	0.1	mg/l
079-WC-001-042310	8260B	4/23/2010	Carbon Tetrachloride	ND	0.005	mg/l
079-WC-001-042310	8260B	4/23/2010	Trichloroethene	ND	0.005	mg/l
079-WC-001-042310	8260B	4/23/2010	Benzene	ND	0.005	mg/l
079-WC-001-042310	8260B	4/23/2010	Tetrachloroethene	ND	0.005	mg/l
079-WC-001-042310	8260B	4/23/2010	Chlorobenzene	ND	0.005	mg/l
079-WC-001-042310	8270C	4/23/2010	o-Cresol			mg/l
079-WC-001-042310	8270C	4/23/2010	m&p-Cresol			mg/l
079-WC-001-042310	8270C	4/23/2010	2,4,6-Trichlorophenol	ND	0.05	mg/l
079-WC-001-042310	8270C	4/23/2010	2,4,5-Trichlorophenol	ND	0.05	mg/l
079-WC-001-042310	8270C	4/23/2010	2-Methylphenol	ND	0.02	mg/l
079-WC-001-042310	8270C	4/23/2010	3&4- Methylphenol	ND	0.02	mg/l
079-WC-001-042310	8270C	4/23/2010	Pentachlorophenol	ND	0.1	mg/l
079-WC-001-042310	8270C	4/23/2010	1,4-Dichlorobenzene	ND	0.02	mg/l
079-WC-001-042310	8270C	4/23/2010	Hexachloroethane	ND	0.05	mg/l
079-WC-001-042310	8270C	4/23/2010	Nitrobenzene	ND	0.02	mg/l
079-WC-001-042310	8270C	4/23/2010	Hexachlorobutadiene	ND	0.01	mg/l
079-WC-001-042310	8270C	4/23/2010	2,4-Dinitrotoluene	ND	0.02	mg/l
079-WC-001-042310	8270C	4/23/2010	Hexachlorobenzene	ND	0.02	mg/l
079-WC-001-042310	8270C	4/23/2010	Pyridine	ND	0.02	mg/l
079-WC-001-042310	9040B	4/23/2010	Corrosivity	8.2	0	std units
079-WC-001-042310	SW846-3545	4/23/2010	Total TPHC (DRO)	1150	7.1	mg/Kg
079-WC-001-042310	SW846-8015B	4/23/2010	Total TPHC (GRO)	ND	14	mg/Kg
079-WC-001-042310	VOLIC 7.3.3	4/23/2010	Reactive Cyanide	<6.1	6.1	mg/kg
079-WC-001-042310	VOLIC 7.3.4	4/23/2010	Reactive Sulfide	<120	120	mg/kg

Sample ID	Method Id	Date Collected	Parameter	Result	RL	Units
SAMPLE ID: 079-WC-002-042310						
079-WC-002-042310	1020A	4/23/2010	Ignitability	>200	0	deg F
079-WC-001-042310	3060A/7199	4/23/2010	Hexavalent Chromium	4.1	0.9	mg/Kg
079-WC-001-042310	3050B	4/23/2010	Chromium	92	1.2	mg/Kg
079-WC-002-042310	6010B	4/23/2010	Silver	<0.010	0.01	mg/l
079-WC-002-042310	6010B	4/23/2010	Arsenic	<0.50	0.5	mg/l
079-WC-002-042310	6010B	4/23/2010	Barium	<1.0	1	mg/l
079-WC-002-042310	6010B	4/23/2010	Cadmium	<0.0050	0.005	mg/l
079-WC-002-042310	6010B	4/23/2010	Lead	<0.50	0.5	mg/l
079-WC-002-042310	6010B	4/23/2010	Selenium	<0.50	0.5	mg/l
079-WC-002-042310	6010B	4/23/2010	Chromium	<0.0050	0.005	mg/kg
079-WC-002-042310	7470A	4/23/2010	Mercury	<0.00020	0.0002	mg/l
079-WC-002-042310	8081A	4/23/2010	gamma-BHC (Lindane)	ND	0.0002	mg/l
079-WC-002-042310	8081A	4/23/2010	Chlordane	ND	0.005	mg/l
079-WC-002-042310	8081A	4/23/2010	Endrin	ND	0.0002	mg/l
079-WC-002-042310	8081A	4/23/2010	Heptachlor	ND	0.0002	mg/l
079-WC-002-042310	8081A	4/23/2010	Heptachlor epoxide	ND	0.0002	mg/l
079-WC-002-042310	8081A	4/23/2010	Methoxychlor	ND	0.0002	mg/l
079-WC-002-042310	8081A	4/23/2010	Toxaphene	ND	0.0025	mg/l
079-WC-002-042310	8082	4/23/2010	Aroclor-1016	ND	33	ug/kg
079-WC-002-042310	8082	4/23/2010	Aroclor-1221	ND	33	ug/kg
079-WC-002-042310	8082	4/23/2010	Aroclor-1232	ND	33	ug/kg
079-WC-002-042310	8082	4/23/2010	Aroclor-1242	ND	33	ug/kg
079-WC-002-042310	8082	4/23/2010	Aroclor-1248	ND	33	ug/kg
079-WC-002-042310	8082	4/23/2010	Aroclor-1254	ND	33	ug/kg
079-WC-002-042310	8082	4/23/2010	Aroclor-1260	109	33	ug/kg
079-WC-002-042310	8151A	4/23/2010	2,4-D	ND	0.005	mg/l
079-WC-002-042310	8151A	4/23/2010	2,4,5-TP (Silvex)	ND	0.0015	mg/l
079-WC-002-042310	8260B	4/23/2010	Vinyl Chloride	ND	0.025	mg/l
079-WC-002-042310	8260B	4/23/2010	1,1-Dichloroethene	ND	0.005	mg/l
079-WC-002-042310	8260B	4/23/2010	Chloroform	ND	0.005	mg/l
079-WC-002-042310	8260B	4/23/2010	1,2-Dichloroethane	ND	0.005	mg/l
079-WC-002-042310	8260B	4/23/2010	Methyl Ethyl Ketone	ND	0.1	mg/l
079-WC-002-042310	8260B	4/23/2010	Carbon Tetrachloride	ND	0.005	mg/l
079-WC-002-042310	8260B	4/23/2010	Trichloroethene	ND	0.005	mg/l
079-WC-002-042310	8260B	4/23/2010	Benzene	ND	0.005	mg/l
079-WC-002-042310	8260B	4/23/2010	Tetrachloroethene	ND	0.005	mg/l
079-WC-002-042310	8260B	4/23/2010	Chlorobenzene	ND	0.005	mg/l
079-WC-002-042310	8270C	4/23/2010	o-Cresol		0.04	mg/l
079-WC-002-042310	8270C	4/23/2010	m&p-Cresol		0.04	mg/l
079-WC-002-042310	8270C	4/23/2010	2,4,6-Trichlorophenol	ND	0.005	mg/l
079-WC-002-042310	8270C	4/23/2010	2,4,5-Trichlorophenol	ND	0.005	mg/l
079-WC-002-042310	8270C	4/23/2010	Pentachlorophenol	ND	0.1	mg/l
079-WC-002-042310	8270C	4/23/2010	1,4-Dichlorobenzene	ND	0.02	mg/l
079-WC-002-042310	8270C	4/23/2010	Hexachloroethane	ND	0.01	mg/l
079-WC-002-042310	8270C	4/23/2010	Nitrobenzene	ND	0.02	mg/l
079-WC-002-042310	8270C	4/23/2010	Hexachlorobutadiene	ND	0.01	mg/l
079-WC-002-042310	8270C	4/23/2010	2,4-Dinitrotoluene	ND	0.02	mg/l
079-WC-002-042310	8270C	4/23/2010	Hexachlorobenzene	ND	0.02	mg/l
079-WC-002-042310	8270C	4/23/2010	Pyridine	ND	0.02	mg/l
079-WC-002-042310	ASTM D1498-76M	4/23/2010	Corrosivity	7.98		std units
079-WC-002-042310	SW846 8015	4/23/2010	Total TPHC (DRO)	84.9	6.6	mg/Kg
079-WC-002-042310	SW846 8015B	4/23/2010	Total TPHC (GRO)	ND	13	mg/Kg
079-WC-002-042310	CHAP7/9012B	4/23/2010	Reactive Cyanide	<5.7	5.7	mg/kg
079-WC-002-042310	CHAP7/9034	4/23/2010	Reactive Sulfide	<110	110	mg/kg

Table Notes:

ND - The compound was not detected at the indicated concentration.

APPENDIX G
LABORATORY DATA PACKAGES, SOIL REMOVAL PROGRAM



05/21/10

Technical Report for

Honeywell International Inc.

HLANJPR: SA-5, Site 079, Jersey City, NJ

Accutest Job Number: JA44929

Sampling Date: 04/23/10



Report to:

Mactec

AGIOUZELIS@mactec.com

ATTN: Telly Giouzelis

Total number of pages in report: 37



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

David N. Speis
David N. Speis
VP Ops, Laboratory Director

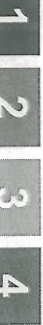
Client Service contact: Marty Vitanza 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

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Test results relate only to samples analyzed.

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Sample Summary

Honeywell International Inc.

Job No: JA44929

HLANJPR: SA-5, Site 079, Jersey City, NJ

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JA44929-1	04/23/10	09:10	BS	04/23/10	SO Soil	079-WC-001-042310
JA44929-1A	04/23/10	09:10	BS	04/23/10	SO Soil	079-WC-001-042310
JA44929-1AR	04/23/10	09:10	BS	04/23/10	SO Soil	079-WC-001-042310
JA44929-1B	04/23/10	09:10	BS	04/23/10	SO Soil	079-WC-001-042310
JA44929-2	04/23/10	09:30	BS	04/23/10	SO Soil	079-WC-002-042310
JA44929-2A	04/23/10	09:30	BS	04/23/10	SO Soil	079-WC-002-042310
JA44929-2AR	04/23/10	09:30	BS	04/23/10	SO Soil	079-WC-002-042310
JA44929-2B	04/23/10	09:30	BS	04/23/10	SO Soil	079-WC-002-042310

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Honeywell International Inc.

Job No JA44929

Site: HLANJPR: SA-5, Site 079, Jersey City, NJ

Report Date 5/12/2010 10:23:03 AM

On 04/23/2010, 2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 2.4 C. Samples were intact and properly preserved, unless noted below. An Accutest Job Number of JA44929 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: LEACHATE Batch ID: GP53354

- Sample(s) JA44806-ILS were used as the QC samples indicated.
- GP53354-LS5 for 2-Butanone (MEK): Outside control limits due to matrix interference.

Matrix: LEACHATE Batch ID: VL5768

- JA44900-1MSD for 2-Butanone (MEK): Outside control limits due to matrix interference.
- JA44900-1MS for 2-Butanone (MEK): Outside control limits due to matrix interference.

Extractables by GCMS By Method SW846 8270C

Matrix: LEACHATE Batch ID: OP43301

- All samples were extracted within the recommended method holding time.
- Sample(s) JA44739-ILS were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Volatiles by GC By Method SW846 8015B

Matrix: SO Batch ID: GPF2025

- All samples were analyzed within the recommended method holding time.
- Sample(s) JA44836-46MS, JA44836-46MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Extractables by GC By Method SW846 8081A

Matrix: LEACHATE Batch ID: OP43303

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA44739-ILS were used as the QC samples indicated.

Extractables by GC By Method SW846 8082

Matrix: SO Batch ID: OP43278

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) OP43278-MSMSD, JA44912-1MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Aroclor 1016, Aroclor 1260 are outside control limits. Probable cause due to matrix interference.
- RPD(s) for MSD for Aroclor 1016, Aroclor 1260 are outside control limits for sample OP43278-MSD. Probable cause due to sample homogeneity.
- OP43278-MSD for Aroclor 1016: Analytical precision exceeds standard laboratory control limits.
- JA44929-1A for Decachlorobiphenyl: Outside control limits due to matrix interference.
- OP43278-MS for Aroclor 1016: Outside of in house control limits.
- OP43278-MS for Aroclor 1260: Outside of in house control limits.
- OP43278-MS for Decachlorobiphenyl: Outside of in house control limits.
- OP43278-MS for Tetrachloro-m-xylene: Outside of in house control limits.
- OP43278-MSD for Aroclor 1260: Analytical precision exceeds standard laboratory control limits.

Matrix: SO Batch ID: OP43308

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA44206-IMS, JA44206-1MSD, OP43308-MSMSD were used as the QC samples indicated.
- RPD(s) for MSD for Aroclor 1016, Aroclor 1260 are outside control limits for sample OP43308-MSD. Probable cause due to sample homogeneity.
- OP43308-MSD for Aroclor 1260: Analytical precision exceeds standard laboratory control limits.
- OP43308-MSD for Aroclor 1016: Analytical precision exceeds standard laboratory control limits.
- JA44929-2A for Tetrachloro-m-xylene: Outside control limits due to matrix interference.

Extractables by GC By Method SW846 8151

Matrix: LEACHATE Batch ID: OP43312

- All samples were extracted within the recommended method holding time.
- Sample(s) JA44739-1LS were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Extractables by GC By Method SW846-8015

Matrix: SO Batch ID: OP43275

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA44822-1MS, JA44822-1MSD were used as the QC samples indicated.

Metals By Method SW846 6010B

Matrix: LEACHATE **Batch ID:** MP52441

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA44806-1MS, JA44806-1MSD, JA44806-1SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Arsenic, Lead, Selenium are outside control limits for sample MP52441-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: SO **Batch ID:** MP52460

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA45091-1MSD, JA45091-1SDL, JA45091-1MS were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Chromium are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- RPD(s) for MSD for Chromium are outside control limits for sample MP52460-S2. High rpd due to possible sample nonhomogeneity.
- RPD(s) for Serial Dilution for Chromium are outside control limits for sample MP52460-SD1. Serial dilution indicates possible matrix interference.

Metals By Method SW846 7470A

Matrix: LEACHATE **Batch ID:** MP52450

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA44806-1MS, JA44806-1MSD were used as the QC samples for metals.
- Matrix Spike Duplicate Recovery(s) for Mercury are outside control limits. Probable cause due to matrix interference.

Wet Chemistry By Method ASTM D1498-76M

Matrix: SO **Batch ID:** GN36865

- Sample(s) JA44929-1DUP were used as the QC samples for Redox Potential Vs H2.

Wet Chemistry By Method SM18 2540G

Matrix: SO **Batch ID:** GN37025

- The data for SM18 2540G meets quality control requirements.

Wet Chemistry By Method SW846 3060A/7199

Matrix: SO Batch ID: GP53399

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA44929-1APS, JA44929-1AMS, JA44929-1ADUP were used as the QC samples for Chromium, Hexavalent.
- Matrix Spike Recovery(s) for Chromium, Hexavalent are outside control limits. Soluble XCR matrix spike recovery indicates possible matrix interference. Good post spike recovery (90.4%) on this sample.
- RPD(s) for Duplicate for Chromium, Hexavalent are outside control limits for sample GP53399-D1. High RPD due to possible sample nonhomogeneity.
- GP53399-S2 for Chromium, Hexavalent: Good recovery on insoluble XCR matrix spike. See additional comments on soluble matrix spike recovery.

Matrix: SO Batch ID: GP53483

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA44929-1ARDUP, JA44929-1ARPS, JA44929-1ARMS were used as the QC samples for Chromium, Hexavalent.
- Matrix Spike Recovery(s) for Chromium, Hexavalent are outside control limits. Soluble XCR matrix spike recovery indicates possible matrix interference. Good post spike recovery (107%) on this sample.
- GP53483-S2 for Chromium, Hexavalent: Good recovery on insoluble XCR matrix spike. See additional comments on soluble matrix spike recovery.

Wet Chemistry By Method SW846 9045C,D

Matrix: SO Batch ID: GN36862

- Sample(s) JA44929-1DUP were used as the QC samples for pH.

Wet Chemistry By Method SW846 CHAP7/9012 B

Matrix: SO Batch ID: GP53342

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA44739-1DUP were used as the QC samples for Cyanide Reactivity.

Wet Chemistry By Method SW846 CHAP7/9034

Matrix: SO Batch ID: GP53343

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA44739-1DUP, JA44739-1MS were used as the QC samples for Sulfide Reactivity.

Wet Chemistry By Method SW846 CHAP7/ASTM D93

Matrix: SO Batch ID: GN36908

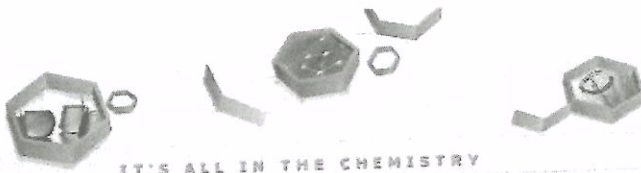
- Sample(s) JA45099-1DUP were used as the QC samples for Ignitability (Flashpoint).

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

Wednesday, May 12, 2010



IT'S ALL IN THE CHEMISTRY

Sample Results

Report of Analysis

Report of Analysis

3.1
3

Client Sample ID: 079-WC-001-042310	Date Sampled: 04/23/10
Lab Sample ID: JA44929-1	Date Received: 04/23/10
Matrix: SO - Soil	Percent Solids: 82.2
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Redox Potential Vs H2	291		mv	1	04/28/10	ST	ASTM D1498-76M
Solids, Percent	82.2		%	1	05/03/10	RI	SM18 2540G
pH	8.20		su	1	04/28/10	ST	SW846 9045C,D

RL = Reporting Limit

Report of Analysis

32
3

Client Sample ID: 079-WC-001-042310	Date Sampled: 04/23/10
Lab Sample ID: JA44929-1A	Date Received: 04/23/10
Matrix: SO - Soil	Percent Solids: 82.2
Method: SW846 8015B	
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PF81970.D	1	04/27/10	CY	n/a	n/a	GPF2025
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.1 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	14	1.3	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	98%		66-119%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

3.2
3

Client Sample ID: 079-WC-001-042310	Date Sampled: 04/23/10
Lab Sample ID: JA44929-1A	Date Received: 04/23/10
Matrix: SO - Soil	Percent Solids: 82.2
Method: SW846 8082 SW846 3545	
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX94621.D	1	04/26/10	OPM	04/24/10	OP43278	GXX3754
Run #2							

Run #	Initial Weight	Final Volume
Run #1	17.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	36	13	ug/kg	
11104-28-2	Aroclor 1221	ND	36	24	ug/kg	
11141-16-5	Aroclor 1232	ND	36	12	ug/kg	
53469-21-9	Aroclor 1242	ND	36	13	ug/kg	
12672-29-6	Aroclor 1248	ND	36	7.1	ug/kg	
11097-69-1	Aroclor 1254	ND	36	9.0	ug/kg	
11096-82-5	Aroclor 1260	99.2	36	14	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	67%		33-141%
877-09-8	Tetrachloro-m-xylene	78%		33-141%
2051-24-3	Decachlorobiphenyl	144%		32-154%
2051-24-3	Decachlorobiphenyl	186% ^a		32-154%

(a) Outside control limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

3.2
3

Client Sample ID: 079-WC-001-042310	Date Sampled: 04/23/10
Lab Sample ID: JA44929-1A	Date Received: 04/23/10
Matrix: SO - Soil	Percent Solids: 82.2
Method: SW846-8015 SW846 3545	
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3Z23036.D	1	04/24/10	DNM	04/23/10	OP43275	G3Z690
Run #2							

Run #	Initial Weight	Final Volume
Run #1	17.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	1150	7.1	3.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	101%		17-148%
16416-32-3	Tetracosane-d50	45%		29-151%
438-22-2	5a-Androstane	61%		19-161%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

3.2
3

Client Sample ID: 079-WC-001-042310	Date Sampled: 04/23/10
Lab Sample ID: JA44929-1A	Date Received: 04/23/10
Matrix: SO - Soil	Percent Solids: 82.2
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Chromium	293	1.2	mg/kg	1	04/29/10	04/30/10 GT	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA24215
(2) Prep QC Batch: MP52460

RL = Reporting Limit

Report of Analysis

3.2
3

Client Sample ID: 079-WC-001-042310	Date Sampled: 04/23/10
Lab Sample ID: JA44929-1A	Date Received: 04/23/10
Matrix: SO - Soil	Percent Solids: 82.2
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	4.4	0.98	mg/kg	2	04/30/10 13:14	BD	SW846 3060A/7199
Cyanide Reactivity	< 6.1	6.1	mg/kg	1	04/29/10 15:01	AE	SW846 CHAP7/9012 B
Ignitability (Flashpoint)	> 200		Deg. F	1	04/29/10	LMM	SW846 CHAP7/ASTM D93
Sulfide Reactivity	< 120	120	mg/kg	1	04/29/10	JA	SW846 CHAP7/9034

RL = Reporting Limit

Report of Analysis

Client Sample ID: 079-WC-001-042310	Date Sampled: 04/23/10
Lab Sample ID: JA44929-1AR	Date Received: 04/23/10
Matrix: SO - Soil	Percent Solids: 82.2
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	40.9	3.9	mg/kg	8	05/07/10 12:56	BD	SW846 3060A/7199

RL = Reporting Limit

Report of Analysis

3.4
3

Client Sample ID: 079-WC-001-042310	Date Sampled: 04/23/10
Lab Sample ID: JA44929-1B	Date Received: 04/23/10
Matrix: SO - Soil	Percent Solids: 82.2
Method: SW846 8260B SW846 1311	
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L236393.D	5	04/29/10	MAH	04/26/10	GP53354	VL5768
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCLP Leachate

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
71-43-2	Benzene	ND	D018	0.50	0.0050	0.0012	mg/l	
78-93-3	2-Butanone (MEK)	ND	D035	200	0.10	0.0081	mg/l	
56-23-5	Carbon tetrachloride	ND	D019	0.50	0.0050	0.0013	mg/l	
108-90-7	Chlorobenzene	ND	D021	100	0.0050	0.0019	mg/l	
67-66-3	Chloroform	ND	D022	6.0	0.0050	0.0012	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.0050	0.0014	mg/l	
107-06-2	1,2-Dichloroethane	ND	D028	0.50	0.0050	0.0017	mg/l	
75-35-4	1,1-Dichloroethene	ND	D029	0.70	0.0050	0.0020	mg/l	
127-18-4	Tetrachloroethene	ND	D039	0.70	0.0050	0.0013	mg/l	
79-01-6	Trichloroethene	ND	D040	0.50	0.0050	0.0012	mg/l	
75-01-4	Vinyl chloride	ND	D043	0.20	0.025	0.0022	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		76-120%
17060-07-0	1,2-Dichloroethane-D4	99%		64-135%
2037-26-5	Toluene-D8	99%		76-117%
460-00-4	4-Bromofluorobenzene	84%		72-122%

ND = Not detected MDL - Method Detection Limit
 MCL = Maximum Contamination Level (40 CFR 261 6/96)
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

3.4
3

Client Sample ID: 079-WC-001-042310	Date Sampled: 04/23/10
Lab Sample ID: JA44929-1B	Date Received: 04/23/10
Matrix: SO - Soil	Percent Solids: 82.2
Method: SW846 8270C SW846 3510C	
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	3M18945.D	1	04/29/10	KLS	04/28/10	OP43301	E3M814

Run #1	Initial Volume	Final Volume
Run #2	100 ml	1.0 ml

TCLP Leachate method SW846 1311

ABN TCLP Leachate

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND	D023	200	0.020	0.011	mg/l	
	3,4-Methylphenol	ND	D024	200	0.020	0.010	mg/l	
87-86-5	Pentachlorophenol	ND	D037	100	0.10	0.0080	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND	D041	400	0.050	0.013	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	D042	2.0	0.050	0.012	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.020	0.0039	mg/l	
121-14-2	2,4-Dinitrotoluene	ND	D030	0.13	0.020	0.0022	mg/l	
118-74-1	Hexachlorobenzene	ND	D032	0.13	0.020	0.0037	mg/l	
87-68-3	Hexachlorobutadiene	ND	D033	0.50	0.010	0.0037	mg/l	
67-72-1	Hexachloroethane	ND	D034	3.0	0.050	0.0026	mg/l	
98-95-3	Nitrobenzene	ND	D036	2.0	0.020	0.0025	mg/l	
110-86-1	Pyridine	ND	D038	5.0	0.020	0.0027	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%		13-68%
4165-62-2	Phenol-d5	31%		10-49%
118-79-6	2,4,6-Tribromophenol	82%		37-130%
4165-60-0	Nitrobenzene-d5	86%		25-112%
321-60-8	2-Fluorobiphenyl	80%		31-106%
1718-51-0	Terphenyl-d14	92%		14-122%

ND = Not detected MDL - Method Detection Limit
 MCL = Maximum Contamination Level (40 CFR 261 6/96)
 E = Indicates value exceeds calibration range
 J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

3.4
3

Client Sample ID: 079-WC-001-042310	Date Sampled: 04/23/10
Lab Sample ID: JA44929-1B	Date Received: 04/23/10
Matrix: SO - Soil	Percent Solids: 82.2
Method: SW846 8151 SW846 3510C	
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	WW89956.D	1	04/29/10	TDR	04/28/10	OP43312	GWW3139
Run #2							

Run #	Initial Volume	Final Volume
Run #1	100 ml	10.0 ml
Run #2		

TCLP Leachate method SW846 1311

Herbicide TCLP Leachate

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
94-75-7	2,4-D	ND	D016	10	0.0050	0.0013	mg/l	
93-72-1	2,4,5-TP (Silvex)	ND	D017	1.0	0.0015	0.00018	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	104%		50-142%
19719-28-9	2,4-DCAA	87%		50-142%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 261 6/96)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

3.4
3

Client Sample ID: 079-WC-001-042310	Date Sampled: 04/23/10
Lab Sample ID: JA44929-1B	Date Received: 04/23/10
Matrix: SO - Soil	Percent Solids: 82.2
Method: SW846 8081A SW846 3510C	
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G52857.D	1	04/29/10	OPM	04/28/10	OP43303	G1G1956
Run #2							

Run #	Initial Volume	Final Volume
Run #1	100 ml	10.0 ml
Run #2		

TCLP Leachate method SW846 1311

Pesticide TCLP Leachate

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
58-89-9	gamma-BHC (Lindane)	ND	D013	0.40	0.00020	0.000011	mg/l	
12789-03-6	Chlordane	ND	D020	0.030	0.0050	0.000079	mg/l	
72-20-8	Endrin	ND	D012	0.020	0.00020	0.000031	mg/l	
76-44-8	Heptachlor	ND	D031	0.0080	0.00020	0.000020	mg/l	
1024-57-3	Heptachlor epoxide	ND	D031	0.0080	0.00020	0.000016	mg/l	
72-43-5	Methoxychlor	ND	D014	10	0.00020	0.000068	mg/l	
8001-35-2	Toxaphene	ND	D015	0.50	0.0025	0.0021	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	76%		30-137%
877-09-8	Tetrachloro-m-xylene	68%		30-137%
2051-24-3	Decachlorobiphenyl	82%		10-137%
2051-24-3	Decachlorobiphenyl	83%		10-137%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 261 6/96)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

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3

Client Sample ID: 079-WC-001-042310 Lab Sample ID: JA44929-1B Matrix: SO - Soil	Date Sampled: 04/23/10 Date Received: 04/23/10 Percent Solids: 82.2
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	< 0.50	D004	5.0	0.50	mg/l	1	04/28/10	04/29/10 ND	SW846 6010B ¹	SW846 3010A ³
Barium	1.1	D005	100	1.0	mg/l	1	04/28/10	04/29/10 ND	SW846 6010B ¹	SW846 3010A ³
Cadmium	0.015	D006	1.0	0.0050	mg/l	1	04/28/10	04/29/10 ND	SW846 6010B ¹	SW846 3010A ³
Chromium	< 0.010	D007	5.0	0.010	mg/l	1	04/28/10	04/29/10 ND	SW846 6010B ¹	SW846 3010A ³
Lead	0.53	D008	5.0	0.50	mg/l	1	04/28/10	04/29/10 JF	SW846 7470A ²	SW846 7470A ⁴
Mercury	< 0.00020	D009	0.20	0.00020	mg/l	1	04/28/10	04/29/10 ND	SW846 6010B ¹	SW846 3010A ³
Selenium	< 0.50	D010	1.0	0.50	mg/l	1	04/28/10	04/29/10 ND	SW846 6010B ¹	SW846 3010A ³
Silver	< 0.010	D011	5.0	0.010	mg/l	1	04/28/10	04/29/10 ND	SW846 6010B ¹	SW846 3010A ³

- (1) Instrument QC Batch: MA24199
- (2) Instrument QC Batch: MA24202
- (3) Prep QC Batch: MP52441
- (4) Prep QC Batch: MP52450

RL = Reporting Limit
 MCL = Maximum Contamination Level (40 CFR 261 6/96)

Report of Analysis

Client Sample ID: 079-WC-002-042310

Lab Sample ID: JA44929-2

Matrix: SO - Soil

Date Sampled: 04/23/10

Date Received: 04/23/10

Percent Solids: 87.6

Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Redox Potential Vs H2	282		mv	1	04/28/10	ST	ASTM D1498-76M
Solids, Percent	87.6		%	1	05/03/10	RI	SM18 2540G
pH	7.98		su	1	04/28/10	ST	SW846 9045C,D

RL = Reporting Limit

Report of Analysis

3.6
3

Client Sample ID: 079-WC-002-042310	Date Sampled: 04/23/10
Lab Sample ID: JA44929-2A	Date Received: 04/23/10
Matrix: SO - Soil	Percent Solids: 87.6
Method: SW846 8015B	
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PF81971.D	1	04/27/10	CY	n/a	n/a	GPF2025
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	13	1.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	97%		66-119%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

3.6
3

Client Sample ID: 079-WC-002-042310	Date Sampled: 04/23/10
Lab Sample ID: JA44929-2A	Date Received: 04/23/10
Matrix: SO - Soil	Percent Solids: 87.6
Method: SW846 8082 SW846 3545	
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB88201.D	1	04/29/10	VDT	04/27/10	OP43308	GAB5512
Run #2							

Run #	Initial Weight	Final Volume
Run #1	17.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	33	12	ug/kg	
11104-28-2	Aroclor 1221	ND	33	22	ug/kg	
11141-16-5	Aroclor 1232	ND	33	11	ug/kg	
53469-21-9	Aroclor 1242	ND	33	12	ug/kg	
12672-29-6	Aroclor 1248	ND	33	6.6	ug/kg	
11097-69-1	Aroclor 1254	ND	33	8.4	ug/kg	
11096-82-5	Aroclor 1260	109	33	13	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	151% ^a		33-141%
877-09-8	Tetrachloro-m-xylene	112%		33-141%
2051-24-3	Decachlorobiphenyl	102%		32-154%
2051-24-3	Decachlorobiphenyl	113%		32-154%

(a) Outside control limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

3.6
3

Client Sample ID: 079-WC-002-042310	Date Sampled: 04/23/10
Lab Sample ID: JA44929-2A	Date Received: 04/23/10
Matrix: SO - Soil	Percent Solids: 87.6
Method: SW846-8015 SW846 3545	
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3Z23037.D	1	04/24/10	DNM	04/23/10	OP43275	G3Z690
Run #2							

Run #	Initial Weight	Final Volume
Run #1	17.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	84.9	6.6	3.3	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	80%		17-148%
16416-32-3	Tetracosane-d50	51%		29-151%
438-22-2	5a-Androstane	53%		19-161%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

3.6

3

Client Sample ID: 079-WC-002-042310	Date Sampled: 04/23/10
Lab Sample ID: JA44929-2A	Date Received: 04/23/10
Matrix: SO - Soil	Percent Solids: 87.6
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Chromium	92.0	1.2	mg/kg	1	04/29/10	05/01/10 CT	SW846 6010B ¹	SW846 3050B ²

- (1) Instrument QC Batch: MA24215
- (2) Prep QC Batch: MP52460

RL = Reporting Limit

Report of Analysis

3.6
3

Client Sample ID: 079-WC-002-042310
Lab Sample ID: JA44929-2A
Matrix: SO - Soil
Date Sampled: 04/23/10
Date Received: 04/23/10
Percent Solids: 87.6
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	4.1	0.90	mg/kg	2	04/30/10 13:33	BD	SW846 3060A/7199
Cyanide Reactivity	< 5.7	5.7	mg/kg	1	04/29/10 15:02	AE	SW846 CHAP7/9012 B
Ignitability (Flashpoint)	> 200		Deg. F	1	04/29/10	LMM	SW846 CHAP7/ASTM D93
Sulfide Reactivity	< 110	110	mg/kg	1	04/29/10	JA	SW846 CHAP7/9034

RL = Reporting Limit

Report of Analysis

3.7
3

Client Sample ID: 079-WC-002-042310	Date Sampled: 04/23/10
Lab Sample ID: JA44929-2AR	Date Received: 04/23/10
Matrix: SO - Soil	Percent Solids: 87.6
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	10.2	0.92	mg/kg	2	05/07/10 12:08	BD	SW846 3060A/7199

RL = Reporting Limit

Report of Analysis

Client Sample ID: 079-WC-002-042310	Date Sampled: 04/23/10
Lab Sample ID: JA44929-2B	Date Received: 04/23/10
Matrix: SO - Soil	Percent Solids: 87.6
Method: SW846 8260B SW846 1311	
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L236394.D	5	04/29/10	MAH	04/26/10	GP53354	VL5768
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

TCLP Leachate method SW846 1311

VOA TCLP Leachate

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
71-43-2	Benzene	ND	D018	0.50	0.0050	0.0012	mg/l	
78-93-3	2-Butanone (MEK)	ND	D035	200	0.10	0.0081	mg/l	
56-23-5	Carbon tetrachloride	ND	D019	0.50	0.0050	0.0013	mg/l	
108-90-7	Chlorobenzene	ND	D021	100	0.0050	0.0019	mg/l	
67-66-3	Chloroform	ND	D022	6.0	0.0050	0.0012	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.0050	0.0014	mg/l	
107-06-2	1,2-Dichloroethane	ND	D028	0.50	0.0050	0.0017	mg/l	
75-35-4	1,1-Dichloroethene	ND	D029	0.70	0.0050	0.0020	mg/l	
127-18-4	Tetrachloroethene	ND	D039	0.70	0.0050	0.0013	mg/l	
79-01-6	Trichloroethene	ND	D040	0.50	0.0050	0.0012	mg/l	
75-01-4	Vinyl chloride	ND	D043	0.20	0.025	0.0022	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		76-120%
17060-07-0	1,2-Dichloroethane-D4	96%		64-135%
2037-26-5	Toluene-D8	98%		76-117%
460-00-4	4-Bromofluorobenzene	85%		72-122%

ND = Not detected
 MDL = Method Detection Limit
 MCL = Maximum Contamination Level (40 CFR 261 6/96)
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 079-WC-002-042310	Date Sampled: 04/23/10
Lab Sample ID: JA44929-2B	Date Received: 04/23/10
Matrix: SO - Soil	Percent Solids: 87.6
Method: SW846 8270C SW846 3510C	
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M18946.D	1	04/29/10	KLS	04/28/10	OP43301	E3M814
Run #2							

Run #	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2		

TCLP Leachate method SW846 1311

ABN TCLP Leachate

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND	D023	200	0.020	0.011	mg/l	
	3&4-Methylphenol	ND	D024	200	0.020	0.010	mg/l	
87-86-5	Pentachlorophenol	ND	D037	100	0.10	0.0080	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND	D041	400	0.050	0.013	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	D042	2.0	0.050	0.012	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.020	0.0039	mg/l	
121-14-2	2,4-Dinitrotoluene	ND	D030	0.13	0.020	0.0022	mg/l	
118-74-1	Hexachlorobenzene	ND	D032	0.13	0.020	0.0037	mg/l	
87-68-3	Hexachlorobutadiene	ND	D033	0.50	0.010	0.0037	mg/l	
67-72-1	Hexachloroethane	ND	D034	3.0	0.050	0.0026	mg/l	
98-95-3	Nitrobenzene	ND	D036	2.0	0.020	0.0025	mg/l	
110-86-1	Pyridine	ND	D038	5.0	0.020	0.0027	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	51%		13-68%
4165-62-2	Phenol-d5	35%		10-49%
118-79-6	2,4,6-Tribromophenol	88%		37-130%
4165-60-0	Nitrobenzene-d5	91%		25-112%
321-60-8	2-Fluorobiphenyl	82%		31-106%
1718-51-0	Terphenyl-d14	92%		14-122%

ND = Not detected MDL - Method Detection Limit
 MCL = Maximum Contamination Level (40 CFR 261 6/96)
 E = Indicates value exceeds calibration range
 J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 079-WC-002-042310	Date Sampled: 04/23/10
Lab Sample ID: JA44929-2B	Date Received: 04/23/10
Matrix: SO - Soil	Percent Solids: 87.6
Method: SW846 8151 SW846 3510C	
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	WW89957.D	1	04/29/10	TDR	04/28/10	OP43312	GW3139
Run #2							

Run #	Initial Volume	Final Volume
Run #1	100 ml	10.0 ml
Run #2		

TCLP Leachate method SW846 1311

Herbicide TCLP Leachate

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
94-75-7	2,4-D	ND	D016	10	0.0050	0.0013	mg/l	
93-72-1	2,4,5-TP (Silvex)	ND	D017	1.0	0.0015	0.00018	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	104%		50-142%
19719-28-9	2,4-DCAA	98%		50-142%

ND = Not detected
 MCL = Maximum Contamination Level (40 CFR 261 6/96)
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 079-WC-002-042310	Date Sampled: 04/23/10
Lab Sample ID: JA44929-2B	Date Received: 04/23/10
Matrix: SO - Soil	Percent Solids: 87.6
Method: SW846 8081A SW846 3510C	
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G52858.D	1	04/29/10	OPM	04/28/10	OP43303	G1G1956
Run #2							

Run #	Initial Volume	Final Volume
Run #1	100 ml	10.0 ml
Run #2		

TCLP Leachate method SW846 1311

Pesticide TCLP Leachate

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
58-89-9	gamma-BHC (Lindane)	ND	D013	0.40	0.00020	0.000011	mg/l	
12789-03-6	Chlordane	ND	D020	0.030	0.0050	0.00079	mg/l	
72-20-8	Endrin	ND	D012	0.020	0.00020	0.000031	mg/l	
76-44-8	Heptachlor	ND	D031	0.0080	0.00020	0.000020	mg/l	
1024-57-3	Heptachlor epoxide	ND	D031	0.0080	0.00020	0.000016	mg/l	
72-43-5	Methoxychlor	ND	D014	10	0.00020	0.000068	mg/l	
8001-35-2	Toxaphene	ND	D015	0.50	0.0025	0.0021	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	81%		30-137%
877-09-8	Tetrachloro-m-xylene	75%		30-137%
2051-24-3	Decachlorobiphenyl	85%		10-137%
2051-24-3	Decachlorobiphenyl	85%		10-137%

ND = Not detected MDL - Method Detection Limit
 MCL = Maximum Contamination Level (40 CFR 261 6/96)
 E = Indicates value exceeds calibration range
 J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

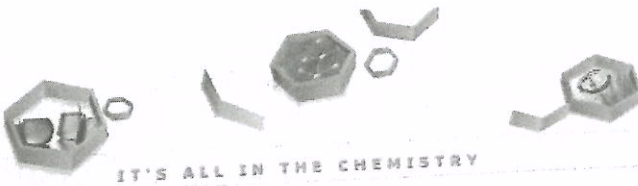
Client Sample ID: 079-WC-002-042310	Date Sampled: 04/23/10
Lab Sample ID: JA44929-2B	Date Received: 04/23/10
Matrix: SO - Soil	Percent Solids: 87.6
Project: HLANJPR: SA-5, Site 079, Jersey City, NJ	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	< 0.50	D004	5.0	0.50	mg/l	1	04/28/10	04/29/10 ND	SW846 6010B ¹	SW846 3010A ³
Barium	< 1.0	D005	100	1.0	mg/l	1	04/28/10	04/29/10 ND	SW846 6010B ¹	SW846 3010A ³
Cadmium	< 0.0050	D006	1.0	0.0050	mg/l	1	04/28/10	04/29/10 ND	SW846 6010B ¹	SW846 3010A ³
Chromium	< 0.010	D007	5.0	0.010	mg/l	1	04/28/10	04/29/10 ND	SW846 6010B ¹	SW846 3010A ³
Lead	< 0.50	D008	5.0	0.50	mg/l	1	04/28/10	04/29/10 JF	SW846 7470A ²	SW846 7470A ⁴
Mercury	< 0.00020	D009	0.20	0.00020	mg/l	1	04/28/10	04/29/10 ND	SW846 6010B ¹	SW846 3010A ³
Selenium	< 0.50	D010	1.0	0.50	mg/l	1	04/28/10	04/29/10 ND	SW846 6010B ¹	SW846 3010A ³
Silver	< 0.010	D011	5.0	0.010	mg/l	1	04/28/10	04/29/10 ND	SW846 6010B ¹	SW846 3010A ³

- (1) Instrument QC Batch: MA24199
- (2) Instrument QC Batch: MA24202
- (3) Prep QC Batch: MP52441
- (4) Prep QC Batch: MP52450

RL = Reporting Limit
MCL = Maximum Contamination Level (40 CFR 261 6/96)



IT'S ALL IN THE CHEMISTRY

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Job Change Order: JA44929_4/28/2010

Requested Date:	4/28/2010	Received Date:	4/23/2010
Account Name:	Honeywell International Inc.	Due Date:	4/27/2010
Project Description:	HLANJPR: SA-5, Site 079, Jersey City, NJ	Deliverable:	FULT1
CSR:	MV	TAT (Days):	7

Sample #: JA44929-1, 2

Change: Change t/a to 7 day. If possible, obtain data by 5/3, or the soonest we can.

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Above Changes

Telly Guiouzelis

Date: 4/28/2010

JA44929: Chain of Custody
Page 1 of 4

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JA44929 Client: MACTEC-NJ Immediate Client Services Action Required: Yes
 Date / Time Received: 4/23/2010 1435 Delivery Method: Client Client Service Action Required at Login: No
 Project: HONEYWELL No. Coolers: 1 Airbill #'s: _____

Cooler Security Y or N Y or N
 1. Custody Seals Present: 3. COC Present:
 2. Custody Seals Intact: 4. Smpl Dates/Time OK

Cooler Temperature Y or N
 1. Temp criteria achieved:
 2. Cooler temp verification: Infrared gun
 3. Cooler media: Ice (bag)

Quality Control Preservation Y N NA
 1. Trip Blank present / cooler:
 2. Trip Blank listed on COC:
 3. Samples preserved properly:
 4. VOCs headspace free:

Sample Integrity - Documentation
 1. Sample labels present on bottles:
 2. Container labeling complete:
 3. Sample container label / COC agree:

Sample Integrity - Condition
 1. Sample recvd within HT:
 2. All containers accounted for:
 3. Condition of sample: Intact

Sample Integrity - Instructions
 1. Analysis requested is clear:
 2. Bottles received for unspecified tests
 3. Sufficient volume recvd for analysis:
 4. Compositing instructions clear:
 5. Filtering instructions clear:

Comments
 -1, -2 NO SEPARATE VO VOL REC'D

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Accutest Laboratories
V: 732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www.accutest.com

JA44929: Chain of Custody
Page 2 of 4



Sample Receipt Summary - Problem Resolution

Accutest Job Number: JA44929

Response Date 4/28/2010

CSR: Marty Vitanza

Response: Client Notified (Telly). Proceed as noted. Run VOC and GRO from only single jar provided.
(Log-in- Please comment , low sampe volume provided, use sparingly)

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Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499


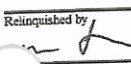

Dayton, New Jersey
www.accutest.com

JA44929: Chain of Custody
Page 3 of 4

50

PN

Honeywell Chain Of Custody / Analysis Request

ACUTEST 100 Corporate Village, Building B Suite 130, Dayton, New Jersey 08810 908-329-0200 Phone, 732-329-3499 Fax		Privileged & Confidential <input checked="" type="checkbox"/>		Site Name: HUDSONCO		AESI Ref: 38439.43925 COC #: 57463-042310																																																																																																																																																																																																																																																																														
Client Contact: (name, co., address) MACTEC Engineering and Consulting, Inc 600 American Metro Blvd., Suite 113 Hamilton, NJ 08619 gshust@mactec.com		ID# To: Andrew Shust (MACTEC)		Location of Site: SA 5, Sites 079		Lab Use Only Lab Proj # Lab ID ACTD																																																																																																																																																																																																																																																																														
Analysis Turnaround Time: Standard - Rush Charges Authorized for - 2 weeks -		Preservative 0 0 0 0 0 0		EPA 7199 Hexavalent Chromium EPA 6010 Total Chromium PCB TPH/DRO and GRO 8015		PAGE 1 of 1 Job No. JA44929																																																																																																																																																																																																																																																																														
Field Copy Report To: See above		1 week - Next Day -		What is in the Text File? Mouse over here.		Written and maintained by AESI (Ver 3.7) 02-01-05 																																																																																																																																																																																																																																																																														
Invoice To: Maria Kaouris - Honeywell PM 101 Columbia Rd, Morristown, NJ 07962		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="8">Sample Identification</th> <th rowspan="2"># of Cont.</th> <th rowspan="2">Units</th> <th colspan="7">Lab Sample Numbers</th> </tr> <tr> <th>Location ID</th> <th>Start Depth (ft)</th> <th>End Depth (ft)</th> <th>Field Sample ID</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type</th> <th>Sample Matrix</th> <th>grab</th> <th>ug/L</th> <th>ug/L</th> <th>ug/kg</th> <th>ug/kg</th> <th>ug/kg</th> <th>ug/kg</th> </tr> </thead> <tbody> <tr> <td>1 079-WC-001</td> <td>0</td> <td>2</td> <td>079-WC-001-042310</td> <td>4/23/2010</td> <td>9:10</td> <td>Waste</td> <td>Soil</td> <td>REG</td> <td>1</td> <td>N</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>-1</td> <td rowspan="2" style="border: 2px solid black; border-radius: 50%; text-align: center; vertical-align: middle;">EX47</td> </tr> <tr> <td>2 079-WC-002</td> <td>0</td> <td>2</td> <td>079-WC-002-042310</td> <td>4/23/2010</td> <td>9:30</td> <td>Waste</td> <td>Soil</td> <td>REG</td> <td>1</td> <td>N</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>-2</td> </tr> <tr><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>12</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>		Sample Identification								# of Cont.	Units	Lab Sample Numbers							Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	grab	ug/L	ug/L	ug/kg	ug/kg	ug/kg	ug/kg	1 079-WC-001	0	2	079-WC-001-042310	4/23/2010	9:10	Waste	Soil	REG	1	N	X	X	X	X	X	X	X	-1	EX47	2 079-WC-002	0	2	079-WC-002-042310	4/23/2010	9:30	Waste	Soil	REG	1	N	X	X	X	X	X	X	X	-2	3																				4																				5																				6																				7																				8																				9																				10																				11																				12																				Waste Class I: TCLP Metals, TCLP Herb/Pest, TCLP VOC; TCLP SVOC; Waste Class III; Ignitability, Reactive Cyanide, Reactive Sulfide;	
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Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

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JA44929: Chain of Custody
Page 4 of 4

APPENDIX H
BACKFILL CERTIFICATION

NORTH BERGEN ASPHALT PRODUCTS, LLC.

88474



CORPORATE OFFICE
 90 West Franklin Street
 Hackensack, NJ 07601
 TEL: (201) 489-6066
 FAX: (201) 489-7660

PLANT LOCATION
 2414 95th Street
 North Bergen, NJ 07047
 TEL: (201) 854-2818
 FAX: (201) 854-2816

SCALE NO.	TICKET NO.	DATE	TIME
	88474	8/23/2010	7:59:
WM	ORDER NO.		
JOE MACCHIONE JR			
CONTRACT NUMBER		PURCHASE ORDER	
		TRUCK CODE	
		BZDEK	

SHIPPING PLANT	SOURCE CODE
NBA	
CUSTOMER CODE	PROJECT CODE
R1610	RT 440
CUSTOMER NAME	HAULER
ROMAN ASPHALT COMP.	
DELIVERY METHOD	ZONE CODE

DELIVERY ADDRESS

HONDA LOT

INSTRUCTIONS

RT 440

ITEM CODE	DESCRIPTION	GROSS	TARE	NET
I-5	FABC	22.09 TN	14.15 TN	7.94 TN
		20.04MG	12.04MG	7.20MG
# OF LOADS	US TONS TODAY	METRIC TONS TODAY		
1	7.94 TN	7.20MG		

TRUCK ARRIVE JOB: _____

TRUCK LEAVE JOB: _____

DELIVERY INSIDE CURB LINE AT CONSIGNEE'S RISK.

Signature Required by Consignee or Its Agent for Inside Curb Line Delivery

DATE

OSHA M.S.D.S. AVAILABLE UPON REQUEST
 A SERVICE CHARGE OF 1 1/2% PER MONTH WILL BE ADDED TO ALL BALANCES MORE THAN 30 DAYS OLD. ANNUAL PERCENTAGE RATE OF 18%.

CUSTOMER COPY 1

MATERIALS HEREBY SOLD BECOME PROPERTY OF PURCHASER AT POINT OF ORIGIN. RECEIPT OF MATERIALS AND THE SIGNATURE OF THE CONSIGNEE OR THE CONSIGNEE'S AGENT SHALL PRECLUDE ANY AND ALL CLAIMS BY PURCHASER.

AUTHORIZED SIGNATURE: _____
 DRIVER PRINT NAME: _____
 A HOLDING CHARGE WILL BE MADE IF TRUCK IS ON JOB SITE MORE THAN 20 MINUTES.

Stash

NORTH BERGEN ASPHALT PRODUCTS, LLC.

88468



CORPORATE OFFICE
 90 West Franklin Street
 Hackensack, NJ 07601
 TEL: (201) 489-6066
 FAX: (201) 489-7680

PLANT LOCATION
 24-14 95th Street
 North Bergen, NJ 07047
 TEL: (201) 854-2818
 FAX: (201) 854-2816

SCALE NO. 08468 DATE 8/23/2010 TIME 5:50#
 ORDER NO.
 WM JOE MACCHIONE JR
 PURCHASE ORDER
 CONTRACT NUMBER
 TRUCK CODE BZDEK

SHIPPING PLANT NBA
 CUSTOMER CODE R1610 CUSTOMER NAME ROMAN ASPHALT CORP.
 PROJECT CODE RT 440
 HAUULER
 SOURCE CODE
 ZONE CODE

DELIVERY METHOD
 DELIVERY ADDRESS
 INSTRUCTIONS RT 440 HONDA LOT

ITEM CODE	DESCRIPTION	GROSS	TARE	NET	# OF LOADS	US TONS TODAY	METRIC TONS TODAY
I-2	STAB BASE	41.33 TN	17.33 TN	24.00 TN	1	24.00 TN	21.77MG
		37.49MG	15.72MG	21.77MG			

TRUCK ARRIVE JOB: _____ TRUCK LEAVE JOB: _____
 DELIVERY INSIDE CURB LINE AT CONSIGNEE'S RISK.
 Signature Required by Consignee or its Agent for inside Curb Line Delivery
 DATE

DRIVER _____
 PRINT NAME: _____
 AUTHORIZED SIGNATURE: *Stash*
 A HOLDING CHARGE WILL BE MADE IF TRUCK IS ON JOB SITE MORE THAN 20 MINUTES.

MATERIALS HEREBY SOLD BECOME PROPERTY OF PURCHASER AT POINT OF ORIGIN. RECEIPT OF MATERIALS AND THE SIGNATURE OF THE CONSIGNEE OR THE CONSIGNEE'S AGENT SHALL PRECLUDE ANY AND ALL CLAIMS BY PURCHASER.
 OSHA M.S.D.S. AVAILABLE UPON REQUEST
 A SERVICE CHARGE OF 1 1/2% PER MONTH WILL BE ADDED TO ALL BALANCES MORE THAN 30 DAYS OLD. ANNUAL PERCENTAGE RATE OF 18%.

CUSTOMER COPY 1

TICKET NO: 41841399 DATE: 08/19/10 TIME: 11:52

SHIPPING PLANT: 418 MT HOPE QUARRY SOURCE: B 0424
SCALE NO: 4 WM: Carolyn Sugar

ORDER NO: 25 ARECON LTD
CUSTOMER CODE: 85273
PROJECT CODE:
PURCHASE ORDER:
CONTRACT NO:

TRUCK: 4910 HAULER: 102715 L.G. & SONS CORP 49
DELIVERY METHOD: 1 Delivery ZONE CODE: 1000

ITEM CODE: 1018003
DESCRIPTION DGABC/ TYPE5 CLASS A

DELIVERY ADDRESS:
JERSEY CITY HONDA 540 RTE 440 NEAR FISK ST

INSTRUCTIONS:
JINO 609 - 915 - 7383

ON JOB TIME

GROSS 79,320lb 39.66UT
TARE 28,980lb 14.49UT
NET 50,340lb 25.17UT

OFF JOB TIME

OF LOADS 1 US TONS TODAY 25.17 METRIC TONS TODAY 22.83

DRIVER SIGNATURE

CUSTOMER SIGNATURE

TICKET NO: 41841399 DATE: 08/19/10 TIME: 11:52

SHIPPING PLANT: 418 MT HOPE QUARRY SOURCE: B 0424
SCALE NO: 4 WM: Carolyn Sugar

ORDER NO: 25 ARECON LTD
CUSTOMER CODE: 85273
PROJECT CODE:
PURCHASE ORDER:
CONTRACT NO:

TRUCK: 4910 HAULER: 102715 L.G. & SONS CORP 49
DELIVERY METHOD: 1 Delivery ZONE CODE: 1000

ITEM CODE: 1018003
DESCRIPTION DGABC/ TYPE5 CLASS A

DELIVERY ADDRESS:
JERSEY CITY HONDA 540 RTE 440 NEAR FISK ST

INSTRUCTIONS:
JINO 609 - 915 - 7383

ON JOB TIME

GROSS 79,320lb 39.66UT
TARE 28,980lb 14.49UT
NET 50,340lb 25.17UT

OFF JOB TIME

OF LOADS 1 US TONS TODAY 25.17 METRIC TONS TODAY 22.83

DRIVER SIGNATURE

CUSTOMER SIGNATURE

CUSTOMER COPY 1

SCALE NO. 3 TICKET NO. 41841403 DATE 08/19/10 TIME 11:50

WIM Christopher Bos 26 ORDER NO.

418 MT HOPE QUARRY

05273 CUSTOMER NAME OBECON LTD

1 Delivery ZONE CODE 10005

DRIVER PRINT NAME (NO INITIALS) JERSEY CITY HONDA 540 RTE 440 NEAR FISH CT

DELIVERY ADDRESS

INSTRUCTIONS DINO 609-915-7383

ITEM CODE 1018003 DESCRIPTION DEABC/ TYPES CLASS A

GROSS 554001b 27.72BT
TARE 256401b 12.82BT
NET 297601b 14.90BT

OF LOADS 14.88 US TONS TODAY 13.5 METRIC TONS TODAY



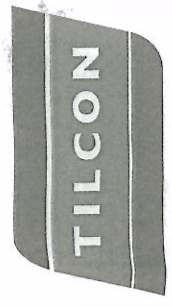
CUSTOMER SIGNATURE: [Signature]

SEE THE TERMS AND CONDITIONS OF SALE ON BACK OF TICKET
OSHA M.S.D.S. AVAILABLE UPON REQUEST

CONTROL NO. ON JOB OFF JOB
 AM PM
: :
 AM PM

TILCON NEW YORK INC.
162 OLD MILL ROAD, WEST NYACK, NY 10994

NEW YORK ORDERS 800 TRAP ROC 872-7762
NEW JERSEY ORDERS 800 789 ROCK 789-7625



SOURCE CODE CONTRACT NUMBER PURCHASE ORDER TRUCK CODE
PROJECT CODE HAULER 102650 J.C. LARA TRUCKING
CUSTOMER CODE

DRIVER SIGNATURE

CONTROL NO. 715/963

Tom - dispatched

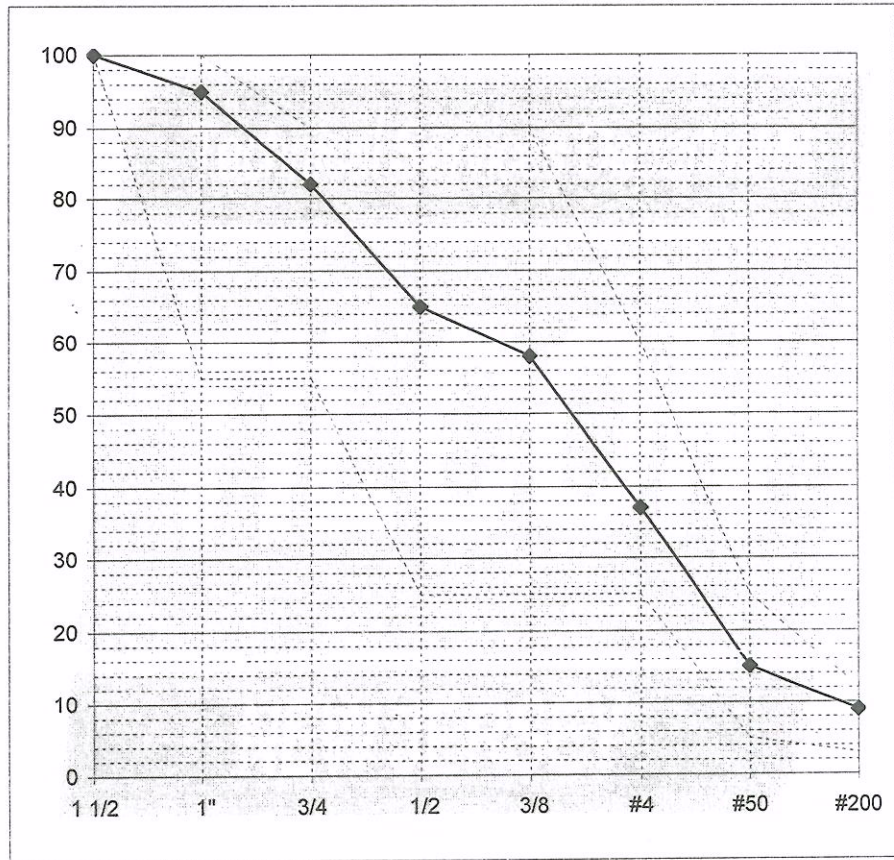
Typical Gradation, DGABC

Project	

Contractor	

Sp. Gr	2.71
Loose	95.7
Rodded	104

	Typical	Prod. Target	
	% Pass	Low	High
1 1/2"	100	100	100
1"	95	55	100
3/4"	82	55	90
1/2"	65	25	90
3/8"	58	25	90
#4	37	25	60
#50	15	5	25
#200	9	3	12



Tilcon Inc confirms that DGABC available at Mt. Hope Quarry conforms to section 901 of the **New Jersey Department of Transportation Standard Specifications for Road and Bridge Construction**. The material is defined as virgin Gneiss mined at Mt. Hope Quarry, 625 Mount Hope Road, Block 20001-Lot 6.01 Wharton Borough, Morris County NJ. The material is identified on the job with Tilcon delivery tickets.

The unit weights and voids are for process control and should be verified by the contractor before use.

Honeywell

Chain Of Custody / Analysis Request

Accutest Labs
 2235 ROUTE 130
 Dayton, NJ 8810
 732-329-0200 Marty Vitanza X216; Rich X340

AESI Ref: 40381.45465
 COC# 38037-WG-072210-DC1

Privileged & Confidential Y **Site Name:** Hudson County
EDD To: dak.patel@ch2m.com **Location of Site:** Jersey City, NJ
Sampler: Arecon Ltd **Analysis Turround Time (TAT):** 3
PO #: **Analysis Turround Time (TAT):** 3
Client Contact: (name, co., address) **Full Report TAT:**
 Helen Fahy P: (973) 455-2989 E: helen.fahy@honeywell.com
Honeywell International 101 Columbia Road Morristown, NJ 07962
Preliminary Data To: Dino Ciccone
Sample Receipt Acknowledgement To: Helen Fahy (Honeywell), Christina Jensen (Validata)
Hard Copy To: Helen Fahy (Honeywell)
Invoice To: Helen Fahy (Honeywell)

Location ID	Sample Identification		Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Units	Preservative	Location of Site	Hudson County	Phase: Sampling Program	Lab ID	ACTD	Site ID	Lab Job #	Authorized User:	Sampling Method (code)	Lab Sample Numbers	
	Start Depth (ft)	End Depth (ft)																				
1	115-WC	0.0	0.0	7/22/2010	10:00	BLKSOLID	SOLID	REG	1	grab	N	3	3	3	2	2	1	1	TCLP PEST 8081A	TCLP PEST 8081A		
2												3	3	3	2	2	1	1	TCLP HERB 8151A	TCLP HERB 8151A		
3												3	3	3	2	2	1	1	TCLP VOA (SW8260B)	TCLP VOA (SW8260B)		
4												3	3	3	2	2	1	1	TCLP METALS 6010B	TCLP METALS 6010B		
5												3	3	3	2	2	1	1	REAC CN VOLIC 7.3.3	REAC CN VOLIC 7.3.3		
6												3	3	3	2	2	1	1	REAC S VOLIC 7.3.4	REAC S VOLIC 7.3.4		
7												3	3	3	2	2	1	1	IGNITABILITY 1020A	IGNITABILITY 1020A		
8												3	3	3	2	2	1	1	CORROSION 9040B	CORROSION 9040B		
9												3	3	3	2	2	1	1	Field Filtered Sample ?	Field Filtered Sample ?		
10												3	3	3	2	2	1	1	Composite/Grab	Composite/Grab		
11												3	3	3	2	2	1	1	TCLP Semivolatiles (SW8270)	TCLP Semivolatiles (SW8270)		
12												3	3	3	2	2	1	1	TCLP VOA (SW8260B)	TCLP VOA (SW8260B)		

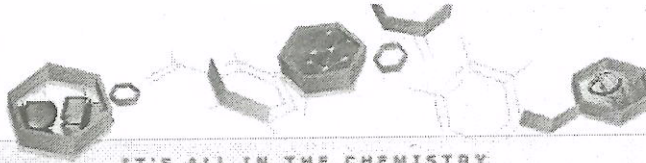
Relinquished by: ARECON Company
Date/Time: 7/22/10 12:00
Relinquished by: Company
Date/Time:

Received by: *Chino J...* Company
Date/Time: 7/22/10 14:05
Condition: Cooler Temp.
Company: Acutech
Condition: Cooler Temp.

Preservatives: (Other: Specify): NOTE: 0 (none); 1 (4 Deg C); 2 (HCl pH<2); 3 (HNO3 pH<2); 4 (H2SO4 pH<2); 5 (NaOH pH>12); 6 (NaOH, Zn Acetate); 7 (H2SO4 pH<2); 4 Deg C); 8 (HCl pH<2); 9 (HCl 4 Deg C); 10 (HNO3 pH<2); 4Deg C); 11 (4C NaOH (pH>12) & Ascorbic Acid); 12 (4C H2SO4 (pH<2) & Na2S2O3); 13 (Zn Acetate); sp (special instructions)



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Technical Report for

Honeywell International Inc.

ALNJB: Area 7, Jersey City, NJ

079: Route 440 Vehicle AKA Honda

Accutest Job Number: JA52045

Sampling Date: 07/22/10



Report to:

Arecon Ltd.
90 US Highway Route 130
Bordentown, NJ 08505

ATTN: Dino Ciccone

Total number of pages in report: 73



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

David N. Speis
David N. Speis
VP Ops, Laboratory Director

Client Service contact: Marty Vitanza 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

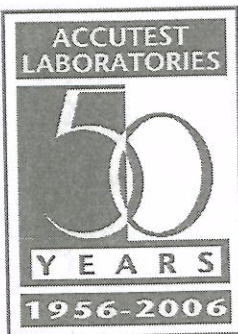


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Sample Summary

Honeywell International Inc.

Job No: JA52045

ALNJB: Area 7, Jersey City, NJ
Project No: 079: Route 440 Vehicle AKA Honda

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JA52045-1	07/22/10	10:00 A	07/22/10	SO	Solid	079-TILCON-DGA

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Honeywell International Inc.

Job No JA52045

Site: ALNJB: Area 7, Jersey City, NJ

Report Date 8/6/2010 4:02:24 PM

On 07/22/2010, 1 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 4.2 C. Samples were intact and properly preserved, unless noted below. An Accutest Job Number of JA52045 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Wet Chemistry By Method ASTM D1498-76M

Matrix: SO	Batch ID: GN40214
------------	-------------------

- Sample(s) JA52045-1DUP were used as the QC samples for Redox Potential Vs H2.

Wet Chemistry By Method SM18 2540G

Matrix: SO	Batch ID: GN40237
------------	-------------------

- The data for SM18 2540G meets quality control requirements.

Wet Chemistry By Method SW846 3060A/7199

Matrix: SO	Batch ID: GP54718
------------	-------------------

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA52045-1DUP, JA52045-1PS, JA52045-1MS were used as the QC samples for Chromium, Hexavalent.
- GP54718-S1 for Chromium, Hexavalent: Good recovery on soluble XCR matrix spike. Good recovery (97.3%) on the post-spike.
- GP54718-S2 for Chromium, Hexavalent: Good recovery on insoluble XCR matrix spike. See additional comments on soluble matrix spike recovery.

Wet Chemistry By Method SW846 9045C,D

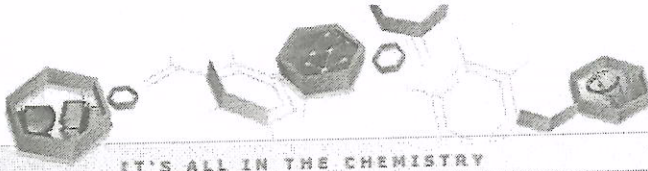
Matrix: SO	Batch ID: GN40215
------------	-------------------

- Sample(s) JA52045-1DUP were used as the QC samples for pH.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover



Sample Results

Report of Analysis

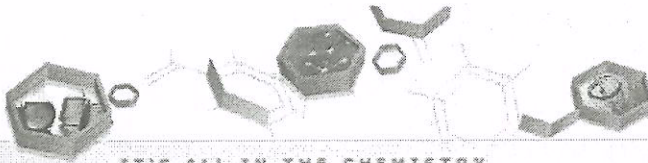
Report of Analysis

Client Sample ID: 079-TILCON-DGA	Date Sampled: 07/22/10
Lab Sample ID: JA52045-1	Date Received: 07/22/10
Matrix: SO - Solid	Percent Solids: 98.6
Project: ALNJB: Area 7, Jersey City, NJ	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.41	0.41	mg/kg	1	07/26/10 11:07	BD	SW846 3060A/7199
Redox Potential Vs H2	217		mv	1	07/23/10	JA	ASTM D1498-76M
Solids, Percent	98.6		%	1	07/23/10	WR	SM18 2540G
pH	9.28		su	1	07/23/10	JA	SW846 9045C,D

RL = Reporting Limit



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

506

Honeywell Chain Of Custody / Analysis Request JAS2045

Accutest Labs
2235 ROUTE 130
Lan, NJ 0810
329-0200 Marty Vitanza X216; Rich X340

Privileged & Confidential Y

Site Name: Hudson County
Location of Site: Jersey City, NJ

Phase: Sampling Program
0791 Route 440
Vehicle aka Honda

Lab Proj # (SDG):
Lab ID: ACTO
Site ID: HudsonCo

Sampling Co.: ARECON
EDD To: dak.patel@ch2m.com
Location of Site: Jersey City, NJ

Client Contact: (name, co., address)
Helen Fahy P: (973) 456-2989 E: helen.fahy@honeywell.com
Sampler: Arecon Ltd
PO #

Analysis Turnaround Time (TAT): 3
Consultant

Honeywell International
101 Columbia Road Morristown, NJ 07962

Sample Receipt Acknowledgement To: Helen Fahy (Honeywell), Christina Jensen (Validate)
Hard Copy To: Helen Fahy (Honeywell), Christina Jensen (Validate)
Full Report TAT: 14

Invoice To: Helen Fahy (Honeywell)

Sample Identification										Analytical Methods										Sampling Method		Lab Sample Numbers						
Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Units	Compositing/Grab	Field Filtered Sample ?	CORROSIVITY 940B	IGNITABILITY 102MA	REAC S VOLIC 7.3.4	REAC CN VOLIC 7.3.3	TCLP METALS 6010B	TCLP VOA (SW8260B)	TCLP Semivolatiles (SW8270)	TCLP PEST 801A	TCLP HERB 815A	TFH OXA-QAM-025	PCB 802 Full List (SW882)	SW806-SW719 Chromium VI	EPH 6010 Total Chromium	Sampling Method (code)	Lab Sample Numbers	
1	115-WC	0.0	079-Tilcon-DGA	7/22/2010	10:00	BLKSOLID	SOLID	REG	1	grab	N																	
2																												
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

Relinquished by: [Signature] Company: ARECON Received by: [Signature] Company: Accutest Condition: Cooler Temp. Custody Seals Intact

Date/Time: 7/22/10 12:00 Date/Time: 7/22/10 14:25

Relinquished by: [Signature] Company: Accutest Received by: [Signature] Company: Accutest Condition: Cooler Temp. Custody Seals Intact

Date/Time: 7/22/10 16:10 Date/Time: 7/22/10 16:10

Preservatives: (Other: Specify): NOTE:

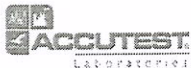
0 (none); 1 (4 Deg C); 2 (HCl pH<2); 3 (HNO3 pH<2); 4 (H2SO4 pH<2); 5 (NaOH pH>12); 6 (NaOH, Zn Acetate); 7 (H2SO4 pH<2); 8 (Deg C); 9 (HCl pH<2); 10 (HNO3 pH<2); 11 (4C NaOH pH>12) & Ascorbic Acid; 12 (4C H2SO4 pH<2) & Na2S2O3; 13 (Zn Acetate); so (special instructions)

4.1
4

ME 25

ON for 4.28

AM



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JA52045 Client: _____ Immediate Client Services Action Required: No
 Date / Time Received: 7/22/2010 Delivery Method: _____ Client Service Action Required at Login: No
 Project: _____ No. Coolers: 1 Airbill #'s: _____

Cooler Security Y or N Y or N
 1. Custody Seals Present: 3. COC Present:
 2. Custody Seals Intact: 4. Smpl Dates/Time OK:

Cooler Temperature Y or N
 1. Temp criteria achieved:
 2. Cooler temp verification: Infrared gun
 3. Cooler media: Ice (bag)

Quality Control Preservation Y or N N/A
 1. Trip Blank present / cooler:
 2. Trip Blank listed on COC:
 3. Samples preserved properly:
 4. VOCs headspace free:

Sample Integrity - Documentation Y or N
 1. Sample labels present on bottles:
 2. Container labeling complete:
 3. Sample container label / COC agree:

Sample Integrity - Condition Y or N
 1. Sample recvd within HT:
 2. All containers accounted for:
 3. Condition of sample: Intact

Sample Integrity - Instructions Y or N N/A
 1. Analysis requested is clear:
 2. Bottles received for unspecified tests:
 3. Sufficient volume recvd for analysis:
 4. Compositing instructions clear:
 5. Filtering instructions clear:

Comments

Accutest Laboratories
V: 732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www.accutest.com

4.1
4

Internal Sample Tracking Chronicle

Honeywell International Inc.

Job No: JA52045

ALNJB: Area 7, Jersey City, NJ
Project No: 079: Route 440 Vehicle AKA Honda

4.2
4

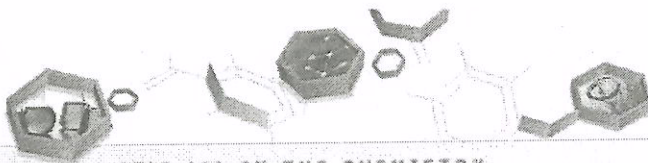
Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JA52045-1 Collected: 22-JUL-10 10:00 By: A Received: 22-JUL-10 By: MPC 079-TILCON-DGA						
JA52045-1	ASTM D1498-76M	23-JUL-10	JA			EH
JA52045-1	SM18 2540G	23-JUL-10	WR			SOL104
JA52045-1	SW846 9045C,D	23-JUL-10	JA			PH
JA52045-1	SW846 3060A/7199	26-JUL-10 11:07	BD	24-JUL-10	AD	XCRA7199

Accutest Internal Chain of Custody

Job Number: JA52045
Account: HWINJM Honeywell International Inc.
Project: ALNJB: Area 7, Jersey City, NJ
Received: 07/22/10

4.3
4

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA52045-1.1	Secured Storage	Todd Shoemaker	07/23/10 08:14	Retrieve from Storage
JA52045-1.1	Todd Shoemaker	Wojciech Rodzik	07/23/10 08:21	Custody Transfer
JA52045-1.1	Wojciech Rodzik	Jayshree Amin	07/23/10 08:41	Custody Transfer
JA52045-1.1	Jayshree Amin	Wojciech Rodzik	07/23/10 09:13	Custody Transfer
JA52045-1.1	Wojciech Rodzik	Secured Storage	07/23/10 16:49	Return to Storage
JA52045-1.1	Secured Storage	Adam Scott	07/24/10 07:09	Retrieve from Storage
JA52045-1.1	Adam Scott	Anupama Dubey	07/24/10 08:31	Custody Transfer
JA52045-1.1	Anupama Dubey	Secured Storage	07/24/10 15:20	Return to Storage



General Chemistry

5

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries
- Instrument Runlogs/QC
- Percent Solids Raw Data Summary

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JA52045
Account: HWINJM - Honeywell International Inc.
Project: ALNJB: Area 7, Jersey City, NJ

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chromium, Hexavalent	GP54718/GN40300	0.40	0.0	mg/kg	40	37.2	93.0	80-120%
Chromium, Hexavalent	GP54718/GN40300			mg/kg	856	853	99.6	80-120%

Associated Samples:
Batch GP54718: JA52045-1
(*) Outside of QC limits

5.1
5

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JA52045
Account: HWINJM - Honeywell International Inc.
Project: ALNJB: Area 7, Jersey City, NJ

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chromium, Hexavalent	GP54718/GN40300	JA52045-1	mg/kg	0.0	0.0	0.0	0-20%
Redox Potential Vs H2	GN40214	JA52045-1	mv	217	212	2.8	0-17%
pH	GN40215	JA52045-1	su	9.28	9.25	0.3	0-10%

Associated Samples:
Batch GN40214: JA52045-1
Batch GN40215: JA52045-1
Batch GP54718: JA52045-1
(* Outside of QC limits

52
5

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JA52045
Account: HWINJM - Honeywell International Inc.
Project: ALNJB: Area 7, Jersey City, NJ

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chromium, Hexavalent	GP54718/GN40300	JA52045-1	mg/kg	0.0	1090	1040	95.5 (a)	75-125%
Chromium, Hexavalent	GP54718/GN40300	JA52045-1	mg/kg	0.0	41.9	33.9	80.9 (b)	75-125%

Associated Samples:

Batch GP54718: JA52045-1

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(a) Good recovery on insoluble XCR matrix spike. See additional comments on soluble matrix spike recovery.

(b) Good recovery on soluble XCR matrix spike. Good recovery (97.3%) on the post-spike.



Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JA52045
Account: HWINJM - Honeywell International Inc.
Project: ALNJB: Area 7, Jersey City, NJ

File ID: 610072601.TXT Date Analyzed: 07/26/10 Methods: SW846 3060A/7199
Analyst: BD Run ID: GN40300
Parameters: Chromium, Hexavalent

Time	Sample Description	Dilution Factor	PS Recov	Comments
08:32	GN40300-STD1	1		STDA
08:39	GN40300-STD2	1		STDB
08:46	GN40300-STD3	1		STDC
08:54	GN40300-STD4	1		STDD
09:01	GN40300-STD5	1		STDE
09:09	GN40300-CCV1	1		
09:45	GN40300-CCB1	1		
09:53	GP54718-MB1	1		
10:00	GP54718-MB1	1		
10:07	GP54718-B1	4		
10:15	GP54718-B1	4		
10:22	GP54718-B2	90		
10:30	GP54718-B2	90		
10:37	GP54718-S2	1		
10:44	GP54718-S1	1		
10:52	GP54718-D1	1		
10:59	GP54718-D1	1		
11:07	JA52045-1	1		
11:14	ZZZZZZ	1		
11:21	GP54718-S2	100		
11:29	GP54718-S2	100		
11:36	GP54718-B2	1		
11:44	GP54718-B1	1		
11:51	GN40300-CCV2	1		
11:58	GN40300-CCB2	1		
12:06	JA52045-1	1		
12:13	GP54718-S1	4		
12:21	GP54718-S1	4		
12:28	GP54718-PS1	4		
12:35	GP54718-PS1	4		
12:43	GN40300-CCV3	1		
12:50	GN40300-CCB3	1		

Refer to raw data for calibration curve and standards.

5.4
5

Instrument QC Summary
Inorganics Analyses

Login Number: JA52045
Account: HWINJM - Honeywell International Inc.
Project: ALNJB: Area 7, Jersey City, NJ

File ID: 610072601.TXT

Date Analyzed: 07/26/10
Run ID: GN40300

Methods: SW846 3060A/7199
Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN40300-CCV1	Chromium, Hexavalent	0.24	0.010	0.0057	.25	96.0	90-110
GN40300-CCB1	Chromium, Hexavalent	0.0057 U	0.010	0.0057			
GN40300-CCV2	Chromium, Hexavalent	0.25	0.010	0.0057	.25	100.0	90-110
GN40300-CCB2	Chromium, Hexavalent	0.0057 U	0.010	0.0057			
GN40300-CCV3	Chromium, Hexavalent	0.25	0.010	0.0057	.25	100.0	90-110
GN40300-CCB3	Chromium, Hexavalent	0.0057 U	0.010	0.0057			

(!) Outside of QC limits

5.4
5

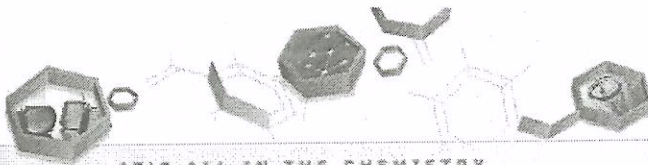
Percent Solids Raw Data Summary

Job Number: JA52045
Account: HWINJM Honeywell International Inc.
Project: ALNJB: Area 7, Jersey City, NJ

Sample: JA52045-1 Analyzed: 23-JUL-10 by WR Method: SM18 2540G
ClientID: 079-TILCON-DGA

Wet Weight (Total)	34.98	g
Tare Weight	27.06	g
Dry Weight (Total)	34.87	g
Solids, Percent	98.6	%

5.5
5



IT'S ALL IN THE CHEMISTRY

General Chemistry

Raw Data





Test: Redox Potential
 Matrix: Aqueous
 Matrix: Solid

Test Code: REDOX
 Method: ASTM D1498-76
 Method: ASTM D1498-76 Mod.
 Therm ID: 109

Analyst: jaa
 Date: 07/23/10
 GN Batch ID: gn40214
 Temp (Deg C): 25

Quality Control Summary

Sample ID: <u>ja52045-1</u>	Results: <u>217.7</u>	Dup: <u>211.8</u>	% RPD: <u>2.75%</u>
Ferrous-Ferric True: <u>675</u>		Found <u>673.7</u>	% Rec <u>99.81%</u>
pH 4 Quinhydrone True: <u>462</u>		Found <u>482.7</u>	% Rec <u>104.48%</u>
pH 4 Quinhydrone True: <u>462</u>		Found <u>485.1</u>	% Rec <u>105.00%</u>
pH 4 Quinhydrone True: <u>462</u>		Found _____	% Rec _____
pH 7 Quinhydrone True: <u>285</u>		Found <u>267.8</u>	% Rec <u>93.96%</u>
pH 7 Quinhydrone True: <u>285</u>		Found <u>263</u>	% Rec <u>92.28%</u>
pH 7 Quinhydrone True: <u>285</u>		Found _____	% Rec _____

Sample #:	mv vs. Ag/AgCl Electrode	Corrected results (mv vs. Hydrogen electrode) ***
Ferrous-Ferric Solution	<u>495.3</u>	<u>673.7</u>
pH 4 Quinhydrone	<u>281</u>	<u>482.7</u>
pH 7 Quinhydrone	<u>89</u>	<u>267.8</u>
Dup <u>gn40214-d1</u>	<u>39</u>	<u>211.8</u>
1. <u>ja52045-1</u>	<u>34.1</u>	<u>217.7</u>
2. _____	_____	_____
3. _____	_____	_____
4. _____	_____	_____
5. _____	_____	_____
6. _____	_____	_____
7. _____	_____	_____
8. _____	_____	_____
9. _____	_____	_____
pH 4 Quinhydrone	<u>281</u>	<u>485.1</u>
pH 7 Quinhydrone	<u>89.9</u>	<u>263</u>
10. _____	_____	_____
11. _____	_____	_____
12. _____	_____	_____
13. _____	_____	_____
14. _____	_____	_____
15. _____	_____	_____
16. _____	_____	_____
17. _____	_____	_____
18. _____	_____	_____
19. _____	_____	_____
20. _____	_____	_____
pH 4 Quinhydrone	_____	_____
pH 7 Quinhydrone	_____	_____

*** Note: Results vs Ag/AgCl electrode are converted to corrected results automatically at the instrument by changing to the relative mv scale. This conversion is done by adding about 200 mV to the Ag/AgCl reading.

Reagent Numbers: pH 4 Fisher 101901 exp 03/2012, pH Fisher 093739 exp 07/2011
 Redox standard gne 5-25066-orp EXP 11/24/2010 Quinhydrone ACROS A0282816

Comments: _____

Analyst: JAA Date: 7/23/10 QC Reviewer: [Signature] Date: _____
 F/N GN141-02

6.1
6



ACCUTEST.

Reagent Information Log
Test Name: _____ pH _____

6.2
6

Reagent

Reagent # or Manufacturer/Lot

_____ pH 2 Buffer Solution _____

_____ FISHER LOT# 090982 EXP. 03/2011 _____

_____ pH 4 Buffer Solution _____

_____ FISHER LOT# 094895 EXP. 09/2011 _____

_____ pH 7 Buffer Solution _____

_____ FISHER LOT# 093739 EXP. 07/2011 _____

_____ pH 10 Buffer Solution _____

_____ FISHER LOT# 093565 EXP. 07/2011 _____

_____ pH 13 Buffer Solution _____

_____ AQUA SOL'N LOT#0030296 EXP 3/30/11 _____

All standards and stocks were made as described in the SOP for this method (circle one): Y or N
If no (N), see attached page for standards prep.

Form: GN087-01
Rev. Date: 4/30/2010

GN40300

Sequence: 610072601
Operator: Chemistry

Title: NJCHMIC2_local
Data source: Accutest\2010\July
Location: accutest
Timebase: accutest
#Samples: 33

Created: 7/26/2010 8:09:48 AM by Chemistry
Last Update: 7/26/2010 12:16:32 PM by Chemistry

No.	Name	Type	Pos.	Program	Method	Status	Inj. Date/Time	Weight	Dil. Factor
1	BLANKCONF	Unknown	1	hexachrome	hexachrome	Finished	7/26/2010 8:24:46 AM	1.0000	1.0000
2	STDA	Standard	2	hexachrome	hexachrome	Finished	7/26/2010 8:32:11 AM	1.0000	1.0000
3	STDB	Standard	3	hexachrome	hexachrome	Finished	7/26/2010 8:39:35 AM	1.0000	1.0000
4	STDC	Standard	4	hexachrome	hexachrome	Finished	7/26/2010 8:46:59 AM	1.0000	1.0000
5	STDD	Standard	5	hexachrome	hexachrome	Finished	7/26/2010 8:54:23 AM	1.0000	1.0000
6	STDE	Standard	6	hexachrome	hexachrome	Finished	7/26/2010 9:01:48 AM	1.0000	1.0000
7	CCV	Unknown	7	hexachrome	hexachrome	Finished	7/26/2010 9:09:12 AM	1.0000	1.0000
8	CCB	Unknown	8	hexachrome	hexachrome	Finished	7/26/2010 9:45:37 AM	1.0000	1.0000
9	GP54718-MB1	Unknown	9	hexachrome	hexachrome	Finished	7/26/2010 9:53:01 AM	1.0000	1.0000
10	GP54718-MB1	Unknown	10	hexachrome	hexachrome	Finished	7/26/2010 10:00:25 AM	1.0000	1.0000
11	GP54718-B1	Unknown	11	hexachrome	hexachrome	Finished	7/26/2010 10:07:50 AM	1.0000	4.0000
12	GP54718-B1	Unknown	12	hexachrome	hexachrome	Finished	7/26/2010 10:15:14 AM	1.0000	4.0000
13	GP54718-B2	Unknown	13	hexachrome	hexachrome	Finished	7/26/2010 10:22:38 AM	1.0000	90.0000
14	GP54718-B2	Unknown	14	hexachrome	hexachrome	Finished	7/26/2010 10:30:02 AM	1.0000	90.0000
15	GP54718-S2	Unknown	15	hexachrome	hexachrome	Finished	7/26/2010 10:37:26 AM	1.0000	1.0000
16	GP54718-S1	Unknown	16	hexachrome	hexachrome	Finished	7/26/2010 10:44:51 AM	1.0000	1.0000
17	GP54718-D1	Unknown	17	hexachrome	hexachrome	Finished	7/26/2010 10:52:15 AM	1.0000	1.0000
18	GP54718-D1	Unknown	18	hexachrome	hexachrome	Finished	7/26/2010 10:59:39 AM	1.0000	1.0000
19	JA52045-1	Unknown	19	hexachrome	hexachrome	Finished	7/26/2010 11:07:03 AM	1.0000	1.0000
20	JA52045-1conf	Unknown	20	hexachrome	hexachrome	Finished	7/26/2010 11:14:28 AM	1.0000	1.0000
21	GP54718-S2	Unknown	21	hexachrome	hexachrome	Finished	7/26/2010 11:21:52 AM	1.0000	100.0000
22	GP54718-S2	Unknown	22	hexachrome	hexachrome	Finished	7/26/2010 11:29:16 AM	1.0000	100.0000
23	GP54718-S2	Unknown	23	hexachrome	hexachrome	Finished	7/26/2010 11:36:40 AM	1.0000	1.0000
24	GP54718-B2	Unknown	24	hexachrome	hexachrome	Finished	7/26/2010 11:44:04 AM	1.0000	1.0000
25	GP54718-B1	Unknown	25	hexachrome	hexachrome	Finished	7/26/2010 11:51:29 AM	1.0000	1.0000
26	CCV	Unknown	26	hexachrome	hexachrome	Finished	7/26/2010 11:58:53 AM	1.0000	1.0000
27	JA52045-1	Unknown	27	hexachrome	hexachrome	Finished	7/26/2010 12:06:17 PM	1.0000	1.0000

Handwritten signature
7/26

Sequence: 610072601
Operator: Chemistry

Title: NJCHMIC2_local
Datatype: Accutest\2010\July
Location: accutest
Timebase: 33
#Samples: 33

Created: 7/26/2010 8:09:48 AM by Chemistry
Last Update: 7/26/2010 12:16:32 PM by Chemistry

No. Name	Type	Pos. Program	Method	Status	Inj. Date/Time	Weight	Dil. Factor
28 GP54718-S1	Unknown	28 hexachrome	hexachrome	Finished	7/26/2010 12:13:41 PM	1.0000	4.0000
29 GP54718-S1	Unknown	29 hexachrome	hexachrome	Finished	7/26/2010 12:21:06 PM	1.0000	4.0000
30 GP54718-PS1	Unknown	30 hexachrome	hexachrome	Finished	7/26/2010 12:28:30 PM	1.0000	4.0000
31 GP54718-PS1	Unknown	31 hexachrome	hexachrome	Finished	7/26/2010 12:35:54 PM	1.0000	4.0000
32 CCV	Unknown	32 hexachrome	hexachrome	Finished	7/26/2010 12:43:18 PM	1.0000	1.0000
33 CCB	Unknown	33 hexachrome	hexachrome	Finished	7/26/2010 12:50:43 PM	1.0000	1.0000

Chromeleon © Dionex Corporation, Version 6.70 SP2a Build 1871



ACCUTEST
Hexavalent Chromium pH Adjustment Log
Method: SW846 3060A/7199

7-24-10

(Ad) 7/24

Digestion Date: 7/23/2010

pH adj. Date: 7/26/2010

GN Batch ID: GN40300

pH adj. start time: 9:00

pH adj. end time: 9:55

Sample ID	Sample Weight in g	pH after HNO3	Final Volume (ml)	Spike Amounts	Comments
GP54718		9.35	100	5-ml	5-ppm ultra
CCV				↓	↓
CCV					
CCV					
CCV					
CCB		9.40	100		
CCB					
CCB					
MS (Sol)	2.42	9.31	100	1-ml	100-ppm absolute
MS (Insol.)	2.44	9.35		0.0163	PbCrO4
DUP	2.48	9.25			
SB (Sol)		9.45		1-ml	100-ppm absolute
SB (Insol)		9.24		0.0133	PbCrO4
MB		9.40			
1JA52045-1	2.50	9.41	✓	0.50 mL of 10 PPM Absolute in 5 mL Sample + 20 mL	
2 PSI (-1)	2.50	9.44			
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					dilution
SB (Insol)					dilution
MS (Insol.)					

6.3
6

98-6

Reagent Reference Information - refer to attached reagent reference information page(s).
{1000000 ug/g x Insoluble spike wt(g) x 52/323.2}/ms sample wt(g) = Insoluble spike amount of PbCrO4

Form: GN-067A
Rev. Date: 5/8/06

GN40300



Hexavalent Chromium Digestion Temperature Log

Method: SW846 3060A

Record the temperature at the beginning, during, and at the end of each digestion.

Digestion Batch ID	Description	Time	Temp. in deg. C Hot Plate # 1	Temp. in deg. C Hot Plate # 2	Temp. in deg. C Hot Plate # 1	Temp. in deg. C Hot Plate # 1
105018	Starting Time	11:20	95	93		
	Time 1	11:50	95	95		
	Ending Time	12:20	95	95		
	Starting Time					
	Time 1					
	Ending Time					
	Starting Time					
	Time 1					
	Ending Time					
	Starting Time					
	Time 1					
	Ending Time					

[Signature]

Analyst:

Date: 7/24/10

Form: GN-074
Rev. Date: 5/8/06



ACCUTEST.

GN/GP Batch ID: 6P54718 | GN40300

Reagent Information Log - XCRA7199 (soil 3060A/7199)

6.3
6

<u>Reagent</u>	<u>Exp. Date</u>	<u>Reagent # or Manufacturer/Lot</u>
Calibration Source: Hexavalent Chromium, 1000 mg/L Stock	1/1/2013	Absolute Grade Lot # 012010
Calibration Checks: Hexavalent Chromium, 1000 mg/L Stock	7/31/2015	Ultra lot # J00509
Spiking Solution Source	1/1/2013	Absolute Grade Lot # 012010
Lead Chromate (Insoluble Hexavalent Chromium Spike)	NA	Sigma Aldrich Lot # 09921LC
Digestion Solution	8/20/2010	GNE7-25592-XCR
Magnesium Chloride, Anhydrous	NA	Alfa Aesar Lot # I02T070
Phosphate Buffer Solution	12/8/2010	GNE6-25218-XCRA
5.0 M Nitric Acid	1/14/2011	GNE7-25545-XCRA
Post-Column Reagent (Diphenylcarbazide Solution)	7/28/10	GNE7-25613-1CKCR
Eluent	1/15/11	GNE7-25350-1CKCR
Buffer Solution	12/29/10	GNE6-25350-1CKCR
XCR7199 Dilution Water	12/22/10	GNE7-25529-1CKCR
Filter	N/A	FOCA84866
Teflon Chips	N/A	chemware #D1069103
DDS	8/20/10	GNE7-25614-1CKCR

Form: GN087A-21
Rev. Date: 2/18/10



GENERAL CHEMISTRY STANDARD PREPARATION LOG

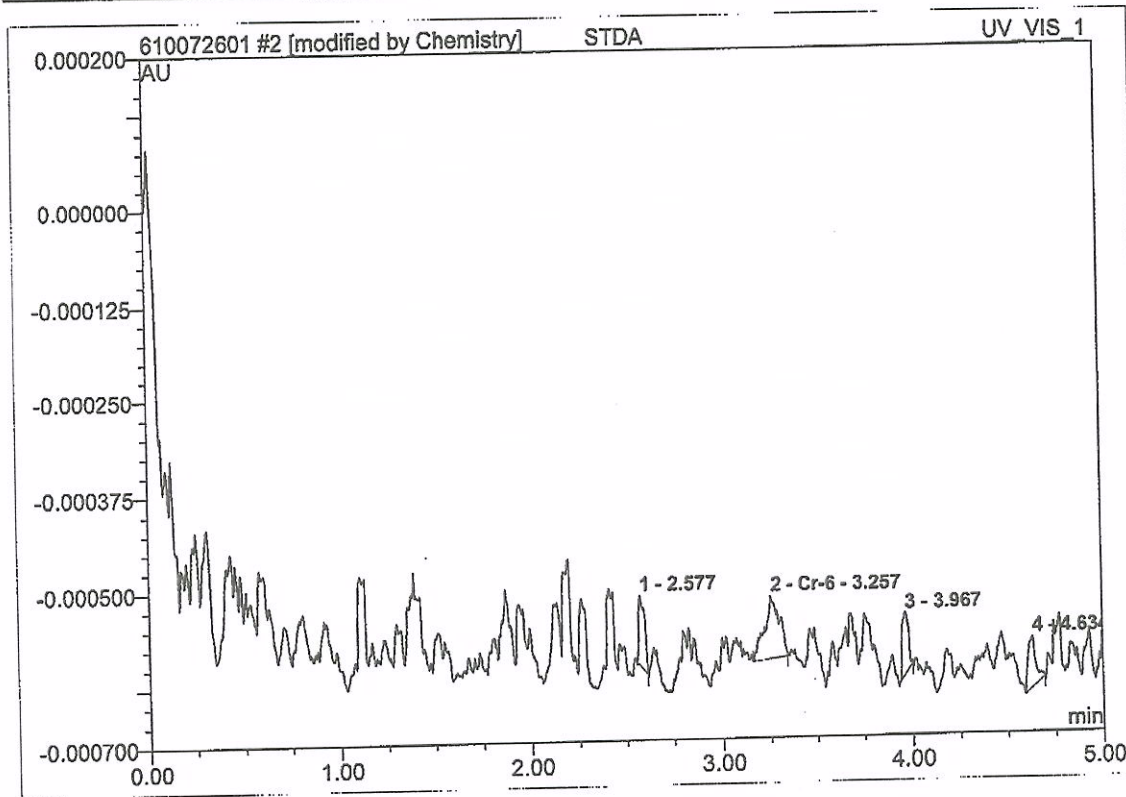
Product: Cr(VI) (Soil)
 GN or GP Number: 6540300

Intermediate Standard Description	Stock used to prepare standard	Stock concentration	Stock volume or weight used with units	Balance or Autopipet ID (*)	Diluent	Final Volume	Final Conc. of Intermediate (mg/l)	Expiration Date	Analyst	Date
10.0 mg/L Absolute	Absolute 042610	1000 mg/L	1.0 mL	A	Dilution	100 mL	10.0 mg/L	4/26/2013	B	11/20/10
1.0 mg/L Absolute	10.0 mg/L Absolute	10.0 mg/L	10.0 mL	A	Water	100 mL	1.0 mg/L	4/26/2013	B	11/20/10
5.0 mg/L Ultra	Ultra J00509	1000 mg/L	1.0 mL	A	DI H2O	200 mL	5.0 mg/L	7/31/2015	B	11/20/10
Standard Description	Intermediate or Stock used to prepare standard	Intermediate or Stock concentration	Intermediate or Stock volume used in ml	Balance or Autopipet ID (*)	Diluent	Final Volume	Final Conc. of Standard (mg/l) <td>Expiration Date</td> <td>Analyst</td> <td>Date</td>	Expiration Date	Analyst	Date
0.005 mg/L	1.0 mg/L Absolute	1.0 mg/L	0.50 mL	A	Digestion solution	100 mL	0.005	11/20/10	B	11/20/10
0.050 mg/L	1.0 mg/L Absolute	1.0 mg/L	5.0 mL	A	and DI	100 mL	0.05	11/20/10	B	11/20/10
0.100 mg/L	10 mg/L Absolute	10.0 mg/L	1.0 mL	A	Water	100 mL	0.1	11/20/10	B	11/20/10
0.500 mg/L	10 mg/L Absolute	10.0 mg/L	5.0 mL	A	Water	100 mL	0.5	11/20/10	B	11/20/10

* If Class A glass pipets are used, enter an A. For balances or autopipets, then enter the appropriate Accutest ID number.

Form: GN121-01
 Rev. Date: 1/13/09

2 STDA			
Sample Name:	STDA	Injection Volume:	25.0
Vial Number:	2	Channel:	UV_VIS_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/26/2010 8:32	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.58	n.a.	0.000	0.000	20.38	n.a.	BMB
2	3.26	Cr-6	0.000	0.000	43.71	0.0006	BMB*
3	3.97	n.a.	0.000	0.000	17.96	n.a.	BMB
4	4.63	n.a.	0.000	0.000	17.94	n.a.	BMB
Total:			0.000	0.000	100.00	0.001	

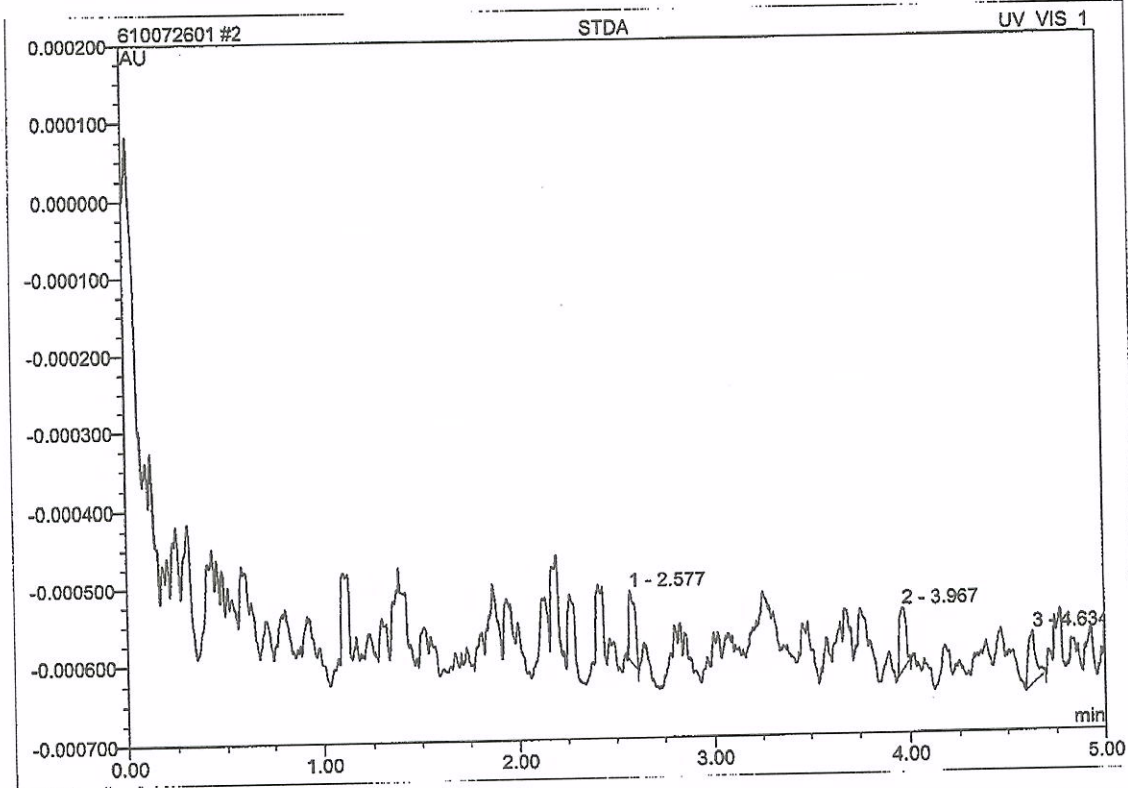
hexachrome/Integration

Chromleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

6.3
6

2 STDA

Sample Name:	STDA	Injection Volume:	25.0
Vial Number:	2	Channel:	UV_VIS_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/26/2010 8:32	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



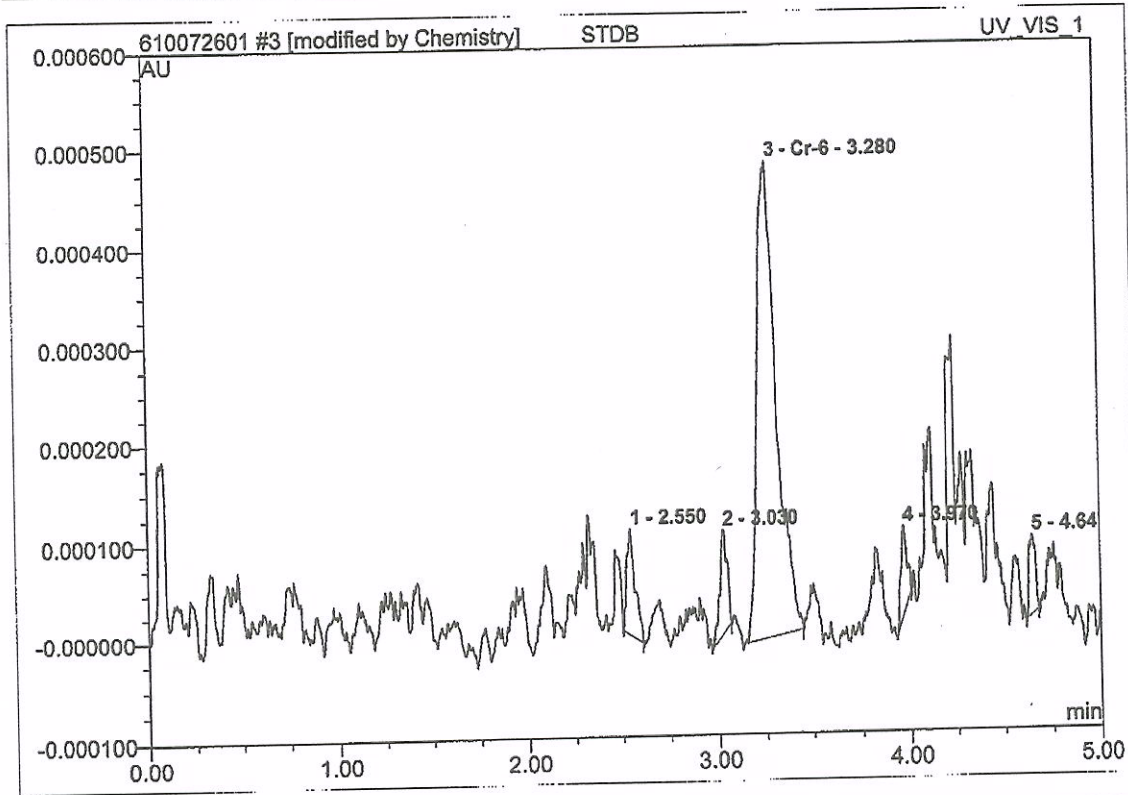
No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.58	n.a.	0.000	0.000	36.21	n.a.	BMB
2	3.97	n.a.	0.000	0.000	31.91	n.a.	BMB
3	4.63	n.a.	0.000	0.000	31.88	n.a.	BMB
Total:			0.000	0.000	100.00	0.000	

mp 5D 7/26/10

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

3 STDB			
Sample Name:	STDB	Injection Volume:	25.0
Vial Number:	3	Channel:	UV_VIS_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/26/2010 8:39	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

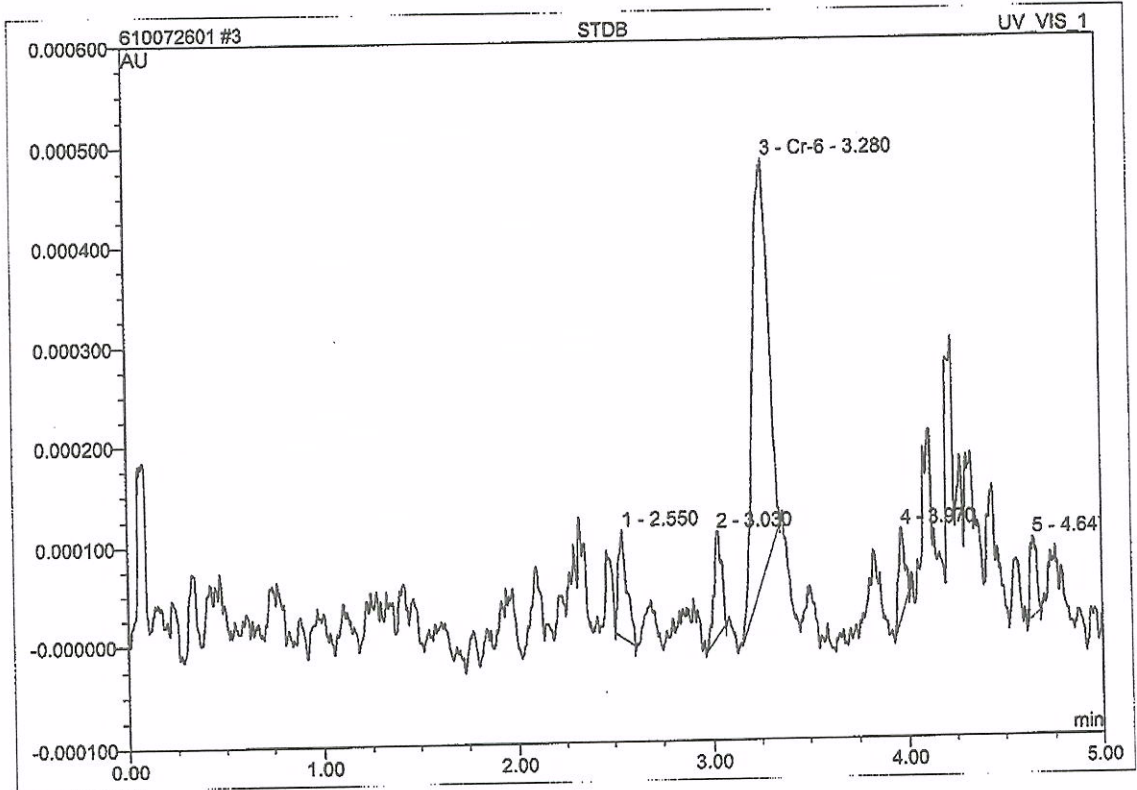


No.	Ret. Time min	Peak Name	Height AU	Area AU*min	Rel. Area %	Amount ppm	Type
1	2.55	n.a.	0.000	0.000	7.34	n.a.	BMB
2	3.03	n.a.	0.000	0.000	6.73	n.a.	BMB
3	3.28	Cr-6	0.000	0.000	77.15	0.0061	BMB*
4	3.97	n.a.	0.000	0.000	4.57	n.a.	BMB
5	4.65	n.a.	0.000	0.000	4.21	n.a.	BMB
Total:			0.001	0.000	100.00	0.006	

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

3 STDB			
Sample Name:	STDB	Injection Volume:	25.0
Vial Number:	3	Channel:	UV_VIS_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/26/2010 8:39	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.55	n.a.	0.000	0.000	9.51	n.a.	BMB
2	3.03	n.a.	0.000	0.000	8.72	n.a.	BMB
3	3.28	Cr-6	0.000	0.000	70.39	n.a.	BMB
4	3.97	n.a.	0.000	0.000	5.92	n.a.	BMB
5	4.65	n.a.	0.000	0.000	5.45	n.a.	BMB
Total:			0.001	0.000	100.00	0.000	

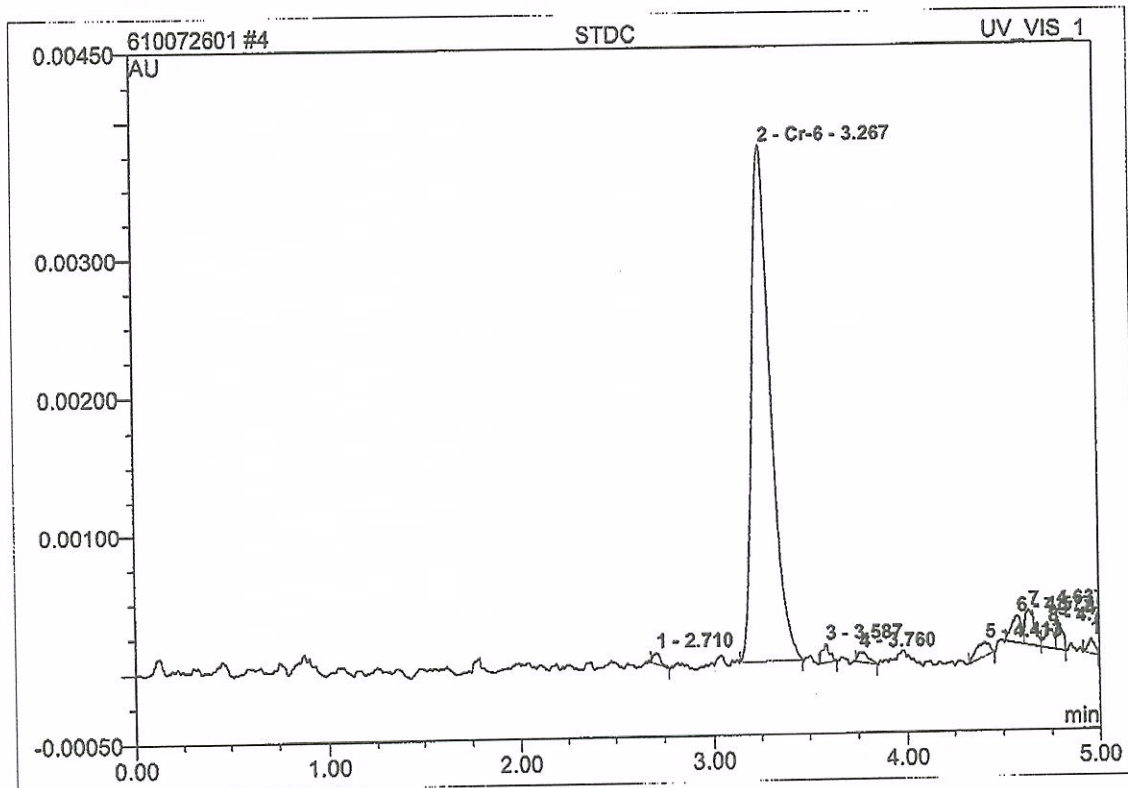
PII BO 7/26/10

hexachrome/Integration

Chromleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

4 STDC

Sample Name:	STDC	Injection Volume:	25.0
Vial Number:	4	Channel:	UV_VIS_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/26/2010 8:46	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

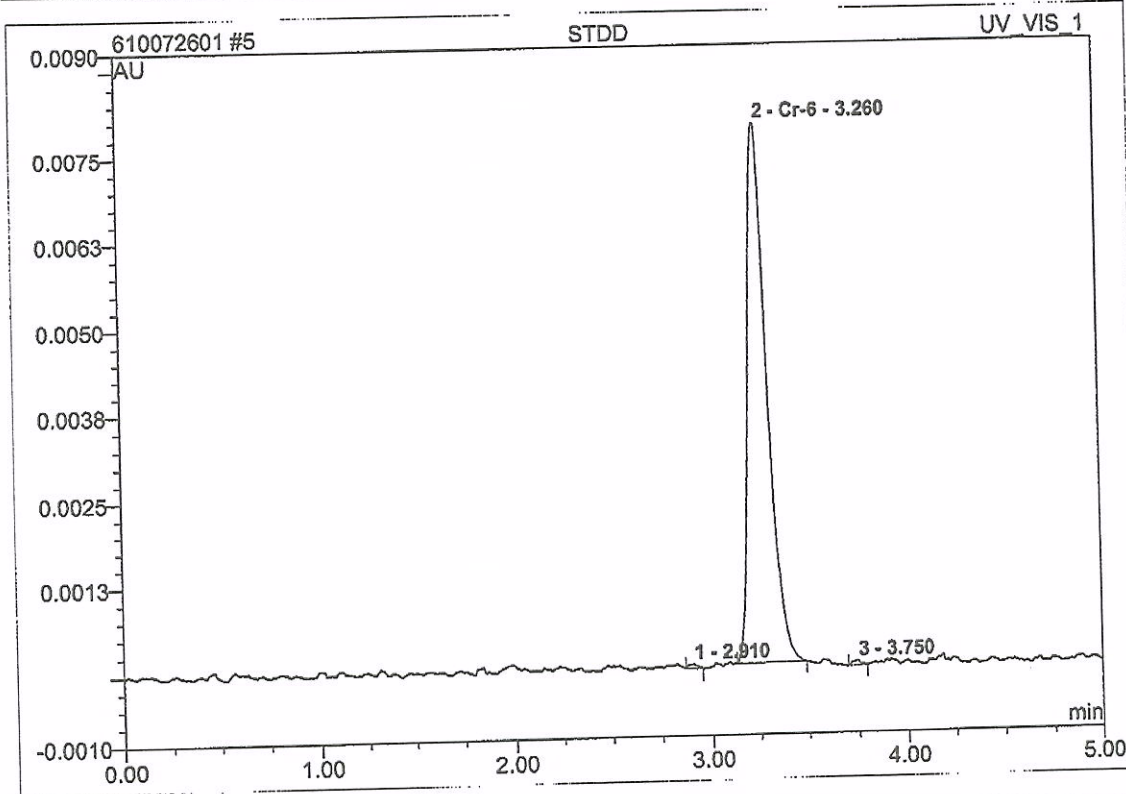


No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.71	n.a.	0.000	0.000	0.71	n.a.	BMB
2	3.27	Cr-6	0.004	0.000	86.58	0.0475	BMB
3	3.59	n.a.	0.000	0.000	1.23	n.a.	BMB
4	3.76	n.a.	0.000	0.000	0.87	n.a.	BMB
5	4.41	n.a.	0.000	0.000	1.73	n.a.	BMB
6	4.58	n.a.	0.000	0.000	2.32	n.a.	BM
7	4.64	n.a.	0.000	0.000	2.83	n.a.	M
8	4.73	n.a.	0.000	0.000	1.50	n.a.	M
9	4.78	n.a.	0.000	0.000	1.39	n.a.	MB
10	4.95	n.a.	0.000	0.000	0.85	n.a.	BMB
Total:			0.005	0.000	100.00	0.047	

hexachrome/Integration

Chromleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

5 STDD			
Sample Name:	STDD	Injection Volume:	25.0
Vial Number:	5	Channel:	UV_VIS_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/26/2010 8:54	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

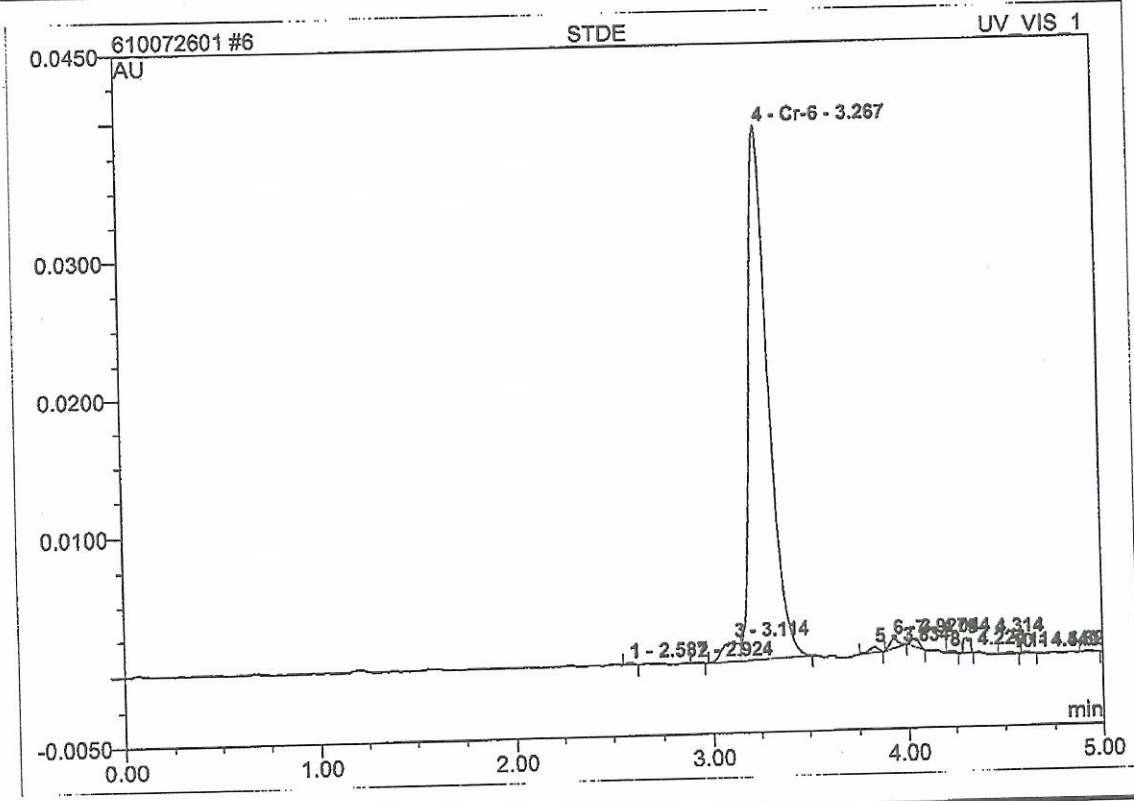


No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.91	n.a.	0.000	0.000	0.38	n.a.	BMB
2	3.26	Cr-6	0.008	0.001	99.23	0.1008	BMB
3	3.75	n.a.	0.000	0.000	0.39	n.a.	BMB
Total:			0.008	0.001	100.00	0.101	

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

6 STDE			
Sample Name:	STDE	Injection Volume:	25.0
Vial Number:	6	Channel:	UV_VIS_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/26/2010 9:01	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.59	n.a.	0.000	0.000	0.15	n.a.	BMB
2	2.92	n.a.	0.000	0.000	0.08	n.a.	BMB
3	3.11	n.a.	0.001	0.000	2.97	n.a.	BM
4	3.27	Cr-6	0.039	0.005	93.60	0.5001	MB
5	3.83	n.a.	0.000	0.000	0.46	n.a.	BMB
6	3.93	n.a.	0.001	0.000	0.76	n.a.	BMB
7	4.04	n.a.	0.001	0.000	0.60	n.a.	BMB
8	4.22	n.a.	0.000	0.000	0.15	n.a.	BMB
9	4.31	n.a.	0.001	0.000	0.90	n.a.	BMB
10	4.54	n.a.	0.000	0.000	0.12	n.a.	BMB
11	4.62	n.a.	0.000	0.000	0.10	n.a.	BMB

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

6.3
6

Operator:Chemistry Timebase:accutest Sequence:610072601

Page 6-36
7/26/2010 1:22 PM

12	4.93	n.a.	0.000	0.000	0.11	n.a.	BMB
Total:			0.044	0.005	100.00	0.500	

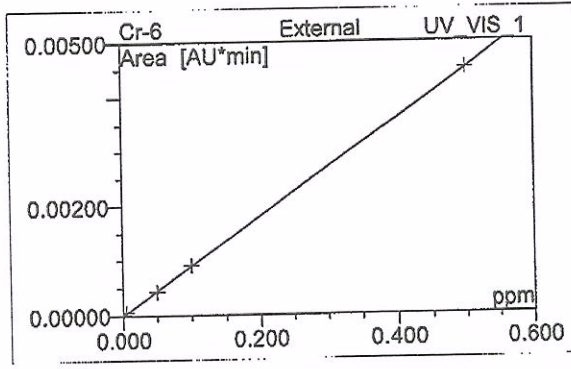
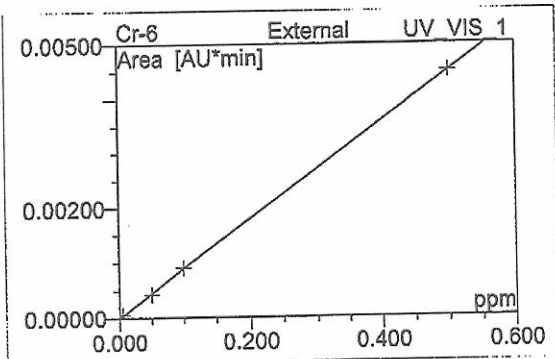
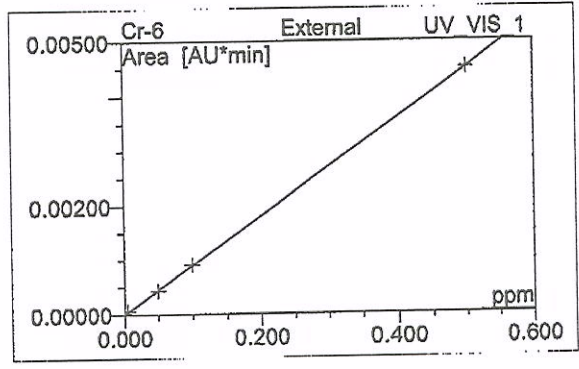
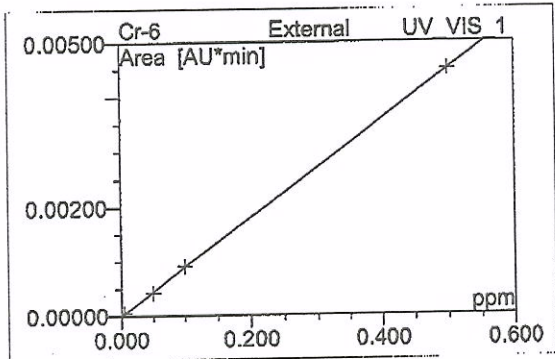
63
6

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

6 STDE

Sample Name:	STDE	Injection Volume:	25.0
Vial Number:	6	Channel:	UV_VIS_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/26/2010 9:01	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	2.59	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	2.92	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	3.11	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	3.27	Cr-6	LOff	5	99.9952	0.0000	0.0090	0.0000
5	3.83	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	3.93	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
7	4.04	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
8	4.22	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
9	4.31	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
10	4.54	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
11	4.62	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
12	4.93	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

hexachrome/Calibration(Batch)

Chromleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

6.3
6

Operator:Chemistry Timebase:accutest Sequence:610072601

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7/26/2010 1:22 PM

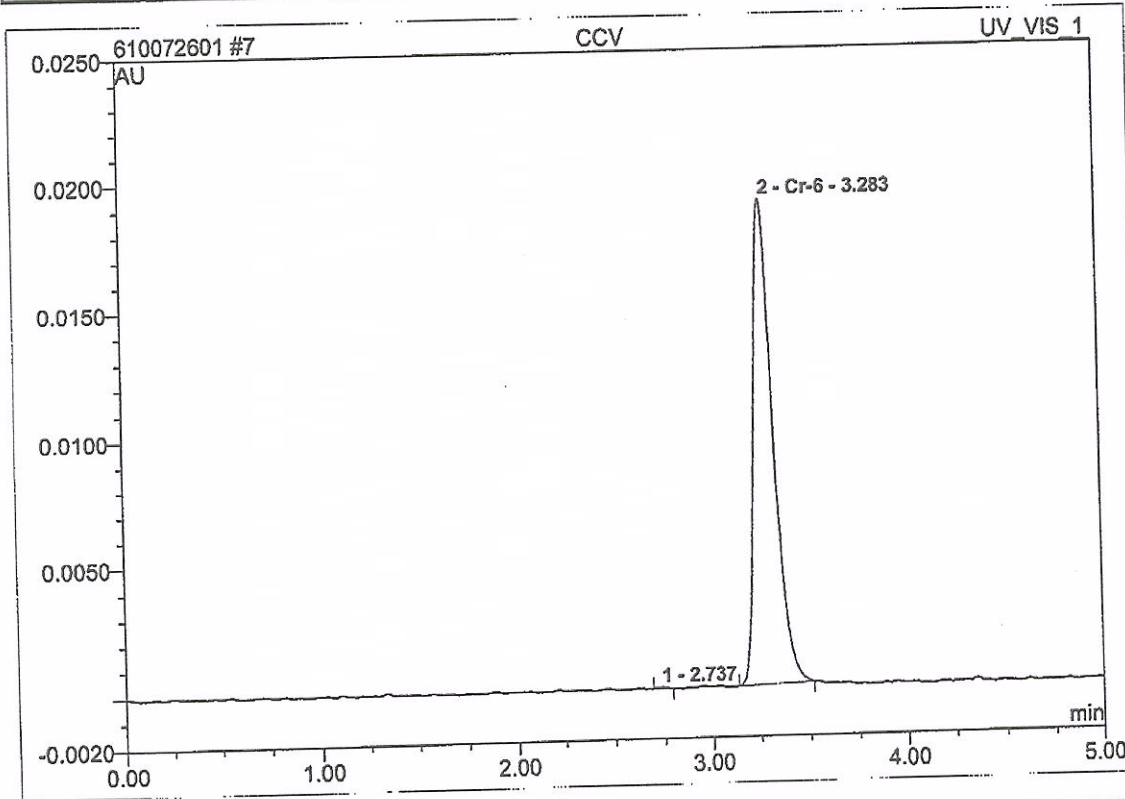
Average:	99.9952	0.0000	0.0090	0.0000
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6.3
6

hexachrome/Calibration(Batch)

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

7 CCV			
Sample Name:	CCV	Injection Volume:	25.0
Vial Number:	7	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/26/2010 9:09	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.74	n.a.	0.000	0.000	0.19	n.a.	BMB
2	3.28	Cr-6	0.019	0.002	99.81	0.2416	BMB
Total:			0.019	0.002	100.00	0.242	

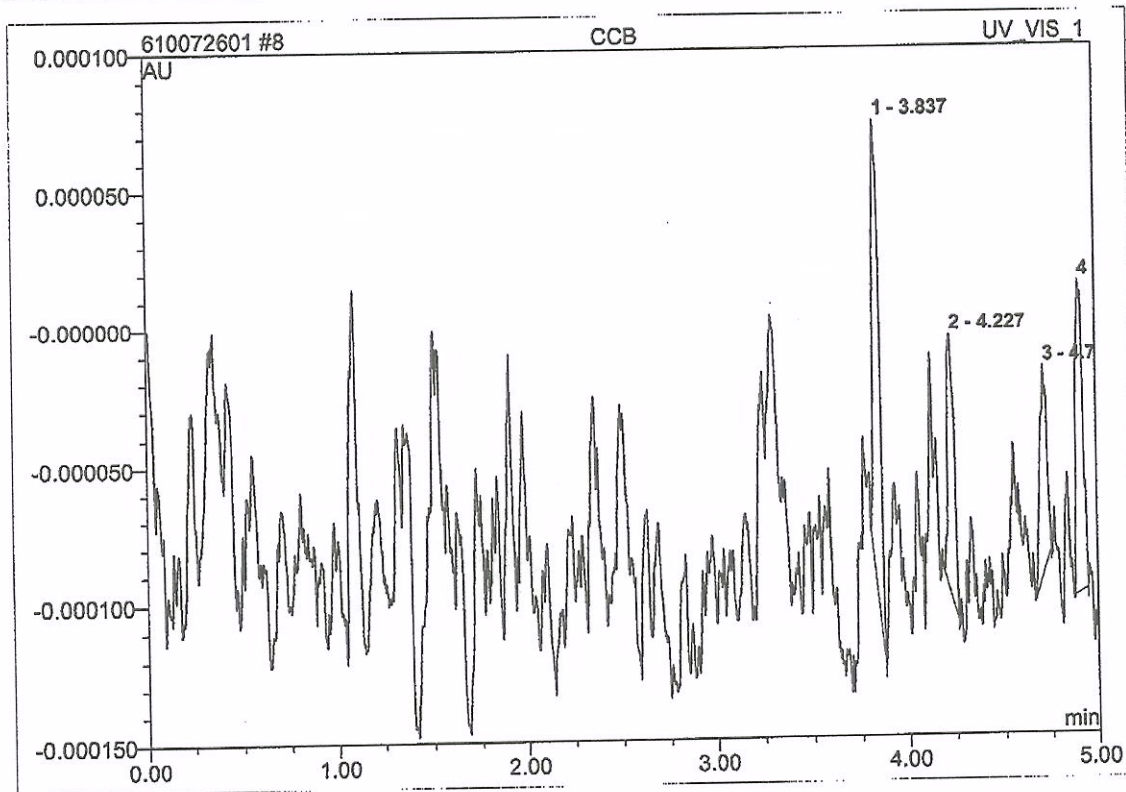
hexachrome/Integration

Chromleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

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6

8 CCB

Sample Name:	CCB	Injection Volume:	25.0
Vial Number:	8	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/26/2010 9:45	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

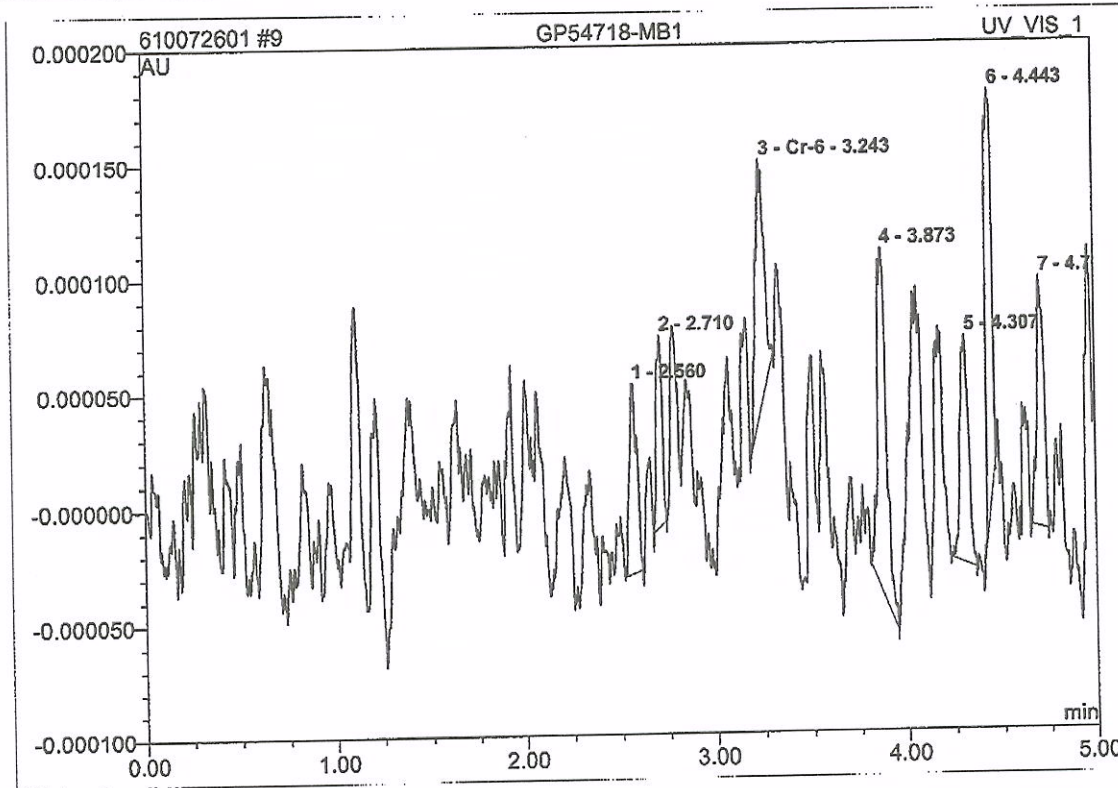


No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.84	n.a.	0.000	0.000	36.34	n.a.	BMB
2	4.23	n.a.	0.000	0.000	20.04	n.a.	BMB
3	4.72	n.a.	0.000	0.000	18.12	n.a.	BMB
4	4.91	n.a.	0.000	0.000	25.51	n.a.	BMB
Total:			0.000	0.000	100.00	0.000	

hexachrome/Integration

Chromleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

9 GP54718-MB1			
Sample Name:	GP54718-MB1	Injection Volume:	25.0
Vial Number:	9	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/26/2010 9:53	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

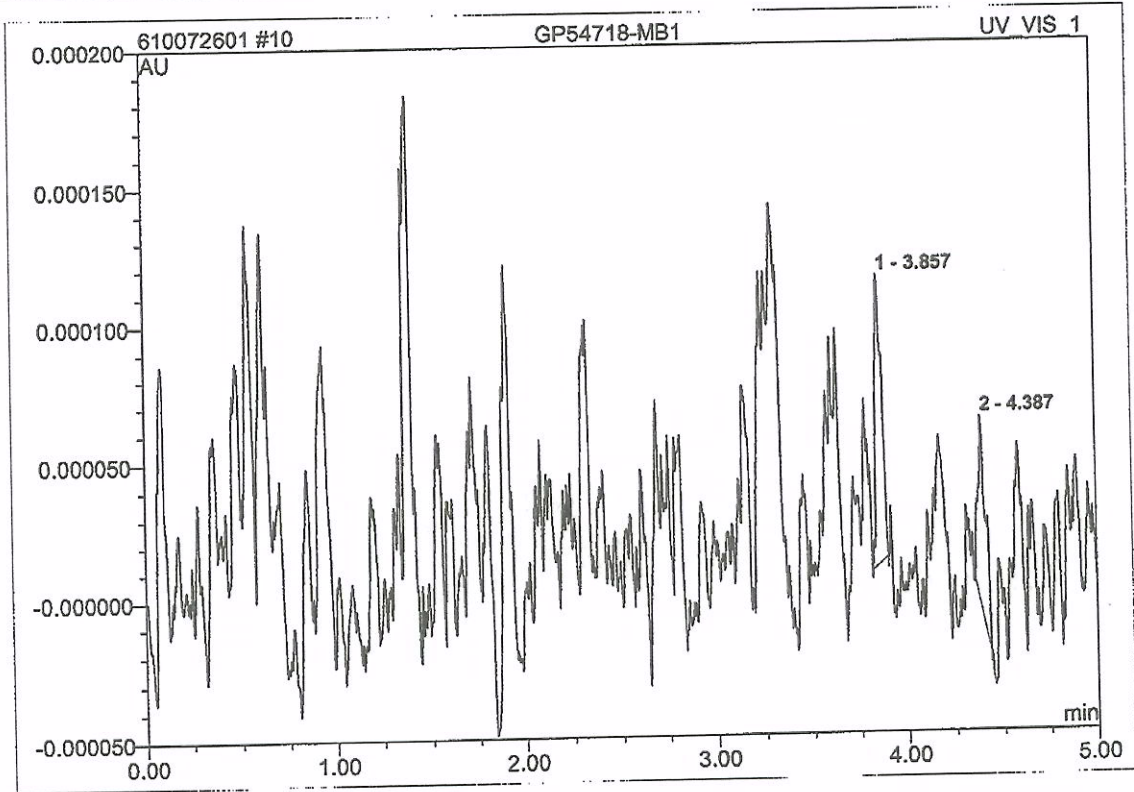


No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.56	n.a.	0.000	0.000	9.70	n.a.	BMB
2	2.71	n.a.	0.000	0.000	8.32	n.a.	BMB
3	3.24	Cr-6	0.000	0.000	15.19	0.0004	BMB
4	3.87	n.a.	0.000	0.000	21.82	n.a.	BMB
5	4.31	n.a.	0.000	0.000	13.38	n.a.	BMB
6	4.44	n.a.	0.000	0.000	18.95	n.a.	BMB
7	4.70	n.a.	0.000	0.000	12.65	n.a.	BMB
Total:			0.001	0.000	100.00	0.000	

hexachrome/Integration

Chromleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

10 GP54718-MB1			
Sample Name:	GP54718-MB1	Injection Volume:	25.0
Vial Number:	10	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/26/2010 10:00	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



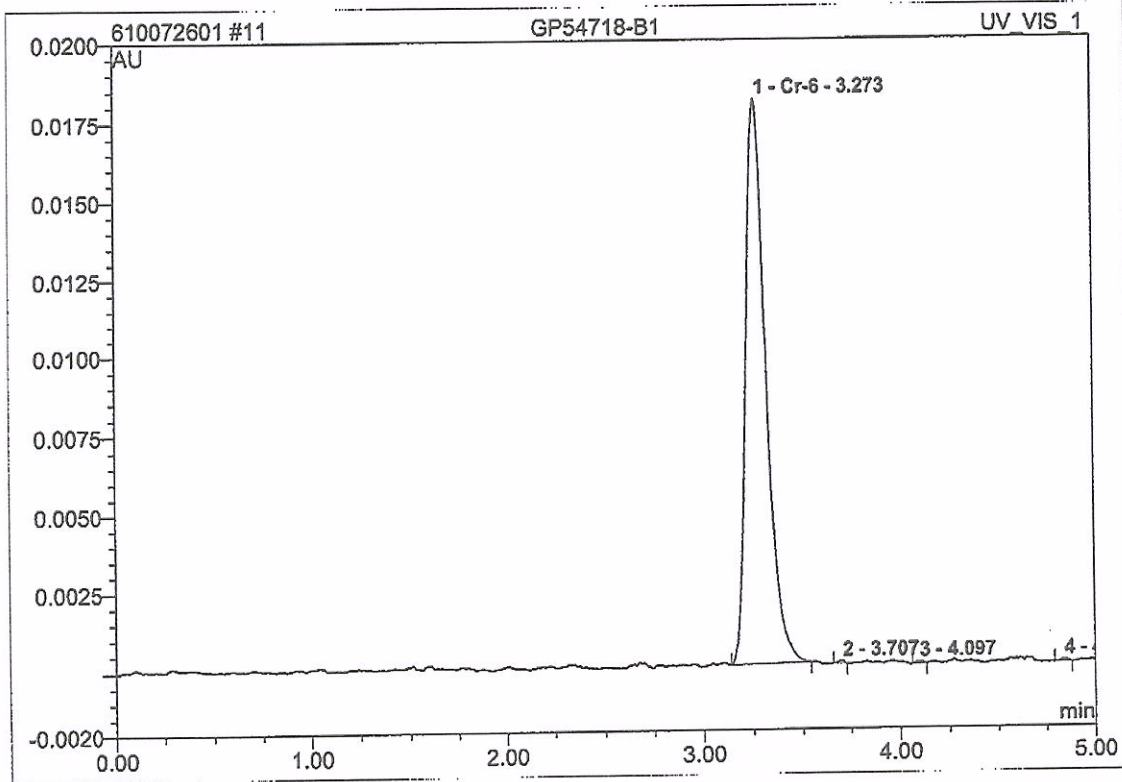
No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.86	n.a.	0.000	0.000	57.05	n.a.	BMB
2	4.39	n.a.	0.000	0.000	42.95	n.a.	BMB
Total:			0.000	0.000	100.00	0.000	

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

11 GP54718-B1			
Sample Name:	GP54718-B1	Injection Volume:	25.0
Vial Number:	11	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	4.0000
Recording Time:	7/26/2010 10:07	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

6.3
6

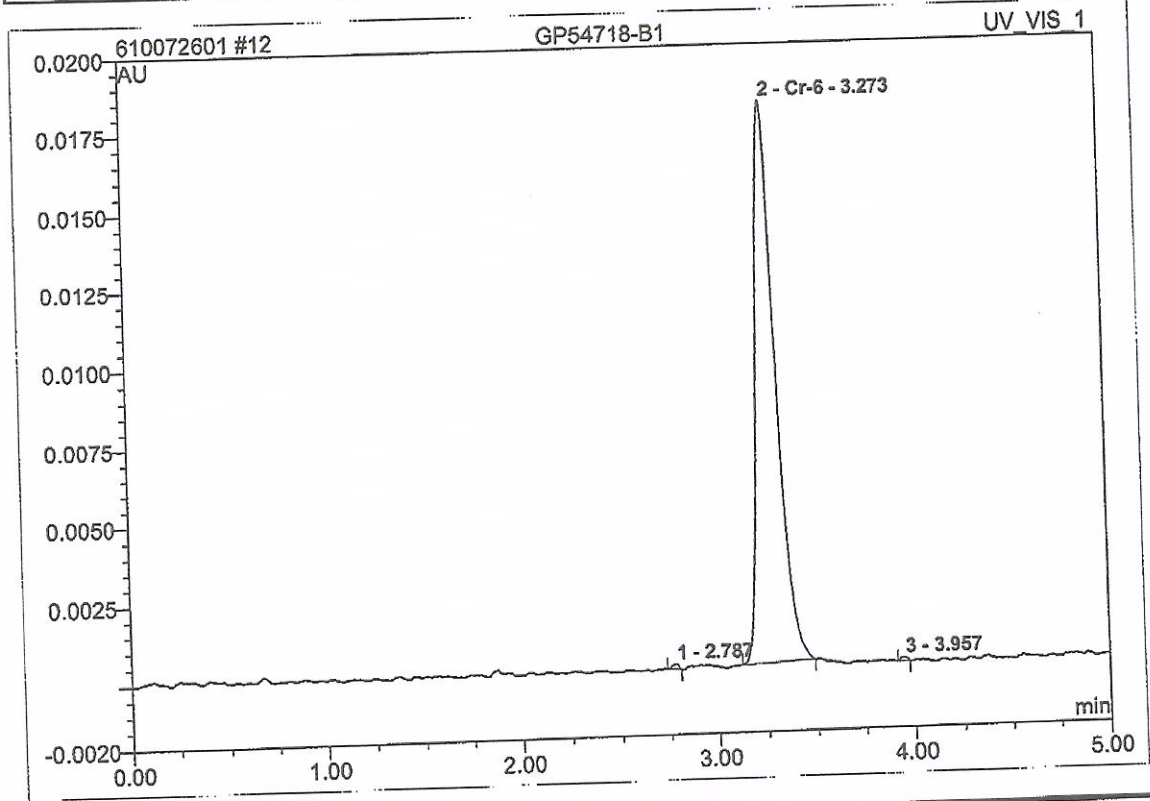


No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.27	Cr-6	0.018	0.002	99.52	0.9298	BMB
2	3.71	n.a.	0.000	0.000	0.16	n.a.	BMB
3	4.10	n.a.	0.000	0.000	0.15	n.a.	BMB
4	4.84	n.a.	0.000	0.000	0.16	n.a.	BMB
Total:			0.018	0.002	100.00	0.930	

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

12 GP54718-B1			
Sample Name:	GP54718-B1	Injection Volume:	25.0
Vial Number:	12	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	4.0000
Recording Time:	7/26/2010 10:15	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



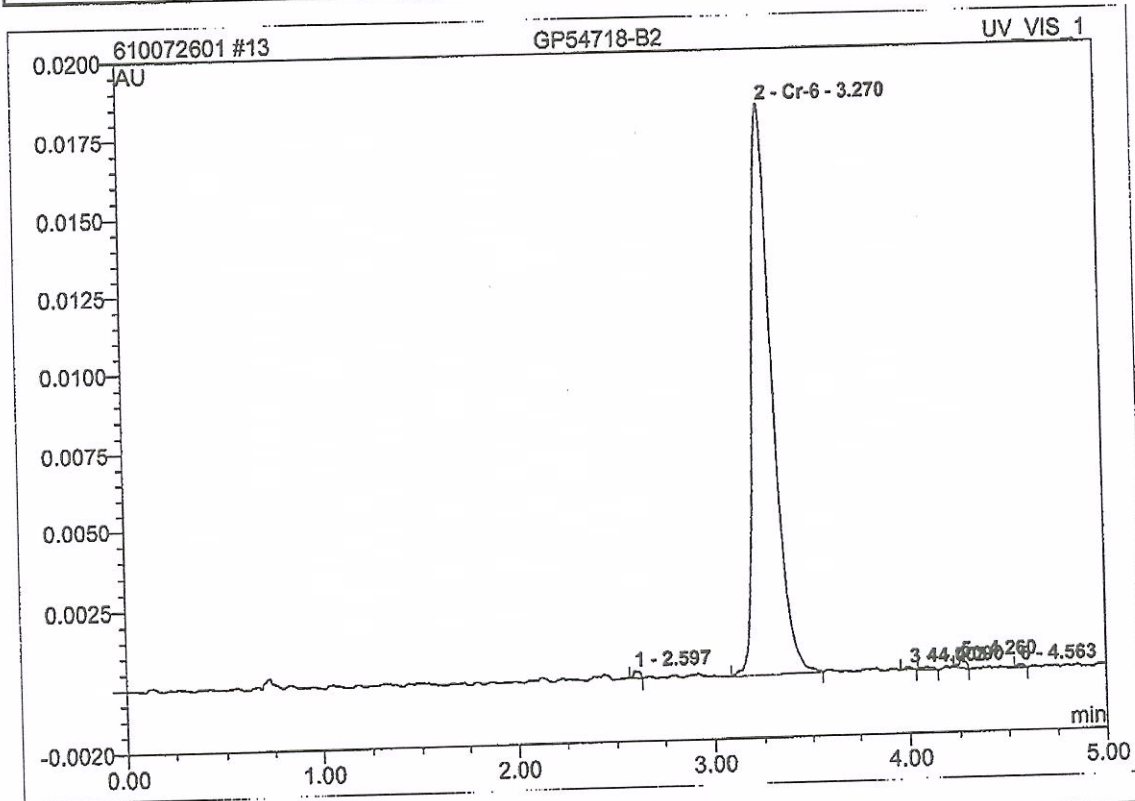
No.	Ret. Time min	Peak Name	Height AU	Area AU*min	Rel. Area %	Amount ppm	Type
1	2.79	n.a.	0.000	0.000	0.31	n.a.	BMB
2	3.27	Cr-6	0.018	0.002	99.46	0.9165	BMB
3	3.96	n.a.	0.000	0.000	0.23	n.a.	BMB
Total:			0.018	0.002	100.00	0.916	

hexachrome/Integration

Chromleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

13 GP54718-B2

Sample Name:	GP54718-B2	Injection Volume:	25.0
Vial Number:	13	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	90.0000
Recording Time:	7/26/2010 10:22	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.60	n.a.	0.000	0.000	0.41	n.a.	BMB
2	3.27	Cr-6	0.018	0.002	98.51	21.3230	BMB
3	4.00	n.a.	0.000	0.000	0.14	n.a.	BMB
4	4.09	n.a.	0.000	0.000	0.27	n.a.	BMB
5	4.26	n.a.	0.000	0.000	0.50	n.a.	BMB
6	4.56	n.a.	0.000	0.000	0.17	n.a.	BMB
Total:			0.019	0.002	100.00	21.323	

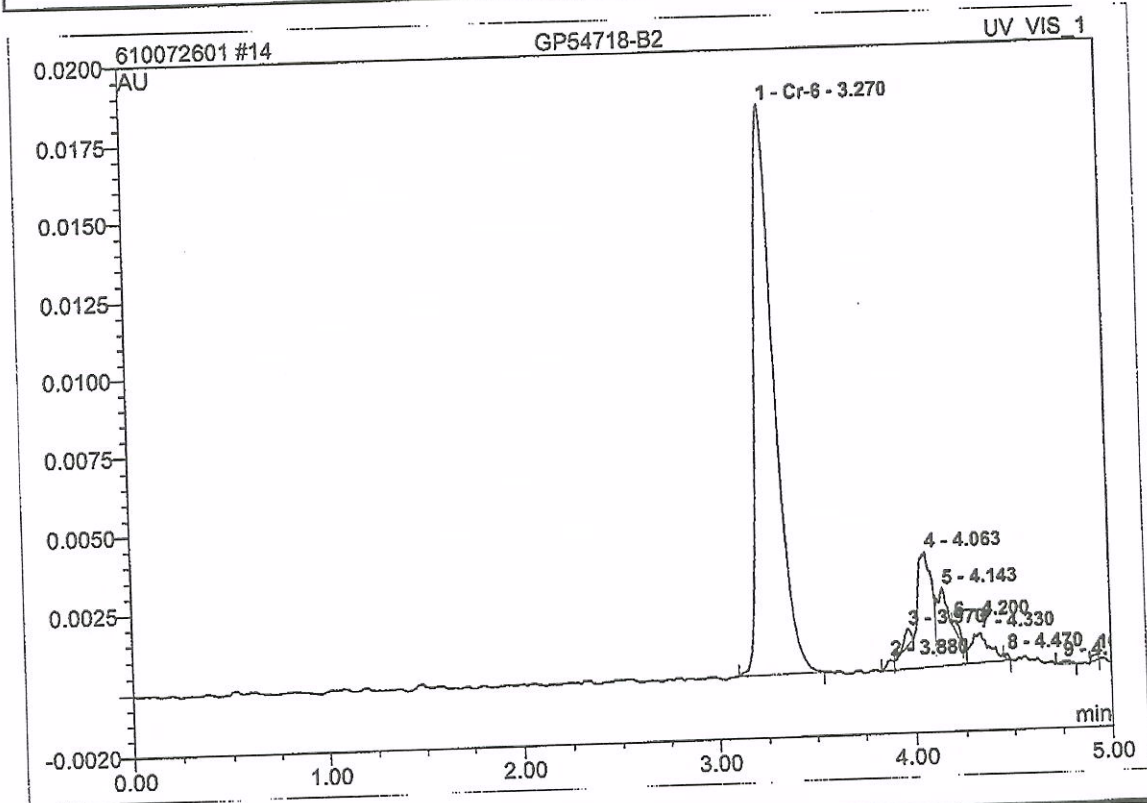
hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

Operator:Chemistry Timebase:accutest Sequence:610072601

14 GP54718-B2

Sample Name:	GP54718-B2	Injection Volume:	25.0
Vial Number:	14	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	90.0000
Recording Time:	7/26/2010 10:30	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.27	Cr-6	0.018	0.002	74.12	21.0793	BMB
2	3.88	n.a.	0.000	0.000	0.47	n.a.	BM
3	3.97	n.a.	0.001	0.000	0.72	n.a.	Ru
4	4.06	n.a.	0.004	0.000	12.35	n.a.	M
5	4.14	n.a.	0.002	0.000	7.71	n.a.	M
6	4.20	n.a.	0.000	0.000	0.47	n.a.	Rd
7	4.33	n.a.	0.001	0.000	3.61	n.a.	MB
8	4.47	n.a.	0.000	0.000	0.11	n.a.	Rd
9	4.76	n.a.	0.000	0.000	0.19	n.a.	BMB
10	4.93	n.a.	0.000	0.000	0.26	n.a.	BMB
Total:			0.027	0.003	100.00	21.079	

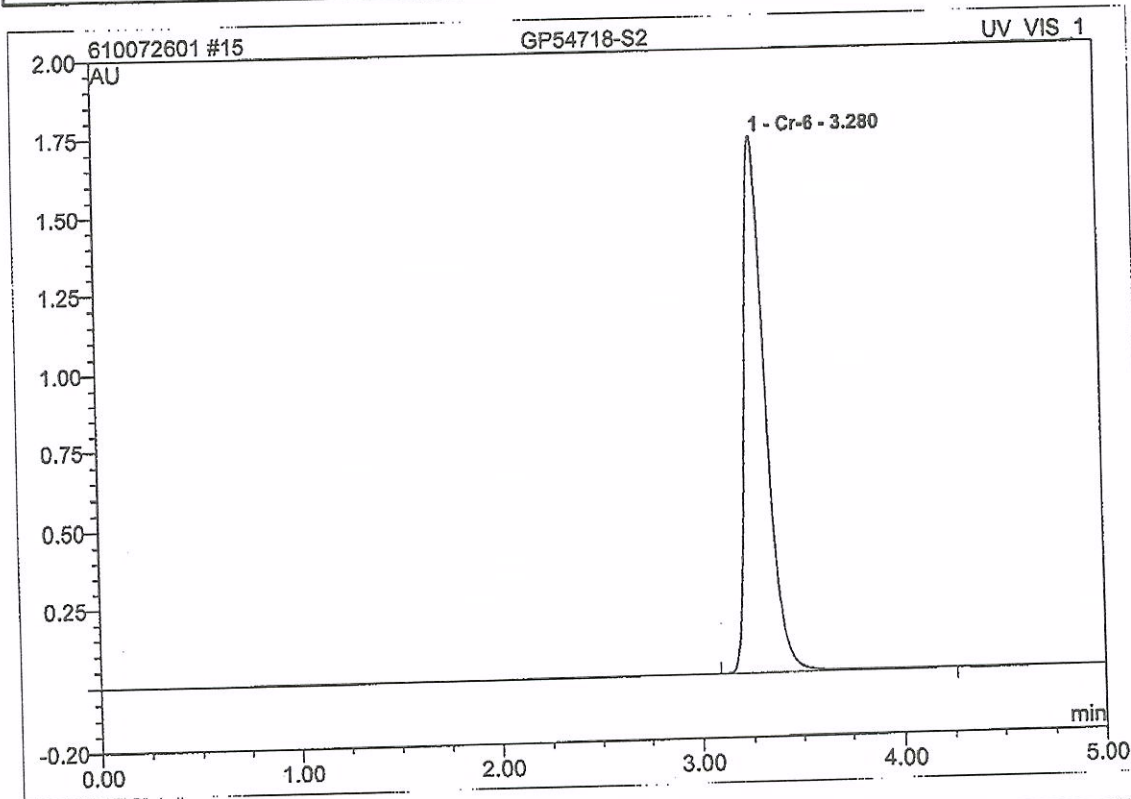
Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

hexachrome/Integration

63
6

15 GP54718-S2

Sample Name:	GP54718-S2	Injection Volume:	25.0
Vial Number:	15	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/26/2010 10:37	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.28	Cr-6	1.719	0.206	100.00	22.9094	BMB
Total:			1.719	0.206	100.00	22.909	

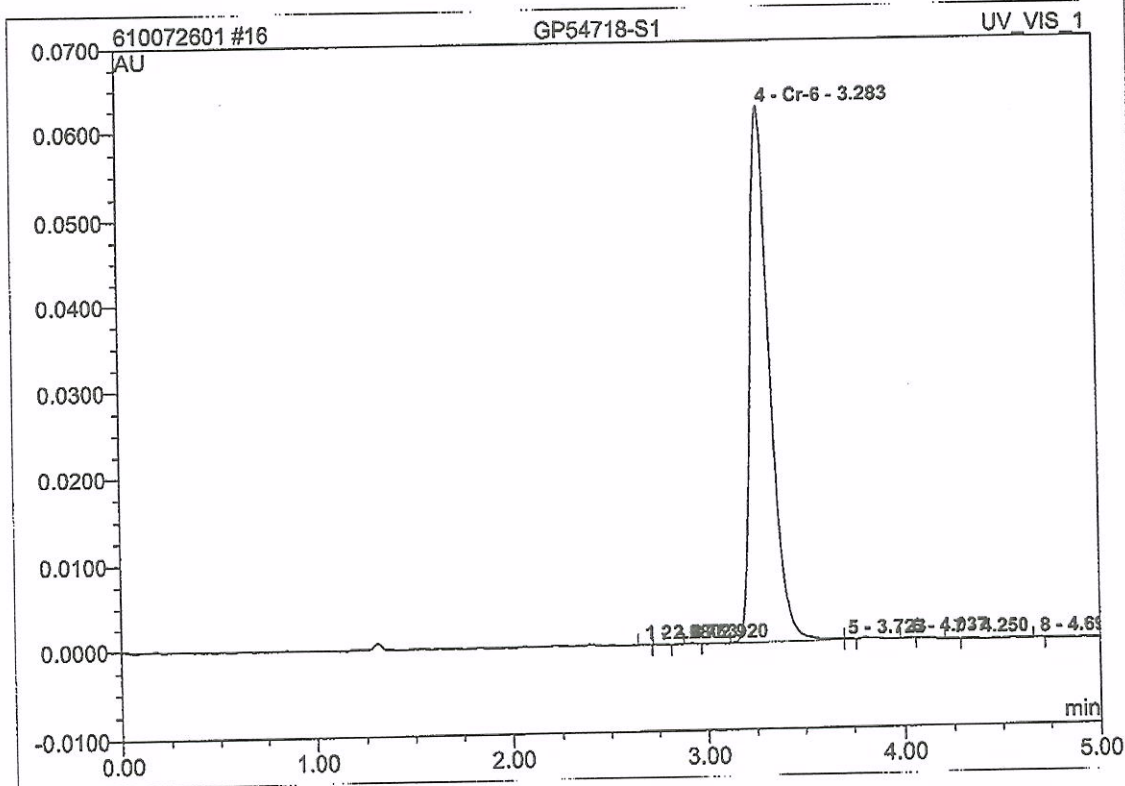
hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

6.3
6

16 GP54718-S1

Sample Name:	GP54718-S1	Injection Volume:	25.0
Vial Number:	16	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/26/2010 10:44	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

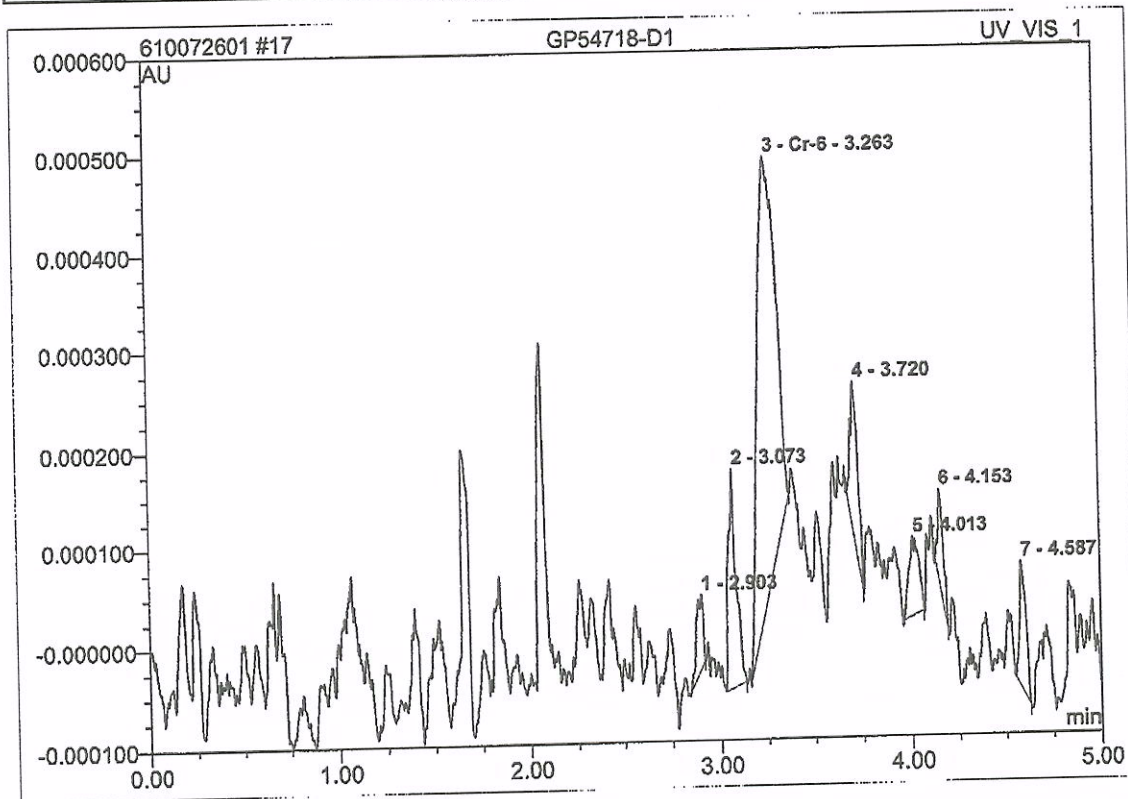


No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.68	n.a.	0.000	0.000	0.07	n.a.	BMB
2	2.76	n.a.	0.000	0.000	0.09	n.a.	BMB
3	2.92	n.a.	0.000	0.000	0.06	n.a.	BMB
4	3.28	Cr-6	0.062	0.007	99.56	0.8117	BM
5	3.72	n.a.	0.000	0.000	0.07	n.a.	MB
6	4.04	n.a.	0.000	0.000	0.05	n.a.	BMB
7	4.25	n.a.	0.000	0.000	0.06	n.a.	BMB
8	4.70	n.a.	0.000	0.000	0.05	n.a.	BMB
Total:			0.063	0.007	100.00	0.812	

hexachrome/Integration

Chromleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

17 GP54718-D1			
Sample Name:	GP54718-D1	Injection Volume:	25.0
Vial Number:	17	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/26/2010 10:52	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



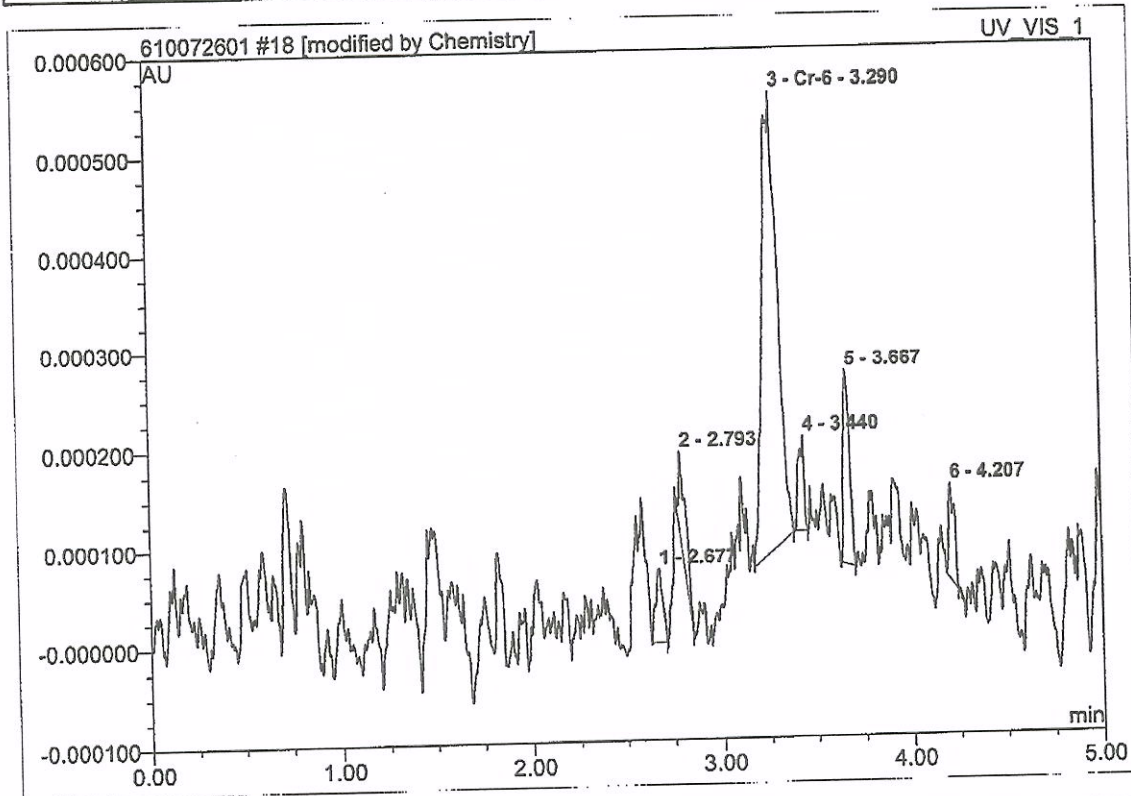
No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.90	n.a.	0.000	0.000	3.58	n.a.	BMB
2	3.07	n.a.	0.000	0.000	11.85	n.a.	BMB
3	3.26	Cr-6	0.000	0.000	61.12	0.0055	BMB
4	3.72	n.a.	0.000	0.000	8.13	n.a.	BMB
5	4.01	n.a.	0.000	0.000	5.48	n.a.	BMB
6	4.15	n.a.	0.000	0.000	3.95	n.a.	BMB
7	4.59	n.a.	0.000	0.000	5.89	n.a.	BMB
Total:			0.001	0.000	100.00	0.005	

hexachrome/Integration

Chromleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

18 GP54718-D1

Sample Name:	GP54718-D1	Injection Volume:	25.0
Vial Number:	18	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/26/2010 10:59	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



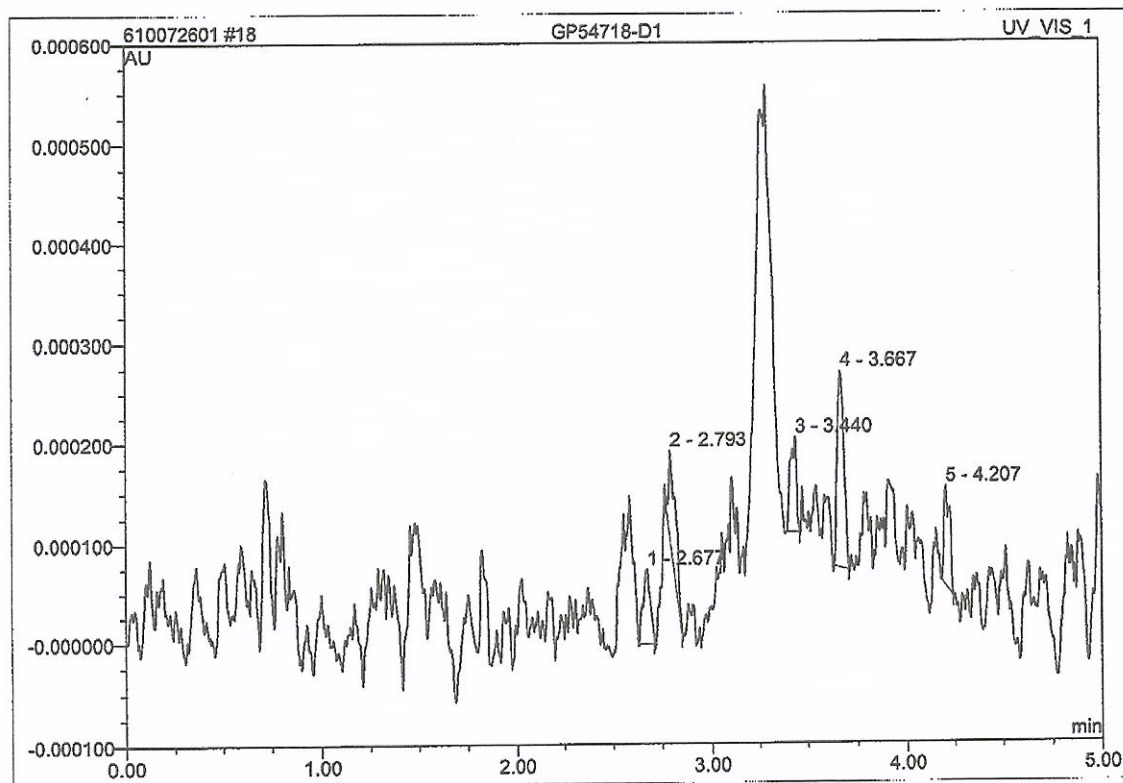
No.	Ret. Time min	Peak Name	Height AU	Area AU*min	Rel. Area %	Amount ppm	Type
1	2.68	n.a.	0.000	0.000	4.79	n.a.	BMB
2	2.79	n.a.	0.000	0.000	5.71	n.a.	BMB
3	3.29	Cr-6	0.000	0.000	67.24	0.0047	BMB*
4	3.44	n.a.	0.000	0.000	5.14	n.a.	BMB
5	3.67	n.a.	0.000	0.000	11.61	n.a.	BMB
6	4.21	n.a.	0.000	0.000	5.50	n.a.	BMB
Total:			0.001	0.000	100.00	0.005	

hexachrome/Integration

Chromleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

18 GP54718-D1

Sample Name:	GP54718-D1	Injection Volume:	25.0
Vial Number:	18	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/26/2010 10:59	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.68	n.a.	0.000	0.000	14.63	n.a.	BMB
2	2.79	n.a.	0.000	0.000	17.44	n.a.	BMB
3	3.44	n.a.	0.000	0.000	15.70	n.a.	BMB
4	3.67	n.a.	0.000	0.000	35.44	n.a.	BMB
5	4.21	n.a.	0.000	0.000	16.78	n.a.	BMB
Total:			0.001	0.000	100.00	0.000	

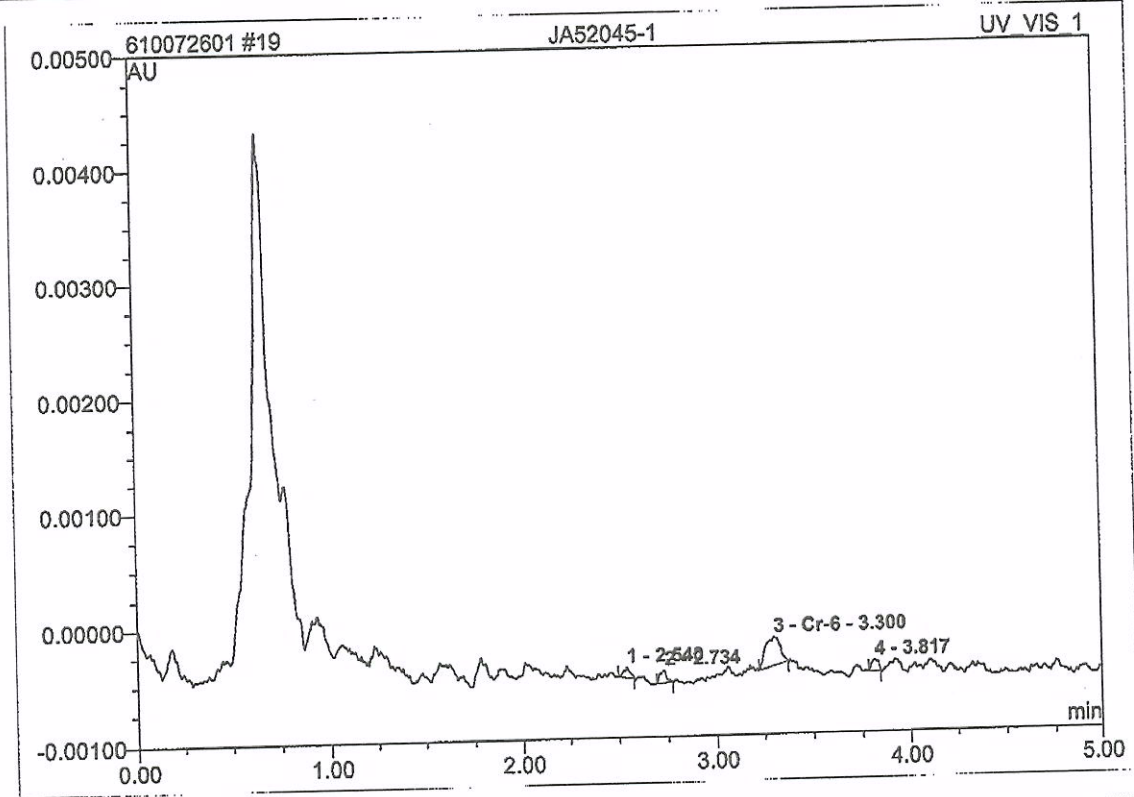
MP BD 7/26/10

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

19 JA52045-1			
Sample Name:	JA52045-1	Injection Volume:	25.0
Vial Number:	19	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/26/2010 11:07	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

6.3
6



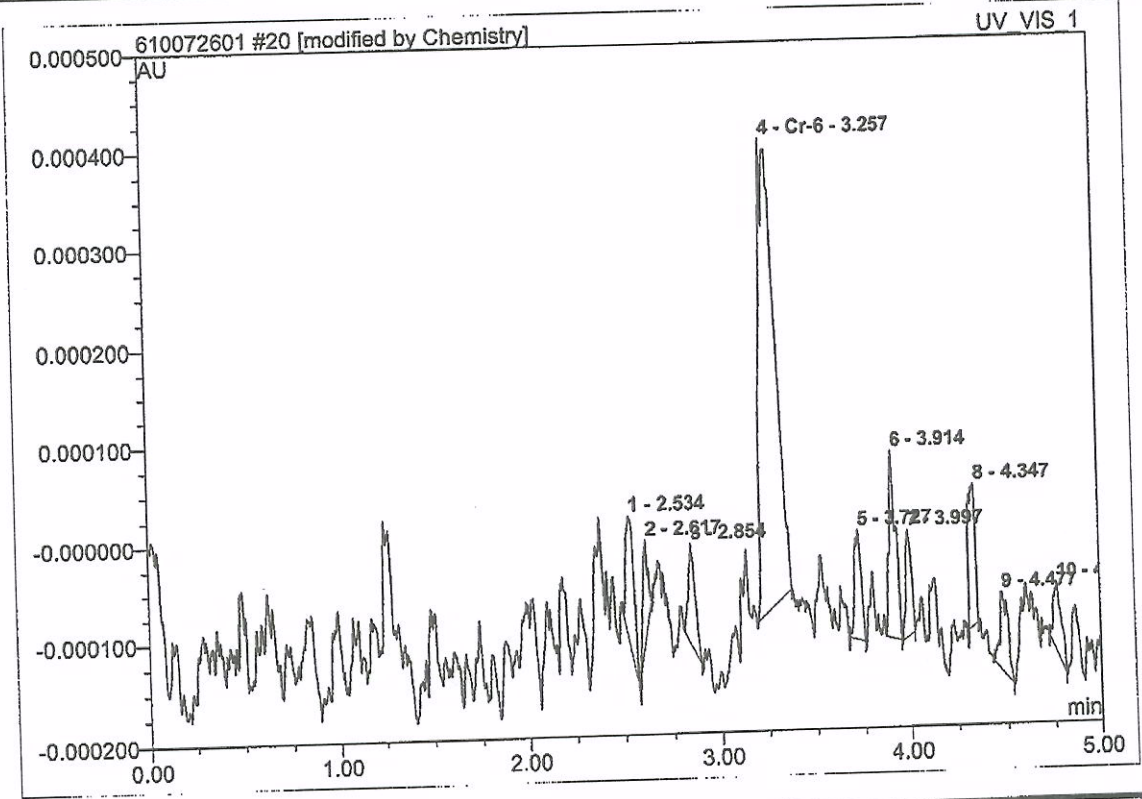
No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.54	n.a.	0.000	0.000	10.10	n.a.	BMB
2	2.73	n.a.	0.000	0.000	13.76	n.a.	BMB
3	3.30	Cr-6	0.000	0.000	64.55	0.0022	BMB
4	3.82	n.a.	0.000	0.000	11.59	n.a.	BMB
Total:			0.001	0.000	100.00	0.002	

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

20 JA52045-1conf			
Sample Name:	JA52045-1conf	Injection Volume:	25.0
Vial Number:	20	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/26/2010 11:14	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

63
6



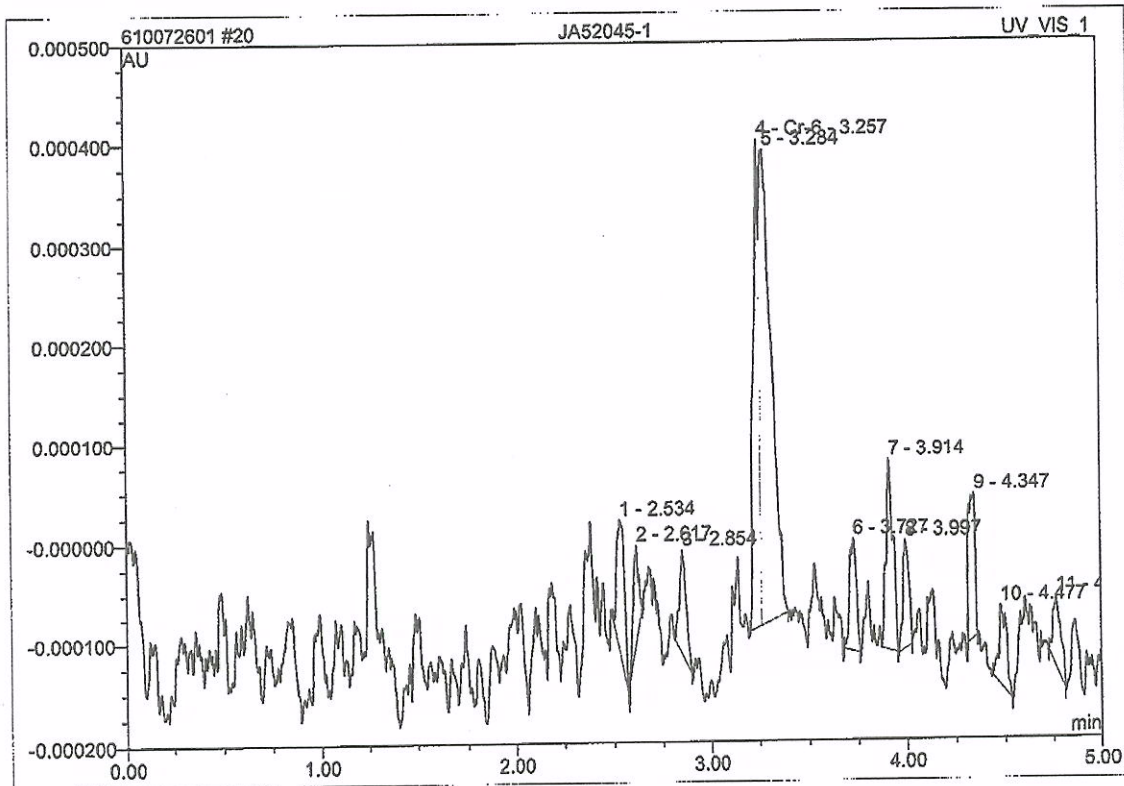
No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.53	n.a.	0.000	0.000	6.70	n.a.	BMB
2	2.62	n.a.	0.000	0.000	3.66	n.a.	BMB
3	2.85	n.a.	0.000	0.000	4.90	n.a.	BMB
4	3.26	Cr-6	0.000	0.000	51.68	0.0048	BMB*
5	3.73	n.a.	0.000	0.000	5.14	n.a.	BMB
6	3.91	n.a.	0.000	0.000	9.12	n.a.	BMB
7	4.00	n.a.	0.000	0.000	4.48	n.a.	BMB
8	4.35	n.a.	0.000	0.000	6.32	n.a.	BMB
9	4.48	n.a.	0.000	0.000	4.22	n.a.	BMB
10	4.77	n.a.	0.000	0.000	3.79	n.a.	BMB
Total:			0.002	0.000	100.00	0.005	

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

hexachrome/Integration

20 JA52045-1

Sample Name:	JA52045-1	Injection Volume:	25.0
Vial Number:	20	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/26/2010 11:14	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.53	n.a.	0.000	0.000	6.58	n.a.	BMB
2	2.62	n.a.	0.000	0.000	3.60	n.a.	BMB
3	2.85	n.a.	0.000	0.000	4.82	n.a.	BMB
4	3.26	Cr-6	0.000	0.000	17.02	0.0014	BM
5	3.28	n.a.	0.000	0.000	35.46	n.a.	MB
6	3.73	n.a.	0.000	0.000	5.05	n.a.	BMB
7	3.91	n.a.	0.000	0.000	8.96	n.a.	BMB
8	4.00	n.a.	0.000	0.000	4.40	n.a.	BMB
9	4.35	n.a.	0.000	0.000	6.21	n.a.	BMB
10	4.48	n.a.	0.000	0.000	4.15	n.a.	BMB
11	4.77	n.a.	0.000	0.000	3.73	n.a.	BMB

Chromleon (c) Dionex 1996-2001
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hexachrome/Integration

Operator:Chemistry Timebase:accutest Sequence:610072601

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7/26/2010 11:22 AM

Total:	0.002	0.000	100.00	0.001
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PII SD 7/26/10

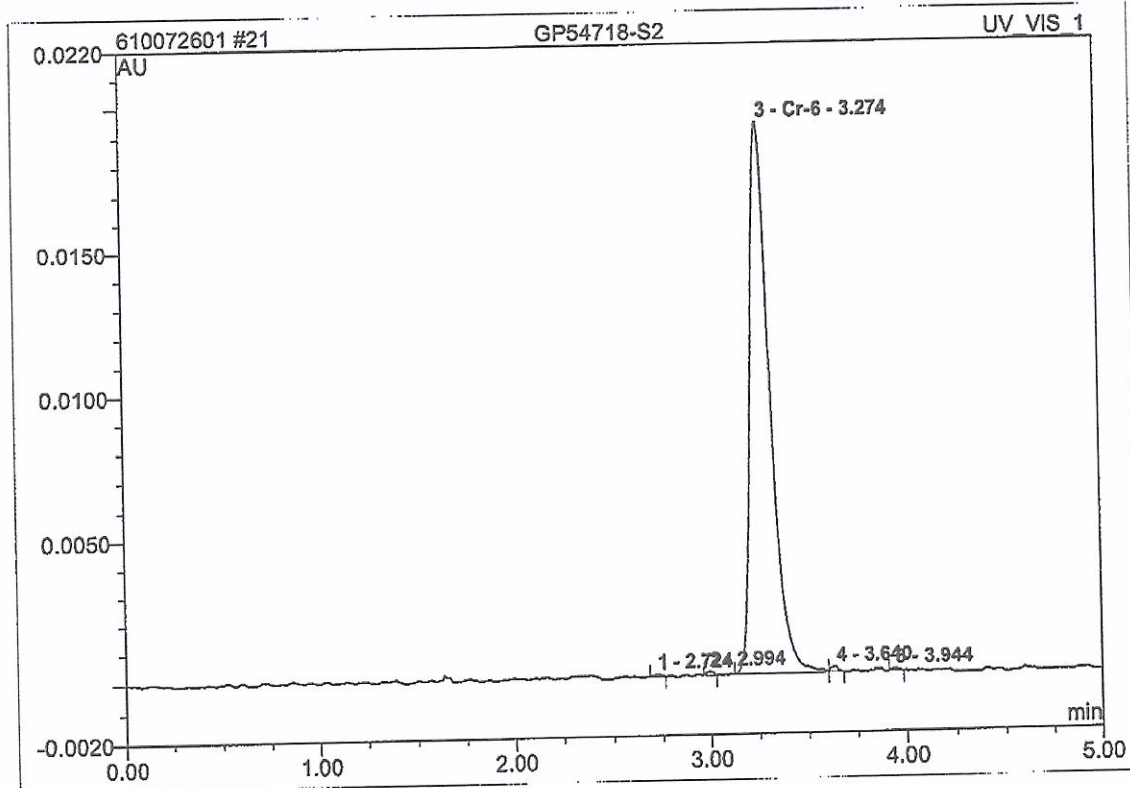
6.3
6

hexachrome/Integration

Chromleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

21 GP54718-S2

Sample Name:	GP54718-S2	Injection Volume:	25.0
Vial Number:	21	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	100.0000
Recording Time:	7/26/2010 11:21	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



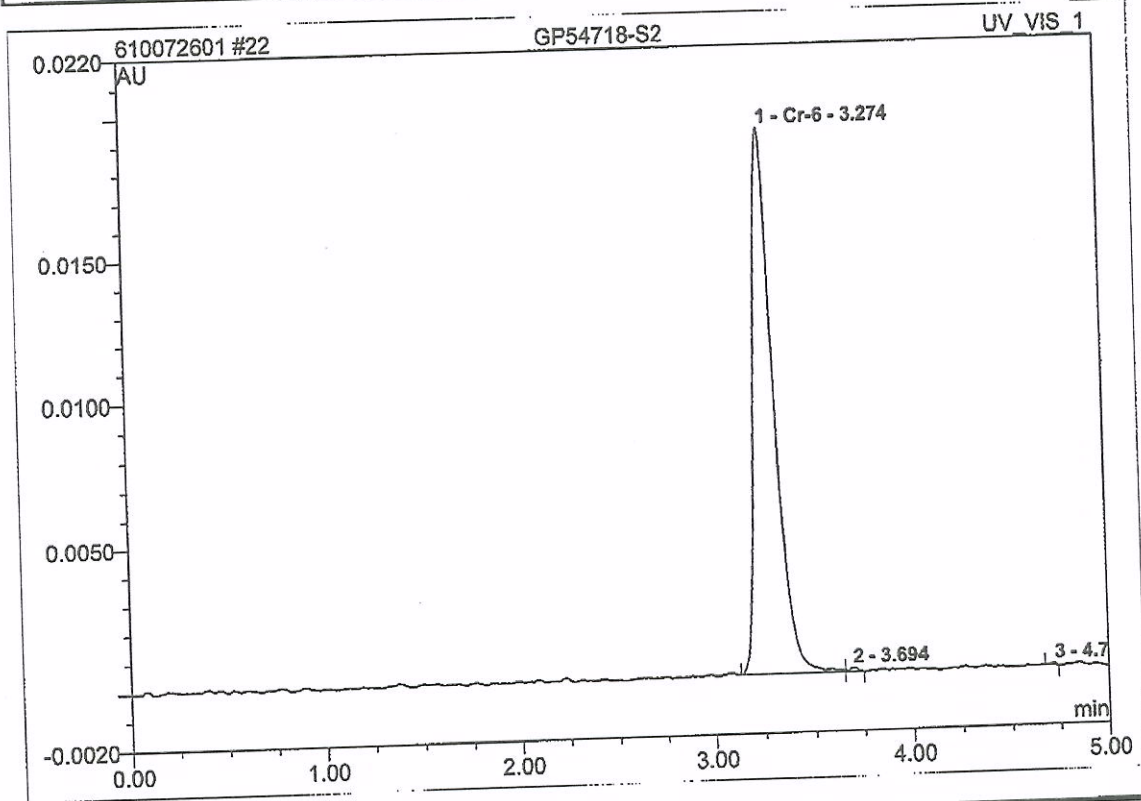
No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.72	n.a.	0.000	0.000	0.21	n.a.	BMB
2	2.99	n.a.	0.000	0.000	0.23	n.a.	BMB
3	3.27	Cr-6	0.019	0.002	99.05	24.9033	BM
4	3.64	n.a.	0.000	0.000	0.36	n.a.	MB
5	3.94	n.a.	0.000	0.000	0.16	n.a.	BMB
Total:			0.020	0.002	100.00	24.903	

hexachrome/Integration

Chromleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

22 GP54718-S2

Sample Name:	GP54718-S2	Injection Volume:	25.0
Vial Number:	22	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	100.0000
Recording Time:	7/26/2010 11:29	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.27	Cr-6	0.019	0.002	99.54	24.7664	BM
2	3.69	n.a.	0.000	0.000	0.32	n.a.	MB
3	4.72	n.a.	0.000	0.000	0.14	n.a.	BMB
Total:			0.019	0.002	100.00	24.766	

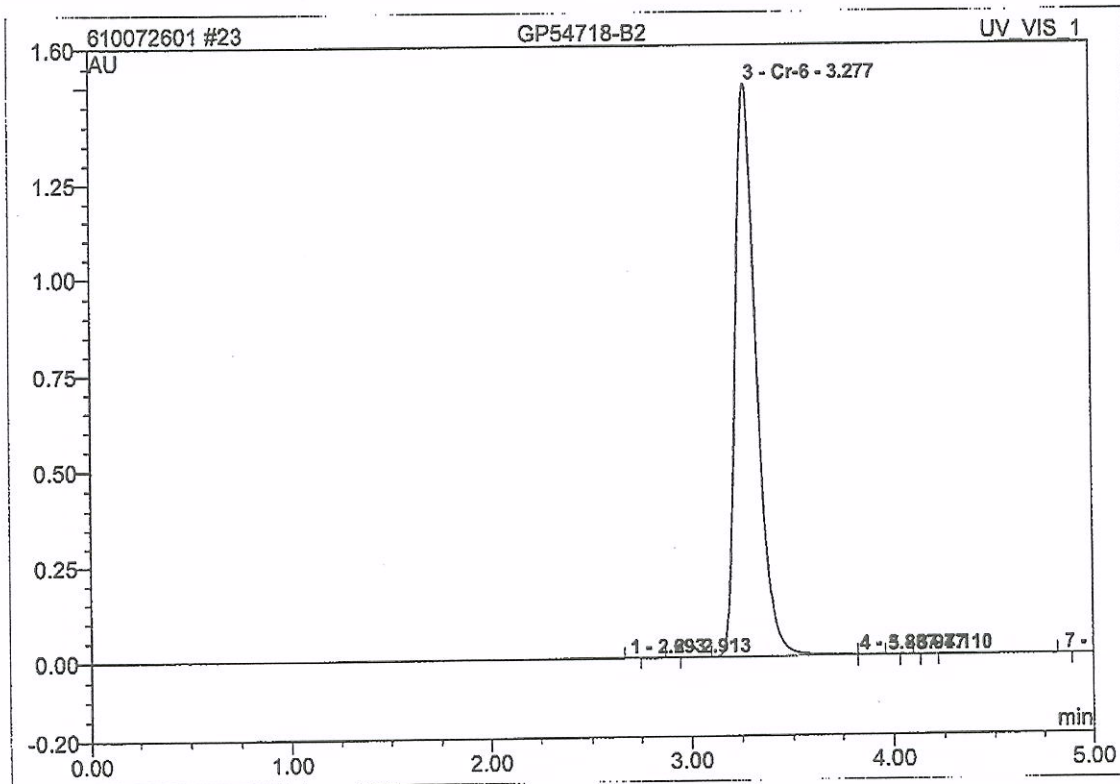
hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

6.3
6

23 GP54718-B2

Sample Name:	GP54718-B2	Injection Volume:	25.0
Vial Number:	23	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/26/2010 11:36	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



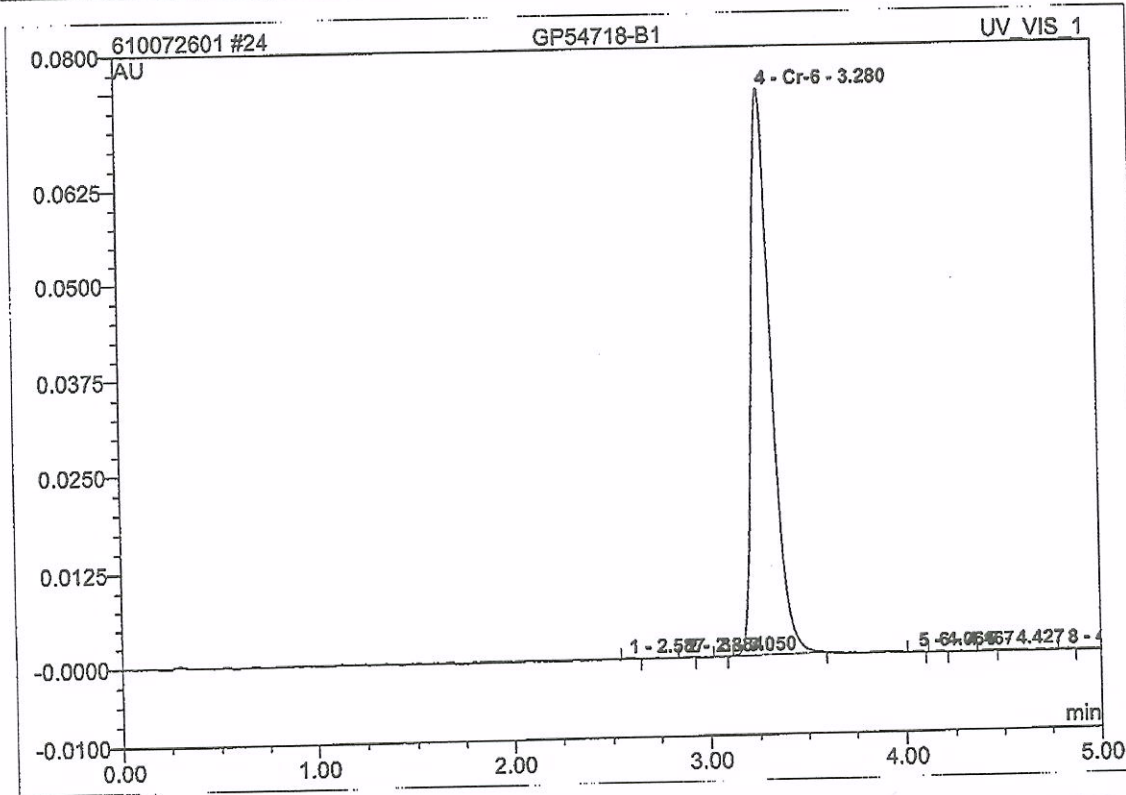
No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.69	n.a.	0.000	0.000	0.00	n.a.	BMB
2	2.91	n.a.	0.000	0.000	0.00	n.a.	BMB
3	3.28	Cr-6	1.500	0.178	99.86	19.7714	BM
4	3.84	n.a.	0.001	0.000	0.13	n.a.	MB
5	3.98	n.a.	0.000	0.000	0.00	n.a.	Rd
6	4.11	n.a.	0.000	0.000	0.00	n.a.	Rd
7	4.86	n.a.	0.000	0.000	0.00	n.a.	BMB
Total:			1.501	0.178	100.00	19.771	

hexachrome/Integration

Chromleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

24 GP54718-B1

Sample Name:	GP54718-B1	Injection Volume:	25.0
Vial Number:	24	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/26/2010 11:44	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



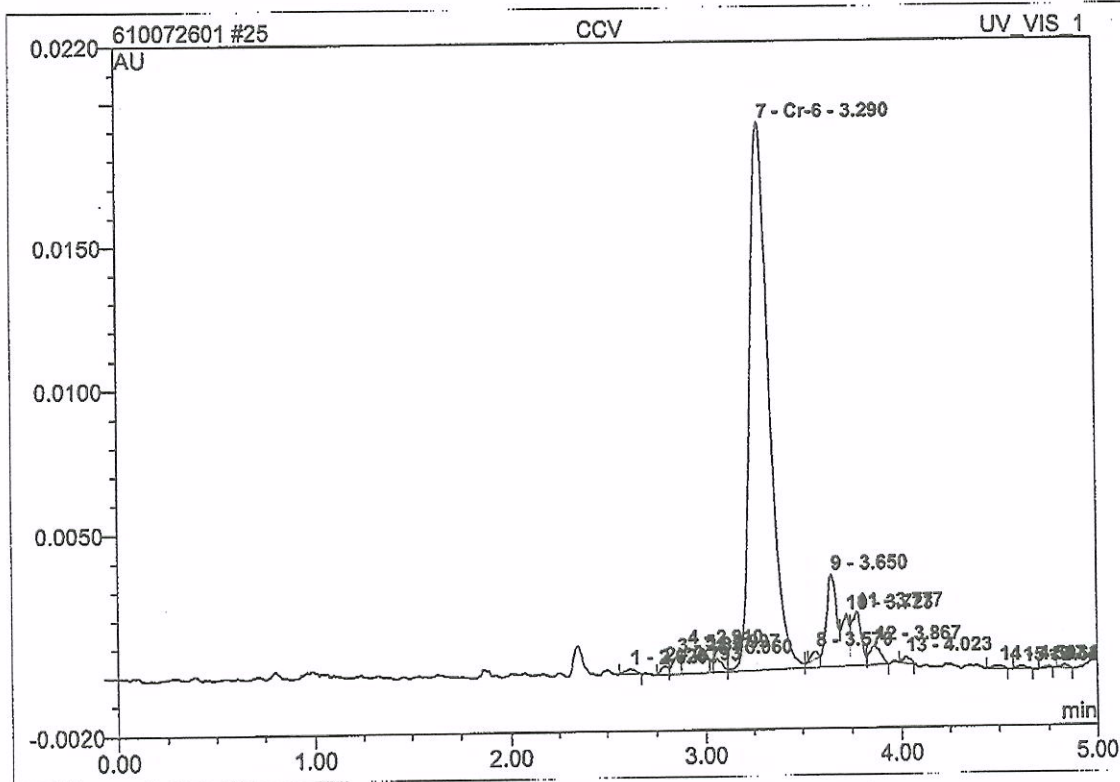
No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.59	n.a.	0.000	0.000	0.09	n.a.	BMB
2	2.88	n.a.	0.000	0.000	0.04	n.a.	BMB
3	3.05	n.a.	0.000	0.000	0.04	n.a.	BMB
4	3.28	Cr-6	0.074	0.009	99.54	0.9565	BMB
5	4.06	n.a.	0.000	0.000	0.07	n.a.	BMB
6	4.17	n.a.	0.000	0.000	0.07	n.a.	BMB
7	4.43	n.a.	0.000	0.000	0.06	n.a.	BMB
8	4.83	n.a.	0.000	0.000	0.08	n.a.	BMB
Total:			0.075	0.009	100.00	0.957	

hexachrome/Integration

Chromleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

25 CCV

Sample Name:	CCV	Injection Volume:	25.0
Vial Number:	25	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/26/2010 11:51	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.62	n.a.	0.000	0.000	0.37	n.a.	BMB
2	2.79	n.a.	0.000	0.000	0.47	n.a.	BM
3	2.86	n.a.	0.001	0.000	1.05	n.a.	M
4	2.91	n.a.	0.001	0.000	3.49	n.a.	M
5	3.00	n.a.	0.000	0.000	0.16	n.a.	Rd
6	3.06	n.a.	0.000	0.000	0.83	n.a.	M
7	3.29	Cr-6	0.019	0.002	77.03	0.2478	M
8	3.57	n.a.	0.000	0.000	0.37	n.a.	Ru
9	3.65	n.a.	0.003	0.000	7.34	n.a.	M
10	3.72	n.a.	0.002	0.000	2.71	n.a.	M
11	3.78	n.a.	0.002	0.000	3.55	n.a.	M

Chromleon (c) Dionex 1996-2001
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hexachrome/Integration

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Operator:Chemistry Timebase:accutest Sequence:610072601

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12	3.87	n.a.	0.001	0.000	1.50	n.a.	MB
13	4.02	n.a.	0.000	0.000	0.35	n.a.	BMB
14	4.50	n.a.	0.000	0.000	0.26	n.a.	BMB
15	4.62	n.a.	0.000	0.000	0.23	n.a.	BMB
16	4.75	n.a.	0.000	0.000	0.11	n.a.	BMB
17	4.83	n.a.	0.000	0.000	0.19	n.a.	BMB
Total:			0.030	0.003	100.00	0.248	

63

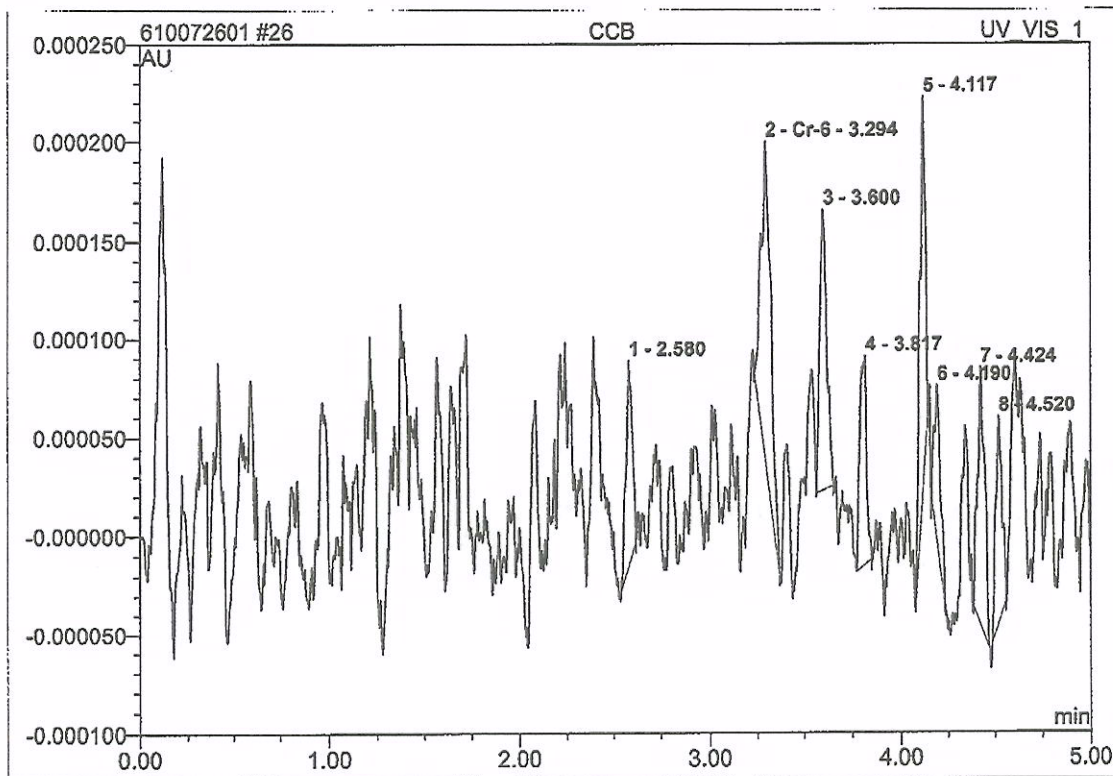
6

hexachrome/Integration

Chromleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

26 CCB

Sample Name:	CCB	Injection Volume:	25.0
Vial Number:	26	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/26/2010 11:58	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



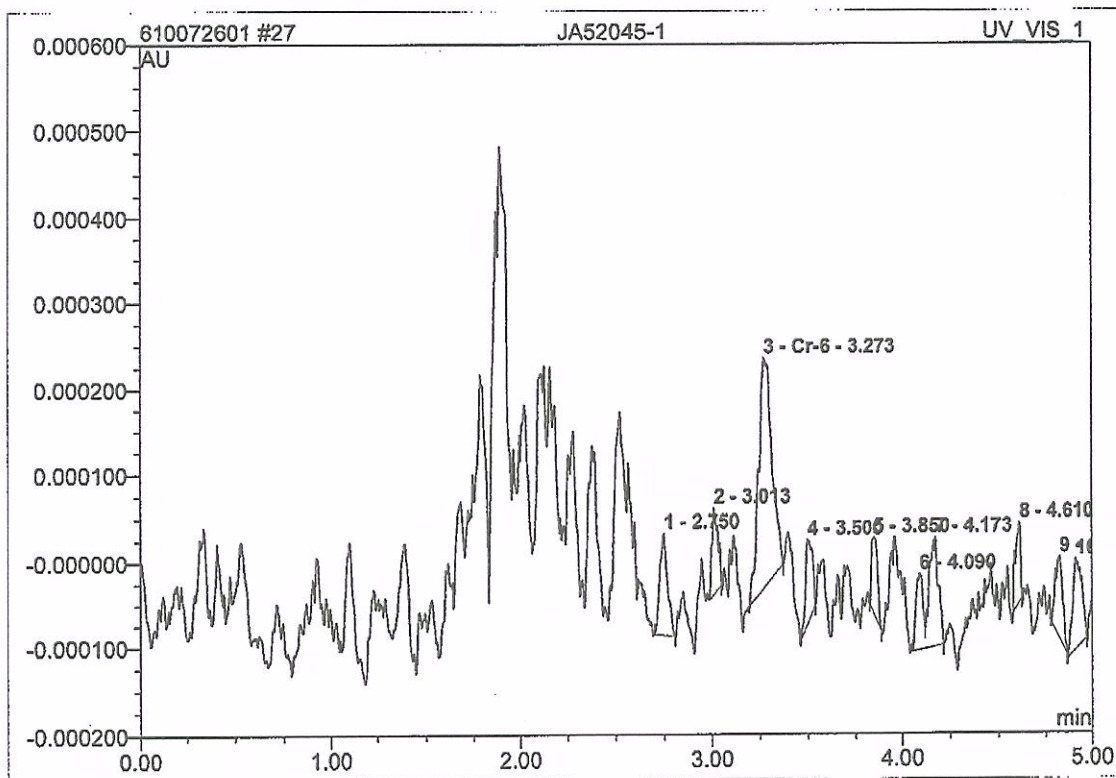
No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.58	n.a.	0.000	0.000	9.11	n.a.	BMB
2	3.29	Cr-6	0.000	0.000	22.28	0.0008	BMB
3	3.60	n.a.	0.000	0.000	13.73	n.a.	BMB
4	3.82	n.a.	0.000	0.000	9.61	n.a.	BMB
5	4.12	n.a.	0.000	0.000	15.26	n.a.	BMB
6	4.19	n.a.	0.000	0.000	7.09	n.a.	BMB
7	4.42	n.a.	0.000	0.000	13.43	n.a.	BMB
8	4.52	n.a.	0.000	0.000	9.49	n.a.	BMB
Total:			0.001	0.000	100.00	0.001	

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

27 JA52045-1

Sample Name:	JA52045-1	Injection Volume:	25.0
Vial Number:	27	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/26/2010 12:06	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



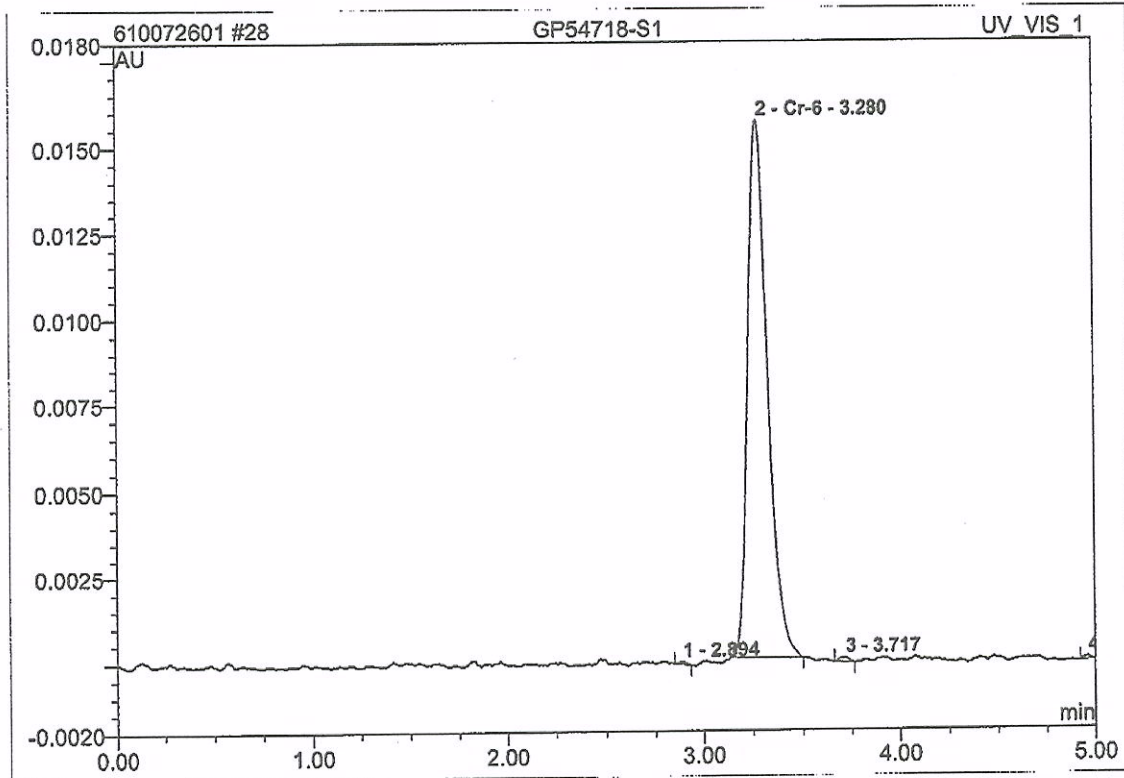
No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.75	n.a.	0.000	0.000	8.92	n.a.	BMB
2	3.01	n.a.	0.000	0.000	6.10	n.a.	BMB
3	3.27	Cr-6	0.000	0.000	33.92	0.0021	BMB
4	3.50	n.a.	0.000	0.000	6.27	n.a.	BMB
5	3.85	n.a.	0.000	0.000	5.48	n.a.	BMB
6	4.09	n.a.	0.000	0.000	6.10	n.a.	BM
7	4.17	n.a.	0.000	0.000	11.52	n.a.	MB
8	4.61	n.a.	0.000	0.000	4.88	n.a.	BMB
9	4.83	n.a.	0.000	0.000	7.12	n.a.	BMB
10	4.91	n.a.	0.000	0.000	9.69	n.a.	BMB
Total:			0.001	0.000	100.00	0.002	

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

28 GP54718-S1

Sample Name:	GP54718-S1	Injection Volume:	25.0
Vial Number:	28	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	4.0000
Recording Time:	7/26/2010 12:13	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



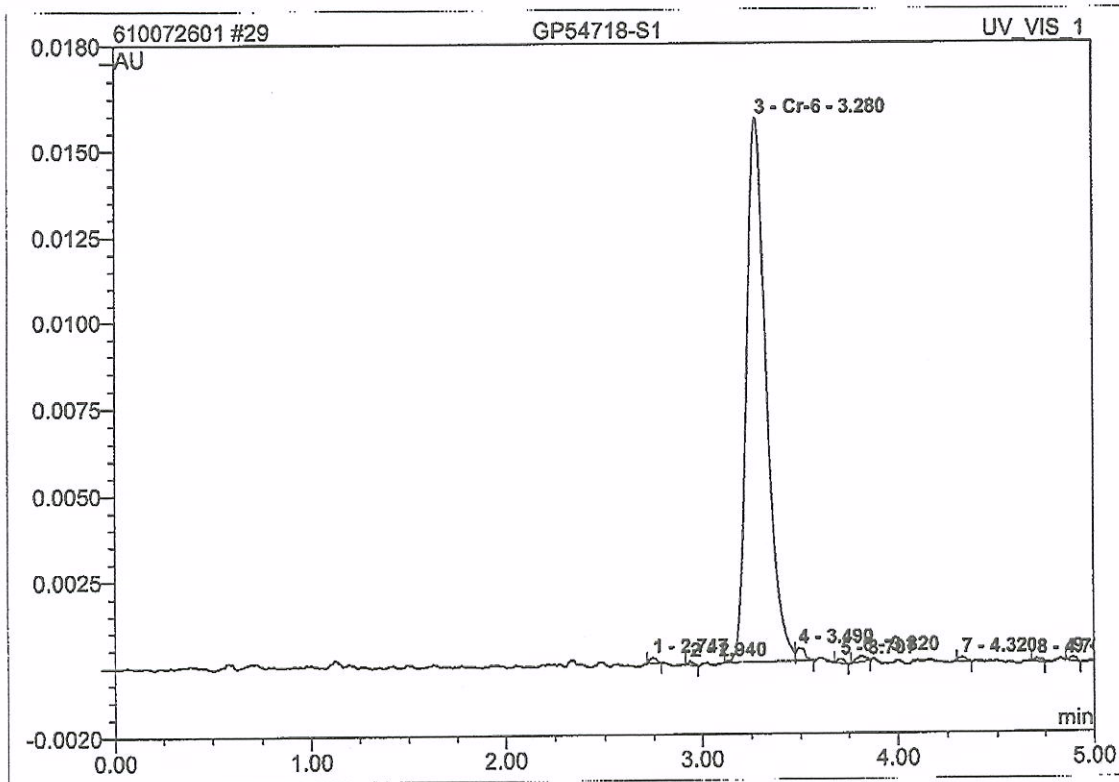
No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.89	n.a.	0.000	0.000	0.18	n.a.	BMB
2	3.28	Cr-6	0.016	0.002	99.22	0.7931	BMB
3	3.72	n.a.	0.000	0.000	0.37	n.a.	BMB
4	4.96	n.a.	0.000	0.000	0.23	n.a.	BMB
Total:			0.016	0.002	100.00	0.793	

hexachrome/Integration

Chromleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

29 GP54718-S1

Sample Name:	GP54718-S1	Injection Volume:	25.0
Vial Number:	29	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	4.0000
Recording Time:	7/26/2010 12:21	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

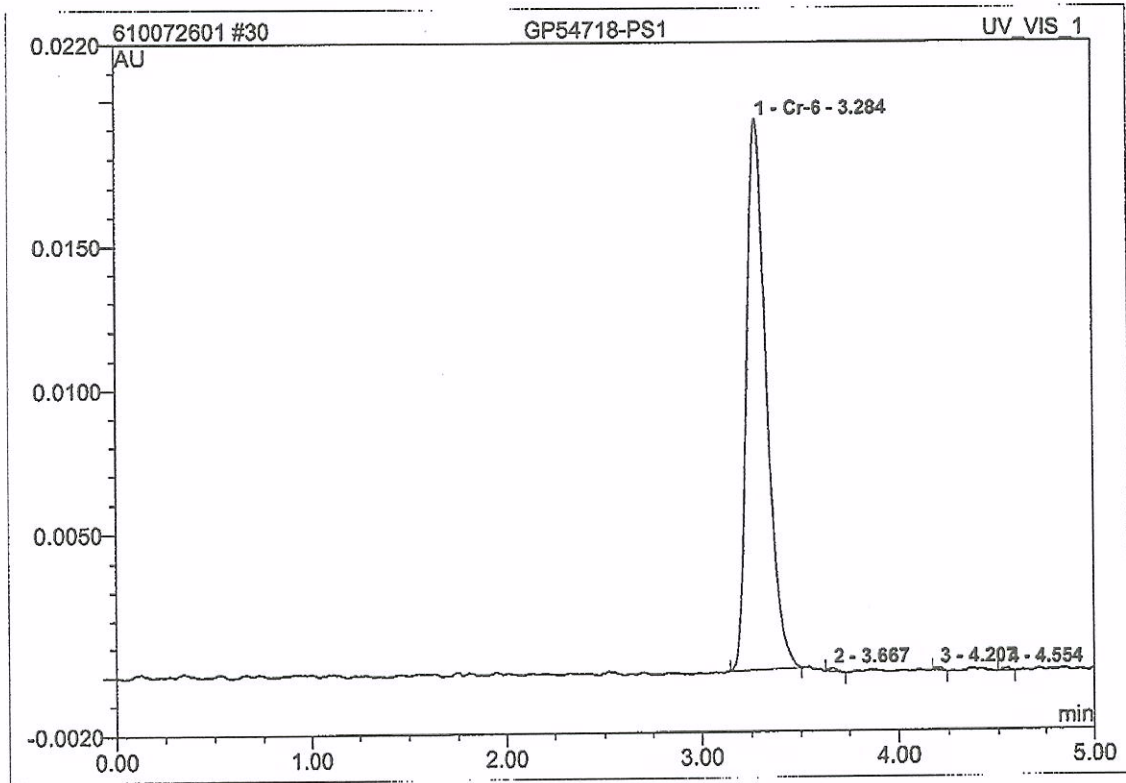


No.	Ret. Time min	Peak Name	Height AU	Area AU*min	Rel. Area %	Amount ppm	Type
1	2.75	n.a.	0.000	0.000	0.33	n.a.	BMB
2	2.94	n.a.	0.000	0.000	0.18	n.a.	BMB
3	3.28	Cr-6	0.016	0.002	97.08	0.8089	BM
4	3.49	n.a.	0.000	0.000	0.99	n.a.	MB
5	3.71	n.a.	0.000	0.000	0.25	n.a.	BMB
6	3.82	n.a.	0.000	0.000	0.49	n.a.	BMB
7	4.32	n.a.	0.000	0.000	0.25	n.a.	BMB
8	4.71	n.a.	0.000	0.000	0.20	n.a.	BMB
9	4.89	n.a.	0.000	0.000	0.23	n.a.	BMB
Total:			0.017	0.002	100.00	0.809	

hexachrome/Integration

Chromleon (c) Dionex 1996-2001
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30 GP54718-PS1			
Sample Name:	GP54718-PS1	Injection Volume:	25.0
Vial Number:	30	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	4.0000
Recording Time:	7/26/2010 12:28	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	3.28	Cr-6	0.019	0.002	99.31	0.9747	BMB
2	3.67	n.a.	0.000	0.000	0.30	n.a.	BMB
3	4.21	n.a.	0.000	0.000	0.19	n.a.	BMB
4	4.55	n.a.	0.000	0.000	0.20	n.a.	BMB
Total:			0.020	0.002	100.00	0.975	

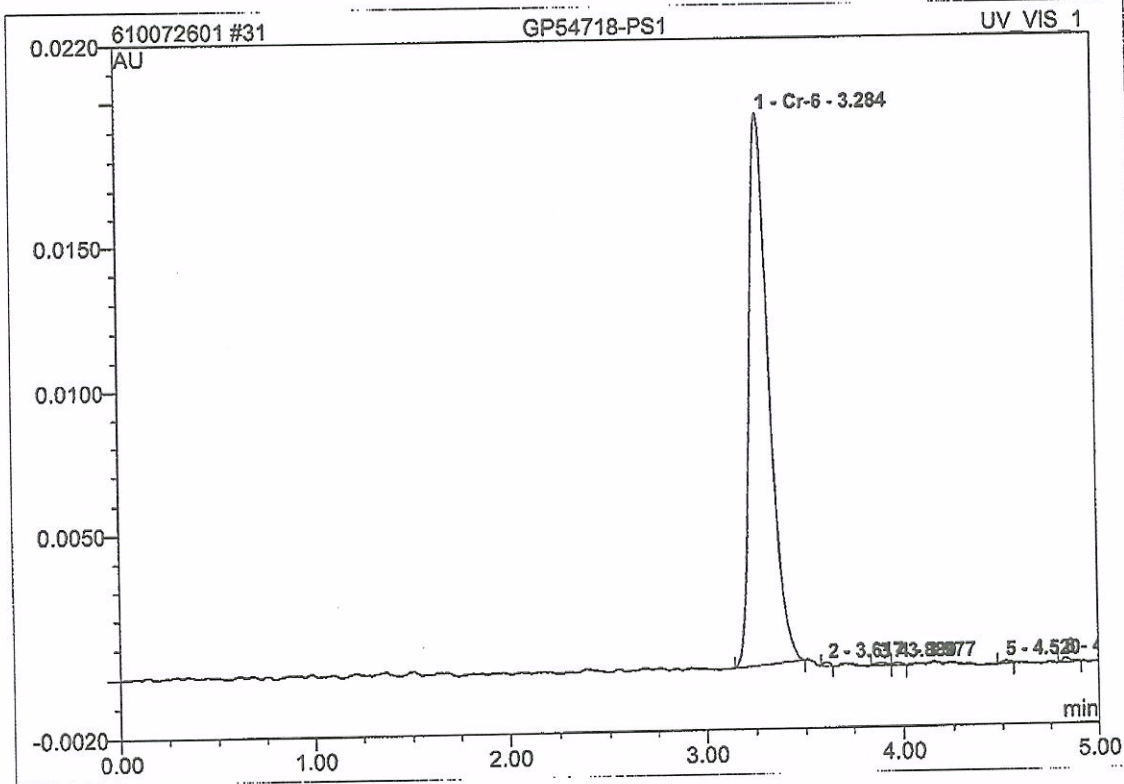
hexachrome/Integration

Chromleon (c) Dionex 1996-2001
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6.3
6

31 GP54718-PS1

Sample Name:	GP54718-PS1	Injection Volume:	25.0
Vial Number:	31	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	4.0000
Recording Time:	7/26/2010 12:35	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

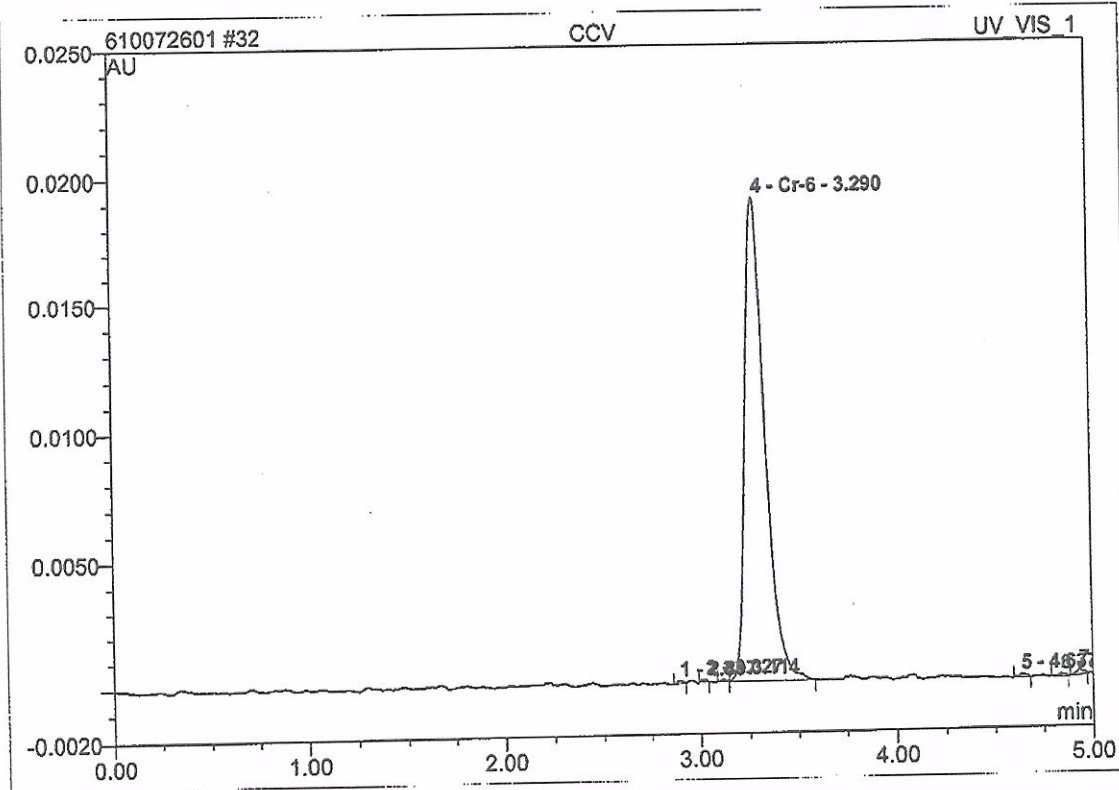


No.	Ret. Time min	Peak Name	Height AU	Area AU*min	Rel. Area %	Amount ppm	Type
1	3.28	Cr-6	0.019	0.002	98.70	0.9746	BMB
2	3.62	n.a.	0.000	0.000	0.20	n.a.	BMB
3	3.88	n.a.	0.000	0.000	0.27	n.a.	BM
4	3.98	n.a.	0.000	0.000	0.23	n.a.	MB
5	4.52	n.a.	0.000	0.000	0.24	n.a.	BMB
6	4.83	n.a.	0.000	0.000	0.37	n.a.	BMB
Total:			0.020	0.002	100.00	0.975	

hexachrome/Integration

Chromleon (c) Dionex 1996-2001
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32 CCV			
Sample Name:	CCV	Injection Volume:	25.0
Vial Number:	32	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/26/2010 12:43	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000

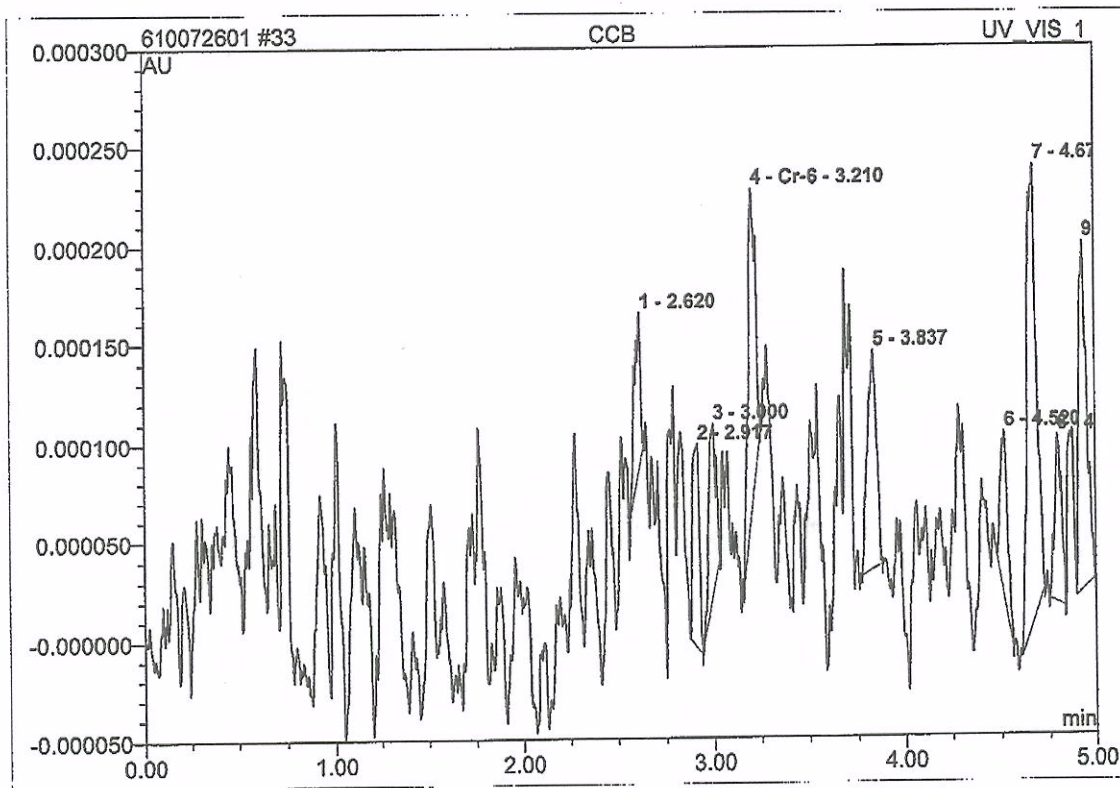


No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.90	n.a.	0.000	0.000	0.17	n.a.	BMB
2	3.03	n.a.	0.000	0.000	0.16	n.a.	BMB
3	3.11	n.a.	0.000	0.000	0.15	n.a.	BM
4	3.29	Cr-6	0.019	0.002	98.68	0.2468	MB
5	4.64	n.a.	0.000	0.000	0.26	n.a.	BMB
6	4.84	n.a.	0.000	0.000	0.19	n.a.	BMB
7	4.93	n.a.	0.000	0.000	0.39	n.a.	BMB
Total:			0.020	0.002	100.00	0.247	

hexachrome/Integration

Chromeleon (c) Dionex 1996-2001
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33 CCB			
Sample Name:	CCB	Injection Volume:	25.0
Vial Number:	33	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	hexachrome	Bandwidth:	n.a.
Quantif. Method:	hexachrome	Dilution Factor:	1.0000
Recording Time:	7/26/2010 12:50	Sample Weight:	1.0000
Run Time (min):	5.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height AU	Area AU*min	Rel.Area %	Amount ppm	Type
1	2.62	n.a.	0.000	0.000	5.75	n.a.	BMB
2	2.92	n.a.	0.000	0.000	7.85	n.a.	BMB
3	3.00	n.a.	0.000	0.000	7.59	n.a.	BMB
4	3.21	Cr-6	0.000	0.000	13.83	0.0006	BMB
5	3.84	n.a.	0.000	0.000	11.35	n.a.	BMB
6	4.52	n.a.	0.000	0.000	6.67	n.a.	BMB
7	4.68	n.a.	0.000	0.000	24.24	n.a.	BMB
8	4.79	n.a.	0.000	0.000	6.32	n.a.	BMB
9	4.94	n.a.	0.000	0.000	16.40	n.a.	BMB
Total:			0.001	0.000	100.00	0.001	

hexachrome/Integration

Chromleon (c) Dionex 1996-2001
Version 6.70 SP2a Build 1871

APPENDIX I
DEED NOTICE

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April 29, 2010

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555 Twelfth Street, N.W.
Washington, DC 20004-1206

Resa Drazin, Esq.
Woehling & Freeman, LLP
50 Elmer Street
Westfield, NJ 07090

**Re: Honeywell International Inc.
Bob Ciasulli Deed Notice**

Dear Mike and Resa:

The Deed Notice from Bob Ciasulli was recorded today in the office of the Hudson County Register of Deeds in Book 8728, Page 276. Enclosed please find a copy of the recorded instrument, which is stamped on the first page as a receipt. When the original is returned to us, we will forward it to Mike.

Very truly yours,

WATERS, McPHERSON, McNEILL, P.C.

By 
E. Neal Zimmermann

ENZ:kad
Enc.
cc: John Morris
Bill Hague

528789.1

IN ACCORDANCE WITH N.J.S.A. 58:10B-13, THIS DOCUMENT IS TO BE RECORDED IN THE SAME MANNER AS ARE DEEDS AND OTHER INTERESTS IN REAL PROPERTY.

Prepared by: _____
[Signature]

[Print name below signature]

AND AFTER RECORDING RETURN TO:

E. Neal Zimmermann, Esq.
Waters, McPherson, McNeill, PC
300 Lighting Way
Secaucus, NJ 07096



20100429010032120 1/34
04/29/2010 11:28:01 AM DEED
Bk: 8728 Pg: 276
Willie L. Flood
Hudson County, Register of Deeds
Receipt No. 320952

DEED NOTICE CONCERNING CONTROLS INSTALLED TO CONTAIN CHROMIUM CONTAMINATION UNDERLYING PROPERTY AND RESTRICTIONS CONCERNING THE USE OF PROPERTY

This Deed Notice is made as of the 22nd day of April, 2010, by Robert G. Ciasulli, also known as Bob Ciasulli, whose post office address is Bob Ciasulli Auto Group, 1485 Route 46 East, Little Falls, NJ 07424. Owner shall mean Robert G. Ciasulli, also known as Bob Ciasulli, together with his successors and assigns, including all successors in interest in the Property which is the subject of this Deed Notice as described fully below.

1. THE PROPERTY. Robert G. Ciasulli is the current owner in fee simple of certain real property designated as that portion of Block 1291, Lot 76 on the tax map of the City of Jersey City, Hudson County, New Jersey as more particularly described by metes and bounds on Exhibit A-2 attached hereto and made a part hereof (the "Property"). The New Jersey Department of Environmental Protection Program Interest Number for the contaminated site which includes this property is Hudson County Chromate Site No. 079 Program Interest (PI) #G000008706. The property is known as the Site 79 Ciasulli Property pursuant to the Consent Decree Regarding Site 79 and 153 South ("Consent Decree") which is attached hereto and is entered as an order of the Court in the following consolidated actions *JCMUA v. Honeywell International, Inc.*, D.N.J., Civ. No. 05-05955; *JCIA v. Honeywell International, Inc.*, D.N.J., Civ. No. 05-5993; and *Hackensack Riverkeeper, Inc. v. Honeywell International, Inc.*, D.N.J., Civ. No. 06-22. The Consent Decree restricts use and development of the Property without further remediation pursuant to the terms of the Consent Decree. To the extent that there is any conflict or

inconsistency between the terms of this Deed Notice and the terms of the Consent Decree, the Consent Decree shall govern. To the extent that any action to be taken pursuant to this Deed Notice is in conflict with or inconsistent with the Consent Decree, the Consent Decree shall govern.

2. DEPARTMENT'S ASSIGNED BUREAU. The Bureau of State Case Management (BCM) was the New Jersey Department of Environmental Protection program that was responsible for the oversight of the remediation of the Property. The matter was Case No. Hudson County Chromate Site No. 079 Program Interest (PI) # G000008706.

3. SOIL AND GROUNDWATER CONTAMINATION. Honeywell International Inc. ("Honeywell") a corporation in the State of New Jersey whose post office address is 101 Columbia Road, Morristown, New Jersey 07962, has remediated the Property to address chromium-related soil contamination. The Remedial Action Work Plan was approved by the New Jersey Department of Environmental Protection on September 30, 2009 for Hudson County Chromate Site No. 079, which includes the Property. Remedial actions were further approved pursuant to the Consent Decree. Under both the Consent Decree and the Remedial Action Work Plan soil remains on the Property which contains contaminants in concentrations that do not allow for the unrestricted use of the Property. The soil contamination is described, including the type, concentration and specific location of such contaminants, in Exhibit B, which is attached hereto and made a part hereof. As a result of the contamination, there is a statutory requirement for this Deed Notice and engineering controls in accordance with N.J.S.A. 58:10B-13. Under the terms of the Consent Decree and this Deed Notice, Honeywell is responsible for monitoring and maintaining the soil remediation and monitoring shallow groundwater levels for the Property until such time as the Property is remediated to the level that would permit the removal of this Deed Notice pursuant to the Consent Decree.

4. CONSIDERATION. In accordance with the New Jersey Department of Environmental Protection's approval of the Remedial Action Work Plan for the remediation of Hudson County Chromate Site No. 079 and in consideration of the terms and conditions of that approval, and in accordance with the Consent Decree, and other good and valuable considerations, Owner has agreed to subject the Property to certain statutory and regulatory requirements which impose restrictions upon the use of the Property, to restrict certain uses of the Property, and to provide notice to subsequent owners, lessees and operators of the restrictions and the monitoring, maintenance, and certification requirements outlined in this Deed Notice and required by law until the Property is further remediated and no longer must be encumbered by this Deed Notice pursuant to the terms of the Consent Decree.

5A. RESTRICTED AREA. Due to the presence of these contaminants, Owner has agreed, as part of the remedial action for the Property, to restrict the use of those portions of the Property for which engineering controls have been put into place (the "Restricted Area," also referred to as the "Site 79 Capped Area" in the Consent Decree); a narrative description of these restrictions, along with the associated monitoring and maintenance activities and the biennial certification requirements are provided in Exhibit C, which is

attached hereto and made a part hereof. Owner has also agreed to maintain a list of these restrictions on site for inspection by governmental enforcement officials.

5B. ENGINEERING CONTROLS. Due to the presence and concentration of these contaminants, Owner has also agreed, as part of the remedial action for the Property, to the placement and maintenance of certain engineering controls on the Restricted Area. A narrative description of these engineering controls, along with the associated monitoring and maintenance activities and the biennial certification requirements are provided in Exhibit C. Honeywell shall be responsible for monitoring and maintenance of engineering controls and biennial certification requirements as specified in Paragraphs 7A&B.

5C. ADDITIONAL PROVISIONS PURSUANT TO CONSENT DECREE. The asphalt cap for the Restricted Area constitutes an engineering control that must be maintained in accordance with the New Jersey Technical Requirements for Site Remediation. Owner agrees to grant Honeywell an access easement providing Honeywell access to the Restricted Area for the purposes of inspecting, repairing, and maintaining the asphalt cover. Future uses of the Site 79 Capped Area are limited to commercial, retail, or open space, including continued use as an automobile dealership.

6A. ALTERATIONS, IMPROVEMENTS, AND DISTURBANCES.

i. Except as provided in the Consent Decree and Paragraph 6B, below, no person shall make, or allow to be made, any alteration, improvement, or disturbance in, to, or about the Restricted Area which disturbs any engineering control except as (a) permitted in the Consent Decree and (b) without first obtaining the express written consent of the Department of Environmental Protection. Nothing herein shall constitute a waiver of the obligation of any person to comply with all applicable laws and regulations including, without limitation, the applicable rules of the Occupational Safety and Health Administration. To request the consent of the Department of Environmental Protection, contact:

Department of Environmental Protection
Division of Remediation Management and Response
Bureau of Operation, Maintenance and Monitoring
Deed Notice Inspection Program
P.O. Box 413
401 E. State Street
Trenton, NJ 08625-0413

ii. Notwithstanding subparagraph 6A.i., above, the Department of Environmental Protection's express written consent is not required for any alteration, improvement, or disturbance of the Restricted Area provided that the owner, lessee or operator:

(A) Takes such action in conformance with the Consent Decree; and

(B) Notifies the Department of Environmental Protection of the activity by calling the DEP Hotline, at 1-877-WARN-DEP or 1-877-927-6337, within twenty-four (24) hours after the beginning of each alteration, improvement, or disturbance;

(C) Notifies Honeywell of the activity by calling 973-455-3302;

(D) Restores or causes Honeywell to restore any disturbance of an engineering control to pre-disturbance conditions within sixty (60) calendar days after the initiation of the alteration, improvement or disturbance;

(E) Ensures that all applicable worker health and safety laws and regulations are followed during the alteration, improvement, or disturbance, and during the restoration;

(F) Ensures that exposure to contamination in excess of the applicable remediation standards does not occur;

(G) Submits or causes Honeywell to submit a written report, describing the alteration, improvement, or disturbance, to the Department of Environmental Protection within sixty (60) calendar days after the end of each alteration, improvement, or disturbance. The report shall include in the report the nature of the alteration, improvement, or disturbance, the dates and duration of the alteration, improvement, or disturbance, the name of key individuals and their affiliations conducting the alteration, improvement, or disturbance, a description of the notice the Owner gave to those persons prior to the disturbance, the amounts of soil generated for disposal, if any, the final disposition and any precautions taken to prevent exposure. Such reports shall be submitted to:

Department of Environmental Protection
Division of Remediation Management and Response
Bureau of Operation, Maintenance and Monitoring
Deed Notice Inspection Program
P.O. Box 413
401 E. State Street
Trenton, NJ 08625-0413

6B. EMERGENCIES. In the event of an emergency which presents, or may present, an unacceptable risk to the public health and safety, or to the environment, any person may temporarily breach any engineering control provided that that person complies with each of the following:

- i. Immediately notifies the Department of Environmental Protection of the emergency, by calling the DEP Hotline at 1-877-WARNDEP or 1-877-927-6337;

- ii. Immediately notifies Honeywell of the emergency by calling 973-455-3302;
- iii. Limits both the actual disturbance and the time needed for the disturbance to the minimum reasonably necessary to adequately respond to the emergency;
- iv. Implements all measures necessary to limit actual or potential, present or future risk of exposure to humans or the environment to the contamination;
- v. Notifies the Department of Environmental Protection when the emergency has ended by calling the DEP Hotline at 1-877-WARNDEP or 1-877-927-6337;
- vi. Notifies Honeywell when the emergency has ended by calling 973-455-3302; and
- vii. Restores or causes Honeywell to restore the engineering control to the pre-emergency conditions as soon as possible, and provides a written report to the Department of Environmental Protection of such emergency and restoration efforts within sixty (60) calendar days after completion of the restoration of the engineering control. The report must include all information pertinent to the emergency, potential discharges of contaminants, and restoration measures that were implemented, which, at a minimum, should specify: (a) the nature and likely cause of the emergency, (b) the potential discharges of or exposures to contaminants, if any, that may have occurred, (c) the measures that have been taken to mitigate the effects of the emergency on human health and the environment, (d) the measures completed or implemented to restore the engineering control, and (e) the changes to the engineering control or site operation and maintenance plan to prevent recurrence of such conditions in the future. Such reports shall be submitted to:

Department of Environmental Protection
Division of Remediation Management and Response
Bureau of Operation, Maintenance and Monitoring
Deed Notice Inspection Program
P.O. Box 413
401 E. State Street
Trenton, NJ 08625-0413

7A. MONITORING AND MAINTENANCE OF DEED NOTICE, AND PROTECTIVENESS CERTIFICATION. Honeywell and the Owner shall monitor and maintain this Deed Notice, and certify to the Department on a biennial basis that the remedial action that includes this Deed Notice remains protective of the public health and

safety and of the environment. The specific obligations to monitor and maintain the deed notice shall include all of the following:

- i. Monitoring and maintaining this Deed Notice according to the requirements in Exhibit C, to ensure that the remedial action that includes the Deed Notice continues to be protective of the public health and safety and of the environment;
- ii. Conducting any additional remedial investigations and implementing any additional remedial actions, that are necessary to correct, mitigate, or abate each problem related to the protectiveness of the remedial action for the Property prior to the date that the certification is due to the Department pursuant to iii, below, in order to ensure that the remedial action that includes this Deed Notice remains protective of the public health and safety and of the environment.
- iii. Certify to the Department of Environmental Protection as to the continued protectiveness of the remedial action that includes this Deed Notice, on a form provided by the Department and consistent with N.J.A.C. 7:26C-1.2 (a)1, every two years on the anniversary of the date stamped on the Deed Notice that indicates when the Deed Notice was recorded.

7B. MONITORING AND MAINTENANCE OF ENGINEERING CONTROLS, AND PROTECTIVENESS CERTIFICATION. Honeywell and the Owner shall maintain all engineering controls at the Property and certify to the Department on a biennial basis that the remedial action of which each engineering control is a part remains protective of the public health and safety and of the environment. The specific obligations to monitor and maintain the engineering controls shall include the following:

- i. Monitoring and maintaining each engineering control according to the requirements in Exhibit C, to ensure that the remedial action that includes the engineering control continues to be protective of the public health and safety and of the environment;
- ii. Conducting any additional remedial investigations and implementing any additional remedial actions, that are necessary to correct, mitigate, or abate each problem related to the protectiveness of the remedial action for the Property prior to the date that the certification is due to the Department pursuant to iii, below, in order to ensure that the remedial action that includes the engineering control remains protective of the public health and safety and of the environment.
- iii. Certify to the Department of Environmental Protection as to the continued protectiveness of the remedial action that includes the engineering control, on a form provided by the Department and consistent with N.J.A.C. 7:26C-1.2 (a)1, every two years on the anniversary of the date stamped on the Deed Notice that indicates when the Deed Notice was recorded.

8. ACCESS. Owner agrees to allow the Department, its agents and representatives access to the Property to inspect and evaluate the continued protectiveness of the remedial action that includes this Deed Notice and to conduct additional remediation to ensure the protection of the public health and safety and of the environment if persons responsible for monitoring the protectiveness of the remedial action, as described in Paragraph 7, above, fail to conduct such remediation pursuant to this Deed Notice as required by law. Owner shall also cause all leases, subleases, grants, and other written transfers of an interest in the Restricted Area to contain a provision expressly requiring that all holders thereof provide such access to the Department.

9. NOTICES.

i. Owner shall cause all leases, grants, and other written transfers of an interest in the Restricted Area to contain a provision expressly requiring all holders thereof to take the Restricted Area subject to the restrictions contained herein and to comply with all, and not to violate any of the conditions of this Deed Notice. Nothing contained in this Paragraph shall be construed as limiting any obligation of any person to provide any notice required by any law, regulation, or order of any governmental authority.

ii. Owner shall notify any person intending to conduct invasive work or excavate within the Restricted Area on its behalf of the nature and location of contamination and, of the precautions necessary to minimize potential human exposure to contaminants.

iii. Owner shall provide written notice to the Department of Environmental Protection at least thirty (30) calendar days before the effective date of any conveyance, grant, gift, or other transfer, in whole or in part, of the owner's interest in the Restricted Area. Any such conveyance, grant or gift must be consistent with the terms of the Consent Decree.

iv. Owner shall provide written notice to the Department within thirty (30) calendar days following the Owner's receiving notice of any petition for a rezoning of the Property. The Owner shall submit the written notice to:

Department of Environmental Protection
Division of Remediation Management and Response
Bureau of Operation, Maintenance and Monitoring
Deed Notice Inspection Program
P.O. Box 413
401 E. State Street
Trenton, NJ 08625-0413.

10. ENFORCEMENT OF VIOLATIONS.

i. This Deed Notice itself is not intended to create any interest in real estate in favor of the Department of Environmental Protection, nor to create a lien against the Property, but merely is intended to provide notice of certain conditions and restrictions on the Property and to reflect the regulatory and statutory obligations imposed as a conditional remedial action for this Property.

ii. The restrictions provided herein may be enforceable by the Department against any person who violates this Deed Notice. To enforce violations of this Deed Notice, the Department may initiate one or more enforcement actions pursuant to N.J.S.A. 58:10-23.11u and require additional remediation and assess damages pursuant to N.J.S.A. 58:10-23.11g.

11. SEVERABILITY. If any court of competent jurisdiction determines that any provision of this Deed Notice requires modification, such provision shall be deemed to have been modified automatically to conform to such requirements. If a court of competent jurisdiction determines that any provision of this Deed Notice is invalid or unenforceable and the provision is of such a nature that it cannot be modified, the provision shall be deemed deleted from this instrument as if the provision had never been included herein. In either case, the remaining provisions of this Deed Notice shall remain in full force and effect.

12. SUCCESSORS AND ASSIGNS. This Deed Notice shall be binding upon Honeywell. This Deed Notice shall also be binding upon Owner and upon Owner's successors and assigns, and subsequent owners, lessees and operators while each is an owner, lessee, or operator of the Property.

13. MODIFICATION AND TERMINATION.

i. Any person may request in writing, at any time, that the Department modify this Deed Notice where performance of subsequent remedial actions, a change of conditions at the Property, or the adoption of revised remediation standards suggest that modification of the Deed Notice would be appropriate.

ii. Any person may request in writing, at any time, that the Department terminate this Deed Notice because the conditions which triggered the need for this Deed Notice are no longer applicable.

iii. Any person seeking a modification of this Deed Notice must also have such modification approved by the United States District Court for the District of New Jersey pursuant to the Consent Decree.

iv. This Deed Notice may be revised or terminated only upon filing of an instrument, executed by the Department, in the office of the Hudson County Register, New Jersey, expressly modifying or terminating this Deed Notice.

14A. EXHIBIT A. Exhibit A includes the following maps of the Property and the vicinity:

i. Exhibit A-1: Vicinity Map - A map that identifies by name the roads, and other important geographical features in the vicinity of the Property;

ii. Exhibit A-2: Metes and Bounds Description - A metes and bounds description of the Property, including reference to tax lot and block numbers for the Property and a Tax Map;

iii. Exhibit A-3: Property Map - A scaled map of the Property, scaled at one inch to 200 feet or less, and if more than one map is submitted, the maps shall be presented as overlays, keyed to a base map; the map(s) shall include diagrams of major surface topographical features such as buildings, roads, and parking lots.

14B. EXHIBIT B. Exhibit B includes the following descriptions of the Restricted Areas:

i. Exhibit B-1 (Figures B-1A through B-1B): Restricted Area Maps - Maps for the Area that include, as applicable:

(A) As-built diagrams of each engineering control, including caps, fences, slurry walls, ground water monitoring wells, and ground water pumping system;

(B) As-built diagrams of any buildings, roads, parking lots and other structures that function as engineering controls; and

(C) Designation of all soil and/or sediment sample locations within the Restricted Area that exceed any soil or sediment standard that are keyed into one of the tables described in the following paragraph.

ii. Exhibit B-2 (Tables B-2A through B-2B): Restricted Area Data Tables - Tables for the Area that include:

(A) Sample location designation from Restricted Area maps (Exhibit B-1);

(B) Sample elevation based upon mean sea level;

(C) Name and chemical abstract service registry number of each contaminant with a concentration that exceeds the unrestricted use standard;

(D) The restricted and unrestricted use standards for each contaminant in the table with instructions that direct the reader to the Consent Decree for further information; and

(E) The remaining concentration of each contaminant at each sample location at each elevation (or if historic fill, include data from the Department's default concentrations at N.J.A.C. 7:26E-4.6, Table 4-2) and an explanation that such concentrations may be reduced as a result of *in situ* treatment to be conducted.

14C. EXHIBIT C. Exhibit C includes narrative descriptions of the institutional controls and engineering controls as follows:

i. Exhibit C-1A through B. Exhibit C-1-A: Deed Notice as Institutional Control; Exhibit C-1-B: Consent Decree as Institutional Control; Exhibit C-1 (A through B) includes a narrative description of the restrictions and obligations of this Deed Notice that are in addition to those described above, as follows:

(A) General Description of the Institutional Controls:

- (1) Description and estimated size of the Restricted Area as described above;
- (2) Description of the restrictions on the Property by operation of this Deed Notice and the other Institutional Controls; and
- (3) The objective of the restrictions;

(B) Description of the monitoring necessary to determine whether:

- (1) Any disturbances of the soil in the Restricted Area did not result in the unacceptable exposure to the soil contamination;
- (2) There have been any land use changes subsequent to the filing of this Deed Notice and the other Institutional Controls or the most recent biennial certification, whichever is more recent;
- (3) The current land use on the Property is consistent with the restrictions in this Deed Notice and the other Institutional Controls;
- (4) Any newly promulgated or modified requirements of applicable regulations or laws apply to the Property; and
- (5) Any new standards, regulations, or laws apply to the Property that might necessitate additional sampling in order to evaluate the protectiveness of the remedial action which includes this Deed Notice and the other Institutional Controls, and conduct the necessary sampling; and

(C) Description of the following items that will be included in the biennial certification:

- (1) A monitoring report that describes the specific activities, pursuant to (A) and (B), above, conducted in support of the biennial certification of the protectiveness of the remedial action that includes this Deed Notice and the other Institutional Controls;
- (2) Land use at the Property is consistent with the restrictions in this Deed Notice and the other Institutional Controls; and
- (3) The remedial action that includes this Deed Notice and the other Institutional Controls continues to be protective of the public health and safety and of the environment.

ii. Exhibit C-2-A through B. Exhibit C-2-A: Engineering Controls: Asphalt Cap; Exhibit C-2-B: Engineering Controls: Shallow Groundwater Water Level Monitoring Wells and Piezometers.

Exhibit C-2 (series A-B) includes a narrative description of the engineering controls as follows:

(A) General Description of the engineering control:

- (1) Description of the engineering control;
- (2) The objective of the engineering control; and
- (3) How the engineering control is intended to function.

(B) Description of the operation and maintenance necessary to ensure that:

- (1) Periodic inspections of each engineering control are performed in order to determine its integrity, operability, and effectiveness;
- (2) Each engineering control continues as designed and intended to protect the public health and safety and the environment;
- (3) Each alteration, excavation or disturbance of any engineering control is timely and appropriately addressed to maintain the integrity of the engineering control;
- (4) The engineering control is being inspected and maintained and its integrity remains so that the remedial action continues to be protective of the public health and safety and of the environment;
- (5) A record of the self-inspection dates, name of the inspector, results of the inspection and condition(s) of the engineering control. Sampling, for example, may be necessary if it is not possible to visually evaluate the integrity/performance of the engineering control; and
- (6) Any new standards, regulations, or laws apply to the Property that might necessitate additional sampling in order to evaluate the protectiveness of the remedial action which includes this Deed Notice, and conduct the necessary sampling; and

(C) Description of the following items that will be included in the biennial certification:

- (1) A monitoring report that describes the specific activities, pursuant to (A) and (B), above, conducted in support of the biennial certification of the protectiveness of the remedial action that includes this Deed Notice;
- (2) The engineering control continues to operate as designed; and
- (3) The remedial action that includes the engineering control continues to be protective of the public health and safety and of the environment.

15. SIGNATURES.

IN WITNESS WHEREOF, Owner has executed this Deed Notice as of the date first written above.

WITNESS:

ROBERT G. CIASULLI, OWNER


Robert G. Ciasulli

ACKNOWLEDGEMENT(S)

STATE OF NEW JERSEY)
) SS.:
COUNTY OF Morris)

I CERTIFY that on April 22 , 2010, ROBERT G. CIASULLI personally came before me and stated to my satisfaction that this person (or if more than one, each person):

- (a) was the maker of the attached instrument; and
- (b) executed and delivered this instrument as his/her/their act and deed..



SANDRA ANGENO VIVO
NOTARY PUBLIC OF NEW JERSEY
Commission Expires 8/13/2013

Exhibit A
A-1 Vicinity Map
A-2 Metes and Bounds Description
A-3 Property Map

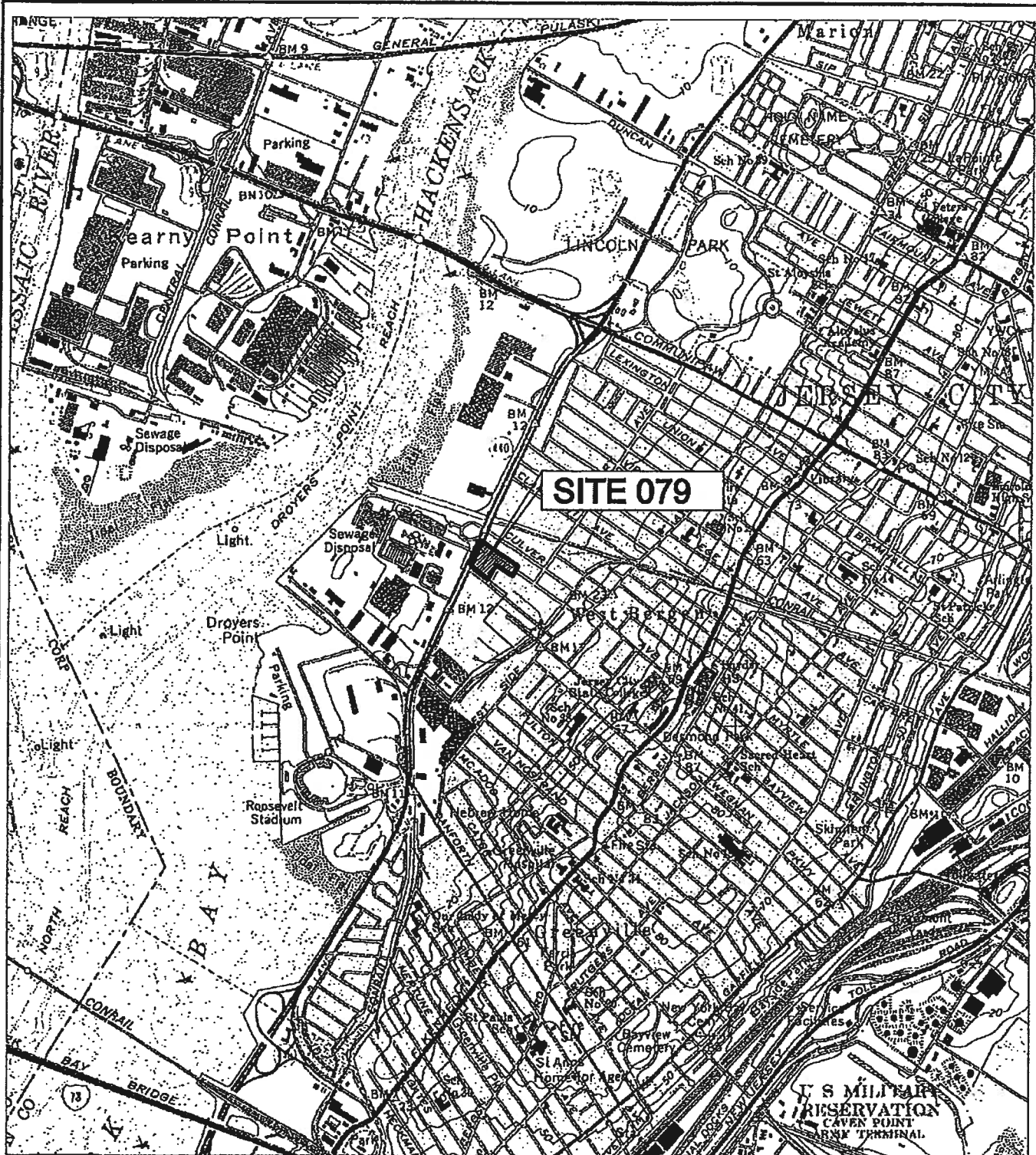
NJDEP Site No. 079 Route 440 Vehicle Corp.
Block 1291 Lot 76
City of Jersey City, Hudson County, New Jersey

Exhibit A-1 consists of a road map for the vicinity of the Property.

Exhibit A-2 consists of a metes and bounds description for the Property
(To be submitted with the Final Deed Notice.)

Exhibit A-3 consists of a figure indicating major surface features and existing
features for the Property.

**Exhibit Figure A-1
Site Vicinity Map**



SOURCE: JERSEY CITY, NJ USGS QUADRANGLE MAP, 1963



TITLE		EXHIBIT A-1	
		VICINITY MAP	
		HONEYWELL SA-S SITE 079	
		JERSEY CITY, NEW JERSEY	
PROJ. NO.	348000148	DATE	7/9/08
DRAW. NO.		REV.	

Exhibit A-2
Metes and Bounds Description of Property

Block 1291, Lot 76
City of Jersey City, New Jersey

LEGAL DESCRIPTION

ALL that certain lot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the City of Jersey City County of Hudson and State of New Jersey:

Parcel A

Beginning at the point of intersection of the southwesterly sideline of Fisk Street and the southeasterly sideline of New Jersey State Highway Route 440 and running;

Thence (1) Along the southwesterly sideline of Fisk Street South 46 degrees 29 minutes 50 seconds East 235.35 feet to a point of curve;

Thence (2) In a southeasterly direction on a curve to the right having a radius of 40.00 feet and an arc length of 58.29 feet to a point of compound curve;

Thence (3) Along the northwesterly sideline of Mortorano Way in a southwesterly direction on a curve to the right having a radius of 990.00 feet and an arc length of 225.95 feet to a point of compound curve;

Thence (4) In a southwesterly direction on a curve to the right having a radius of 40.00 feet and an arc length of 58.18 feet to a point in the northeasterly sideline of Carbon Place;

Thence (5) Along the northeasterly sideline of Carbon Place North 52 degrees 15 minutes 15 seconds West 51.81 feet to a point;

Thence (6) Still along the northeasterly sideline of Carbon Place North 46 degrees 42 minutes 45 seconds West 131.08 feet to a point;

Thence (7) Still along the northeasterly sideline of Carbon Place North 41 degrees 14 minutes 00 seconds West 47.67 feet to a point of curve;

Thence (8) In a northwesterly direction on a curve to the right having a radius of 42.00 feet and an arc length of 47.37 feet to a point of tangency;

Thence (9) Along the southeasterly sideline of New Jersey State Highway Route 440 North 33 degrees 32 minutes 08 seconds East 125.26 feet to a point of curve;

Thence (10) Still along the New Jersey State Highway Route 440 in a northwesterly direction on a curve to the right having a radius of 292.00 feet and an arc length of 106.36 feet to a point of compound curve;

Thence (11) Still along the New Jersey State Highway Route 440 in a northeasterly direction on a curve to the right having a radius of 46.00 feet and an arc length of 18.79 feet to a point;

Thence (12) Still along the New Jersey State Highway Route 440 South 77 degrees 26 minutes 00 seconds East 49.16 feet to the point and place of Beginning.

**Exhibit Figure A-3
Property Map**

EXHIBIT B

B-1A Restricted Area Map and Engineering Controls

B-1B Engineering and Institutional Controls

B-2A Key Map

B-2B Restricted Area Map/Data Table

NJDEP Site No. 079 Route 440 Vehicle Corp.

Block 1291 Lot 76

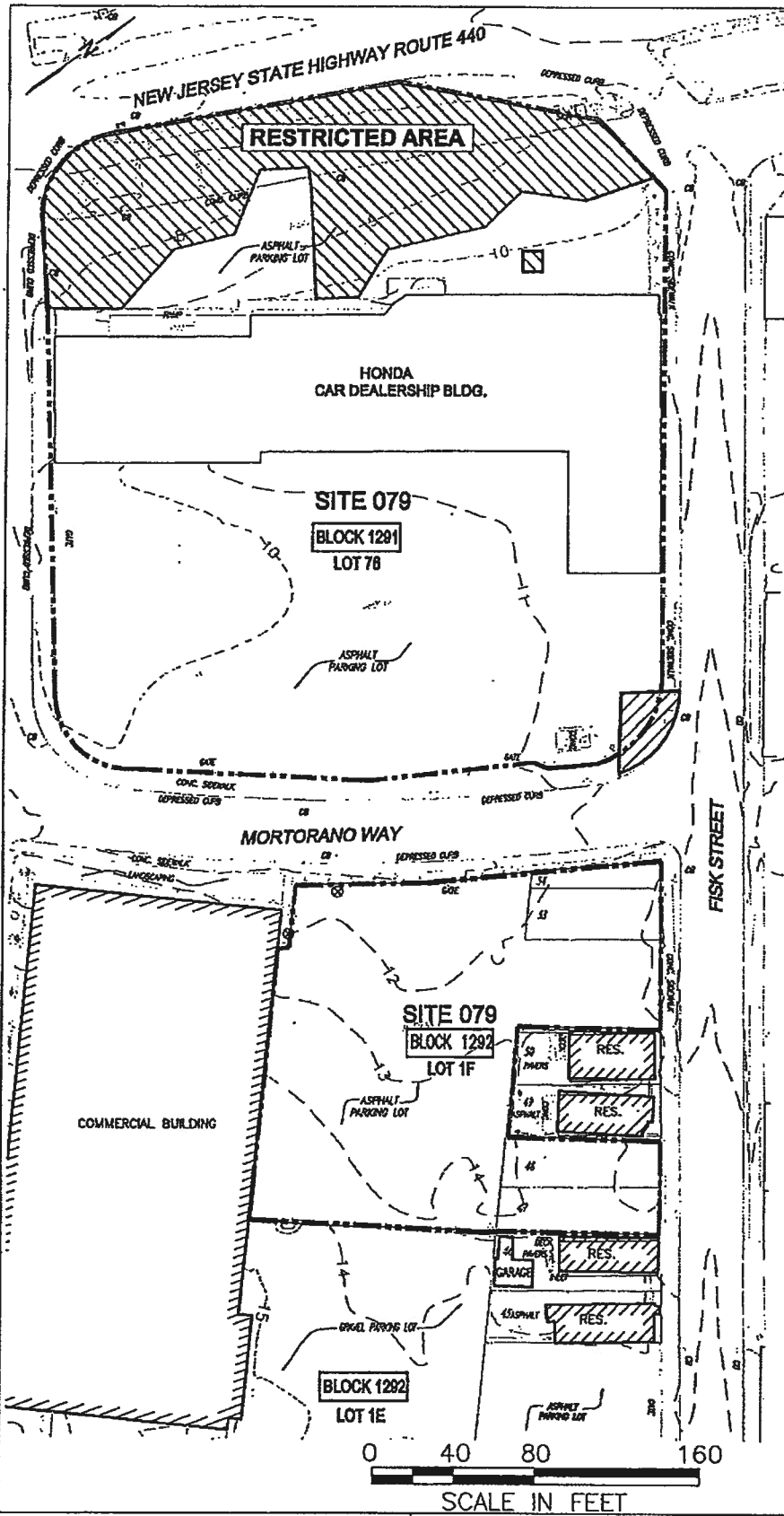
City of Jersey City, Hudson County, New Jersey

Exhibit B-1 includes maps that illustrate the Restricted Area and engineering/institutional controls.

Exhibit B-2 includes maps and tables which identify the Restricted Area containing soils that are in excess of NJDEP unrestricted soil cleanup criteria.

Exhibit Figure B-1A
Restricted Area Map and Engineering Controls

P:\Active Projects\Honeywell_Jersey City\000 90-5\Site 079 vehicle corp\Deed Notice Exhibits.dwg Fk, 28 Mar 2010 - 3:27pm aindian B-1A



- LEGEND**
- MANHOLE
 - ⊕ HYDRANT
 - ⊙ SIGH
 - ⊕ UTILITY POLE
 - ⊕ LIGHT POLE
 - ⊕ CATCH BASIN
 - INLET
 - TREE
 - VEG. SHRUB LANDSCAPED AREA
 - ELECTRIC LINE
 - SANITARY SEWER
 - STORM SEWER
 - WATER LINE
 - GAS LINE
 - FENCE LINE
 - SITE 079 BOUNDARY
 - - - 10' GROUND SURFACE ELEVATION CONTOUR LINE
 - x 10.0 SPOT ELEVATION
 - BUILDING/STRUCTURE (ON SITE)
 - EXISTING CAP
 - ▨ PROPOSED TREATMENT AREA BOUNDARY
 - ▨ HEXAVALENT CHROMIUM IN SOILS >20 mg/kg (RESTRICTED AREA)
 - ▨ PROPOSED SHALLOW EXCAVATION AREA BOUNDARY (0-2 FT)

NOTE:
IN-SITU TREATMENT PROPOSED IN THE RESTRICTED AREA
(RAMP DATED JULY 2009)

MACTEC PROJECT No.: 3480050145
DRAWING: DEED NOTICE EXHIBITS

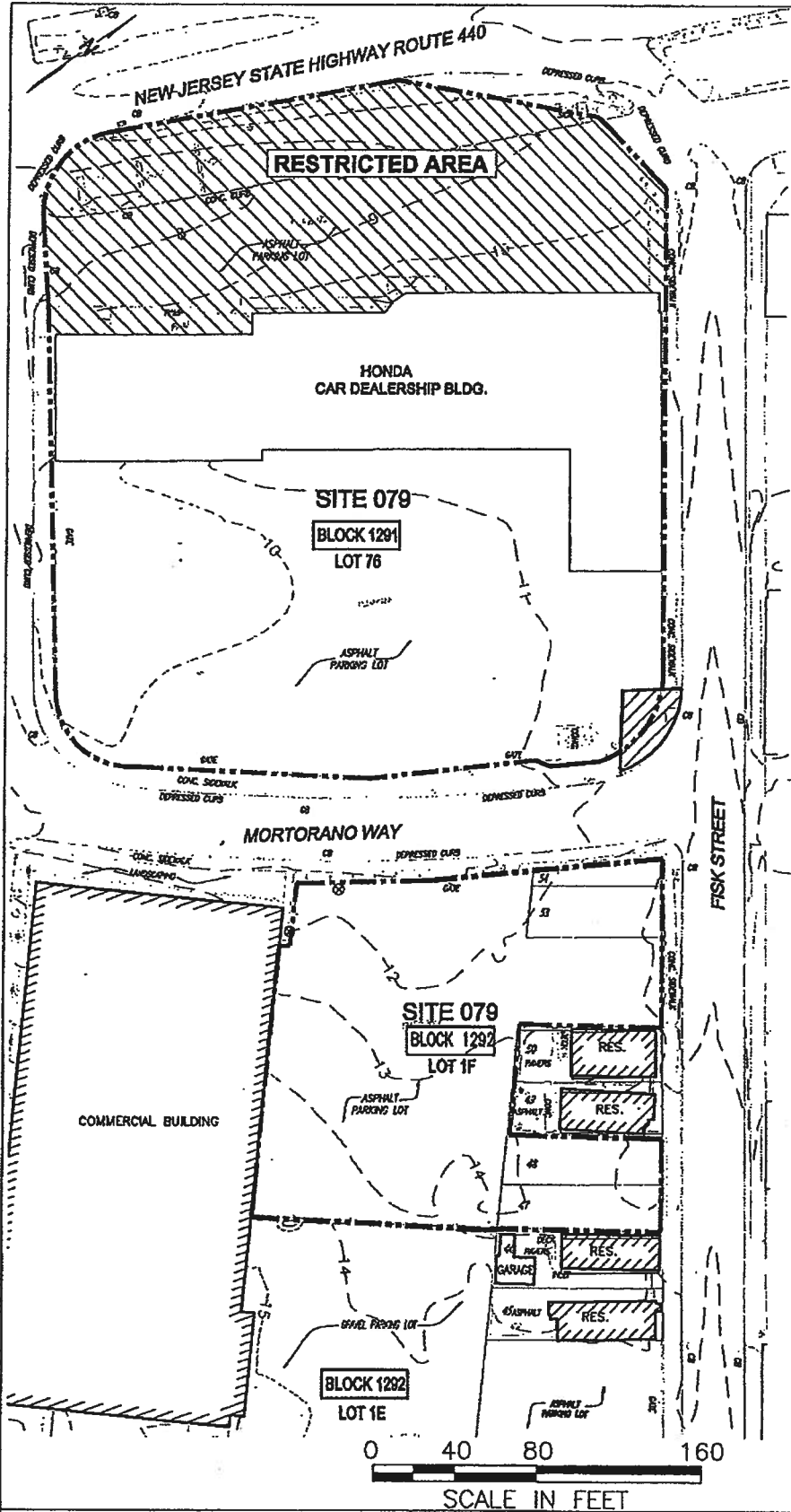
PREPARED/DATE: STR 03/25/10
CHECKED/DATE: AP 03/25/10



EXHIBIT B-1A
RESTRICTED AREA MAP AND ENGINEERING CONTROLS
STUDY AREA 8 - SITE 079
ROUTE 440 VEHICLE CORP.
BLOCK 1291, LOT 78
JERSEY CITY, NEW JERSEY

Exhibit Figure B-1B
Engineering and Institutional Controls

F:\Active Projects\Monmouth\Jersey City\CADD\sr-s\Site 079 vehicle corp\Deed Notice Exhibits 1A 1B.dwg P1, 26 Mar 2010 - 2:54pm stavdlin B-1B



- LEGEND**
- MANHOLE
 - ⊕ HYDRANT
 - ⊙ SIGN
 - ⊕ UTILITY POLE
 - ⊕ LIGHT POLE
 - ⊕ CATCH BASIN
 - ⊕ INLET
 - TREE
 - VEGETATION/SHRUB/LANDSCAPED AREA
 - ELECTRIC LINE
 - SANITARY SEWER
 - STORM SEWER
 - WATER LINE
 - GAS LINE
 - FENCE LINE
 - SITE 079 BOUNDARY
 - - - 10' GROUND SURFACE ELEVATION CONTOUR LINE
 - x 10.0 SPOT ELEVATION
 - ▭ BUILDING/STRUCTURE (ON SITE)
 - ▨ AREA OF ENGINEERING AND INSTITUTIONAL CONTROLS
 - ▩ PROPOSED SHALLOW EXCAVATION AREA BOUNDARY (0-2 FT)

NOTE:
ENGINEERING CONTROLS CONSIST OF ASPHALT PAVEMENT AND GRAVEL SUB-BASE (ESTIMATED AT APPROXIMATELY 6 TO 12 INCH THICKNESS).

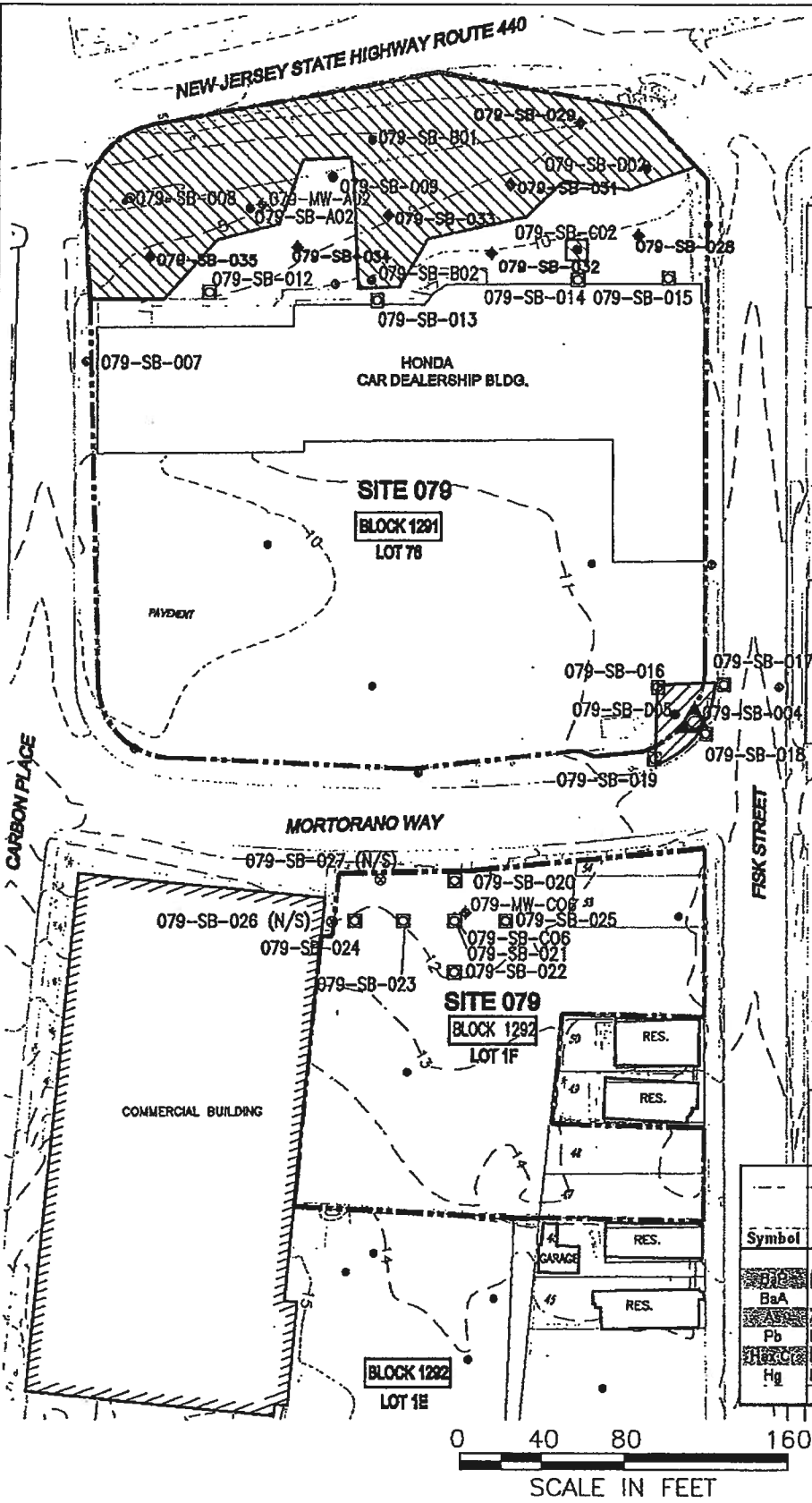
MACTEC PROJECT No.: 3480050145
 DRAWING: DEED NOTICE EXHIBITS
 PREPARED/DATE: STR 03/25/10
 CHECKED/DATE: AP 03/25/10



EXHIBIT B-1B
 ENGINEERING AND INSTITUTIONAL CONTROLS
 STUDY AREA 6 - SITE 079
 ROUTE 440 VEHICLE CORP.
 BLOCK 1291, LOT 78
 JERSEY CITY, NEW JERSEY

Exhibit Figure B-2A
Key Map

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- LEGEND**
- MAHOLE
 - HYDRANT
 - SIGN
 - UTILITY POLE
 - LIGHT POLE
 - CATCH BASIN
 - INLET
 - TREE
 - VEGETATION/SHRUB/LANDSCAPED AREA
 - SITE 079 BOUNDARY
 - ELECTRIC LINE
 - SANITARY SEWER
 - STORM SEWER
 - WATER LINE
 - GAS LINE
 - FENCE LINE
 - GROUND SURFACE ELEVATION CONTOUR LINE
 - x 10.0 SPOT ELEVATION
 - ◆ MONITORING WELL LOCATION
 - BORING LOCATION (1998/1999)
 - BORING LOCATION (2005)
 - ⊗ BORING LOCATION (2008)(NOT SAMPLED)
 - ◆ BORING LOCATION (2009)
 - ⊠ 2008 SOIL SAMPLE RESULTS INDICATE THAT HEX Cr. CONCENTRATIONS ARE BELOW NJDEP 20 ppm CRITERIA
 - ▲ 079-SB-004 - AREA TO BE REMEDIATED VIA SHALLOW EXTRACTION
 - N/S NOT SAMPLED
 - ▭ BUILDING/STRUCTURE (ON SITE)
 - ▨ BUILDING/STRUCTURE (OFF SITE)
 - ▩ PROPOSED TREATMENT AREA BOUNDARY
 - ▧ PROPOSED SHALLOW EXCAVATION AREA BOUNDARY (0-2 FT)

NOTES:

REFERENCE: PREVIOUS SOIL BORING LOCATIONS REMEDIAL INVESTIGATION REPORT DATED NOVEMBER 1999, PREPARED BY TETRA TECH; FIGURE 4-3

THE MAXIMUM CONCENTRATIONS OF CONTAMINANTS OF CONCERN DETECTED IN SOILS OF THE RESTRICTED AREA ARE PRESENTED IN THE FOLLOWING TABLE:

Symbol	Compound (CAS #)	NJDEP SRS (mg/kg)	Maximum Concentration (mg/kg)
BaP	Benzo(a)pyrene (50-32-6)	0.2	0.13
BaA	Benzo(a)anthracene (55-55-3)	0.6	0.98
As	Arsenic (7440-38-2)	2.8	5.65
Pb	Lead (7439-92-1)	400	2,550
HexCr	Hexachromium (18540-29-9)	20	160
Hg	Mercury (7439-97-6)	23	483

MACTEC PROJECT No.: 3480050145
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EXHIBIT B-2A KEY MAP
 (see Exhibit B-2B for Restricted Area Map)

STUDY AREA 5 - SITE 079
 ROUTE 440 VEHICLE CORP.
 BLOCK 1291, LOT 76
 JERSEY CITY, NEW JERSEY

**Exhibit Figure B-2B
Restricted Area Map & Data Table**

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 Fr. 26 Mar 2010 - 2:44pm
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Location	079-SB-B01	079-SB-B01	079-SB-B01
Sample Depth	0-2 ft	4-6 ft	8-10 ft
Sample Date	5/14/1997	5/14/1997	5/14/1997
METALS			
Hex Cr	72.1	601	35.1

Location	079-SB-C02	079-SB-C02	079-SB-C02	079-SB-C02	079-SB-C02
Sample Depth	2-4 ft	4-6 ft	8-8 ft	10-12 ft	12-14 ft
Sample Date	10/27/1999	10/27/1999	10/27/1999	10/27/1999	10/27/1999
METALS					
Hex Cr	33.9	21.7	31.3	28.8	23.8

Location	079-SB-009	079-SB-009
Sample Depth	4-6 ft	4-6 ft
Sample Date	7/27/2005	7/27/2005
SVOAs		
Ba	0.96	0.98
Bi	0.36	0.43
METALS		
As	38.9	51.6
Pb	2550	556

Location	079-SB-029	079-SB-029	079-SB-029
Sample Depth	0-1 ft	4-5 ft	5-6 ft
Sample Date	5/17/2009	5/17/2009	5/17/2009
METALS			
Hex Cr	23.8	169	129

Location	079-SB-031
Sample Depth	6-7 ft
Sample Date	5/17/2009
METALS	
Hex Cr	57.1

Location	079-SB-C02	079-SB-C02
Sample Depth	8-10 ft	12-14 ft
Sample Date	5/14/1997	5/14/1997
METALS		
Hex Cr	41.6	63.8

Location	079-SB-D05
Sample Depth	0-2 ft
Sample Date	5/14/1997
METALS	
Hex Cr	56.3

Location	079-SB-008	079-SB-008	079-SB-008
Sample Depth	2-3 ft	4-5 ft	2-3 ft
Sample Date	7/27/2005	7/27/2005	7/27/2005
METALS			
Hex Cr	50.4	331	38.3

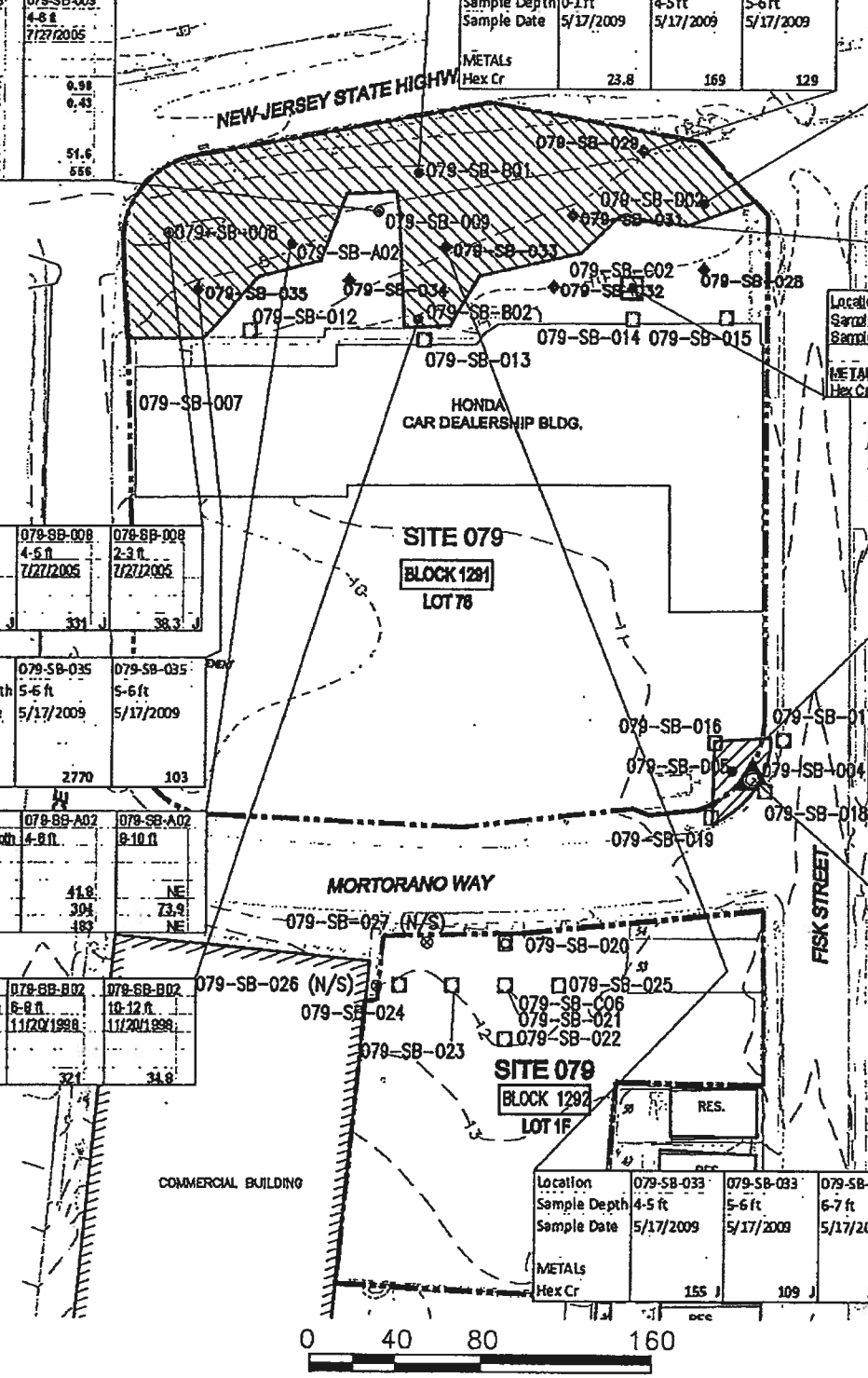
Location	079-SB-035	079-SB-035
Sample Depth	5-6 ft	5-6 ft
Sample Date	5/17/2009	5/17/2009
METALS		
Hex Cr	2770	103

Location	079-SB-A02	079-SB-A02
Sample Depth	4-8 ft	8-10 ft
METALS		
As	41.9	NE
Hex Cr	304	73.9
Pb	483	NE

Location	079-SB-B02	079-SB-B02
Sample Depth	8-8 ft	10-12 ft
Sample Date	11/20/1998	11/20/1998
METALS		
Hex Cr	32.1	34.8

Location	079-SB-004
Sample Depth	0-2 ft
Sample Date	7/26/2005
METALS	
Hex Cr	38.5

Location	079-SB-033	079-SB-033	079-SB-033	079-SB-033	079-SB-033
Sample Depth	4-5 ft	5-6 ft	6-7 ft	7-8 ft	7-8 ft
Sample Date	5/17/2009	5/17/2009	5/17/2009	5/17/2009	5/17/2009
METALS					
Hex Cr	155.1	109.1	29.2	20.3	21.6



MACTEC PROJECT No.: 3480050145
 DRAWING: DEED NOTICE EXHIBITS
 PREPARED/DATE: STR 03/25/10
 CHECKED/DATE: AP 03/25/10



EXHIBIT B-2B
RESTRICTED AREA MAP/DATA TABLE
 STUDY AREA 5 - SITE 079
 ROUTE 440 VEHICLE CORP.
 BLOCK 1291, LOT 78
 JERSEY CITY, NEW JERSEY

**Exhibit Table B-2
Restricted Area Data Table
Site 079 Route 440 Vehicle Corp.
Block 1291, Lot 76, Jersey City, NJ**

Soil Boring Location	Sample Date	Soil Sample Depth	Elevation (ft msl)	Contaminant	CASR #	NJDEP Soil Criteria (mg/kg)	Soil Concentration (mg/kg)
079-SB-A02	5/14/1997	4 - 6 ft	4.5 - 2.5	Hex. Chromium	18540-29-9	20	304
		4 - 6 ft	4.5 - 2.5	Arsenic	7440-38-2	19	41.8
		4 - 6 ft	4.5 - 2.5	Mercury	7439-97-6	23	483
		4 - 6 ft	4.5 - 2.5	Benzo(a)pyrene	50-32-8	0.2	0.22
		8 - 10 ft	0.5 to -1.5	Hex. Chromium	18540-29-9	20	73.9
079-SB-B01	5/14/1997	0 - 2 ft	9.5 - 7.5	Hex. Chromium	"	"	72.1
		4 - 6 ft	5.5 - 3.5	Hex. Chromium	"	"	601
		8 - 10 ft	1.5 to -0.5	Hex. Chromium	"	"	35.1
079-SB-B02	11/20/1998	6 - 8 ft	4.5 - 2.5	Hex. Chromium	"	"	321
		10 - 12 ft	0.5 to -1.5	Hex. Chromium	"	"	34.8
079-SB-C02	5/14/1997	8 - 10 ft	2.5 - 0.5	Hex. Chromium	"	"	41.6
		12 - 14 ft	-1.5 to -3.5	Hex. Chromium	"	"	63.8
079-SB-D02	10/27/1999	2 - 4 ft	8.0 - 6.0	Hex. Chromium	"	"	33.9
		4 - 6 ft	6.0 - 4.0	Hex. Chromium	"	"	21.7
		6 - 8 ft	4.0 - 2.0	Hex. Chromium	"	"	31.3
		10 - 12 ft	0.0 to -2.0	Hex. Chromium	"	"	20.8
		12 - 14 ft	-2.0 to -4.0	Hex. Chromium	"	"	24.8
079-SB-D05	5/14/1997	0 - 2 ft	11.5 - 9.5	Hex. Chromium	"	"	58.3
079-SB-004	7/26/2005	0 - 2 ft	11.5 - 9.5	Hex. Chromium	"	"	38.5 J
		2 - 3 ft	6.5 - 5.5	Hex. Chromium	"	"	50.4 J
079-SB-008	7/27/2005	2 - 3 ft Dup	6.5 - 5.5	Hex. Chromium	"	"	38.3 J
		4 - 5 ft	4.5 - 3.5	Hex. Chromium	"	"	331 J
		4-6 ft/Dup	5.0 - 3.0	Arsenic	7440-38-2	19	48.9 / 51.6
079-SB-009	7/27/2005	4-6 ft/Dup	5.0 - 3.0	Lead	7439-92-1	400	2550 / 556
		4-6 ft/Dup	5.0 - 3.0	Benzo(a)anthracene	56-55-3	0.6	0.96 / 0.98
		4-6 ft/Dup	5.0 - 3.0	Benzo(a)pyrene	50-32-8	0.2	0.36 / 0.43
		0 - 1 ft	9.0 - 8.0	Hex. Chromium	18540-29-9	20	24
079-SB-029	5/17/2009	4 - 5 ft	6.0 - 5.0	Hex. Chromium	"	"	169
		5 - 6 ft	5.0 - 4.0	Hex. Chromium	"	"	129
		6 - 7 ft	4.0 - 3.0	Hex. Chromium	"	"	57 J
079-SB-033	5/17/2009	4 - 5 ft	6.0 - 5.0	Hex. Chromium	"	"	155 J
		5 - 6 ft	5.0 - 4.0	Hex. Chromium	"	"	109 J
		6 - 7 ft	4.0 - 3.0	Hex. Chromium	"	"	29.2 J
		7 - 8 ft	3.0 - 2.0	Hex. Chromium	"	"	20.3 J
		7 - 8 ft Dup	3.0 - 2.0	Hex. Chromium	"	"	21.6 J
079-SB-035	5/17/2009	5 - 6 ft	3.0 - 2.0	Hex. Chromium	"	"	2770
		5 - 6 ft A	3.0 - 2.0	Hex. Chromium	"	"	103

Notes

NJDEP Soil Criteria based on Soil Remediation Standards (SRS) N.J.A.C. 7:26D (last revised 11/4/09).

NJDEP Current Soil Criteria for hexavalent chromium = 20 mg/kg

CASR #: Chemical Abstract Service Registry Number

J = Indicates estimated value based on data validation

Shaded sample location planned for excavation; not within designated restricted area

Refer to the Consent Decree regarding Study Area 5 Site 79 (1/22/10) for further information regarding deed restriction.

EXHIBIT C

**C-1 Deed Notice as Institutional Control
C-2 Asphalt Cap**

NJDEP Site No. 079 Route 440 Vehicle Corp.
Block 1291 Lot 76
City of Jersey City, Hudson County, New Jersey

C-1 Deed Notice as Institutional Control

NJDEP Site No. 079 Route 440 Vehicle Corp.
Block 1291 Lot 76
City of Jersey City, Hudson County, New Jersey

(A) General Description:

- (1) The portion of the Property shown on Exhibit B-1 known as Block 1291, Lot 76 is a Restricted Area. The estimated size of the Restricted Area is approximately 18,000 square feet.
- (2) Proper precautions must be taken (i.e., excavation or digging) that may penetrate the bottom of the engineering controls on the Restricted Area. See subsections 6A and 6B of the Deed Notice for directions on Alterations, Improvements, Disturbances, and Emergencies.
- (3) The restrictions will prevent contact with soils above the NJDEP Soil Cleanup Criteria.

(B) Description of monitoring:

- (1) Annual visual inspections of the Restricted Area will be conducted to determine whether any disturbances of the soil in the Restricted Area resulted in the unacceptable exposure to the soil contamination;
- (2) Annual visual inspections of the Restricted Area will be conducted to determine whether there have been any land use changes subsequent to the filing of this Deed Notice or the most recent biennial certification, whichever is more recent;
- (3) Annual visual inspections of the Restricted Area will be conducted to determine whether the current land use on the property is consistent with the restrictions in this Deed Notice;
- (4) A review will be conducted to determine if any newly promulgated or modified requirements of applicable regulations or laws apply to the site; and
- (5) A review will be conducted to determine if any new standards, regulations, or laws apply to the site that might necessitate additional sampling in order to evaluate the protectiveness of the remedial action which includes this Deed Notice. If necessary, this additional sampling will be performed.

(C) Biennial certification items:

A monitoring report will be included in the biennial certification. Components of the monitoring report will include the following:

- A report of all conditions set forth in Deed Notice subparagraph 14C.i.(C) to assure that they have been adhered to. Includes evaluation of any available documents created as a result of changes in land use or incidents.
- A report that determines whether or not the land use at the site has remained consistent with the restrictions in the Deed Notice.
- A report that determines whether or not the Deed Notice continues to be protective of the public health and safety and of the environment.

C-2 Asphalt Cap

NJDEP Site No. 079 Route 440 Vehicle Corp.
Block 1291 Lot 76
City of Jersey City, Hudson County, New Jersey

(A) General Description:

- (1) The existing asphalt cap across the Restricted Area prevents direct contact with underlying soils, which may contain contaminants of concern in excess of applicable NJDEP Soil Cleanup Criteria.

Based on soil boring logs completed at Block 1291, Lot 76, the existing asphalt cap in the Restricted Area is estimated to be constructed with approximately 6-inches of base gravel aggregate and approximately 6-inches of bituminous asphalt.

- (2) The objective of the Asphalt Cap is to prevent direct contact with soils that are above the applicable NJDEP Soil Cleanup Criteria.
- (3) The Asphalt Cap is intended to function as a barrier to underlying soils, which may be above the applicable NJDEP Soil Cleanup Criteria.

(B) Description of the operation and maintenance:

Visual inspections of the Property will be performed annually to ensure that:

- (1) Periodic inspections of each engineering control are performed in order to determine its integrity, operability, and effectiveness;
- (2) Each engineering control continues as designed and intended to protect the public health and safety and the environment;
- (3) Each alteration, excavation or disturbance of any engineering control is timely and appropriately addressed to maintain the integrity of the engineering control (also, see subsections 6A and 6B of this Deed Notice for directions on Alterations, Improvements, Disturbances, and Emergencies.)
- (4) This engineering control is being inspected and maintained and its integrity remains so that the remedial action continues to be protective of the public health and safety and of the environment; and,
- (5) Records of the inspections are to be maintained as listed in Deed Notice subparagraph 14C.ii.(B)(5). Should the visual inspection indicate that other activities are necessary, those activities will be listed and executed.

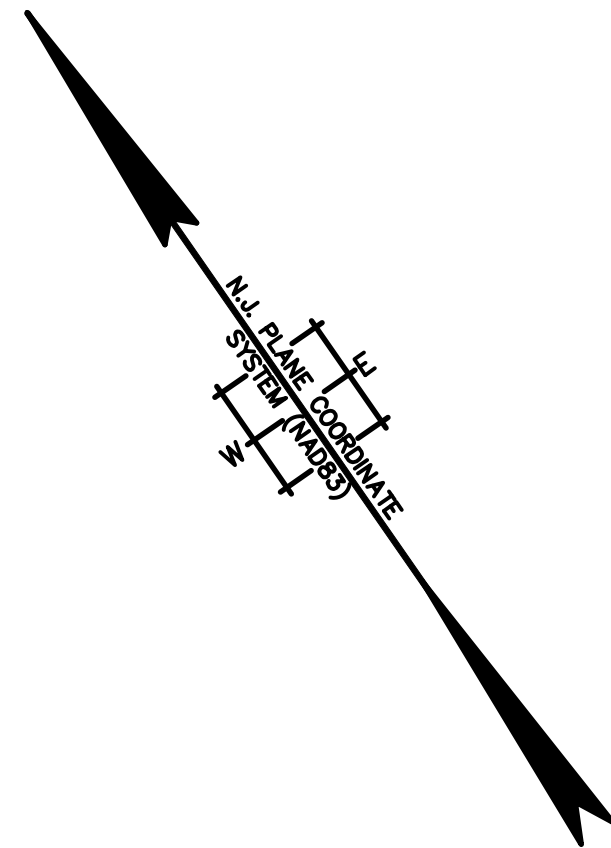
(6) A review of any new standards, regulations, or laws will be conducted to evaluate the protectiveness of the remedial action, which includes this Deed Notice. Should the review indicate that other activities are necessary, those activities will be listed and executed.

(C) Biennial certification items:

The monitoring report will be included in the biennial certification. Components of the monitoring report will include the following:

- A report of all conditions set forth in Deed Notice subparagraph 14(C).ii.(C) to ensure that they have been adhered to. Includes an evaluation to determine whether or not the Asphalt Cap is continuing to meet its original objective and intended function.
- A report to determine whether or not the Asphalt Cap continues to operate as designed.
- A report to determine whether or not the Asphalt Cap continues to be protective of the public health and safety and of the environment.

APPENDIX J
TOPOGRAPHIC SURVEY - LOT 76 BLOCK 1291



TRAV. CR SET #3
N 885008.83 E
E 604032.29 ELEV. 9.47

TRAV. CR SET #7
N 685617.32 E
E 604008.35 ELEV. 10.10

$R=292.00'$
 $L=119.22'$
 $\Delta=23^{\circ}23'32''$
 $CH=118.39'$
 $CB=N36^{\circ}28'41''E$
 $TAN=60.45'$

$R=40.00'$
 $L=58.29'$
 $\Delta=83^{\circ}29'39''$
 $CH=53.27'$
 $CB=S13^{\circ}30'13''E$
 $TAN=35.70'$

$R=990.00'$
 $L=225.95'$
 $\Delta=13^{\circ}04'36''$
 $CH=225.46'$
 $CB=S34^{\circ}46'55''W$
 $TAN=113.47'$

$R=40.00'$
 $L=58.18'$
 $\Delta=83^{\circ}20'12''$
 $CH=53.19'$
 $CB=S82^{\circ}59'19''W$
 $TAN=35.60'$

$R=42.00'$
 $L=54.81'$
 $\Delta=74^{\circ}46'08''$
 $CH=51.00'$
 $CB=N12^{\circ}36'09''W$
 $TAN=32.09'$

References

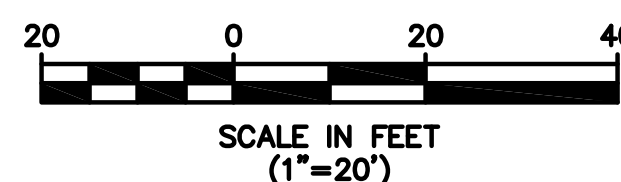
- DEED BOOK 3495, PAGE 5 & c.

Notes

- SUBJECT TO ANY STATEMENT OF FACT A COMPLETE AND UP TO DATE TITLE SEARCH AND BOUNDARY SURVEY MIGHT REVEAL.
- EXISTING CONDITIONS ARE BASED ON FIELD WORK PERFORMED ON OR BEFORE 12/15/10.
- THE PROPERTY LINES SHOWN ARE APPROXIMATE AND ARE FOR ILLUSTRATIVE PURPOSES ONLY. NO ATTEMPT HAS BEEN MADE, IN CONJUNCTION WITH THIS TOPOGRAPHIC SKETCH, TO ASCERTAIN THE LOCATION OF SAID PROPERTY LINES. THIS IS NOT A PROPERTY SURVEY.
- PROPERTY LINES SHOWN BASED ON REFERENCE NO. 1.
HORIZONTAL DATUM: NAD83 (GORS96) N.J. STATE PLANE COORDINATE SYSTEM
VERTICAL DATUM: NAVD88

COORDINATES: U.S. SURVEY FEET
TRAV. CR SET #3 N 885008.83 E 604032.29 ELEV. 9.47
TRAV. CR SET #7 N 685617.32 E 604008.35 ELEV. 10.10

MONITORING POINTS			
NORTHING	EASTING	ELEVATION	DESCRIPTION
685498.895	604075.778	7.02	MONITOR PK#1
685614.025	604084.468	8.77	MONITOR PK#2
685583.435	604143.392	8.91	MONITOR PK#3
685698.000	604170.999	8.51	MONITOR PK#4



LEGEND					
LINE TYPES	SYMBOLS				
—	ELECTRIC LINE	○	SIGNS	⊕	CLEAN OUTS
—	WATER LINE	☆	LIGHT POLE	⊙	BORE HOLES
—	FENCE LINE	○	BOLLARDS	⊙	DECIDUOUS TREE
—	GUIDE RAIL	⊕	FIRE HYDRANT	⊙	BUSHES
—	OVER HEAD WIRES	⊕	UTILITY POLES	⊙	EVERGREEN TREES
—	SANITARY LINE	⊕	GUY WIRES	⊕	MARSH AREA
—	STORM LINE	⊕	WATER VALVES	⊕	
—	TREE LINE	⊕	GAS VALVES	⊕	
—	METLAND LINE	⊕	'MASER' CONSULTING MONUMENTS TO BE SET (TO BE SET)		
—	EDGE OF STREAM				

ABBREVIATION
 RW= RETAINING WALL TC= TOP OF CURB
 TW= TOP OF WALL BC= BOTTOM OF CURB
 BW= BOTTOM OF WALL EP= EDGE OF PAVEMENT
 TB= TOP OF BANK RCP= REINFORCED CONCRETE PIPE
 BB= BOTTOM OF BANK PVC= POLYVINYL CHLORIDE
 GS= GROUND SHOT ELEVATION

REV.	DATE	DRAWN BY	DESCRIPTION

MICHAEL F. BURNS
 NEW JERSEY PROFESSIONAL
 LAND SURVEYOR LIC. NO. 34841

MASER
 CONSULTING, MUNICIPAL & ENVIRONMENTAL ENGINEERS
 PLANNERS • SURVEYORS • LANDSCAPE ARCHITECTS
 State of N.J. Certificate of Authorization: 24GA27986500

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 Chestnut Ridge, N.Y.
 Bethlehem, PA.

TOPOGRAPHIC SURVEY
 FOR
MACTEC ENGINEERING & CONSULTING, INC.
 OF
METRO HONDA - LOT 76 BLOCK 1291
 SITUATE IN
 CITY OF JERSEY CITY HUDSON COUNTY NJ

JOB NUMBER: 10001346A	DATE: JAN. 3, 2011
SCALE: 1"= 30'	LATEST REVISION:
INDEX NUMBER: HASJ026917	DESIGN BY: AG
SHEET NUMBER: 1	of 1

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